

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD051419\
 Data File : VD062348.D
 Acq On : 14 May 2019 16:02
 Operator : FY/SY
 Sample : K2642-03
 Misc : 6.53g/5mL/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-03-050919

Quant Time: May 14 16:29:22 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	7.07	168	693482	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.24	114	931849	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.38	117	730776	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	272446	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	304892	47.31	ug/l	0.06
Spiked Amount			Recovery	=	94.62%	
35) Dibromofluoromethane	6.95	113	367390	47.52	ug/l	0.06
Spiked Amount			Recovery	=	95.04%	
50) Toluene-d8	10.43	98	693220	37.19	ug/l	0.03
Spiked Amount			Recovery	=	74.38%	
62) 4-Bromofluorobenzene	13.56	95	250176	33.42	ug/l	0.02
Spiked Amount			Recovery	=	66.84%	

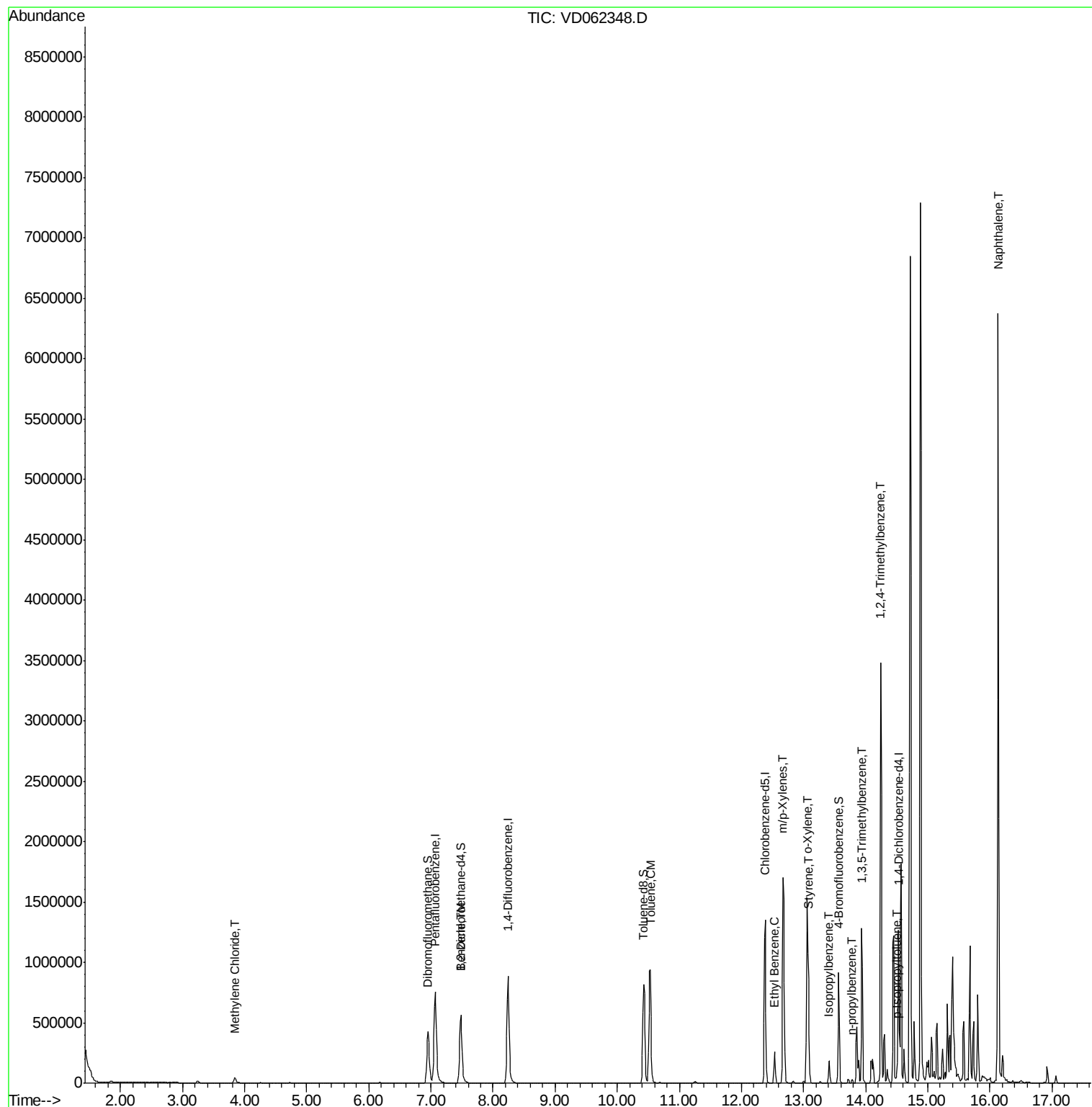
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Methylene Chloride	3.84	84	28755	5.096	ug/l	95
40) Benzene	7.48	78	364967	21.154	ug/l	99
52) Toluene	10.53	92	502738	44.786	ug/l	96
67) Ethyl Benzene	12.53	91	176869	7.762	ug/l	94
68) m/p-Xylenes	12.67	106	481075	58.028	ug/l	79
69) o-Xylene	13.06	106	339107	43.997	ug/l	80
70) Styrene	13.08	104	304811	23.346	ug/l	93
73) Isopropylbenzene	13.42	105	115571	7.077	ug/l	95
78) n-propylbenzene	13.78	91	21451	1.101	ug/l	90
80) 1,3,5-Trimethylbenzene	13.94	105	602676	43.824	ug/l	88
84) 1,2,4-Trimethylbenzene	14.24	105	1594722	115.556	ug/l	88
86) p-Isopropyltoluene	14.50	119	24939	1.647	ug/l	88
95) Naphthalene	16.13	128	3566153	510.238	ug/l	99

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.05 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

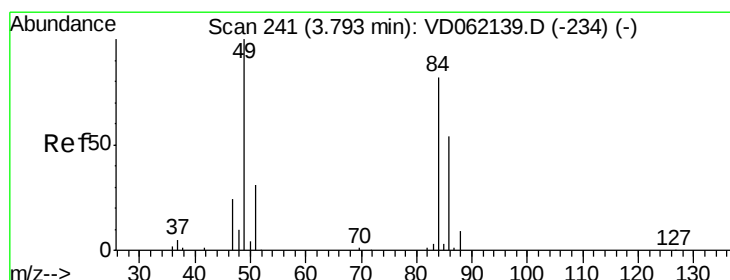
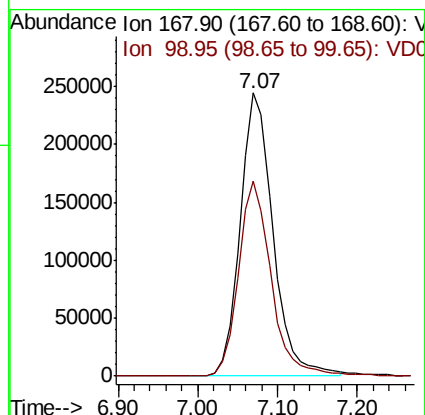
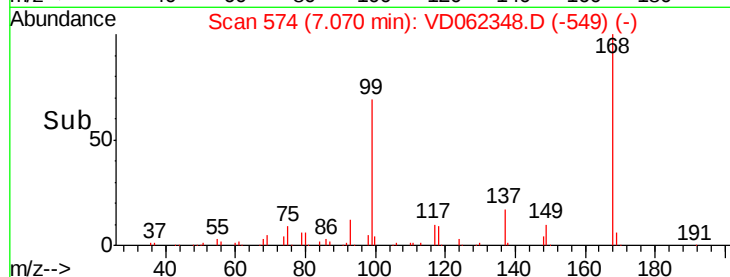
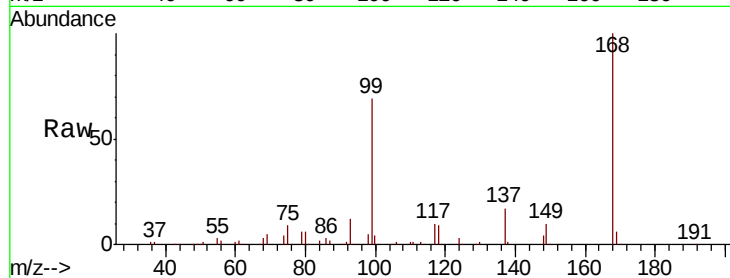
OK-03-050919

