

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051719\
 Data File : VD062437.D
 Acq On : 17 May 2019 14:12
 Operator : FY/SY
 Sample : K2643-05
 Misc : 5.39g/5mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-051619-A

Quant Time: May 18 00:04:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	10048	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	17040	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.37	117	13891	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	6635	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	5342	57.21	ug/l	0.03
Spiked Amount			Recovery	=	114.42%	
35) Dibromofluoromethane	6.93	113	4339	30.69	ug/l	0.04
Spiked Amount			Recovery	=	61.38%	
50) Toluene-d8	10.42	98	9551	28.02	ug/l	0.03
Spiked Amount			Recovery	=	56.04%	
62) 4-Bromofluorobenzene	13.56	95	4355	31.81	ug/l	0.02
Spiked Amount			Recovery	=	63.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	1686	105.436	ug/l #	12
10) Methyl Iodide	3.35	142	202	1.332	ug/l #	37
16) Acetone	3.22	43	7202	367.783	ug/l #	77
38) Carbon Tetrachloride	7.04	117	466	2.410	ug/l #	12
43) Isopropyl Acetate	9.14	43	194	2.309	ug/l #	43
76) 1,2,3-Trichloropropane	13.56	75	1886	23.918	ug/l #	42
78) n-propylbenzene	13.78	91	567	1.195	ug/l #	54
79) 2-Chlorotoluene	13.78	91	567	2.087	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.56	75	1886	84.725	ug/l #	16
82) 4-Chlorotoluene	13.96	91	588	1.839	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.24	105	559	1.663	ug/l #	30
85) sec-Butylbenzene	14.38	105	445	1.078	ug/l #	60
87) 1,3-Dichlorobenzene	14.46	146	531	2.611	ug/l #	72
89) n-Butylbenzene	14.80	91	541	1.635	ug/l #	80
91) 1,2-Dichlorobenzene	14.81	146	247	1.475	ug/l #	10
95) Naphthalene	16.13	128	917	5.387	ug/l #	70

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.03 min

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ClientSampleId :

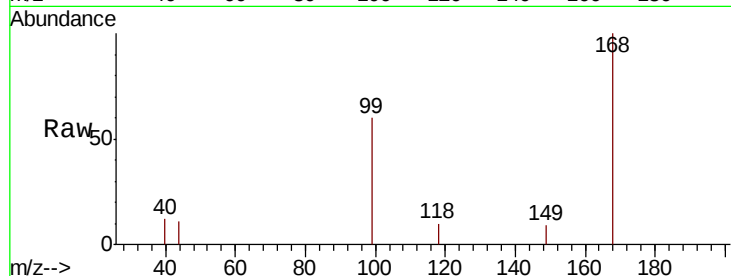
OR-02-051619-A

Tot Ion:168 Resp: 10048

Ion Ratio Lower Upper

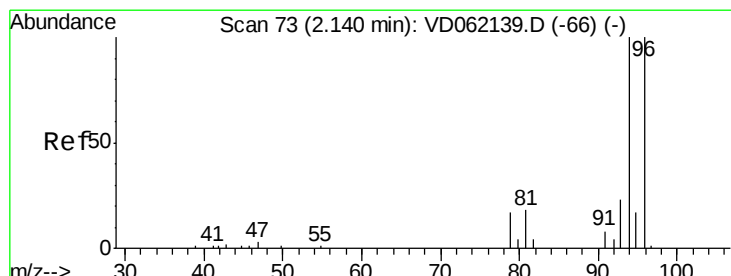
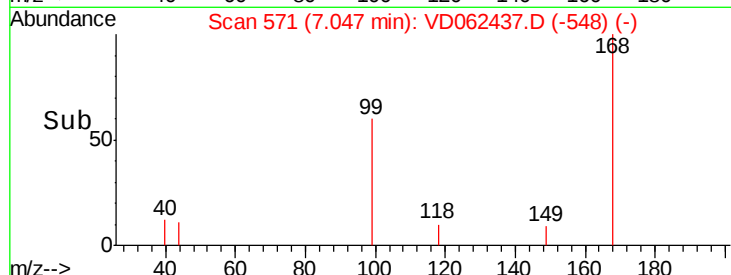
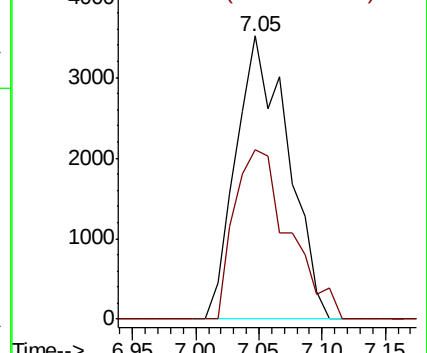
168 100

99 59.7 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: 105.436 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.03 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

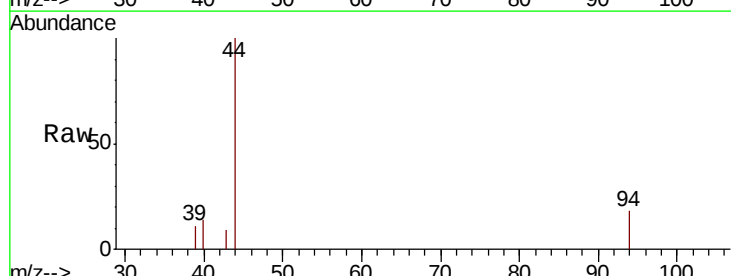
Tgt Ion: 94 Resp: 1686

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

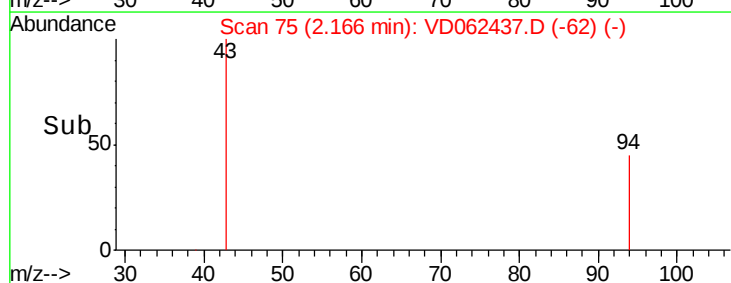
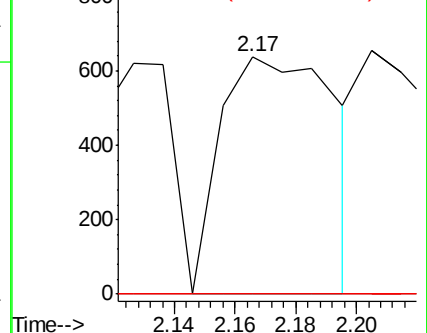
93 0.0 18.5 27.7#

