

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\
 Data File : VD060984.D
 Acq On : 8 Mar 2019 15:24
 Operator : VA/AP
 Sample : K1757-15
 Misc : 6.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-6AB-D

Quant Time: Mar 08 22:05:51 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	7.05	168	801280	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1503423	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1173582	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	574493	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	392109	58.79	ug/l	0.00
Spiked Amount			Recovery	=	117.58%	
35) Dibromofluoromethane	6.92	113	610008	54.67	ug/l	0.00
Spiked Amount			Recovery	=	109.34%	
50) Toluene-d8	10.41	98	1460739	52.13	ug/l	0.01
Spiked Amount			Recovery	=	104.26%	
62) 4-Bromofluorobenzene	13.55	95	563597	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	

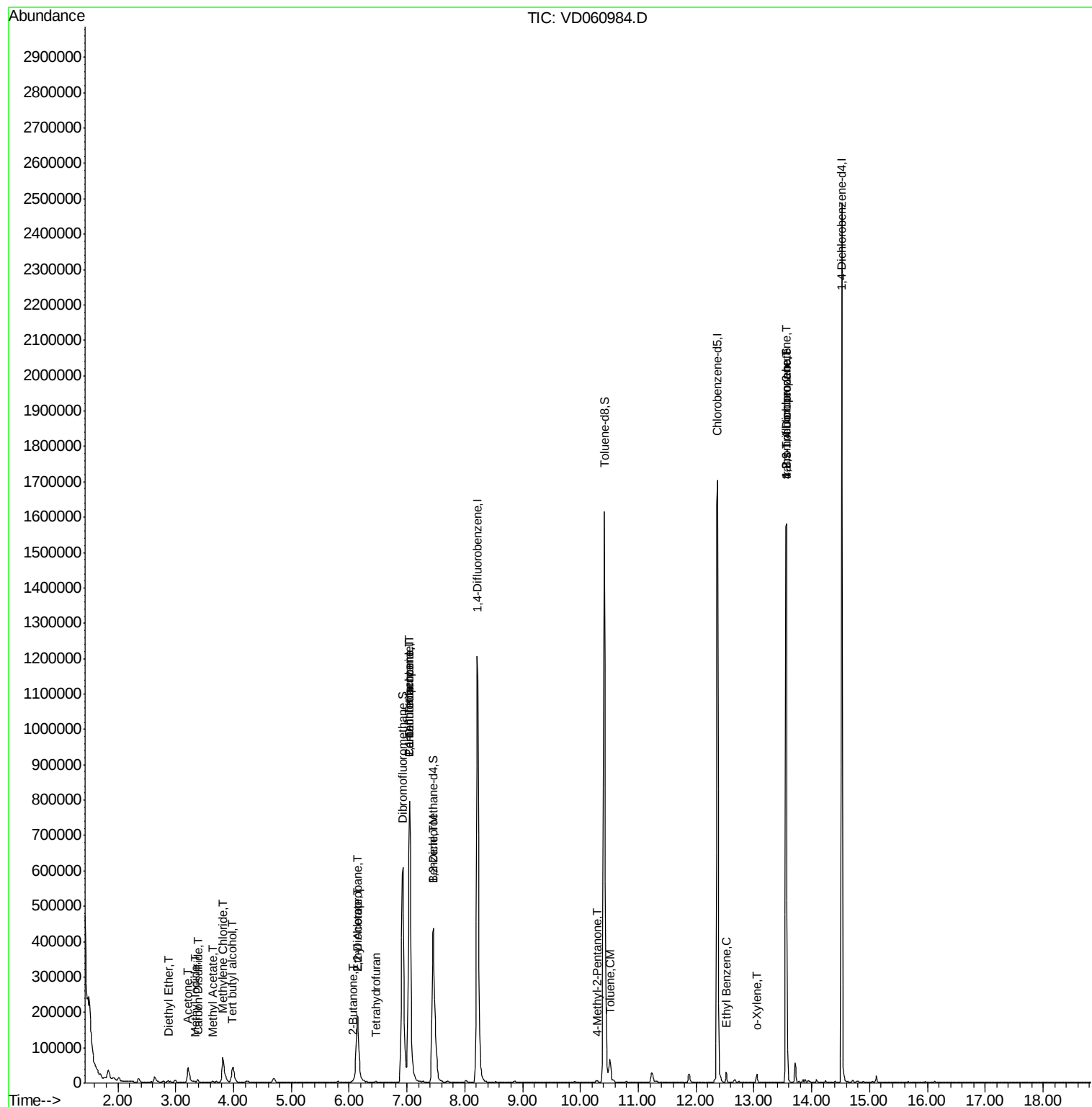
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	197	Below Cal	#	8
8) Diethyl Ether	2.87	74	1520	0.525	ug/l	86
10) Methyl Iodide	3.33	142	1225	3.019	ug/l #	39
11) Tert butyl alcohol	3.99	59	43405	102.224	ug/l #	75
16) Acetone	3.22	43	89520	46.936	ug/l	96
17) Carbon Disulfide	3.38	76	12964	0.478	ug/l	99
18) Methyl Acetate	3.64	43	4403	1.173	ug/l #	91
20) Methylene Chloride	3.82	84	47439	0.873	ug/l	95
25) 2-Butanone	6.06	43	15945	7.368	ug/l	92
26) 2,2-Dichloropropane	6.15	77	13731	1.202	ug/l #	50
29) Tetrahydrofuran	6.46	42	1927	1.640	ug/l #	65
36) 1,1-Dichloropropene	7.05	75	59970	4.628	ug/l #	45
37) Ethyl Acetate	6.14	43	11794	1.939	ug/l #	1
38) Carbon Tetrachloride	7.05	117	77315	5.416	ug/l #	15
40) Benzene	7.46	78	35568	1.098	ug/l	99
51) 4-Methyl-2-Pentanone	10.30	43	3371	0.653	ug/l #	84
52) Toluene	10.51	92	35117	1.744	ug/l	97
67) Ethyl Benzene	12.52	91	21597	0.631	ug/l	97
69) o-Xylene	13.05	106	6866	0.520	ug/l	97
76) 1,2,3-Trichloropropane	13.55	75	176320	21.333	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	207774	85.268	ug/l #	17

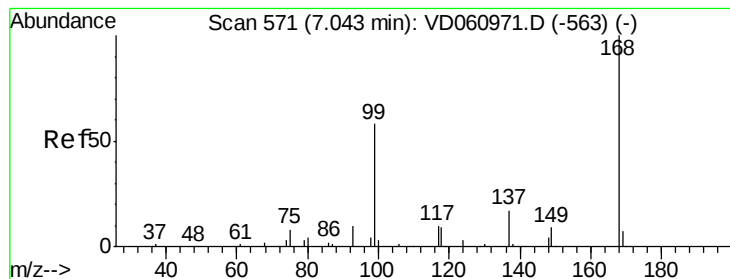
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.05 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

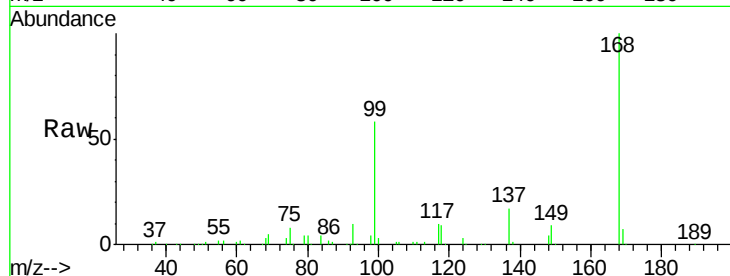
TP-6AB-D

Tot Ion:168 Resp: 801280

Ion Ratio Lower Upper

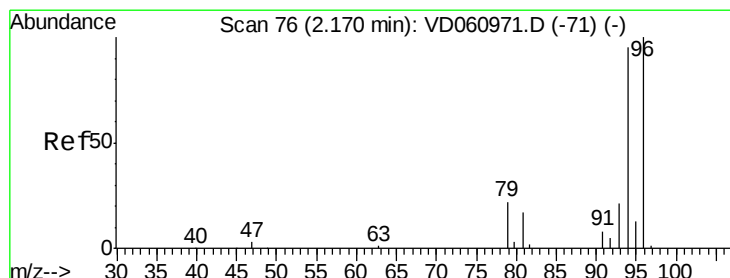
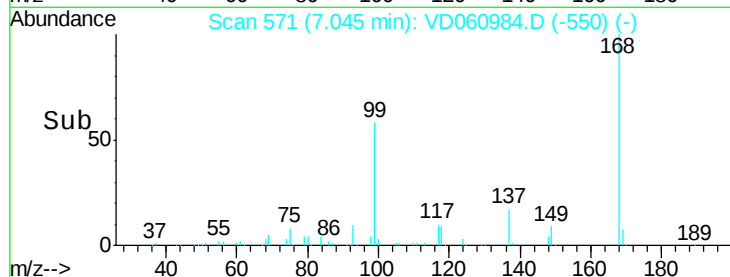
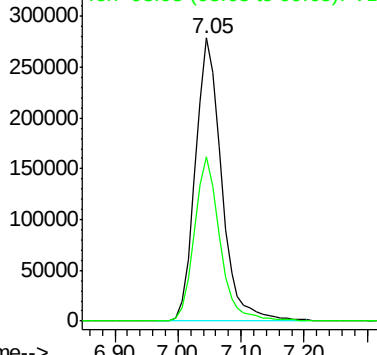
168 100

99 58.2 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.19 min Scan# 78

Delta R.T. 0.02 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

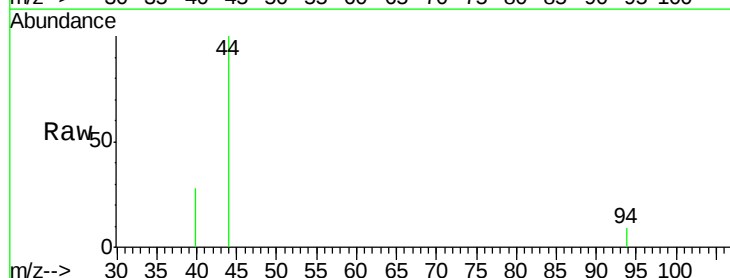
Tgt Ion: 94 Resp: 197

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

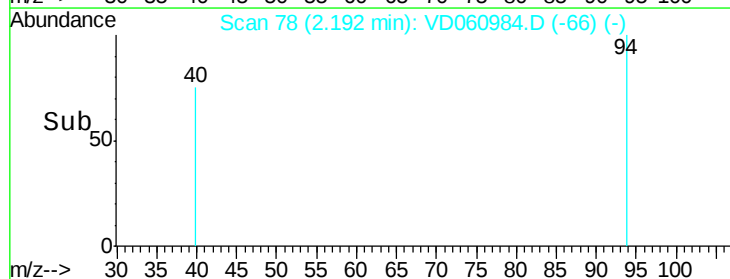
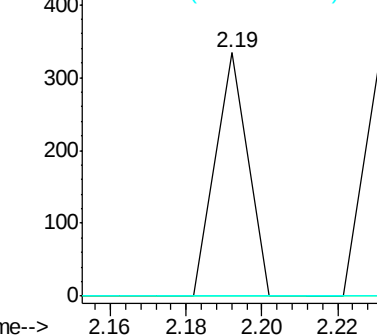
93 0.0 17.3 25.9#