Tgt Ion:168 Resp: 693482

Ion Ratio Lower Upper

168 100

99 69.0 46.5 69.7



#20

Methylene Chloride

Concen: 5.096 ug/l

RT: 3.84 min Scan# 246

Delta R.T. 0.05 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

Tgt Ion: 84 Resp: 28755

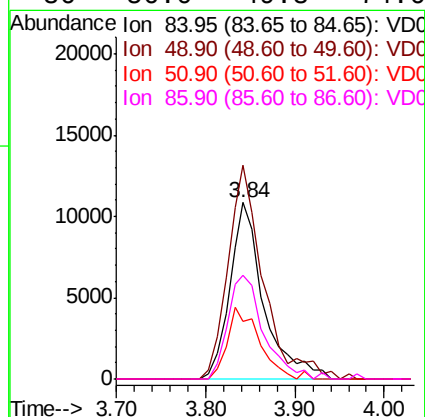
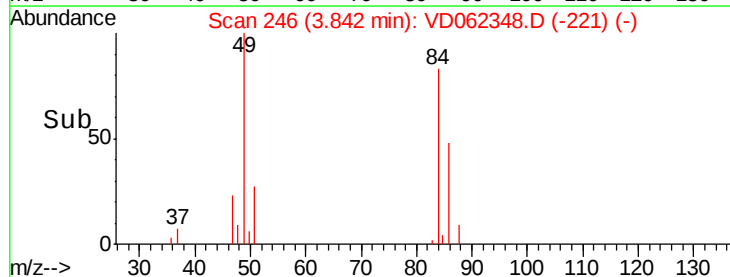
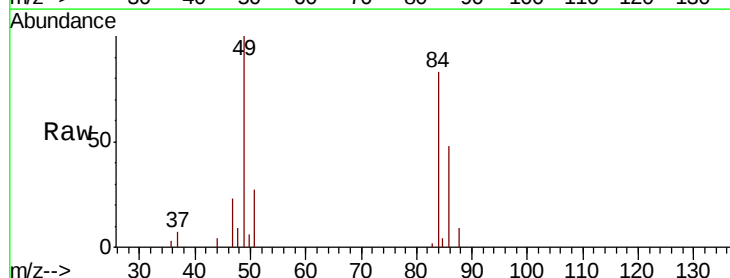
Ion Ratio Lower Upper

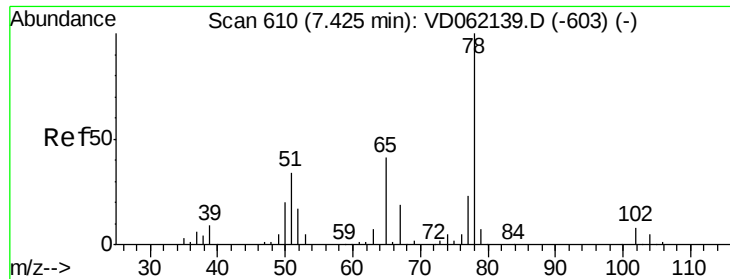
84 100

49 115.7 94.0 141.0

51 31.0 29.0 43.4

86 56.0 49.8 74.6

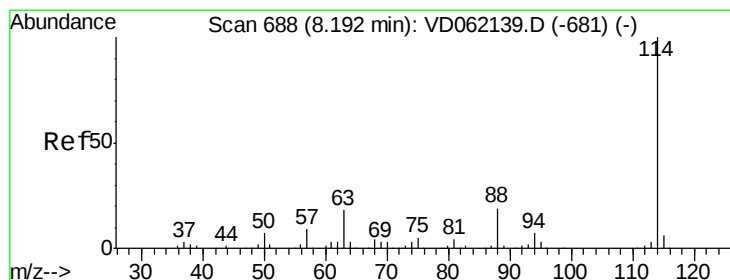
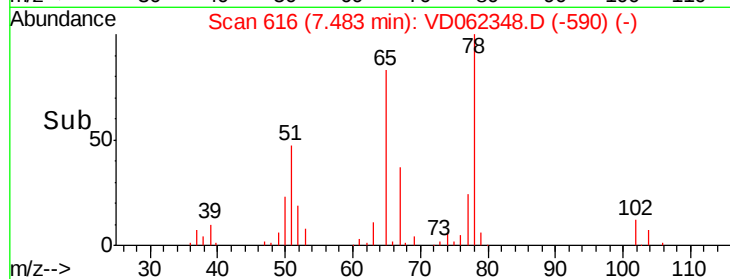
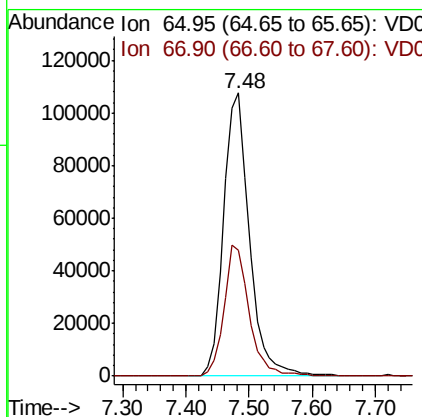
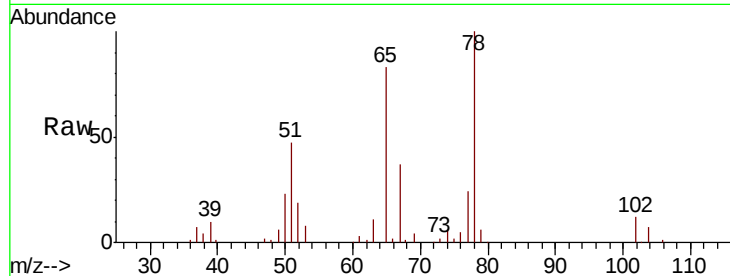




#33
 1,2-Dichloroethane-d4
 Concen: 47.310 ug/l
 RT: 7.48 min Scan# 616
 Delta R.T. 0.06 min
 Lab File: VD062348.D
 Acq: 14 May 2019 16:02

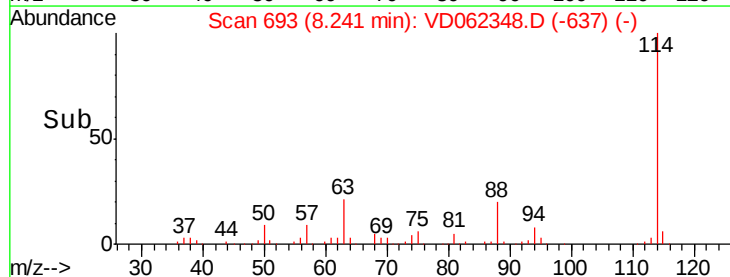
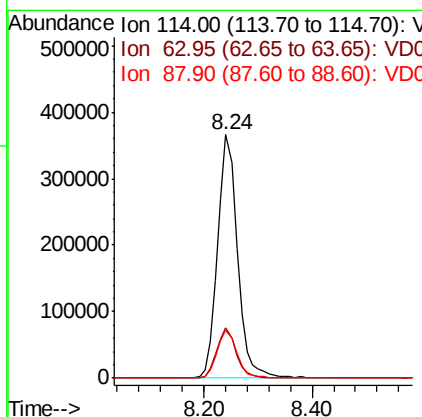
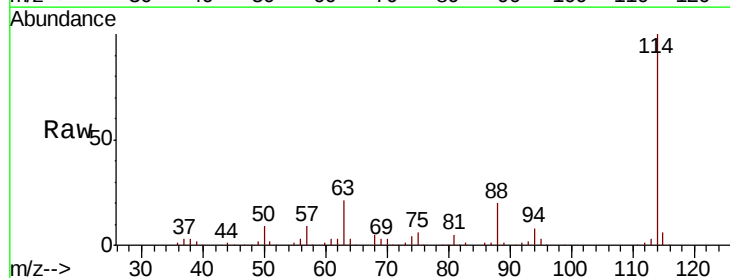
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-03-050919