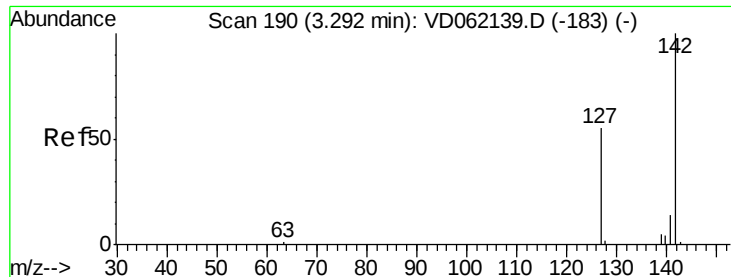


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

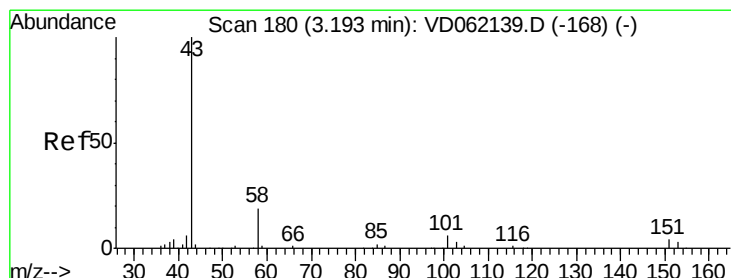
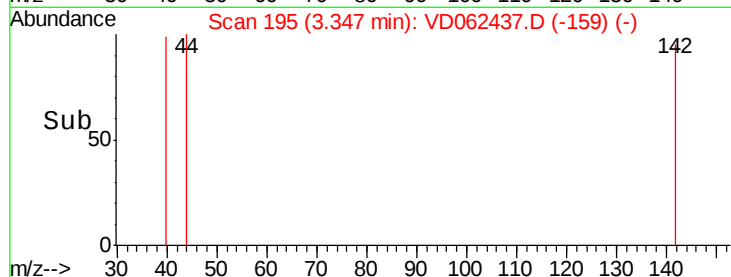
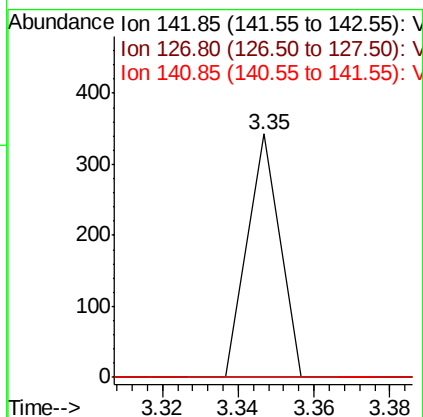
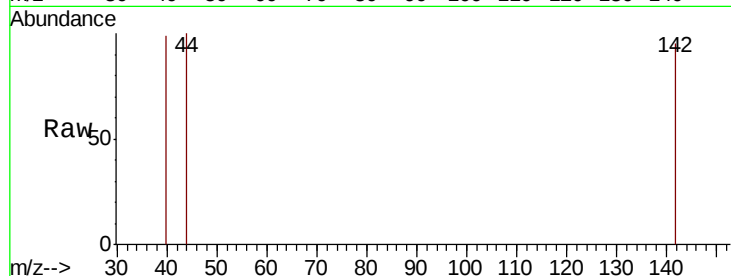




#10
Methvl Iodide
Concen: 1.332 ug/l
RT: 3.35 min Scan# 195
Delta R.T. 0.06 min
Lab File: VD062437.D
Acq: 17 May 2019 14:12

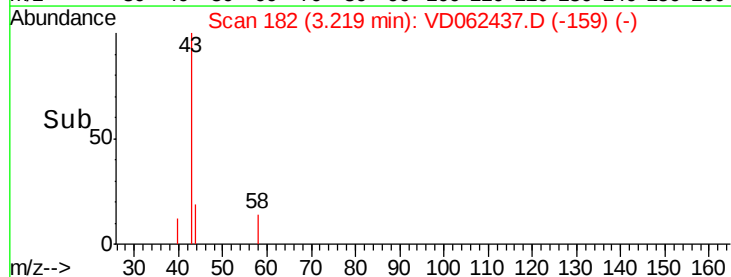
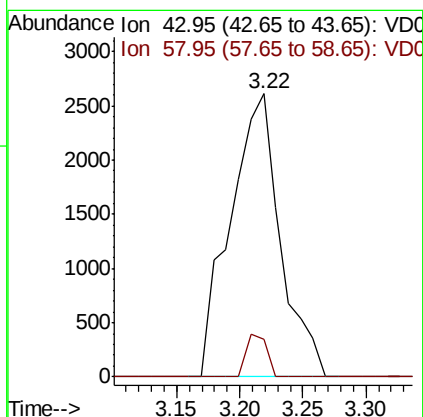
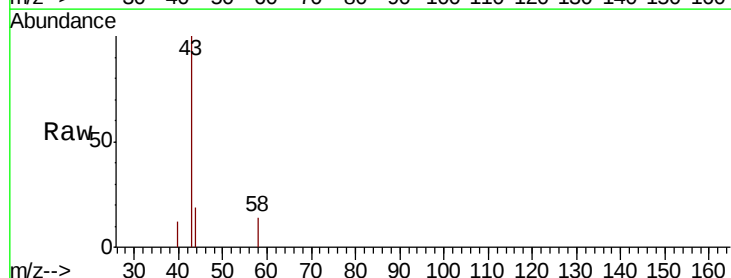
Instrument :
MSVOA_D
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OR-02-051619-A

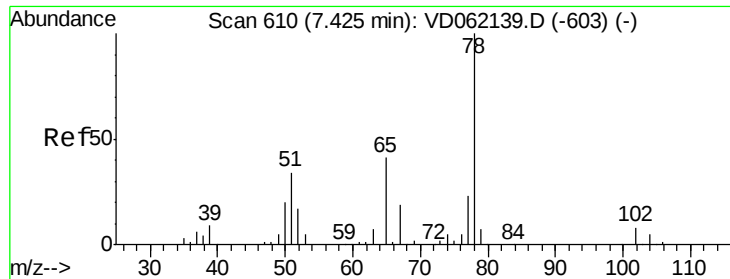
Tot Ion:142 Resp: 202
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 367.783 ug/l
RT: 3.22 min Scan# 182
Delta R.T. 0.03 min
Lab File: VD062437.D
Acq: 17 May 2019 14:12

Tgt Ion: 43 Resp: 7202
Ion Ratio Lower Upper
43 100
58 13.5 19.9 29.9#





#33

1,2-Dichloroethane-d4

Concen: 57.209 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.03 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

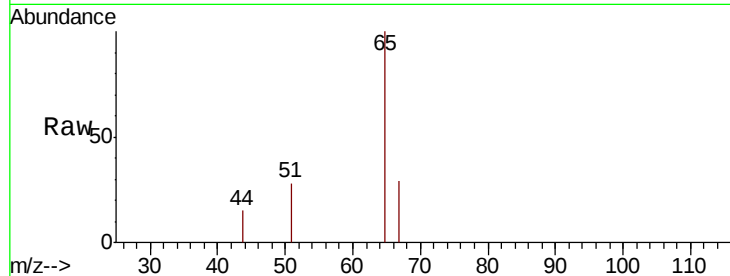
OR-02-051619-A

Tot Ion: 65 Resp: 5342

Ion Ratio Lower Upper

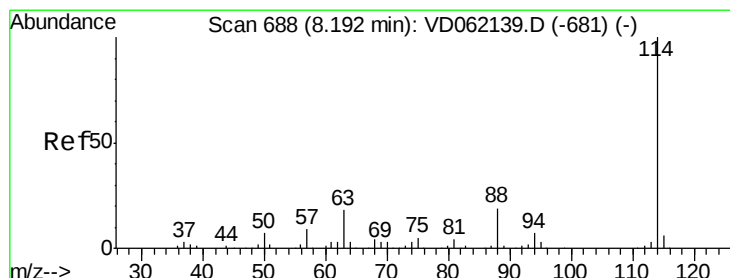
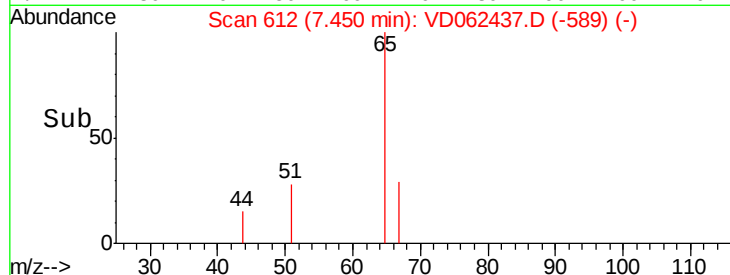
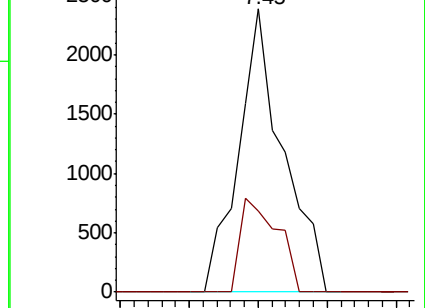
65 100

67 28.8 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: 8.22 min Scan# 690