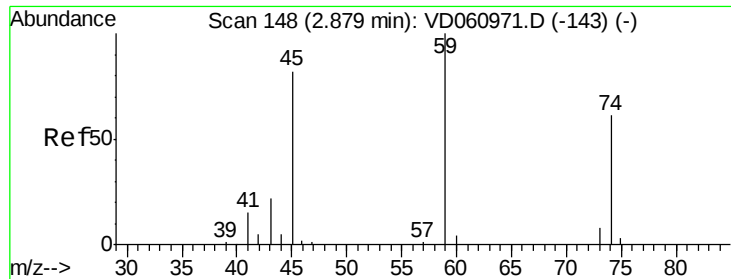


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 0.525 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampled :

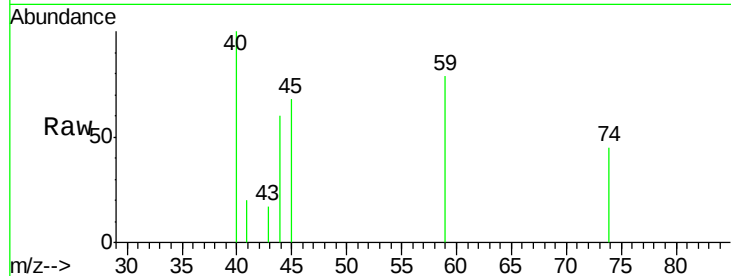
TP-6AB-D

Tot Ion: 74 Resp: 1520

Ion Ratio Lower Upper

74 100

45 150.7 67.0 201.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

1500

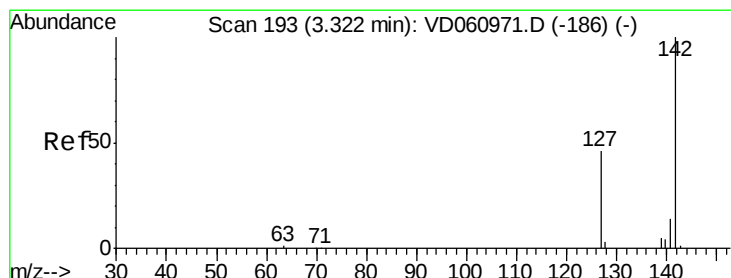
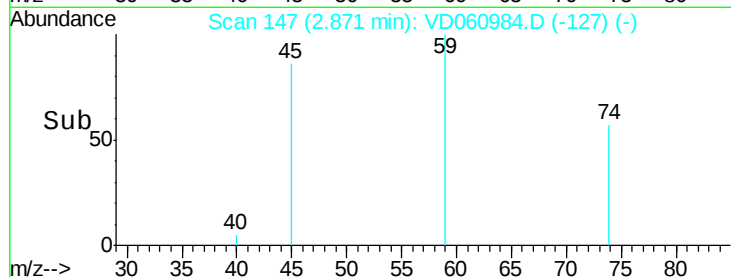
1000

500

0

2.85 2.90

Time-->



#10

Methyl Iodide

Concen: 3.019 ug/l

RT: 3.33 min Scan# 194

Delta R.T. 0.01 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

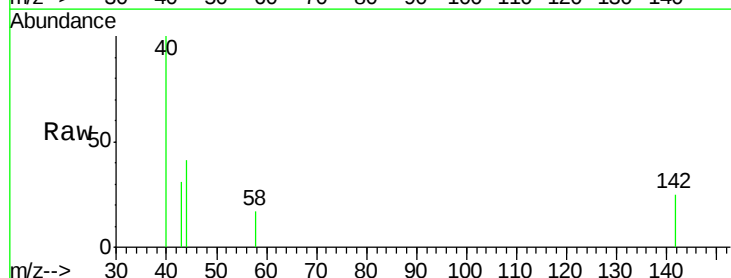
Tgt Ion: 142 Resp: 1225

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

600

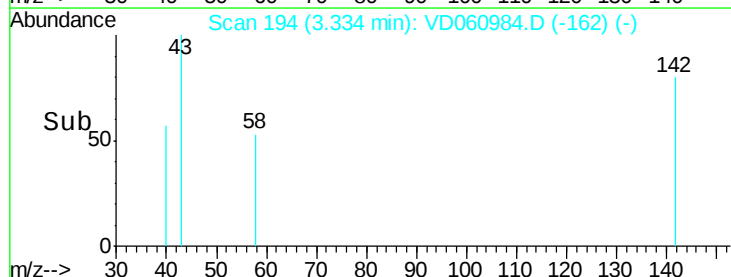
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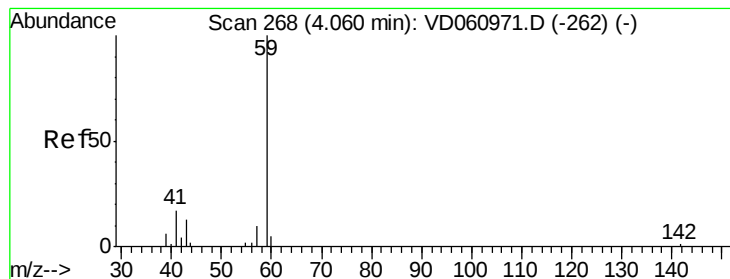
200

0

3.25 3.30 3.35

Time-->



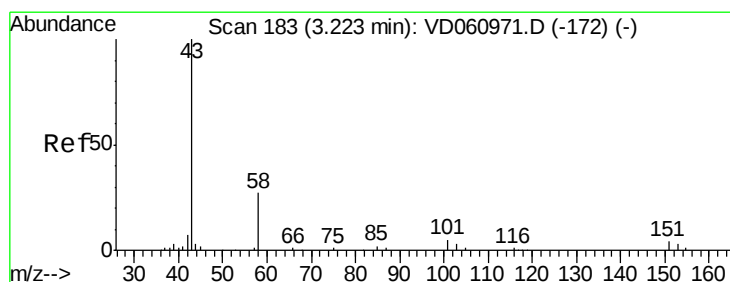
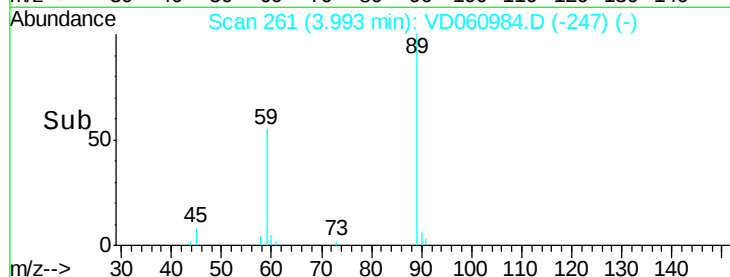
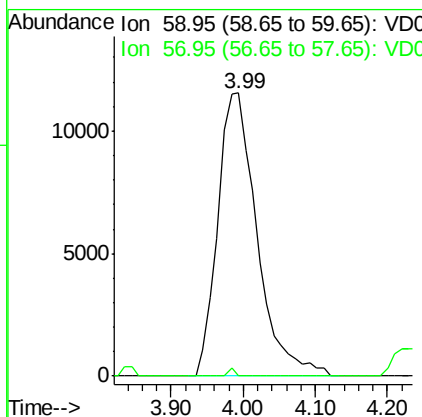
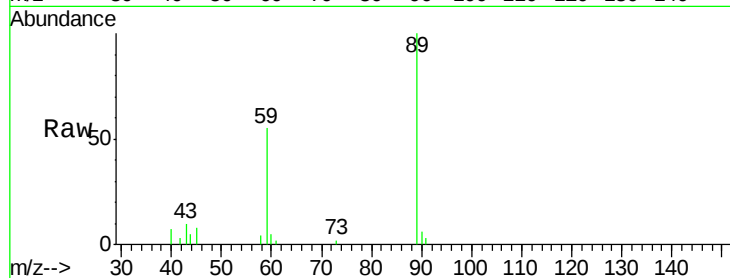


#11

Tert butyl alcohol
Concen: 102.224 ug/l
RT: 3.99 min Scan# 261
Delta R.T. -0.07 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

Instrument :
MSVOA_D
ClientSampleId :
TP-6AB-D

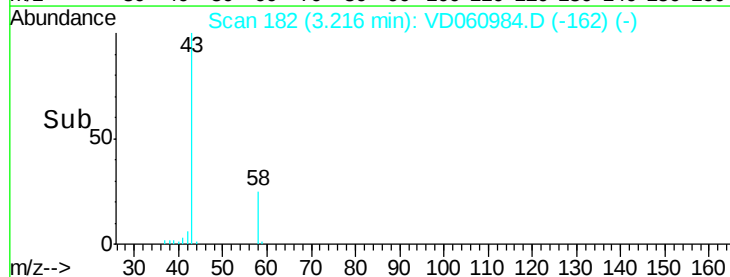
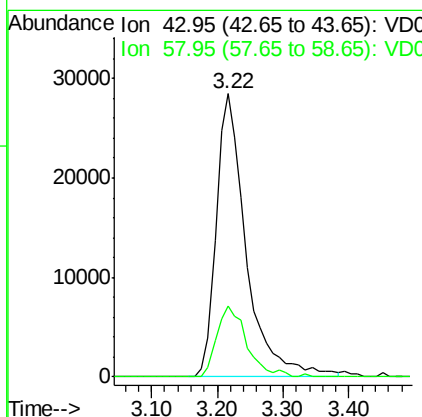
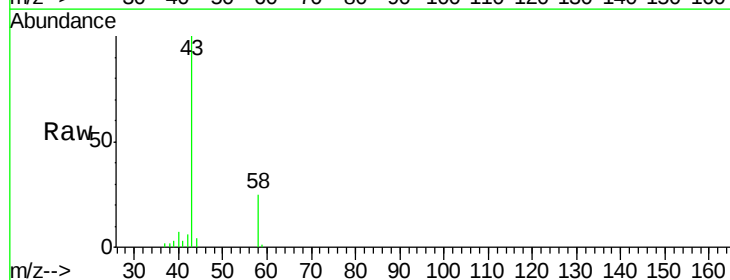
Tot Ion: 59 Resp: 43405
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#