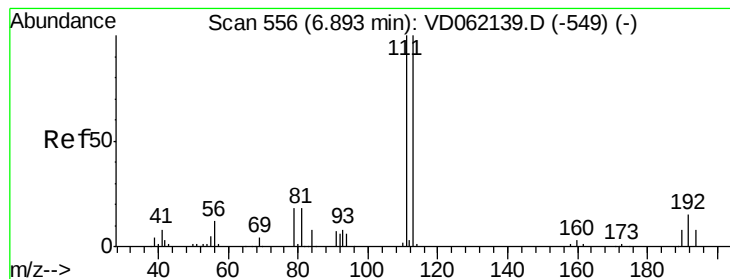
Tgt Ion: 65 Resp: 304892
 Ion Ratio Lower Upper
 65 100
 67 44.6 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 693
 Delta R.T. 0.05 min
 Lab File: VD062348.D
 Acq: 14 May 2019 16:02

Tgt Ion: 114 Resp: 931849
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 32.4
 88 19.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 47.518 ug/l

RT: 6.95 min Scan# 562

Delta R.T. 0.06 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

OK-03-050919

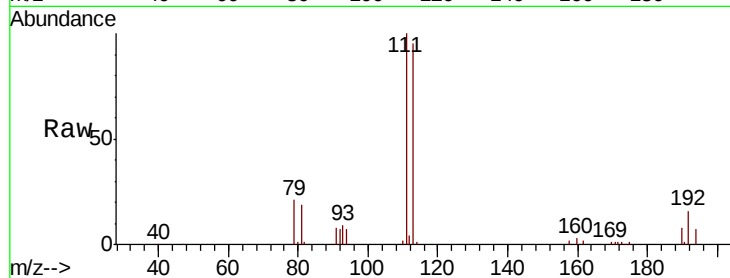
Tgt Ion:113 Resp: 367390

Ion Ratio Lower Upper

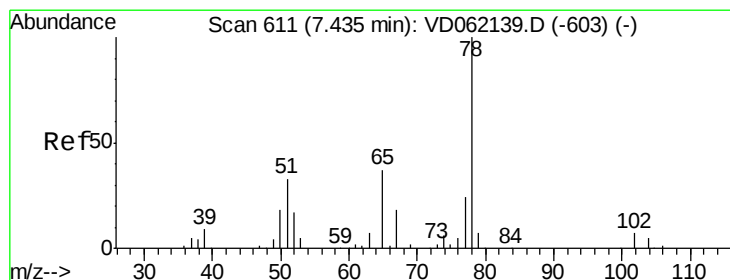
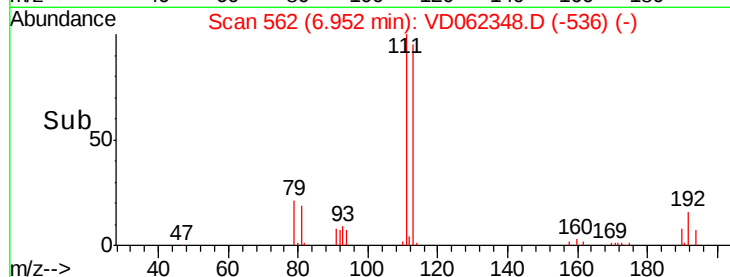
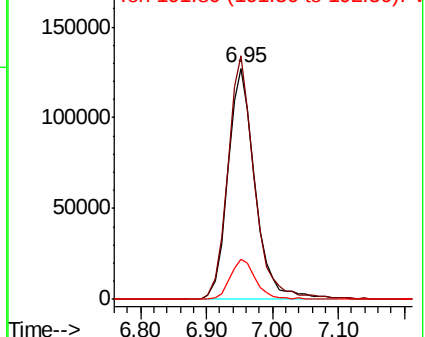
113 100

111 105.3 78.5 117.7

192 17.1 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



#40

Benzene

Concen: 21.154 ug/l

RT: 7.48 min Scan# 616

Delta R.T. 0.05 min

Lab File: VD062348.D

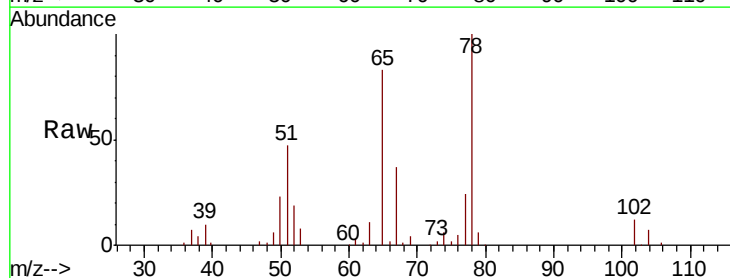
Acq: 14 May 2019 16:02

Tgt Ion: 78 Resp: 364967

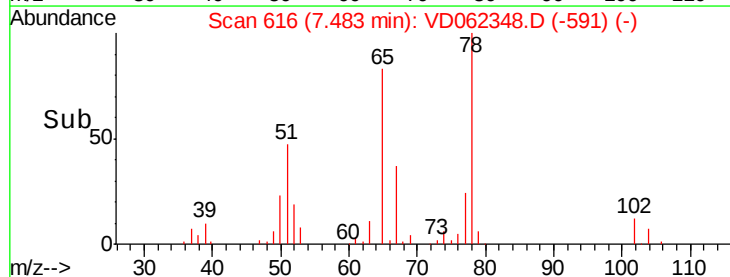
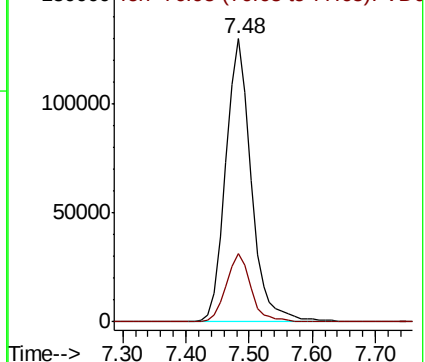
Ion Ratio Lower Upper

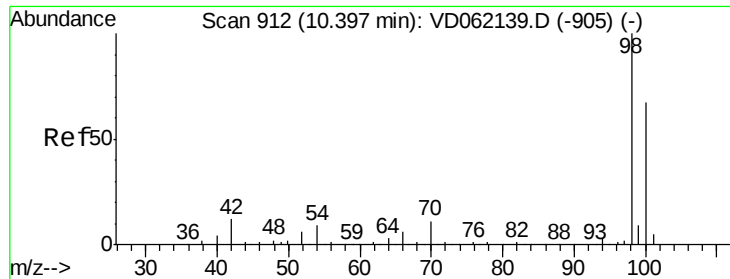
78 100

77 24.1 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): V
Ion 76.95 (76.65 to 77.65): V