Delta R.T. 0.03 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

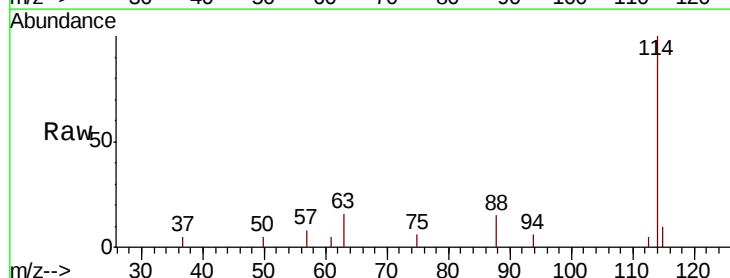
Tgt Ion: 114 Resp: 17040

Ion Ratio Lower Upper

114 100

63 15.9 0.0 32.4

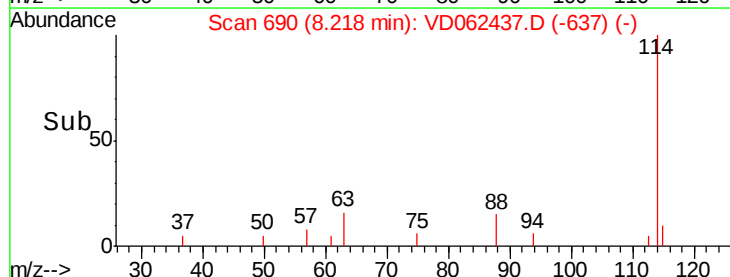
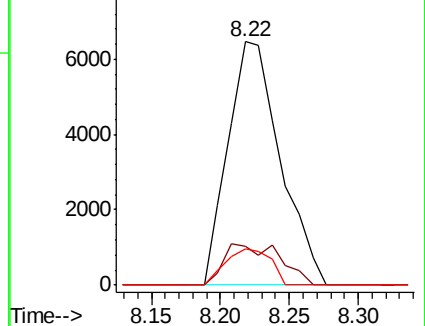
88 15.1 0.0 33.6



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: 30.690 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.04 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

OR-02-051619-A

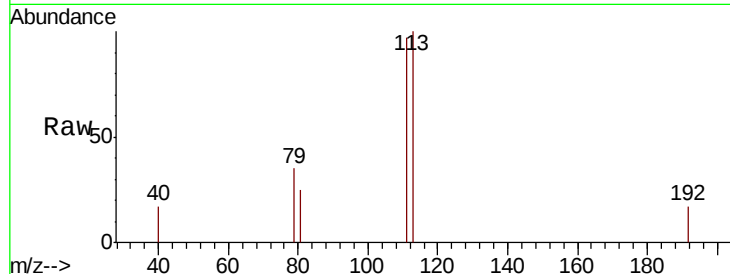
Tot Ion:113 Resp: 4339

Ion Ratio Lower Upper

113 100

111 97.0 78.5 117.7

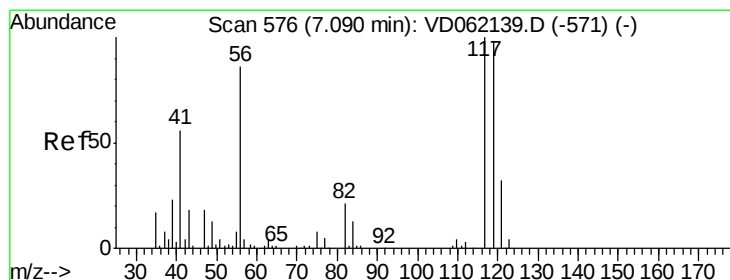
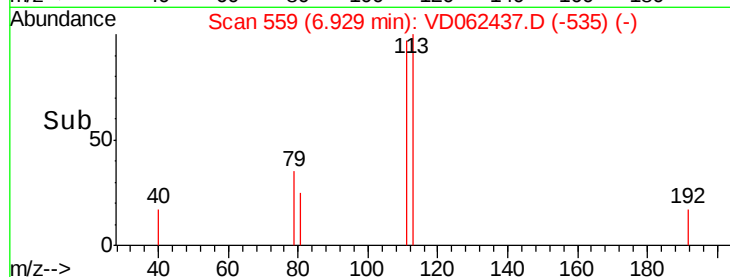
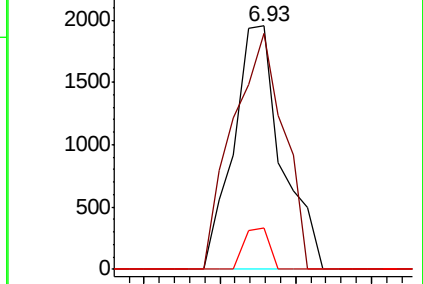
192 16.8 13.0 19.4



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



#38

Carbon Tetrachloride

Concen: 2.410 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.05 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

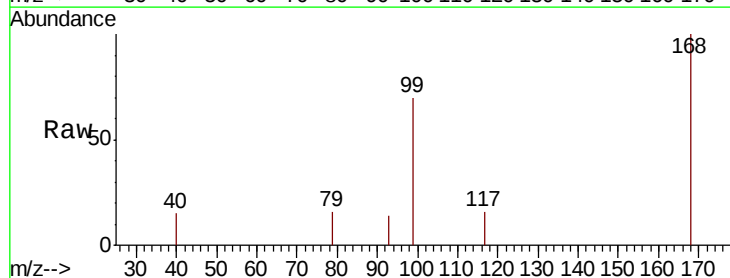
Tgt Ion:117 Resp: 466

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

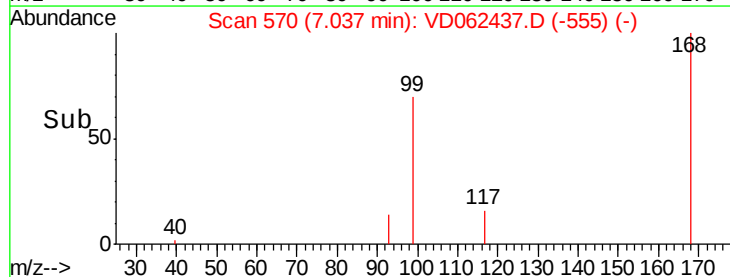
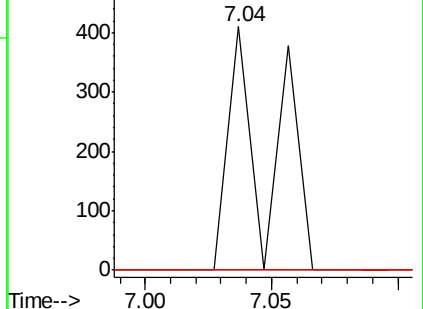
121 0.0 25.9 38.9#