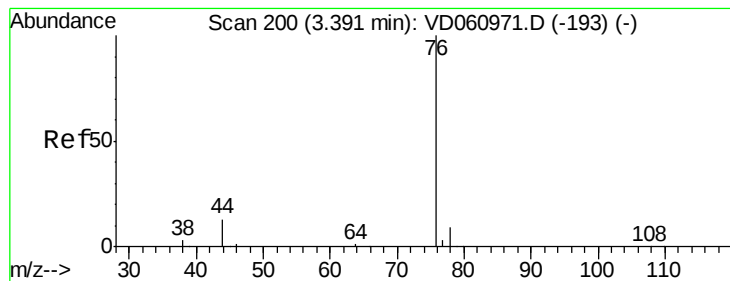


#16

Acetone
Concen: 46.936 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

Tgt Ion: 43 Resp: 89520
Ion Ratio Lower Upper
43 100
58 25.1 21.6 32.4





#17

Carbon Disulfide

Concen: 0.478 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

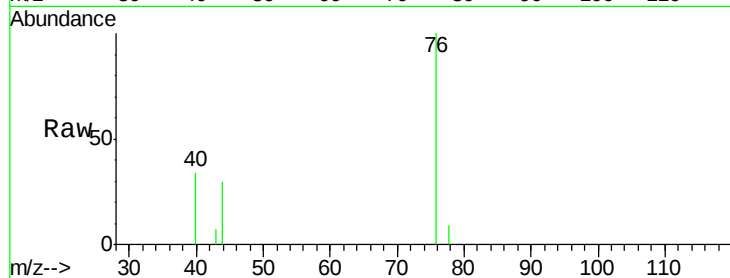
TP-6AB-D

Tot Ion: 76 Resp: 12964

Ion Ratio Lower Upper

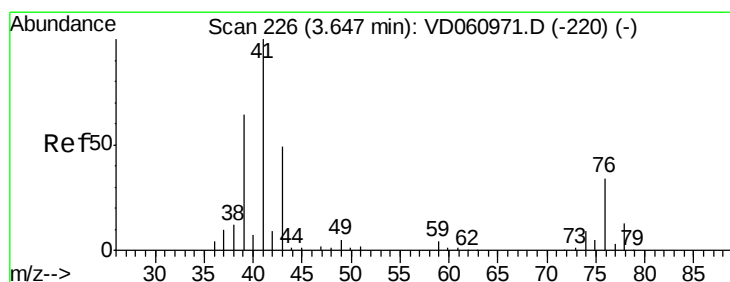
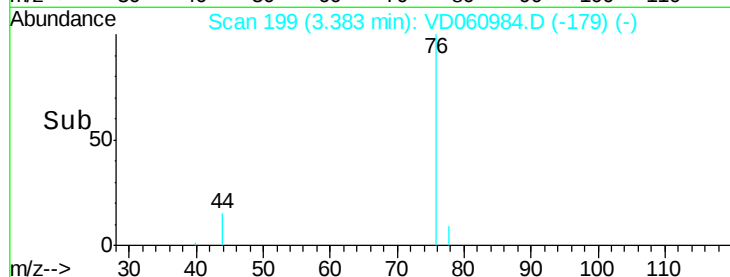
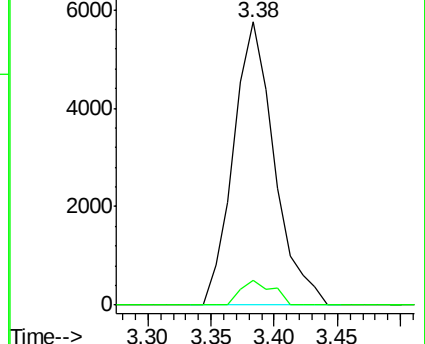
76 100

78 8.9 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 1.173 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD060984.D

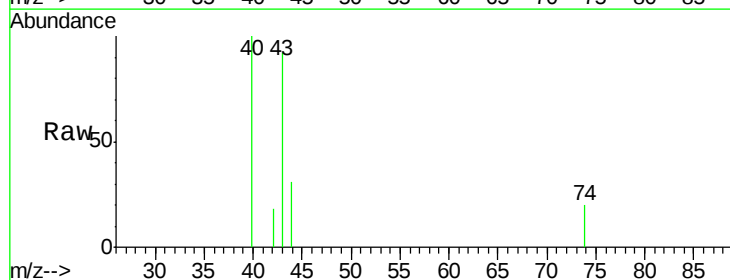
Acq: 8 Mar 2019 15:24

Tgt Ion: 43 Resp: 4403

Ion Ratio Lower Upper

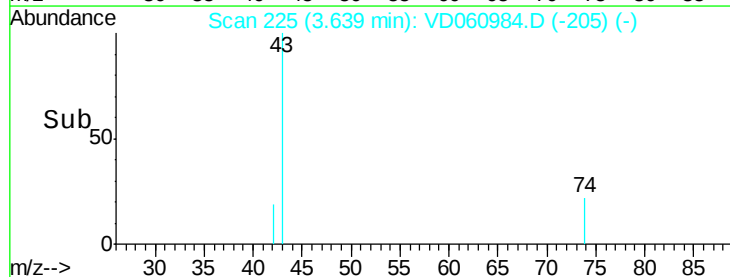
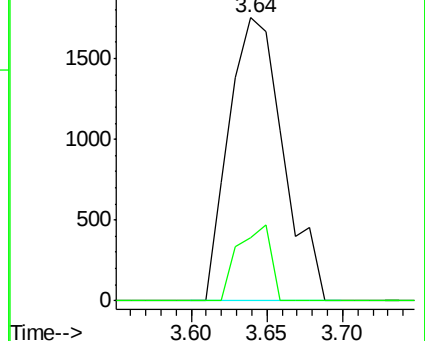
43 100

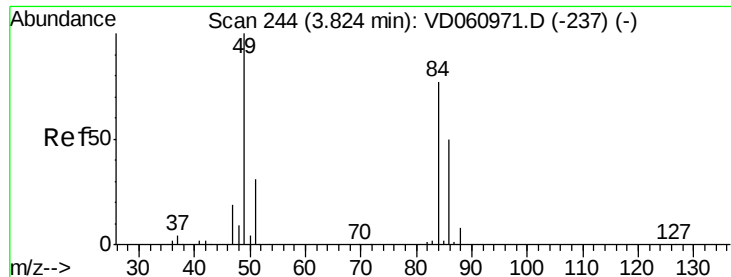
74 22.1 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

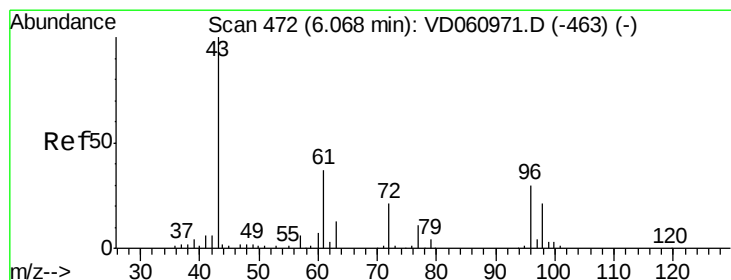
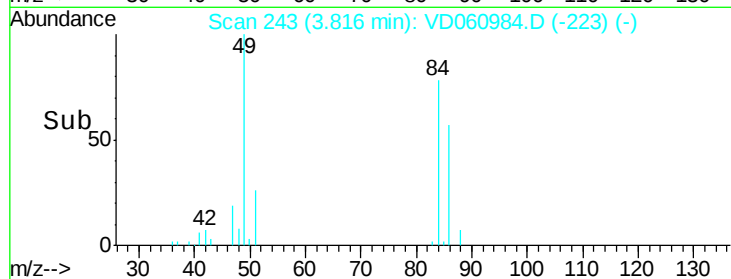
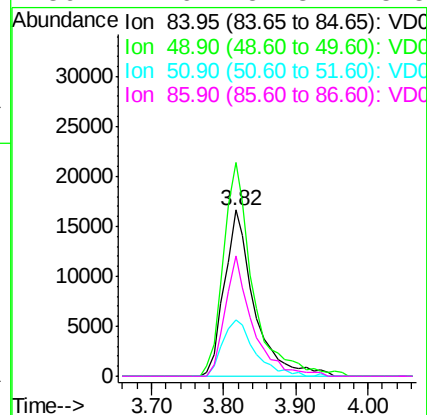
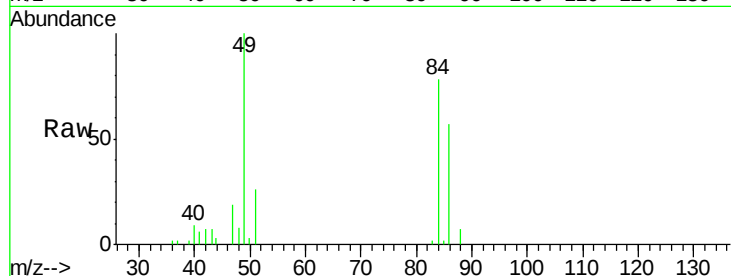




#20
Methylene Chloride
Concen: 0.873 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