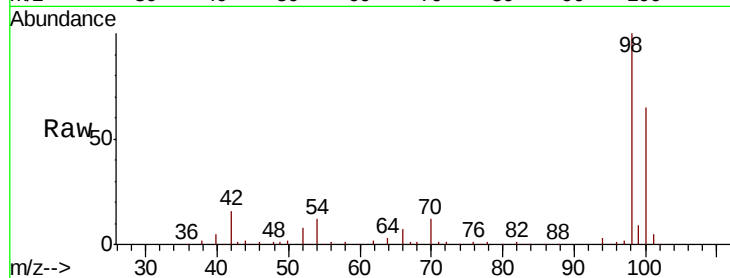




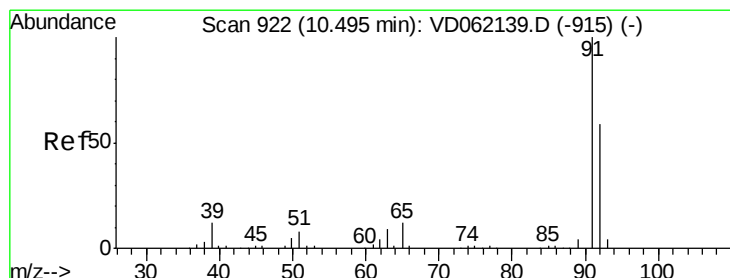
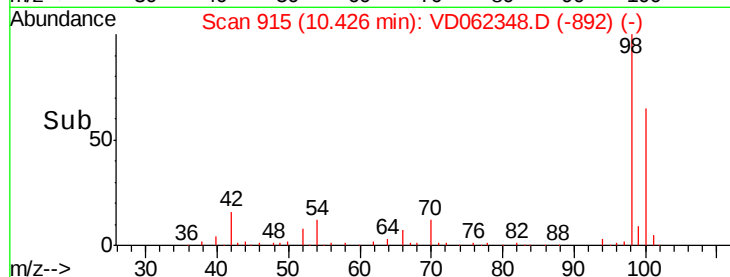
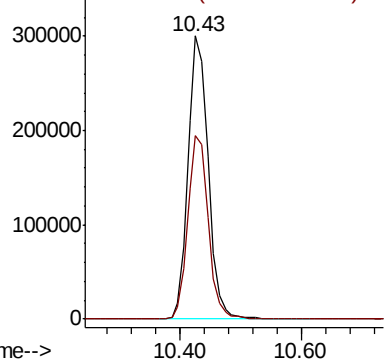
#50
Toluene-d8
Concen: 37.187 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD062348.D
Acq: 14 May 2019 16:02

Instrument :
MSVOA_D
ClientSampleId :
OK-03-050919

Tgt Ion: 98 Resp: 693220
Ion Ratio Lower Upper
98 100
100 64.7 53.8 80.8

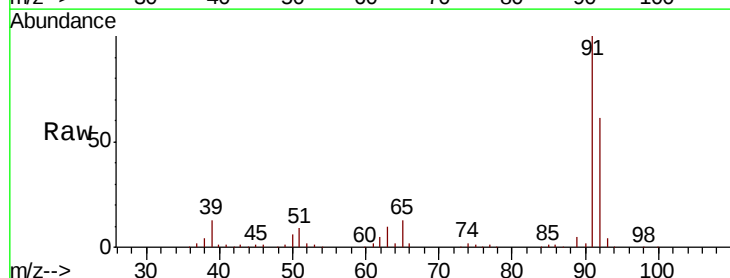


Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)
Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)

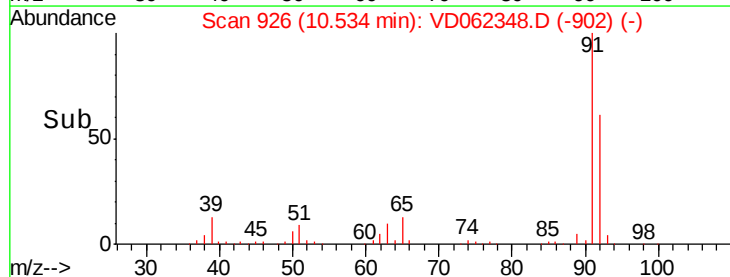
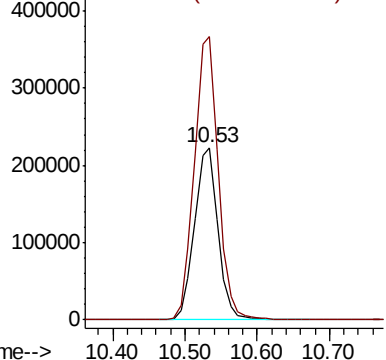


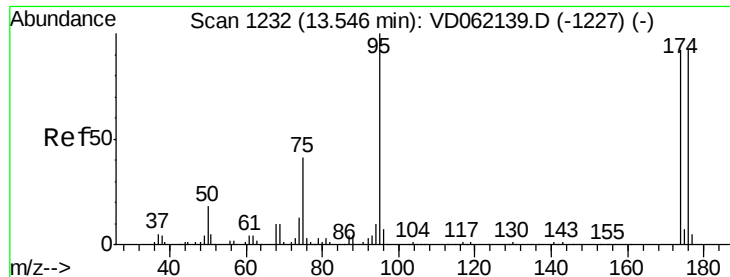
#52
Toluene
Concen: 44.786 ug/l
RT: 10.53 min Scan# 926
Delta R.T. 0.04 min
Lab File: VD062348.D
Acq: 14 May 2019 16:02

Tgt Ion: 92 Resp: 502738
Ion Ratio Lower Upper
92 100
91 164.5 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VD062139.D (-915) (-)
Ion 91.00 (90.70 to 91.70): VD062139.D (-915) (-)





#62

4-Bromofluorobenzene

Concen: 33.420 ug/l

RT: 13.56 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

OK-03-050919

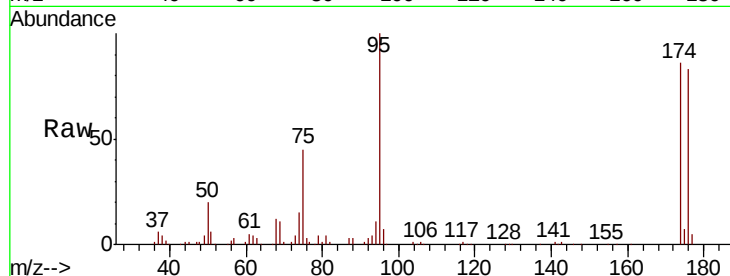
Tgt Ion: 95 Resp: 250176

Ion Ratio Lower Upper

95 100

174 86.5 0.0 181.8

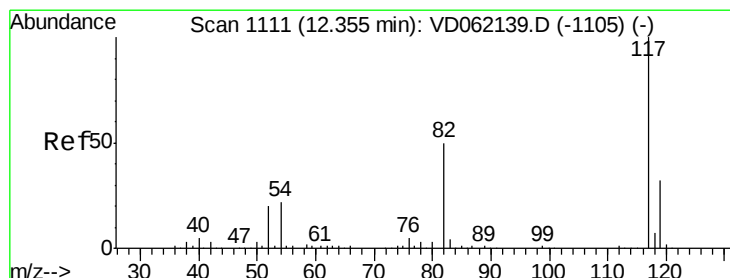
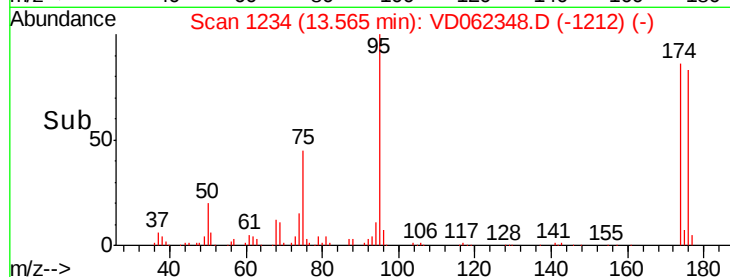
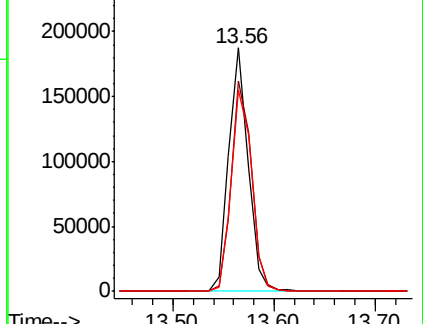
176 82.9 0.0 174.4