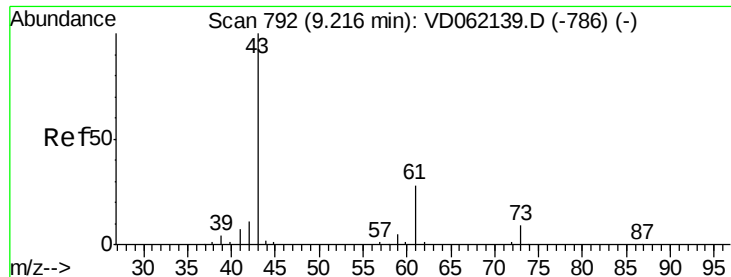


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#43

Isopropyl Acetate

Concen: 2.309 ug/l

RT: 9.14 min Scan# 784

Delta R.T. -0.07 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

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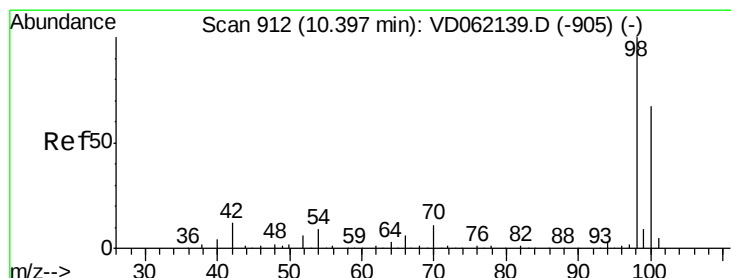
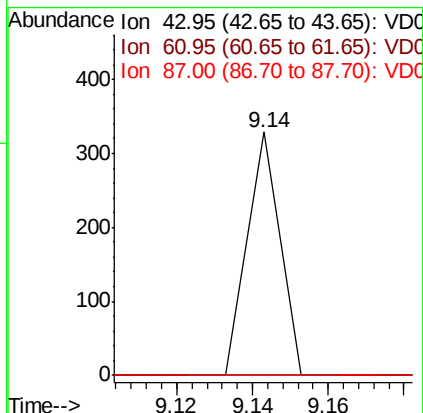
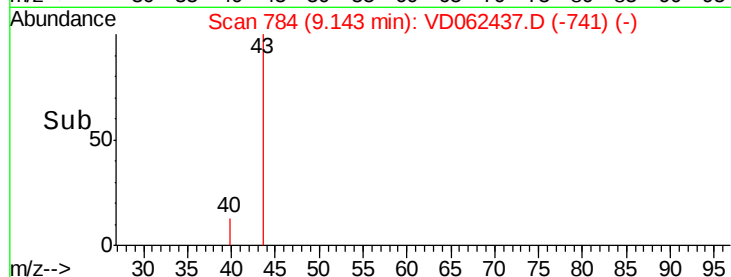
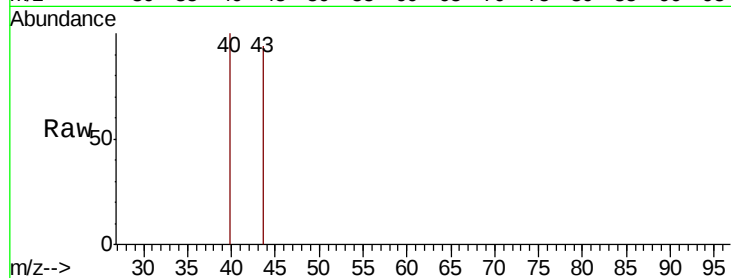
Tot Ion: 43 Resp: 194

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

87 0.0 0.0 0.0



#50

Toluene-d8

Concen: 28.018 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.03 min

Lab File: VD062437.D

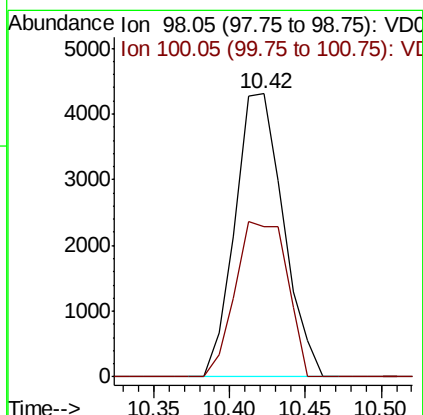
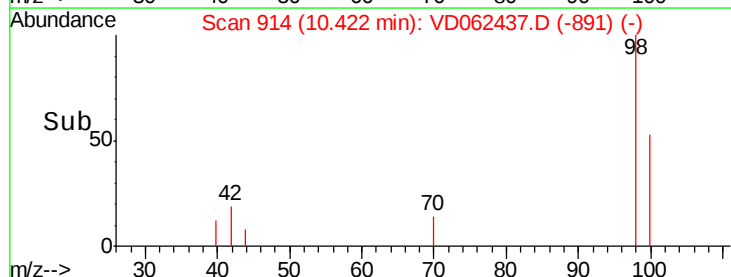
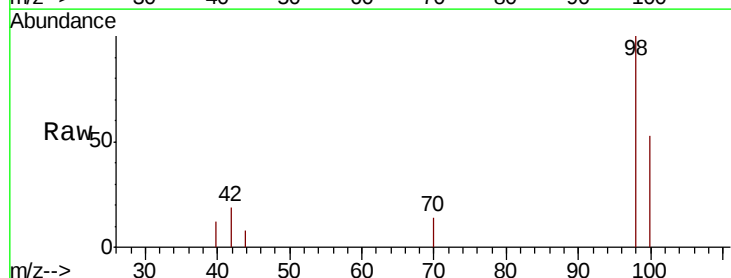
Acq: 17 May 2019 14:12

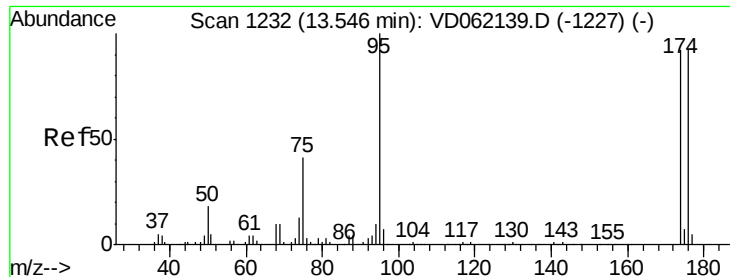
Tgt Ion: 98 Resp: 9551

Ion Ratio Lower Upper

98 100

100 53.1 53.8 80.8#





#62

4-Bromofluorobenzene

Concen: 31.815 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

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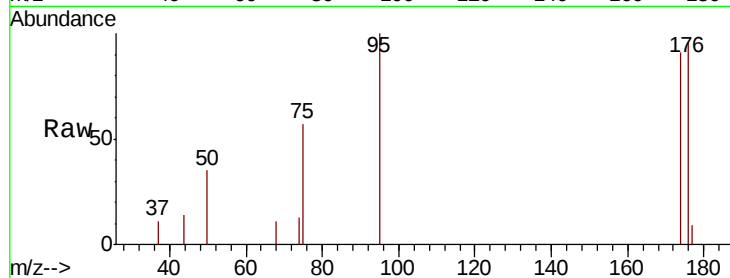
Tot Ion: 95 Resp: 4355

Ion Ratio Lower Upper

95 100

174 90.5 0.0 181.8

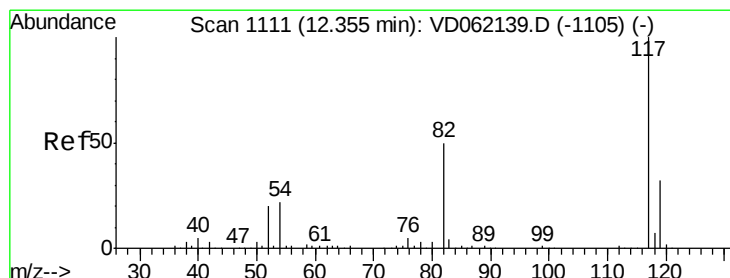
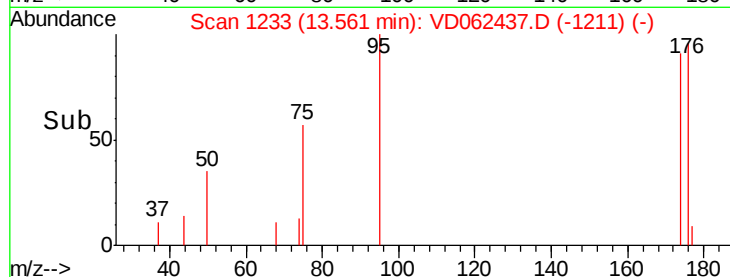
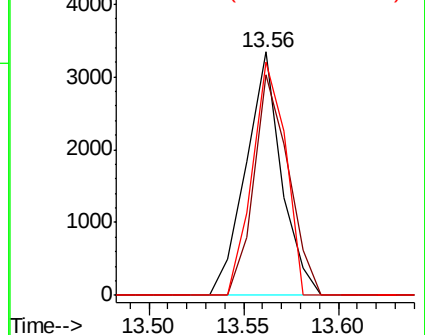
176 96.0 0.0 174.4



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. 0.02 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