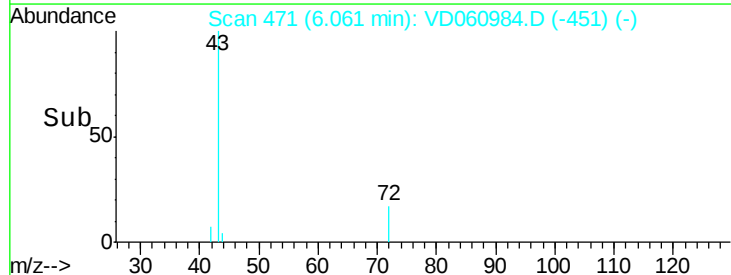
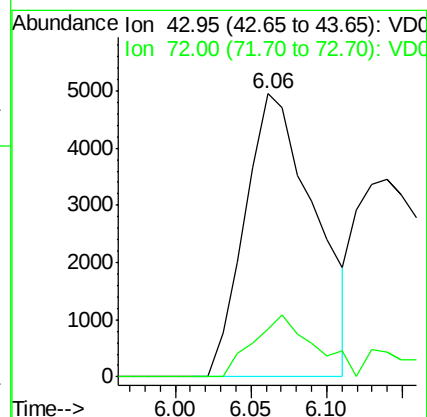
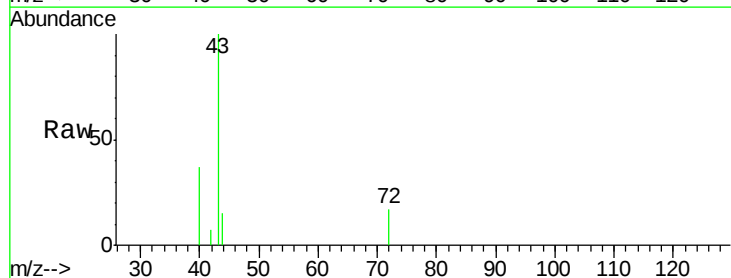
Instrument :
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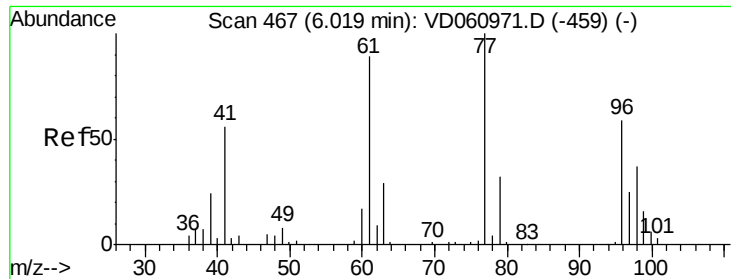
Tot Ion: 84 Resp: 47439
Ion Ratio Lower Upper
84 100
49 128.4 104.2 156.2
51 33.6 32.3 48.5
86 72.6 52.3 78.5



#25
2-Butanone
Concen: 7.368 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.01 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

Tgt Ion: 43 Resp: 15945
Ion Ratio Lower Upper
43 100
72 17.1 16.7 25.1





#26

2,2-Dichloropropane

Concen: 1.202 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.13 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

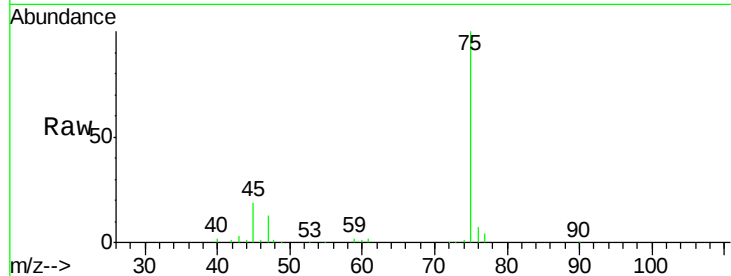
TP-6AB-D

Tot Ion: 77 Resp: 13731

Ion Ratio Lower Upper

77 100

97 0.0 12.6 37.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

6.15

4000

3000

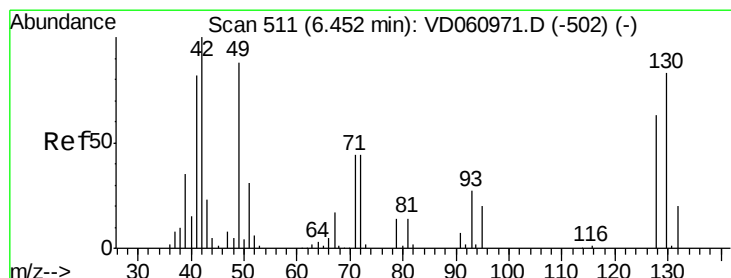
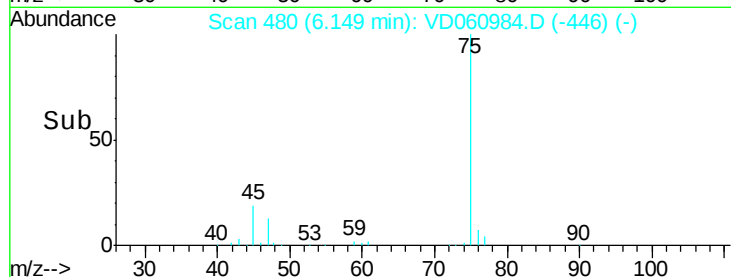
2000

1000

0

6.05 6.10 6.15 6.20

Time-->



#29

Tetrahydrofuran

Concen: 1.640 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

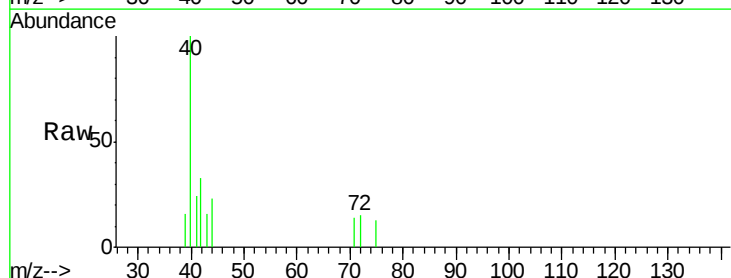
Tgt Ion: 42 Resp: 1927

Ion Ratio Lower Upper

42 100

72 21.4 34.5 51.7#

71 19.8 33.8 50.6#



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

6.46

800

600

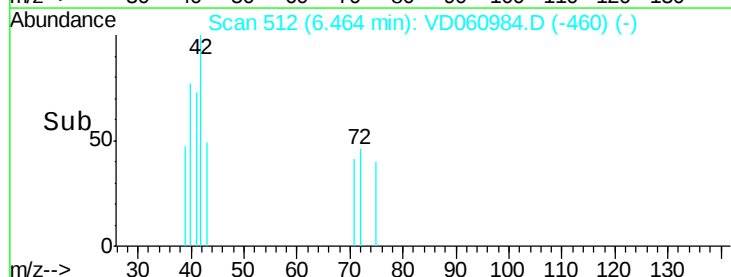
400

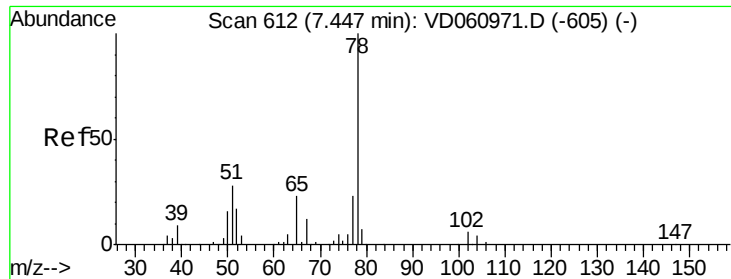
200

0

6.40 6.45 6.50

Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

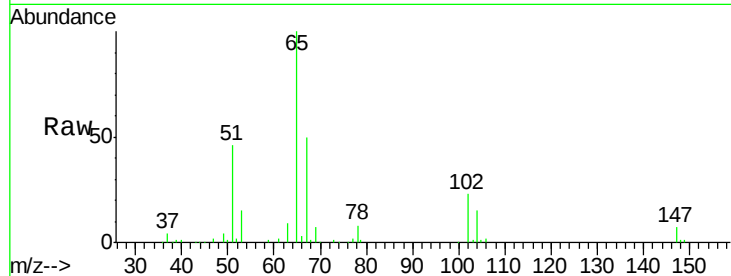
TP-6AB-D

Tot Ion: 65 Resp: 392109

Ion Ratio Lower Upper

65 100

67 50.1 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

150000

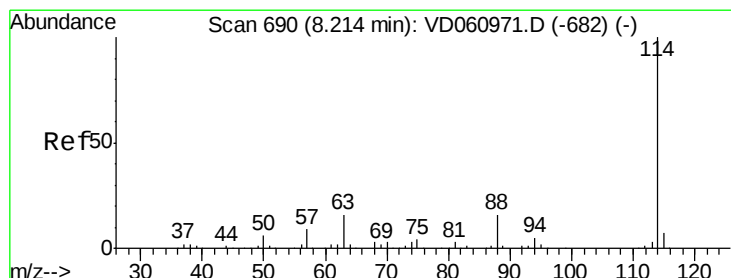
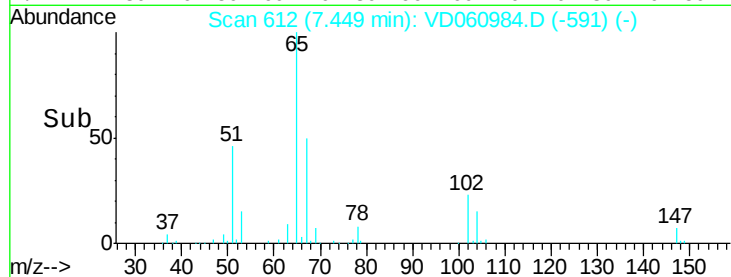
100000