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: 12.38 min Scan# 1114

Delta R.T. 0.03 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

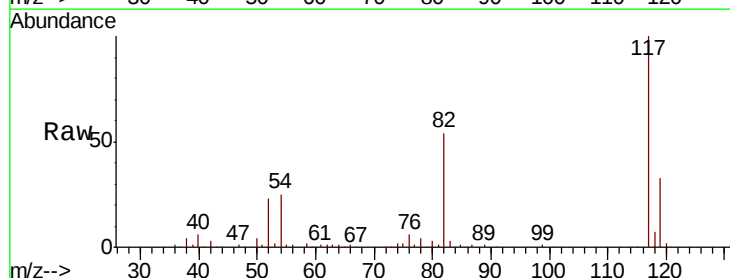
Tgt Ion: 117 Resp: 730776

Ion Ratio Lower Upper

117 100

82 54.4 36.2 54.2#

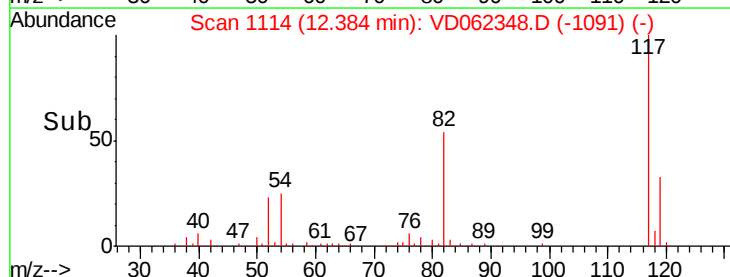
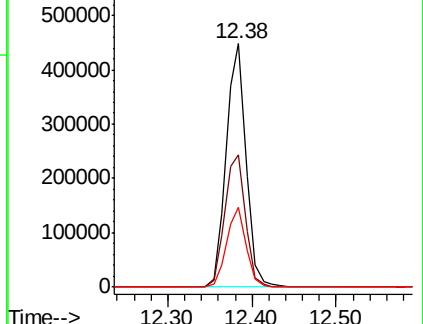
119 32.8 26.2 39.4

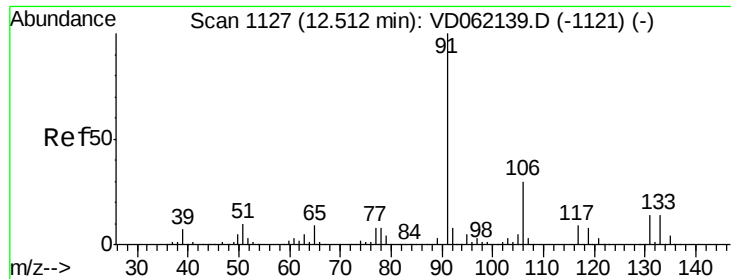


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

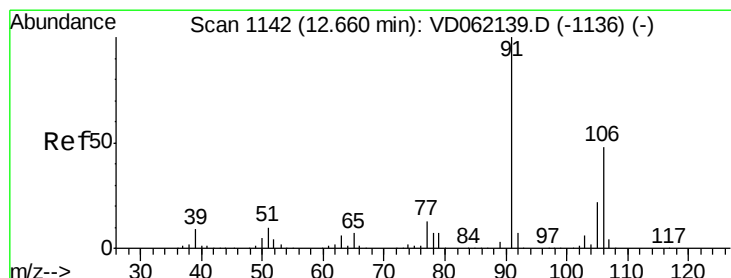
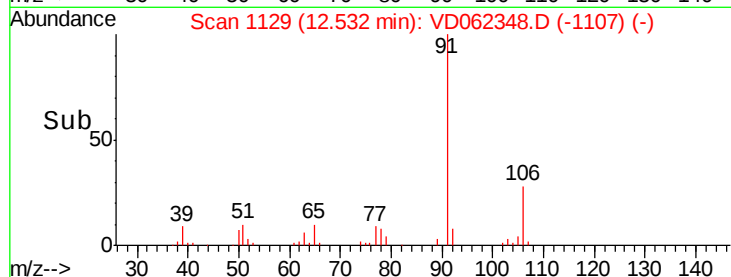
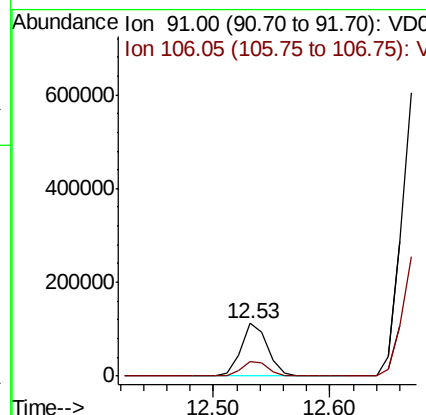
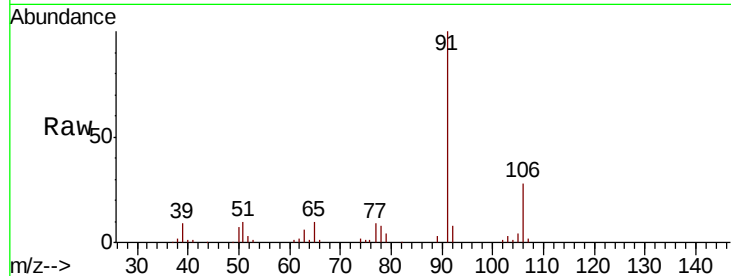




#67
Ethyl Benzene
Concen: 7.762 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD062348.D
Acq: 14 May 2019 16:02

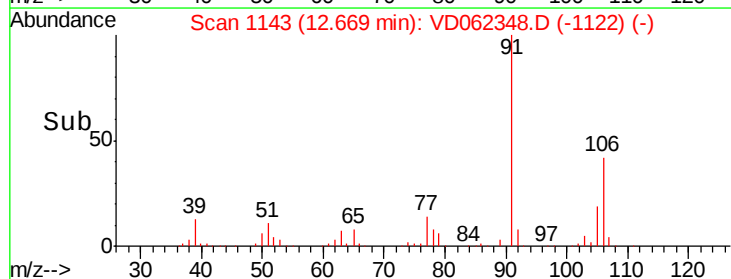
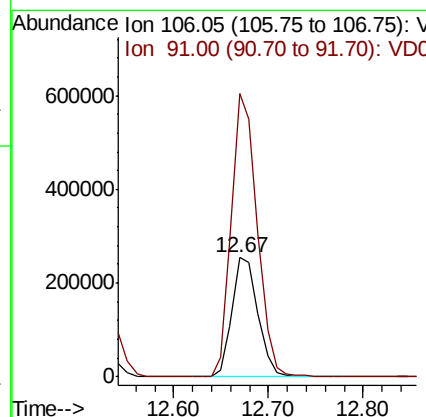
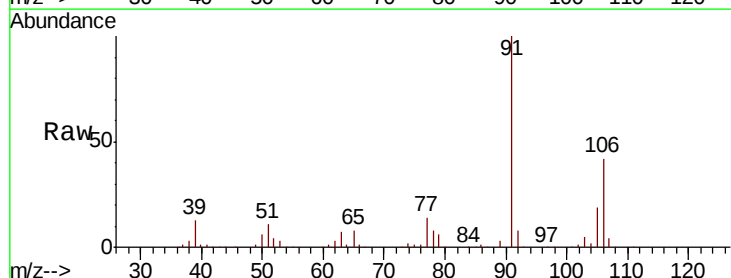
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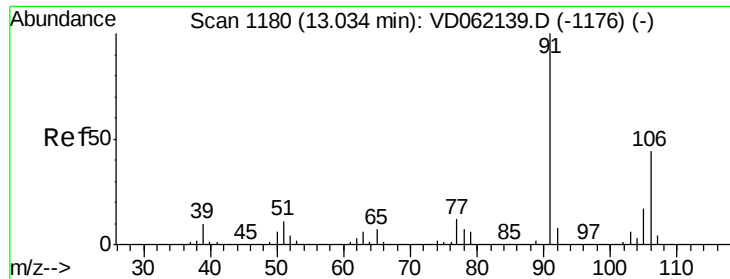
Tgt Ion: 91 Resp: 176869
Ion Ratio Lower Upper
91 100
106 27.6 24.7 37.1