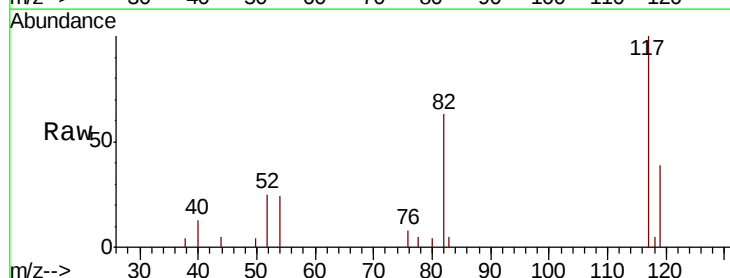
Tgt Ion: 117 Resp: 13891

Ion Ratio Lower Upper

117 100

82 63.0 36.2 54.2#

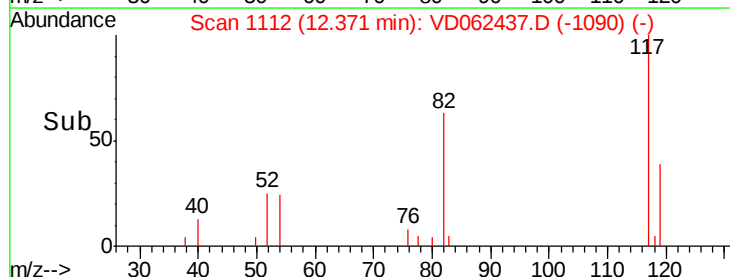
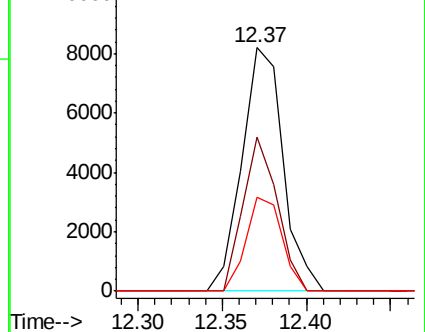
119 38.7 26.2 39.4

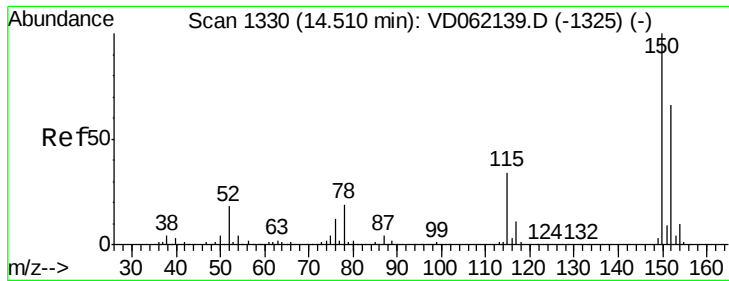


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.02 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

Instrument :

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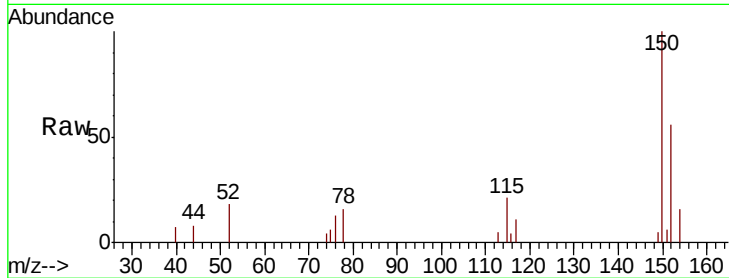
Tot Ion:152 Resp: 6635

Ion Ratio Lower Upper

152 100

115 43.9 30.9 92.7

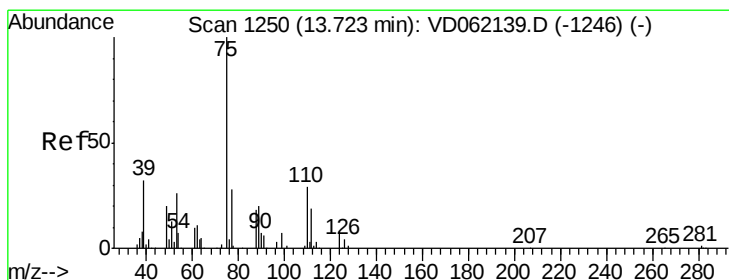
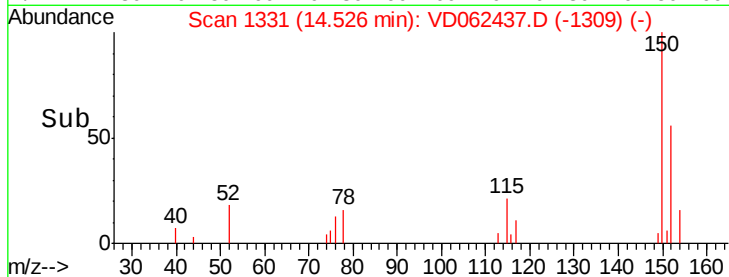
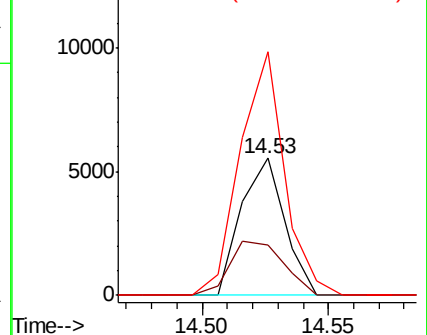
150 177.8 0.0 314.8



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: 23.918 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD062437.D

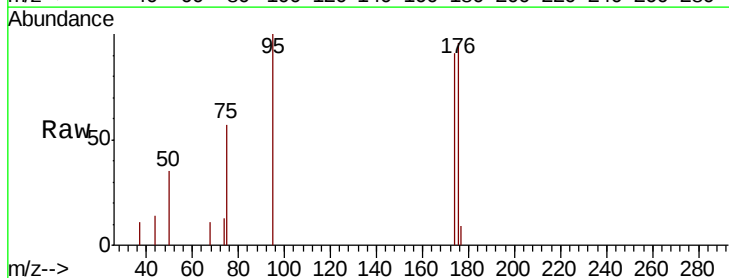
Acq: 17 May 2019 14:12

Tgt Ion: 75 Resp: 1886

Ion Ratio Lower Upper

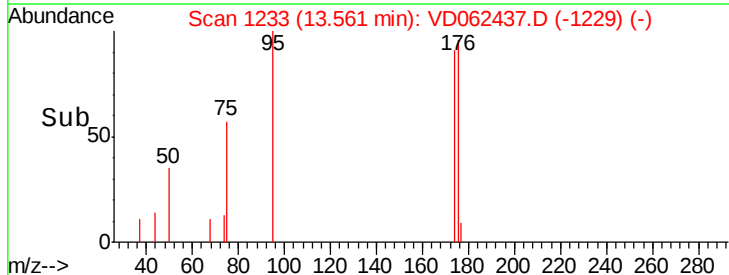
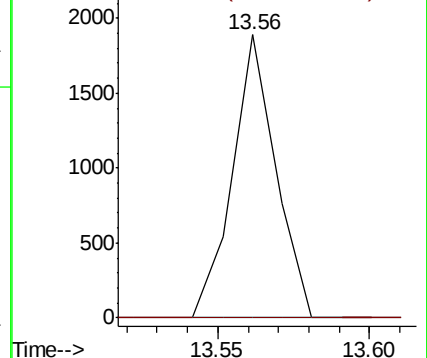
75 100

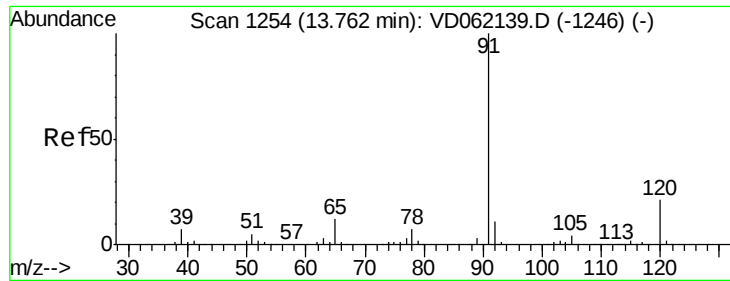
77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#78

n-propylbenzene

Concen: 1.195 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.02 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