50000

0

7.30 7.40 7.50 7.60

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

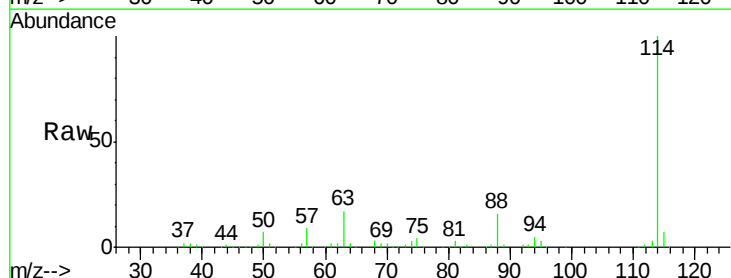
Tgt Ion:114 Resp: 1503423

Ion Ratio Lower Upper

114 100

63 16.5 0.0 31.4

88 16.1 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

8.22

800000

600000

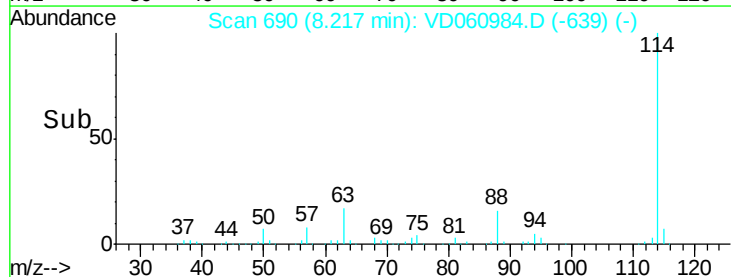
400000

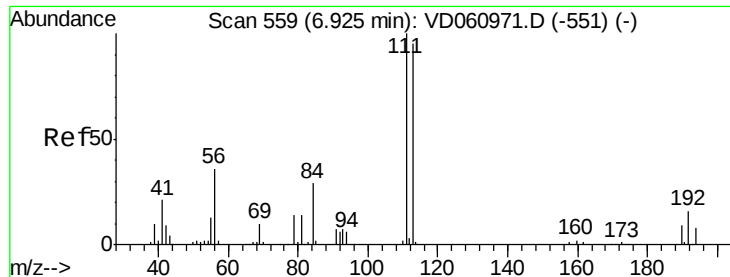
200000

0

8.20 8.40

Time-->

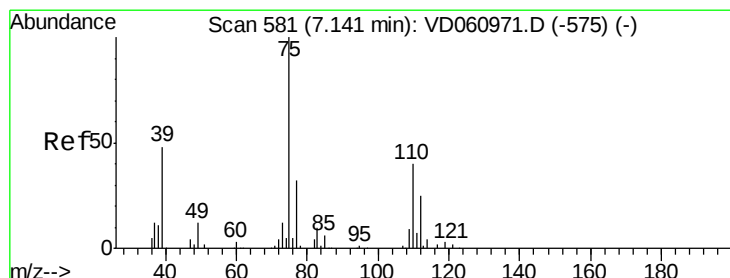
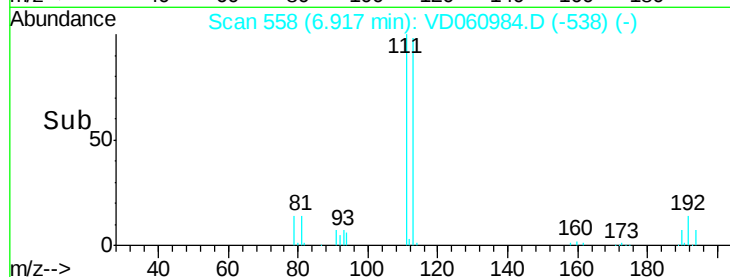
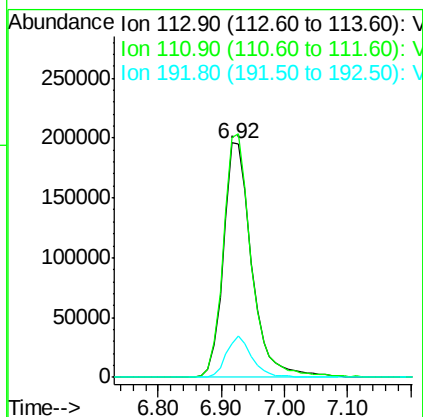
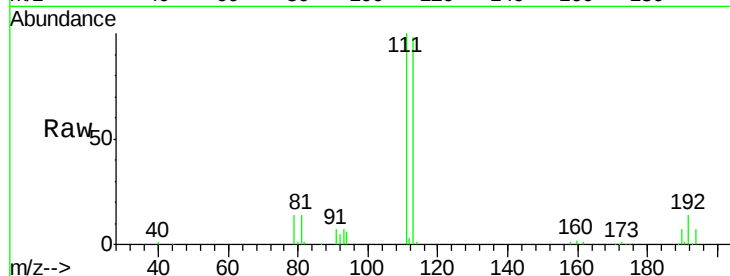




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.01 min
 Lab File: VD060984.D
 Acq: 8 Mar 2019 15:24

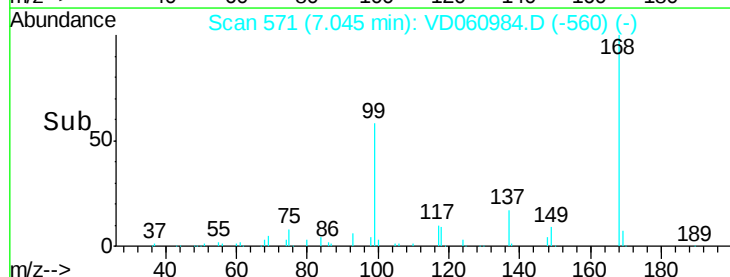
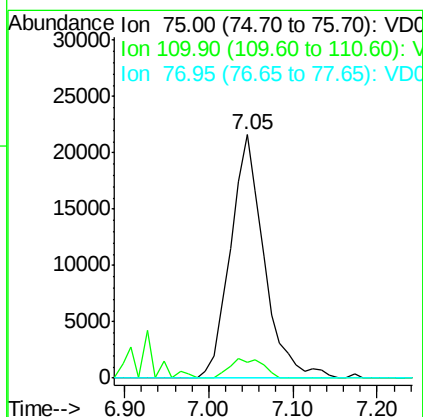
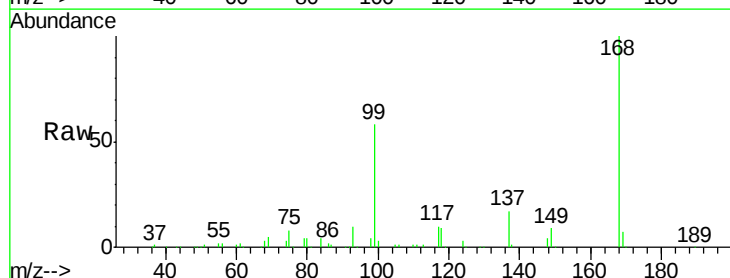
Instrument :
 MSVOA_D
 ClientSampled :
 TP-6AB-D

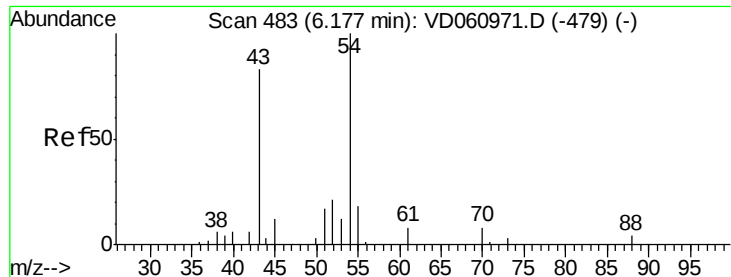
Tot Ion:113 Resp: 610008
 Ion Ratio Lower Upper
 113 100
 111 102.4 84.2 126.4
 192 14.4 13.1 19.7



#36
 1,1-Dichloropropene
 Concen: 4.628 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD060984.D
 Acq: 8 Mar 2019 15:24

Tgt Ion: 75 Resp: 59970
 Ion Ratio Lower Upper
 75 100
 110 6.6 19.7 59.1#
 77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.939 ug/l

RT: 6.14 min Scan# 479

Delta R.T. -0.04 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

TP-6AB-D

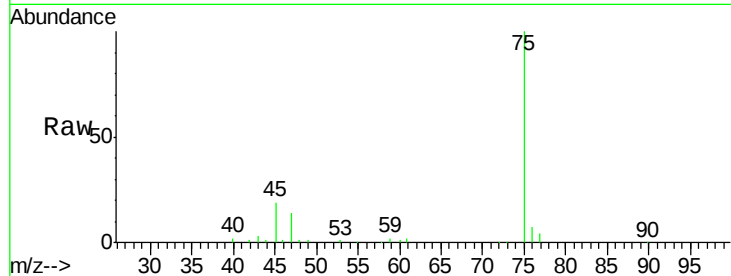
Tot Ion: 43 Resp: 11794

Ion Ratio Lower Upper

43 100

61 77.4 13.7 20.5#

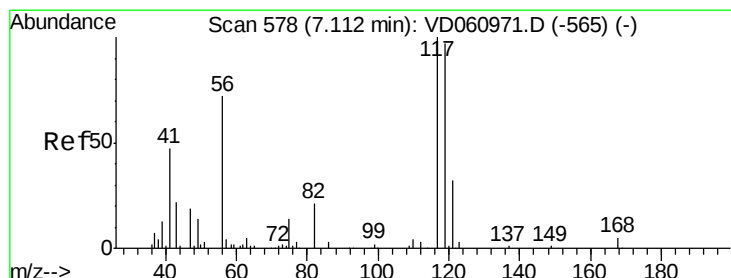
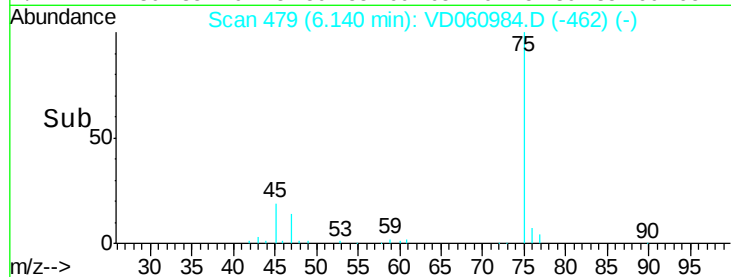
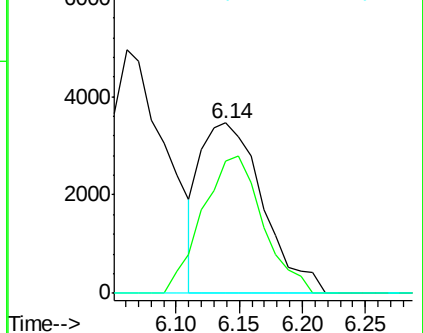
70 0.0 7.1 10.7#



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: 5.416 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