#68
m/p-Xylenes
Concen: 58.028 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062348.D
Acq: 14 May 2019 16:02

Tgt Ion: 106 Resp: 481075
Ion Ratio Lower Upper
106 100
91 237.7 164.0 246.0

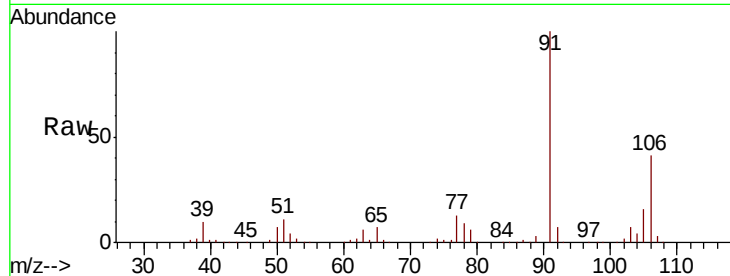




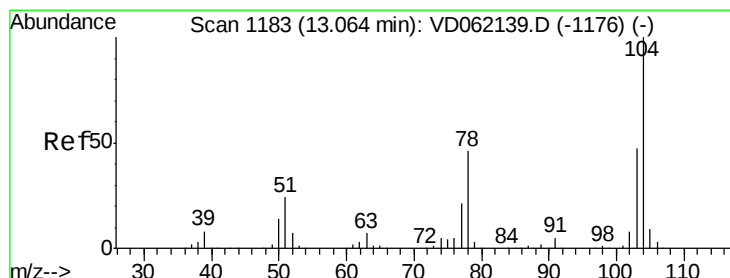
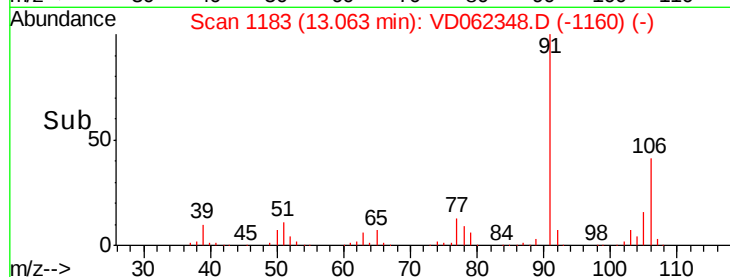
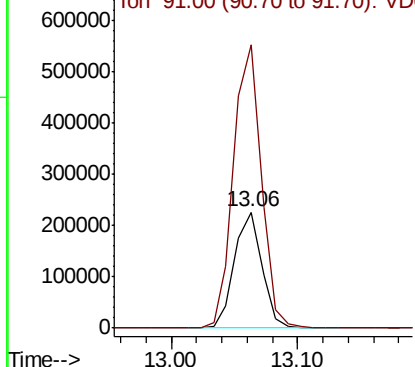
#69
o-Xylene
Concen: 43.997 ug/l
RT: 13.06 min Scan# 1183
Delta R.T. 0.03 min
Lab File: VD062348.D
Acq: 14 May 2019 16:02

Instrument :
MSVOA_D
ClientSampleId :
OK-03-050919

Tgt Ion:106 Resp: 339107
Ion Ratio Lower Upper
106 100
91 244.4 106.7 319.9

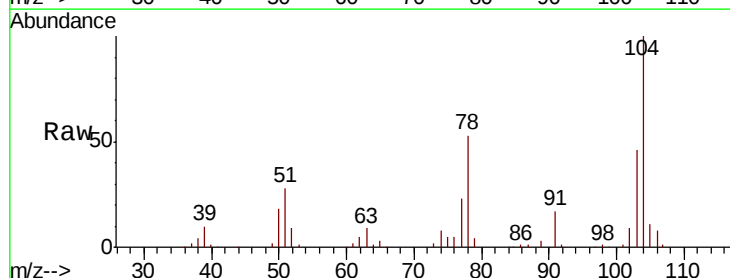


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

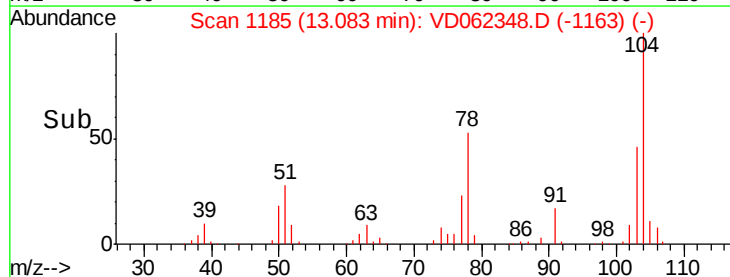
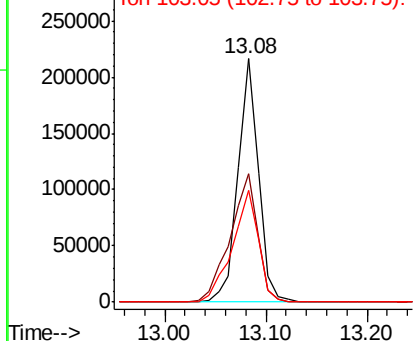


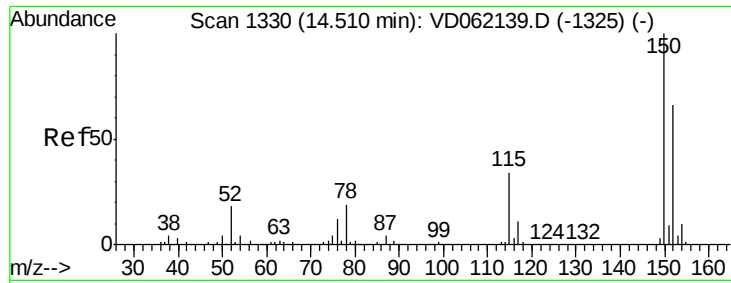
#70
Styrene
Concen: 23.346 ug/l
RT: 13.08 min Scan# 1185
Delta R.T. 0.02 min
Lab File: VD062348.D
Acq: 14 May 2019 16:02

Tgt Ion:104 Resp: 304811
Ion Ratio Lower Upper
104 100
78 52.8 35.4 53.2
103 46.1 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