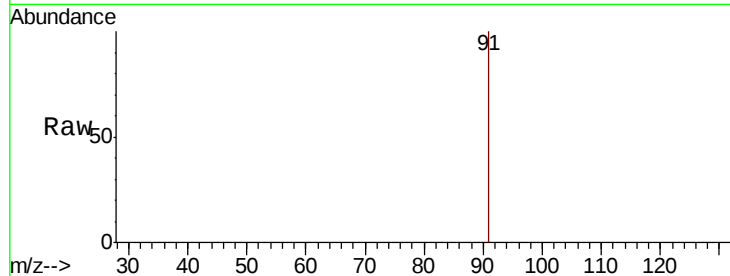
OR-02-051619-A

Tot Ion: 91 Resp: 567

Ion Ratio Lower Upper

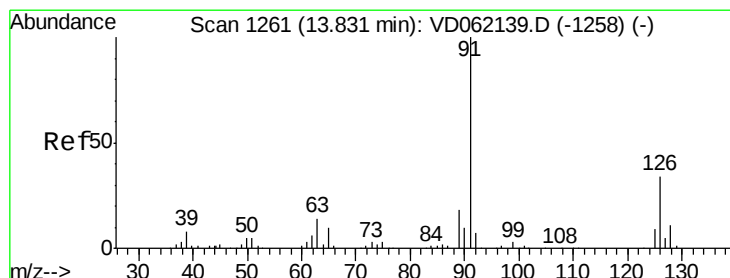
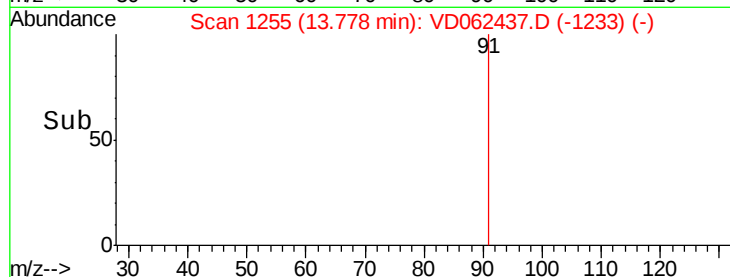
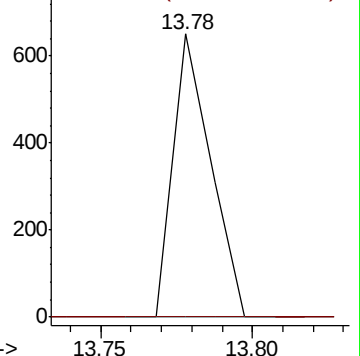
91 100

120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 2.087 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.05 min

Lab File: VD062437.D

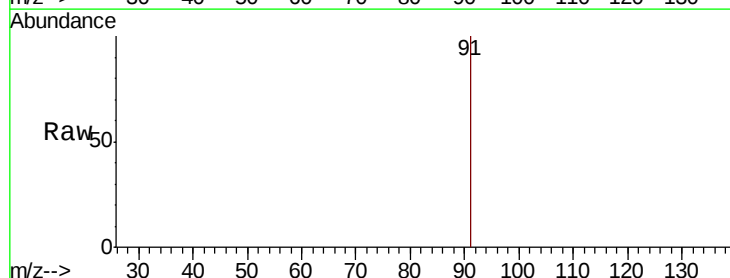
Acq: 17 May 2019 14:12

Tgt Ion: 91 Resp: 567

Ion Ratio Lower Upper

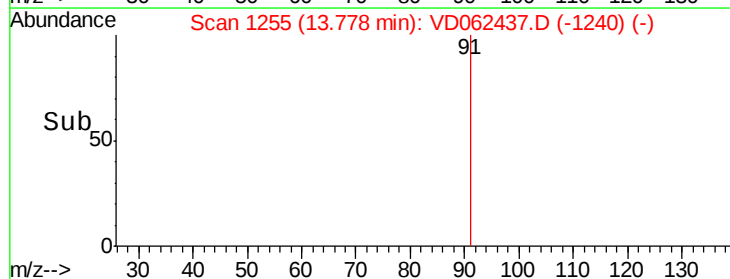
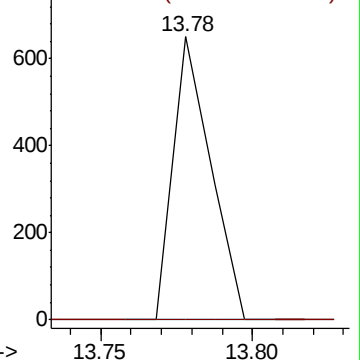
91 100

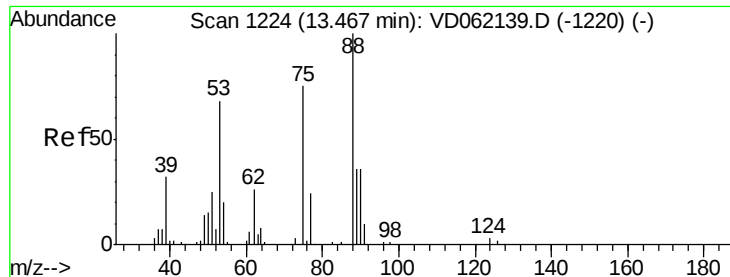
126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 84.725 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

OR-02-051619-A

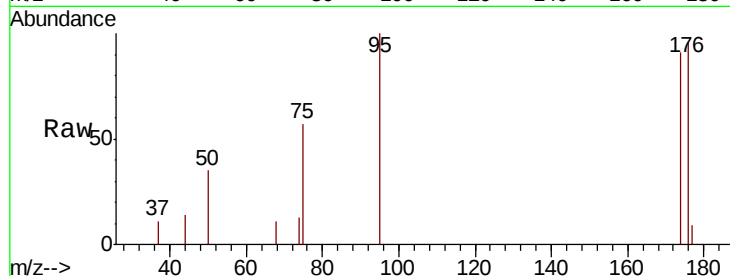
Tot Ion: 75 Resp: 1886

Ion Ratio Lower Upper

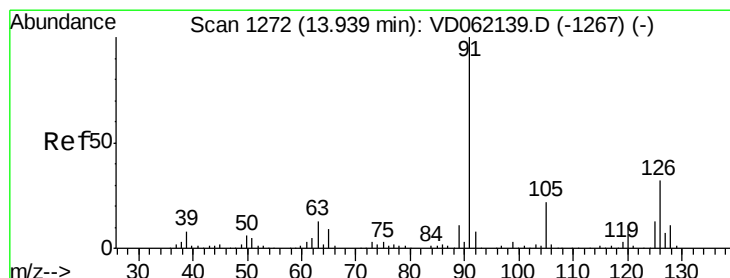
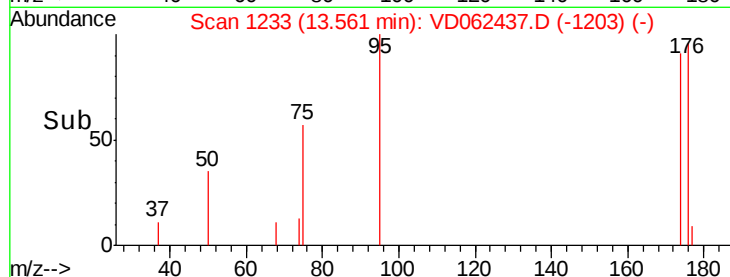
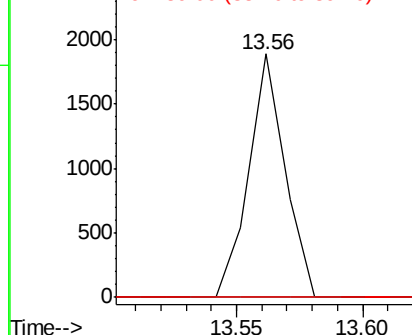
75 100

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



#82

4-Chlorotoluene

Concen: 1.839 ug/l

RT: 13.96 min Scan# 1273

Delta R.T. 0.02 min

Lab File: VD062437.D

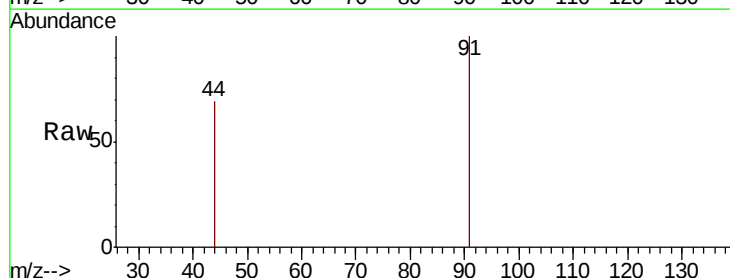
Acq: 17 May 2019 14:12

Tgt Ion: 91 Resp: 588

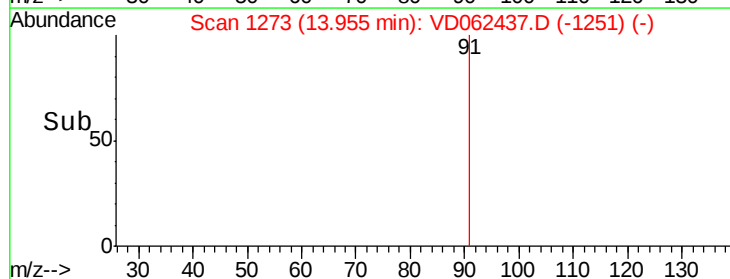
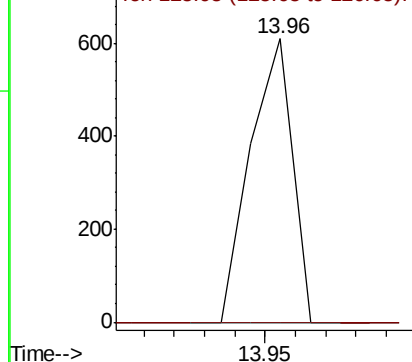
Ion Ratio Lower Upper