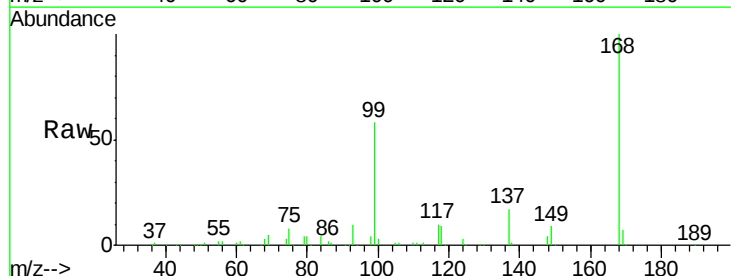
Tgt Ion: 117 Resp: 77315

Ion Ratio Lower Upper

117 100

119 4.6 77.8 116.8#

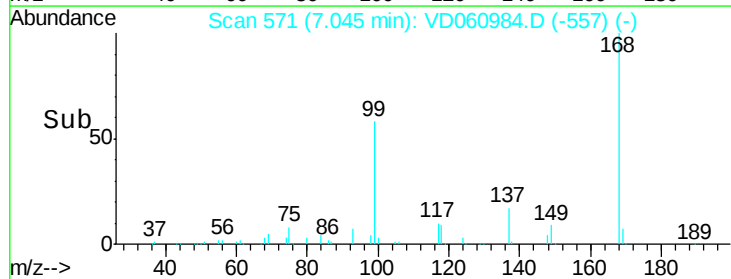
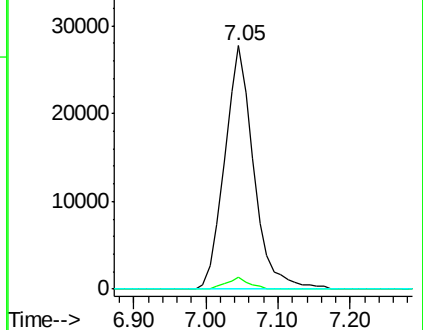
121 0.0 25.3 37.9#

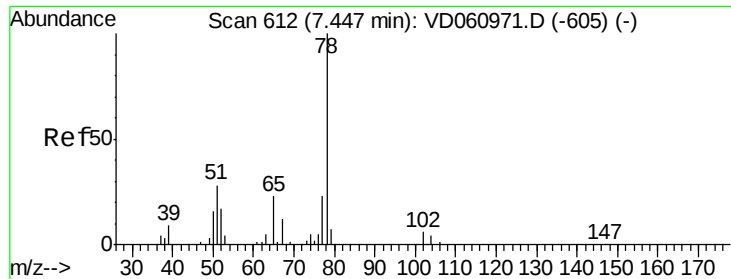


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#40

Benzene

Concen: 1.098 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampled :

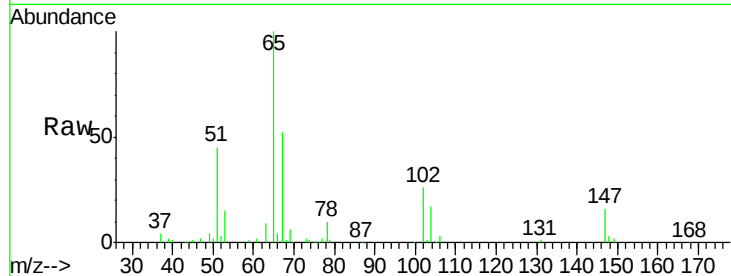
TP-6AB-D

Tot Ion: 78 Resp: 35568

Ion Ratio Lower Upper

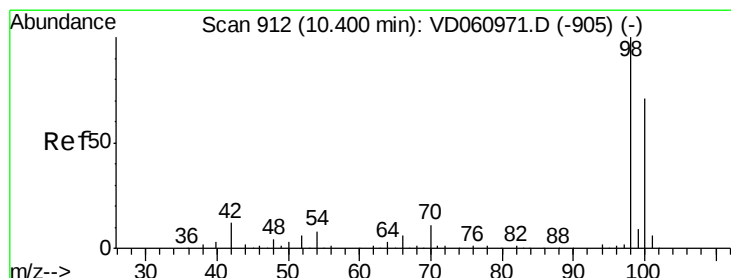
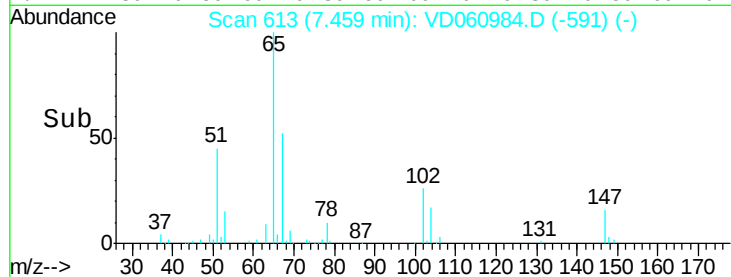
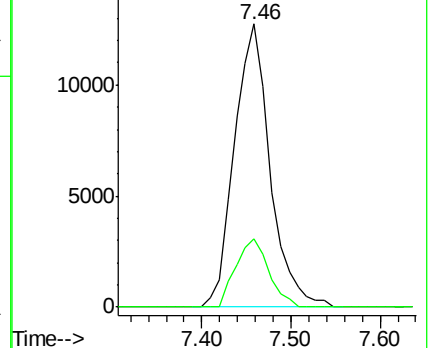
78 100

77 24.2 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD060984.D

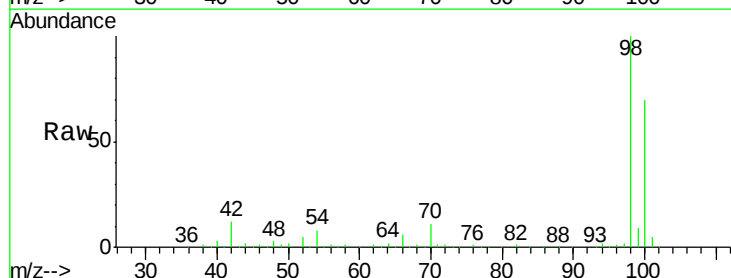
Acq: 8 Mar 2019 15:24

Tgt Ion: 98 Resp: 1460739

Ion Ratio Lower Upper

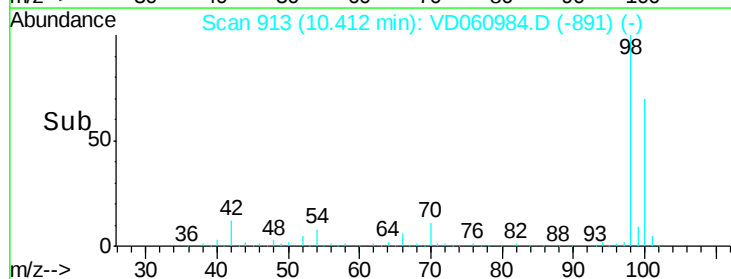
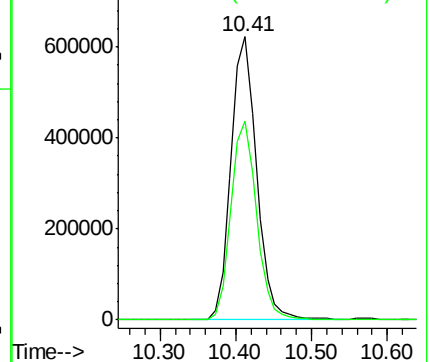
98 100

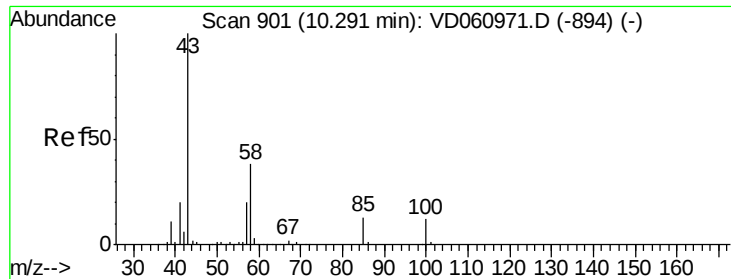
100 70.2 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

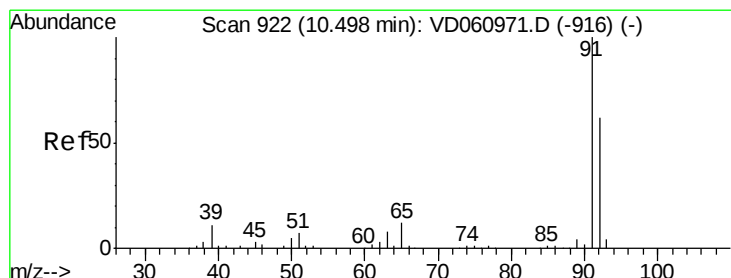
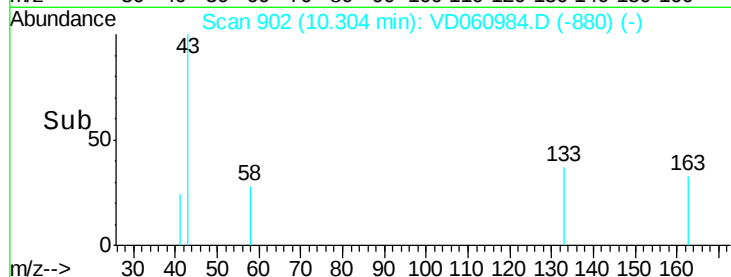
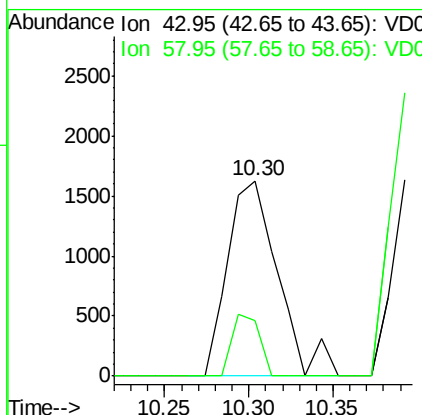
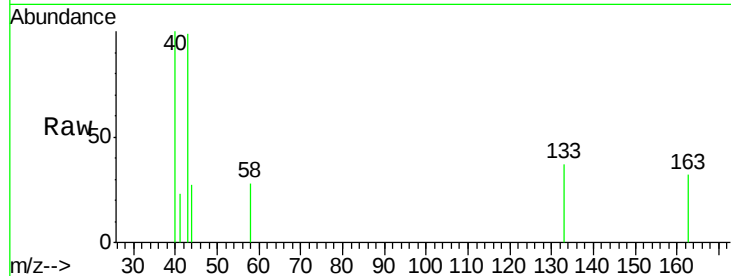




#51
4-Methyl-2-Pentanone
Concen: 0.653 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