OK-03-050919

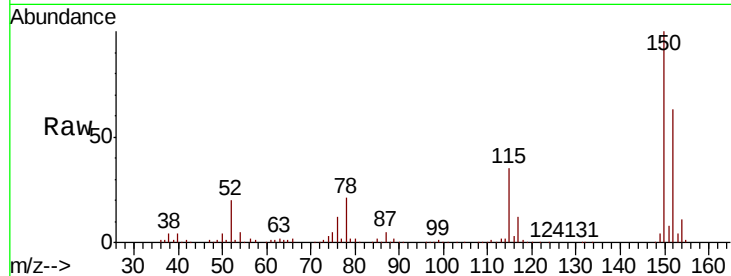
Tgt Ion:152 Resp: 272446

Ion Ratio Lower Upper

152 100

115 56.4 30.9 92.7

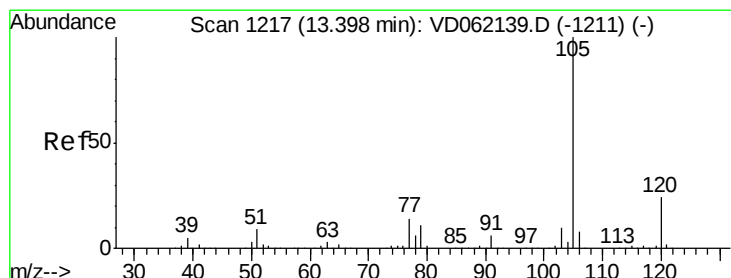
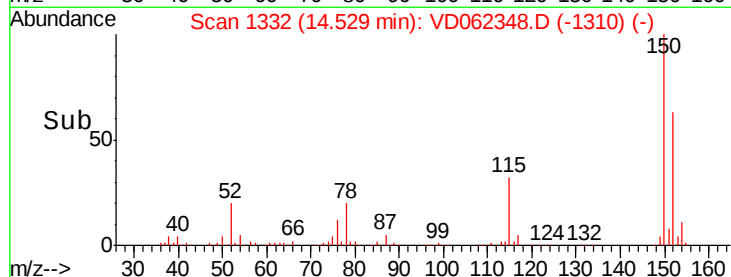
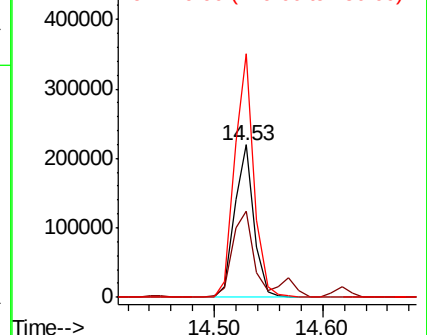
150 159.8 0.0 314.8



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



#73

Isopropylbenzene

Concen: 7.077 ug/l

RT: 13.42 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VD062348.D

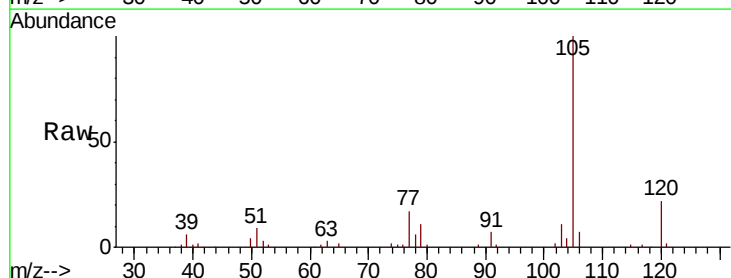
Acq: 14 May 2019 16:02

Tgt Ion:105 Resp: 115571

Ion Ratio Lower Upper

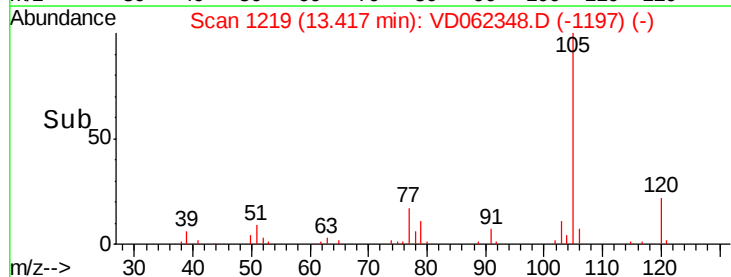
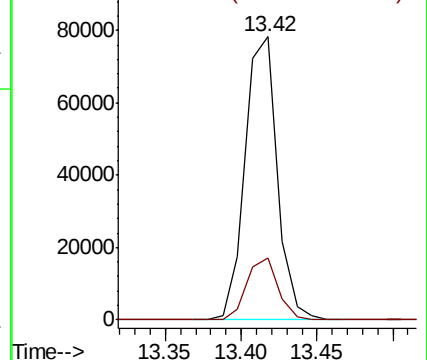
105 100

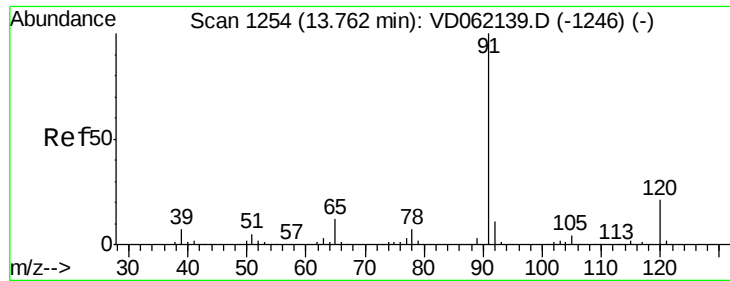
120 21.8 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 1.101 ug/l

RT: 13.78 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

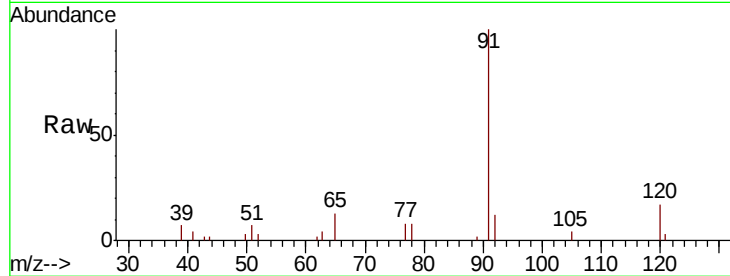
OK-03-050919

Tgt Ion: 91 Resp: 21451

Ion Ratio Lower Upper

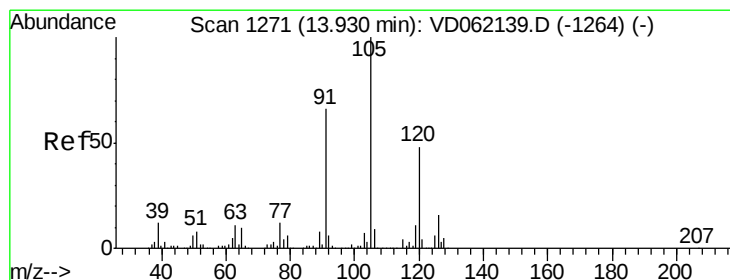
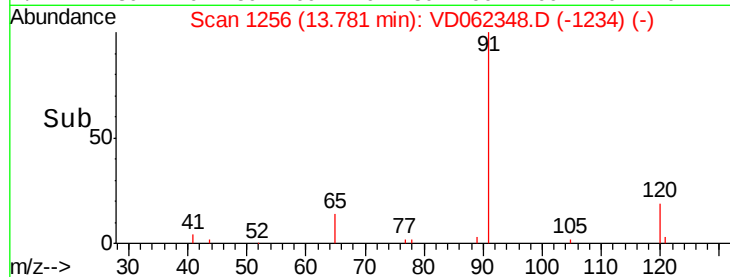
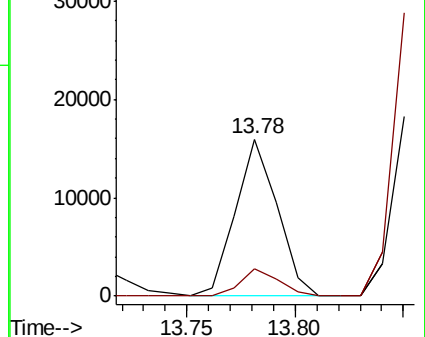
91 100