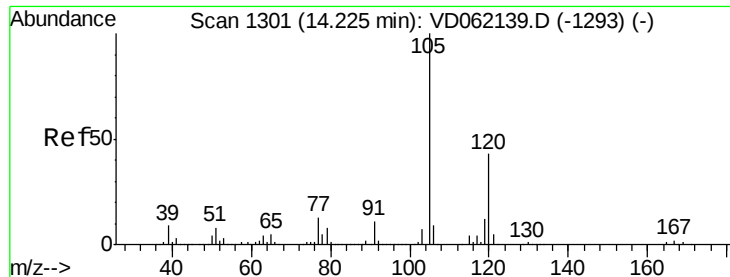
91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

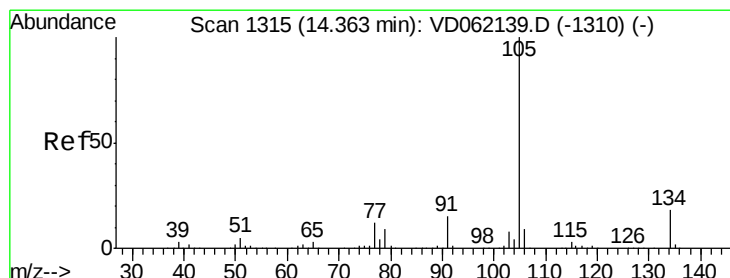
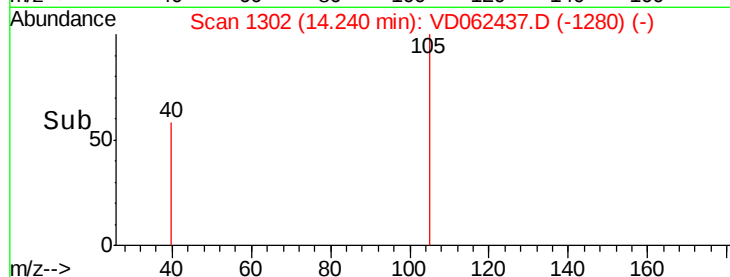
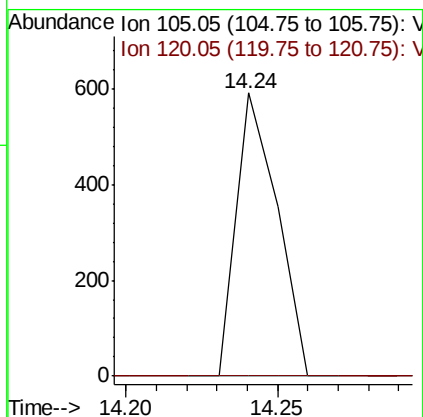
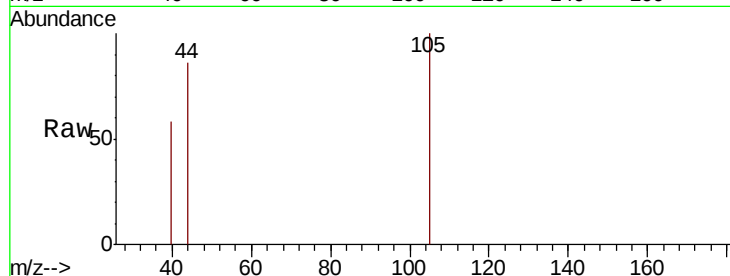




#84
 1,2,4-Trimethylbenzene
 Concen: 1.663 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.02 min
 Lab File: VD062437.D
 Acq: 17 May 2019 14:12

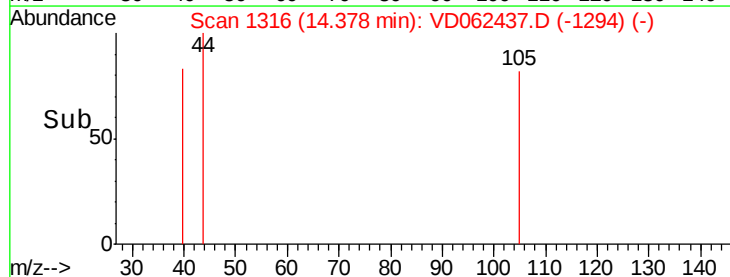
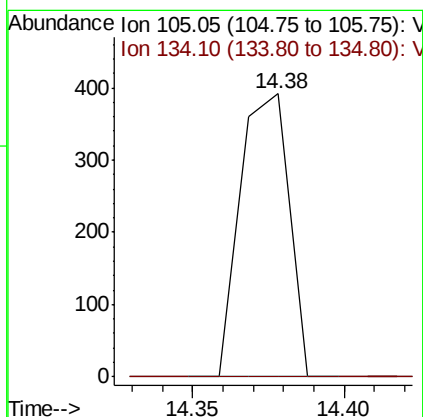
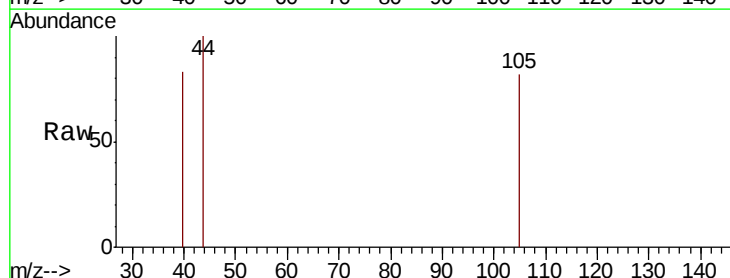
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-051619-A

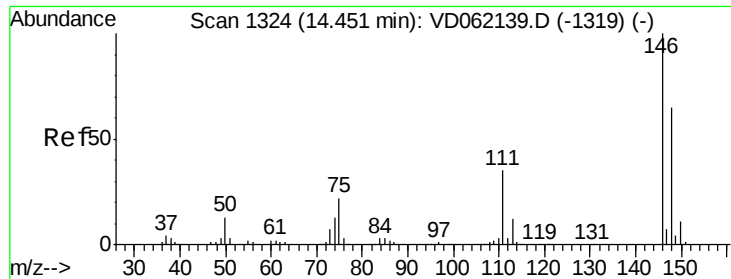
Tot Ion:105 Resp: 559
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.2#



#85
 sec-Butylbenzene
 Concen: 1.078 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.02 min
 Lab File: VD062437.D
 Acq: 17 May 2019 14:12