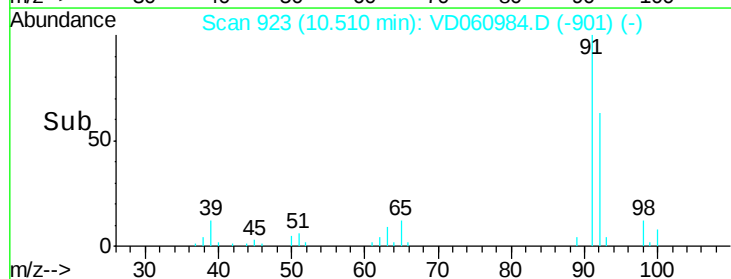
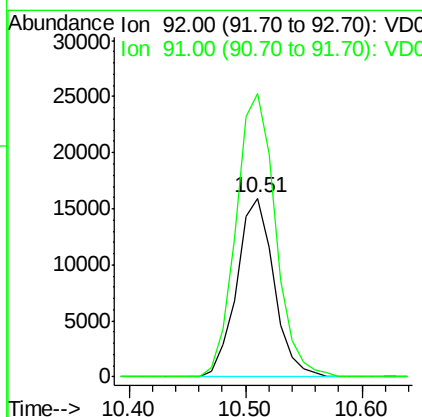
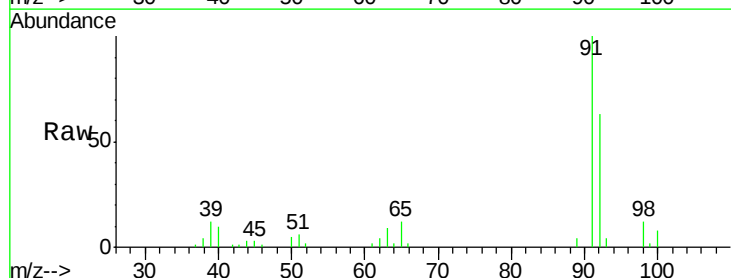
Instrument :
MSVOA_D
ClientSampleID :
TP-6AB-D

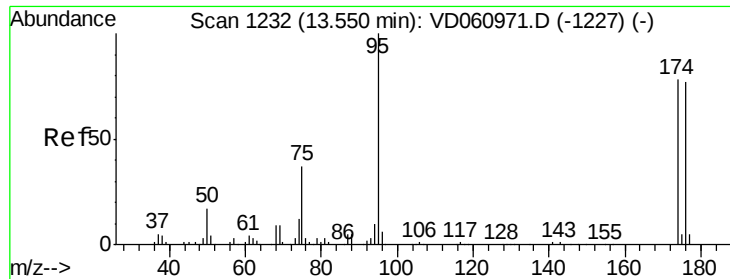
Tot Ion: 43 Resp: 3371
Ion Ratio Lower Upper
43 100
58 28.2 30.2 45.2#



#52
Toluene
Concen: 1.744 ug/l
RT: 10.51 min Scan# 923
Delta R.T. 0.01 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

Tgt Ion: 92 Resp: 35117
Ion Ratio Lower Upper
92 100
91 158.1 129.8 194.8





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

TP-6AB-D

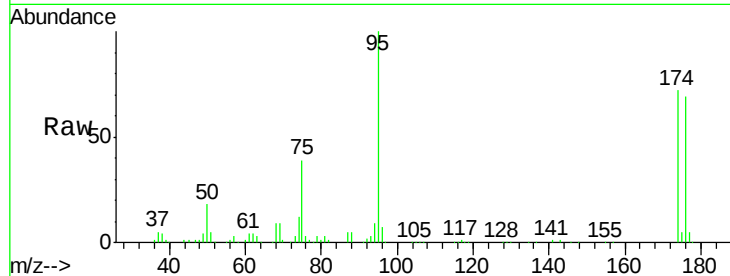
Tot Ion: 95 Resp: 563597

Ion Ratio Lower Upper

95 100

174 72.2 0.0 155.6

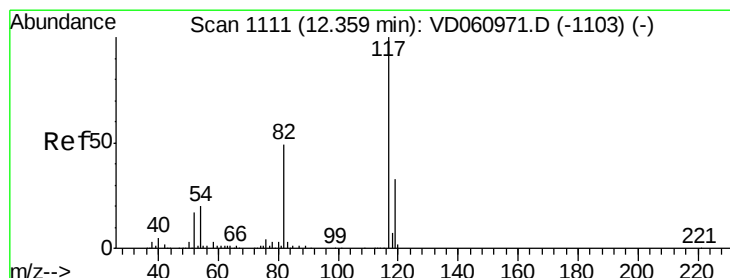
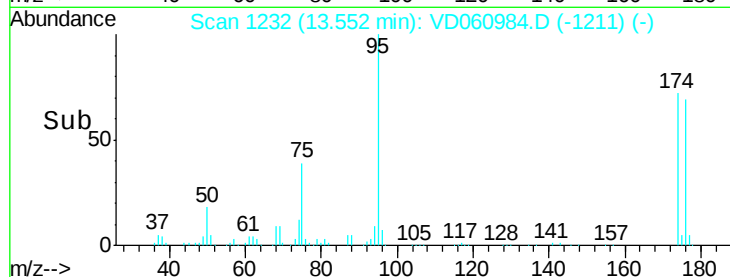
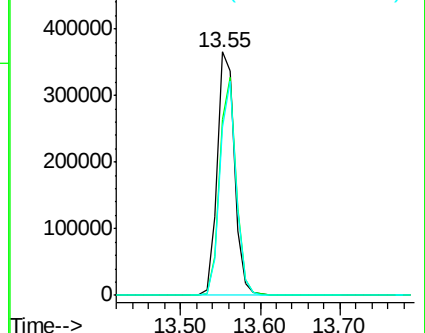
176 69.2 0.0 153.8



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: VD060984.D

Acq: 8 Mar 2019 15:24

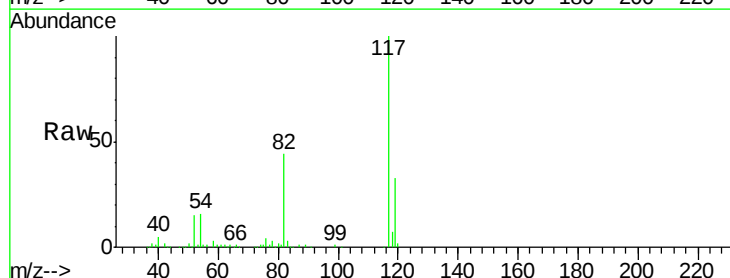
Tgt Ion: 117 Resp: 1173582

Ion Ratio Lower Upper

117 100

82 43.7 38.9 58.3

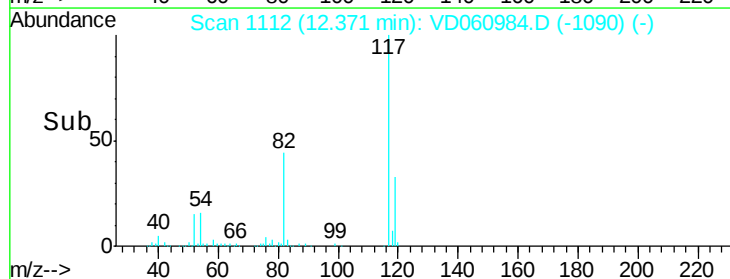
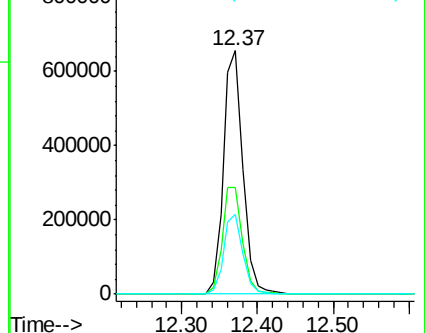
119 32.8 26.6 39.8

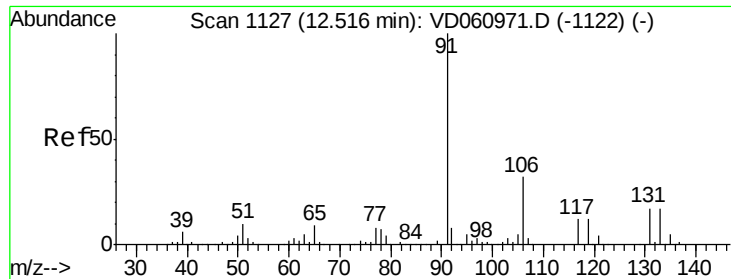


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

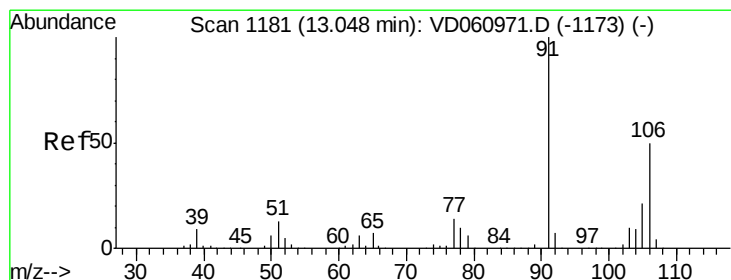
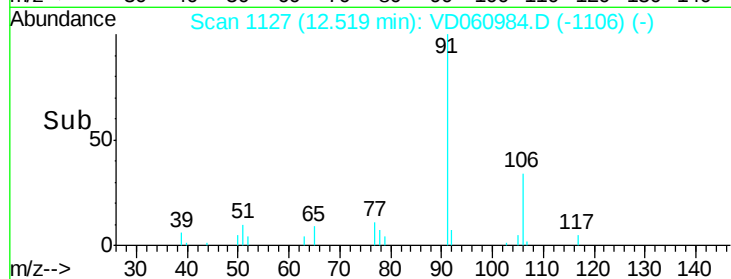
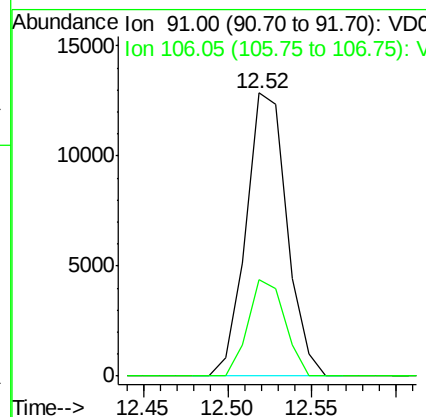
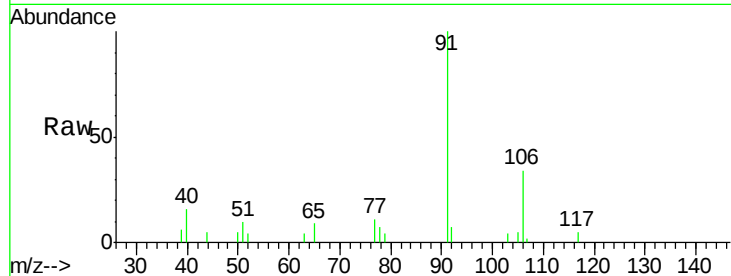