120 17.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V



#80

1,3,5-Trimethylbenzene

Concen: 43.824 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062348.D

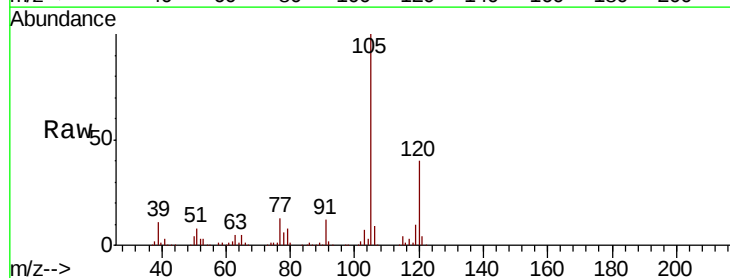
Acq: 14 May 2019 16:02

Tgt Ion: 105 Resp: 602676

Ion Ratio Lower Upper

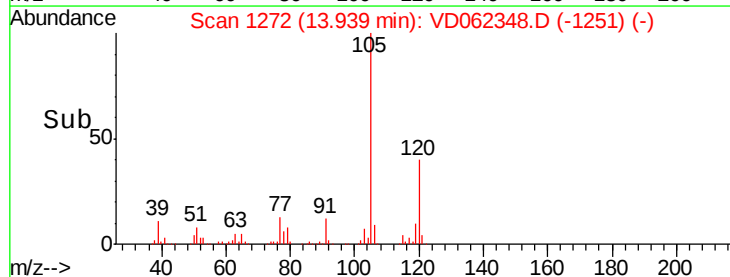
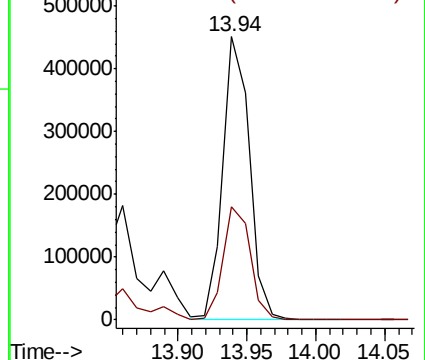
105 100

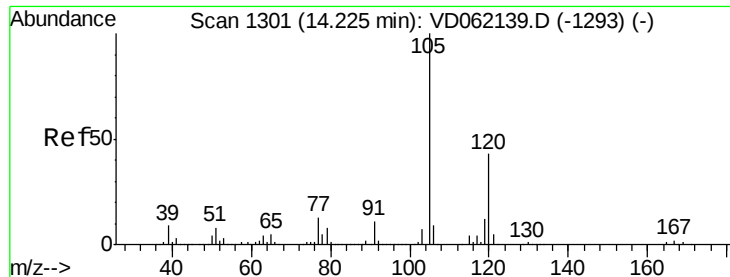
120 39.8 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#84

1,2,4-Trimethylbenzene

Concen: 115.556 ug/l

RT: 14.24 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

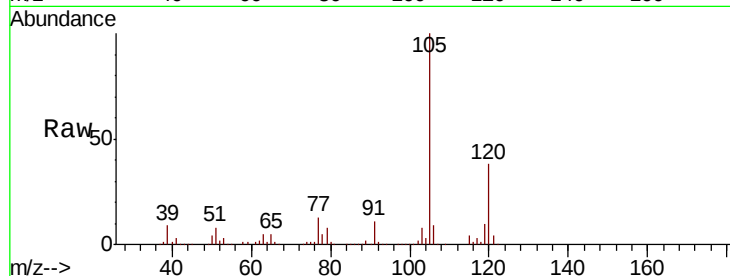
OK-03-050919

Tgt Ion:105 Resp: 1594722

Ion Ratio Lower Upper

105 100

120 38.4 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

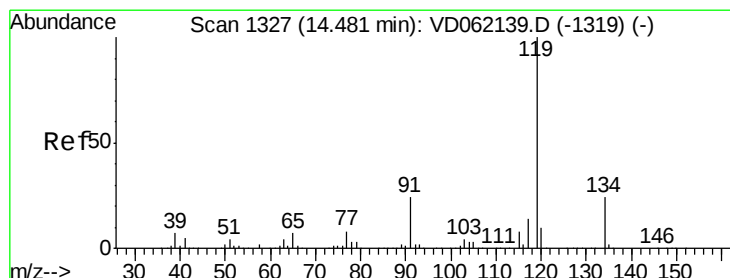
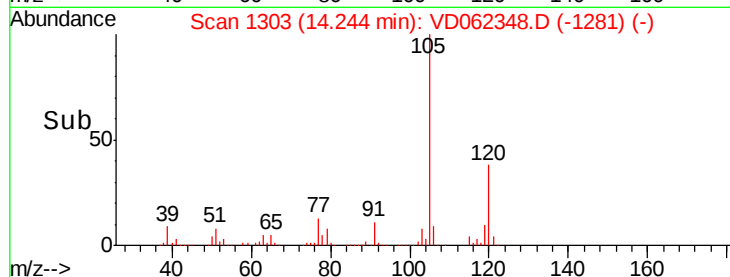
14.24

1000000

500000

0

Time-->



#86

p-Isopropyltoluene

Concen: 1.647 ug/l

RT: 14.50 min Scan# 1329

Delta R.T. 0.02 min

Lab File: VD062348.D

Acq: 14 May 2019 16:02

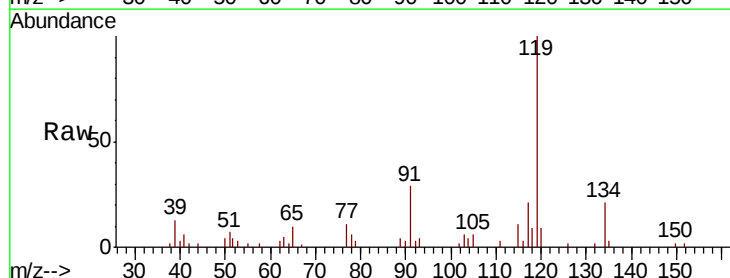
Tgt Ion:119 Resp: 24939

Ion Ratio Lower Upper

119 100

134 21.4 12.8 38.3

91 29.2 10.7 32.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

80000

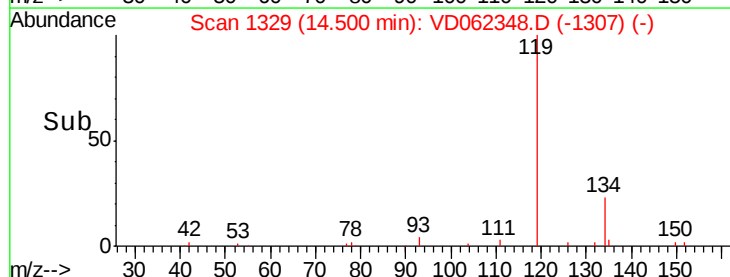
60000

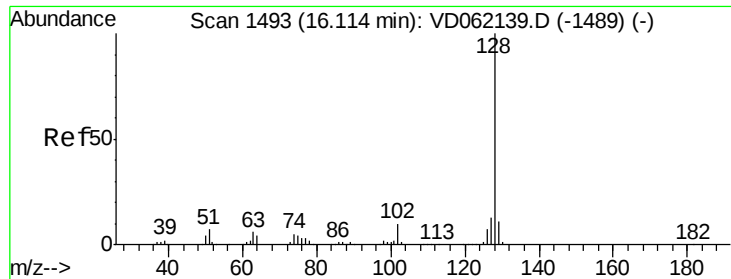
40000

20000

0

Time-->





#95
Naphthalene
Concen: 510.238 ug/l
RT: 16.13 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD062348.D
Acq: 14 May 2019 16:02

Instrument :
MSVOA_D
ClientSampleId :
OK-03-050919

Tgt Ion:128 Resp: 3566153
Ion Ratio Lower Upper
128 100
127 12.8 9.8 14.8
129 11.2 8.8 13.2