Tgt Ion:105 Resp: 445
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#

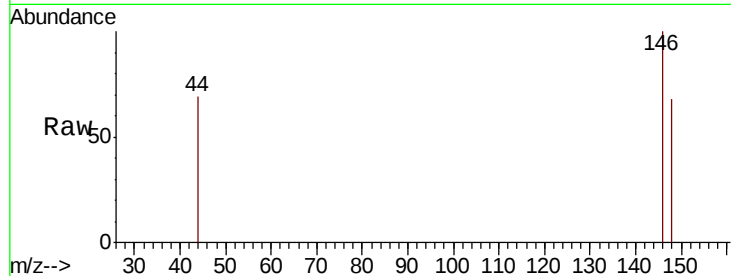




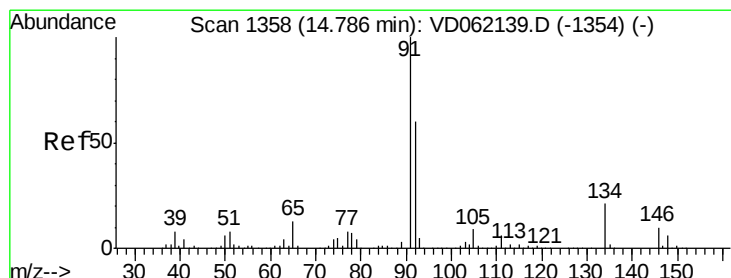
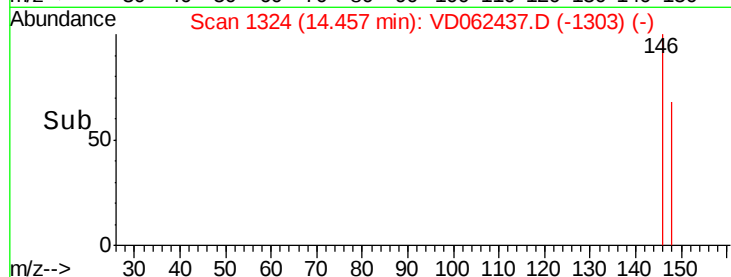
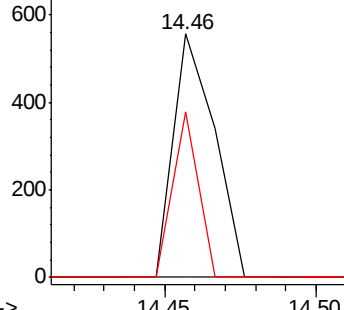
#87
 1,3-Dichlorobenzene
 Concen: 2.611 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD062437.D
 Acq: 17 May 2019 14:12

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-051619-A

Tot Ion:146 Resp: 531
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 60.0#
 148 68.0 31.8 95.4

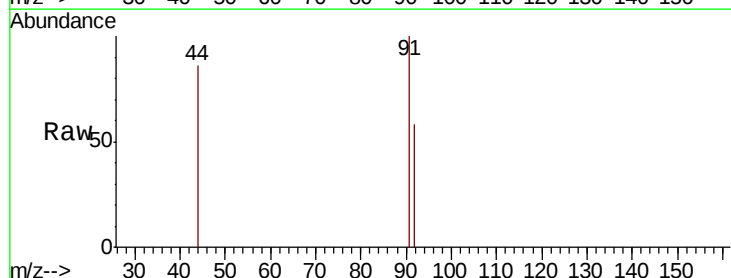


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

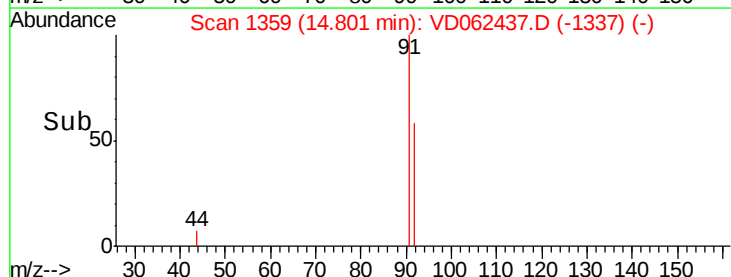
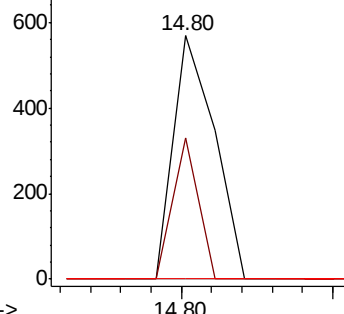


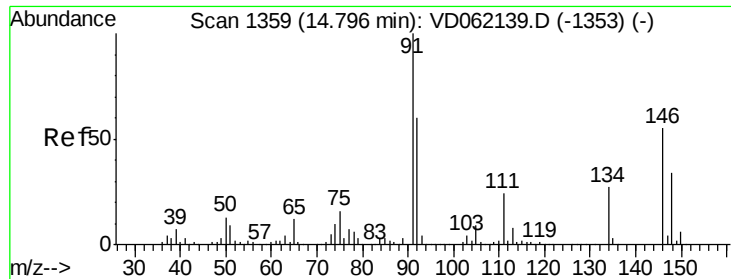
#89
 n-Butylbenzene
 Concen: 1.635 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.02 min
 Lab File: VD062437.D
 Acq: 17 May 2019 14:12

Tgt Ion: 91 Resp: 541
 Ion Ratio Lower Upper
 91 100
 92 58.0 30.3 91.0
 134 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.10 (133.80 to 134.80): V





#91

1,2-Dichlorobenzene

Concen: 1.475 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. 0.02 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

OR-02-051619-A

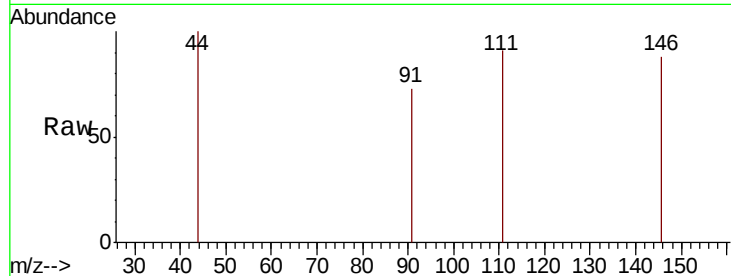
Tot Ion:146 Resp: 247

Ion Ratio Lower Upper

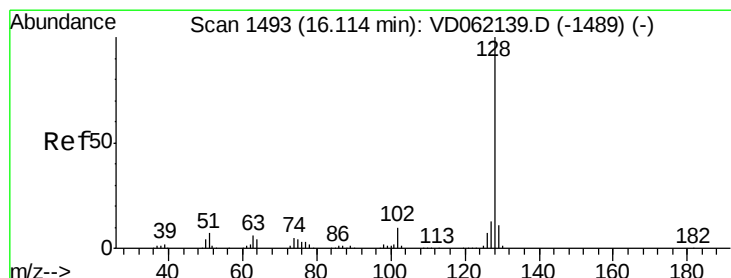
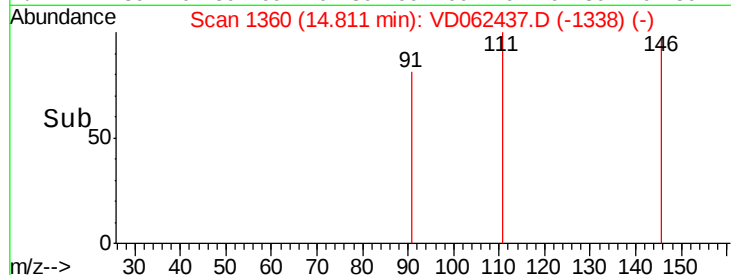
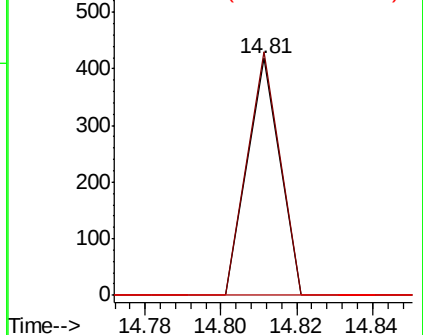
146 100

111 102.9 20.0 59.9#

148 0.0 32.3 96.8#



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 5.387 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.02 min

Lab File: VD062437.D

Acq: 17 May 2019 14:12

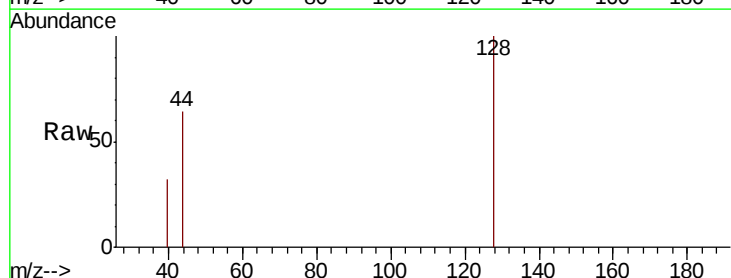
Tgt Ion:128 Resp: 917

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 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