#67
Ethyl Benzene
Concen: 0.631 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

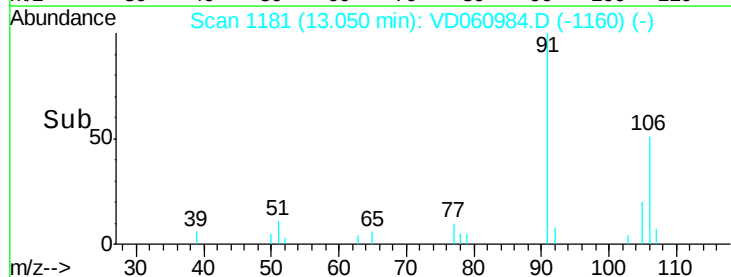
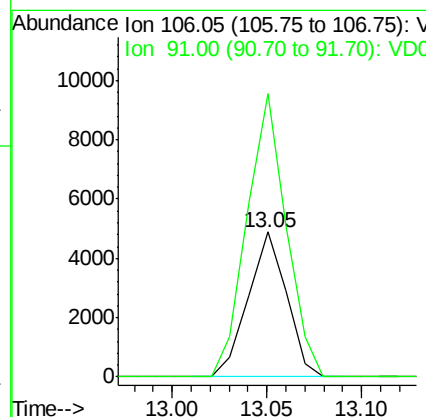
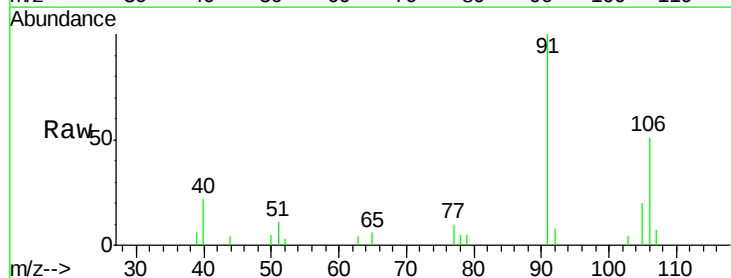
Instrument :
MSVOA_D
ClientSampled :
TP-6AB-D

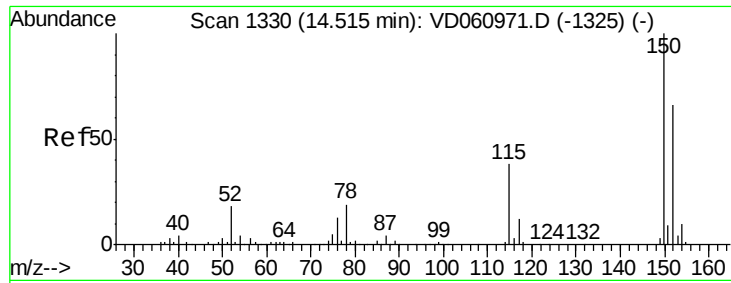
Tot Ion: 91 Resp: 21597
Ion Ratio Lower Upper
91 100
106 34.0 25.7 38.5



#69
o-Xylene
Concen: 0.520 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD060984.D
Acq: 8 Mar 2019 15:24

Tgt Ion: 106 Resp: 6866
Ion Ratio Lower Upper
106 100
91 195.5 99.8 299.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

TP-6AB-D

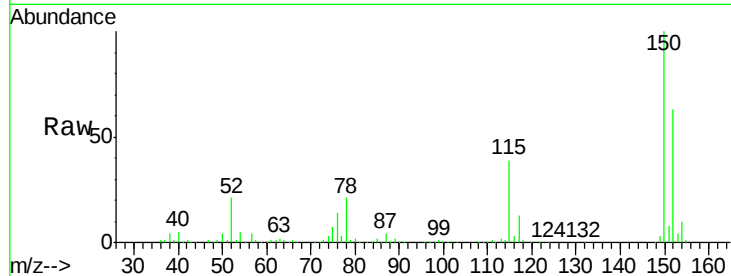
Tot Ion:152 Resp: 574493

Ion Ratio Lower Upper

152 100

115 62.4 28.6 85.9

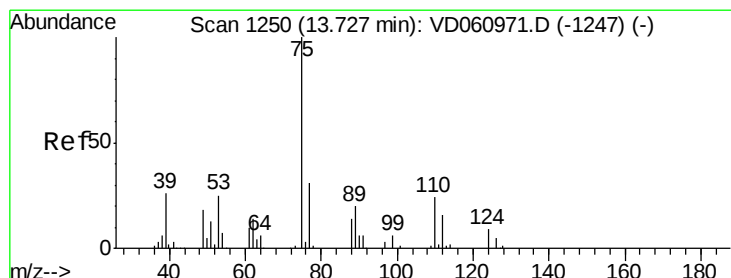
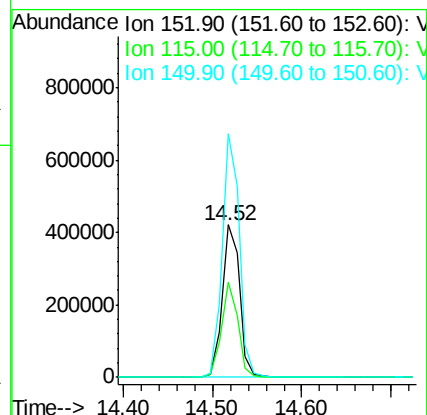
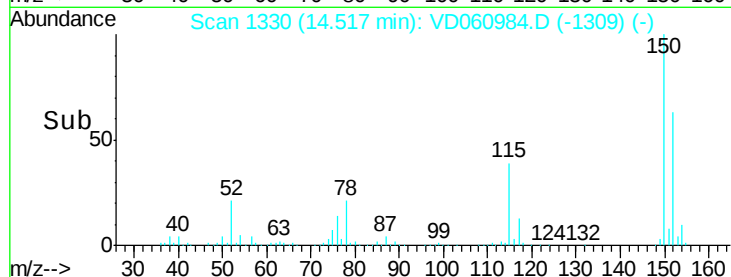
150 159.5 0.0 310.6



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



#76

1,2,3-Trichloropropane

Concen: 21.333 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD060984.D

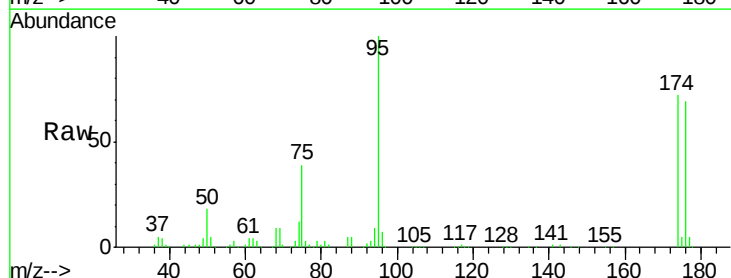
Acq: 8 Mar 2019 15:24

Tgt Ion: 75 Resp: 176320

Ion Ratio Lower Upper

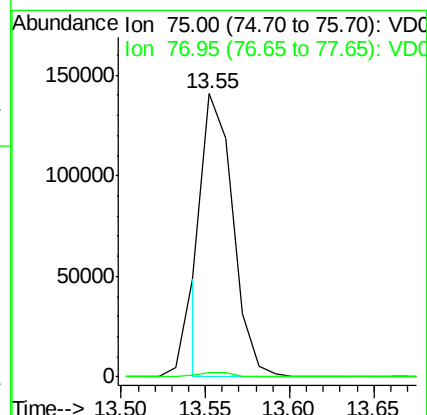
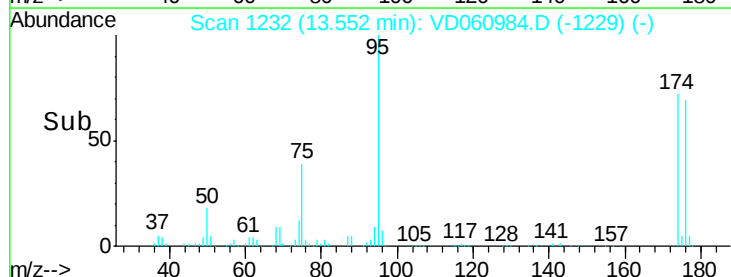
75 100

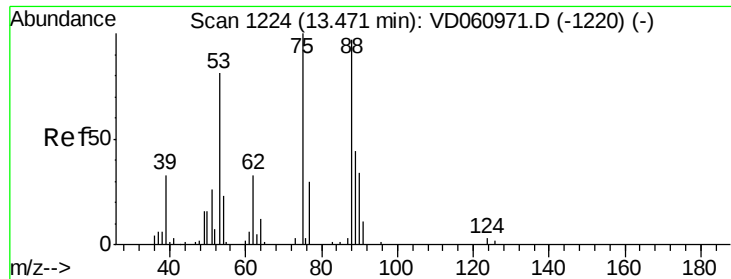
77 1.6 16.6 49.7#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 85.268 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD060984.D

Acq: 8 Mar 2019 15:24

Instrument :

MSVOA_D

ClientSampleId :

TP-6AB-D

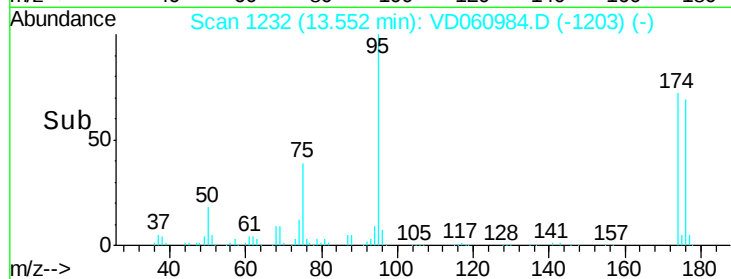
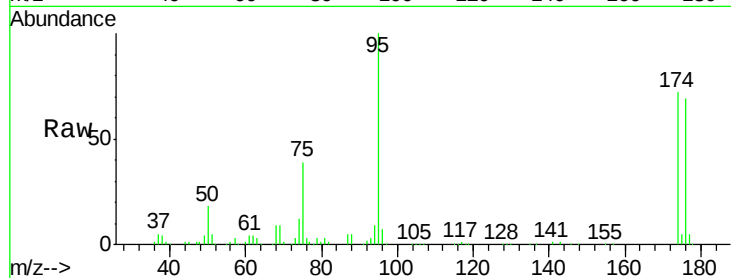
Tot Ion: 75 Resp: 207774

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

