

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081219\
 Data File : VD063518.D
 Acq On : 13 Aug 2019 6:55
 Operator : JC/SY
 Sample : K4085-01
 Misc : 6.76g/5ml/MSVOA D/SOIL
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-05-080919-A

Quant Time: Aug 13 09:40:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	887097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1280633	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	832383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	337586	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	465597	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
35) Dibromofluoromethane	6.94	113	503586	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
50) Toluene-d8	10.42	98	791994	33.40	ug/l	0.00
Spiked Amount			Recovery	=	66.80%	
62) 4-Bromofluorobenzene	13.56	95	332446	30.93	ug/l	0.00
Spiked Amount			Recovery	=	61.86%	

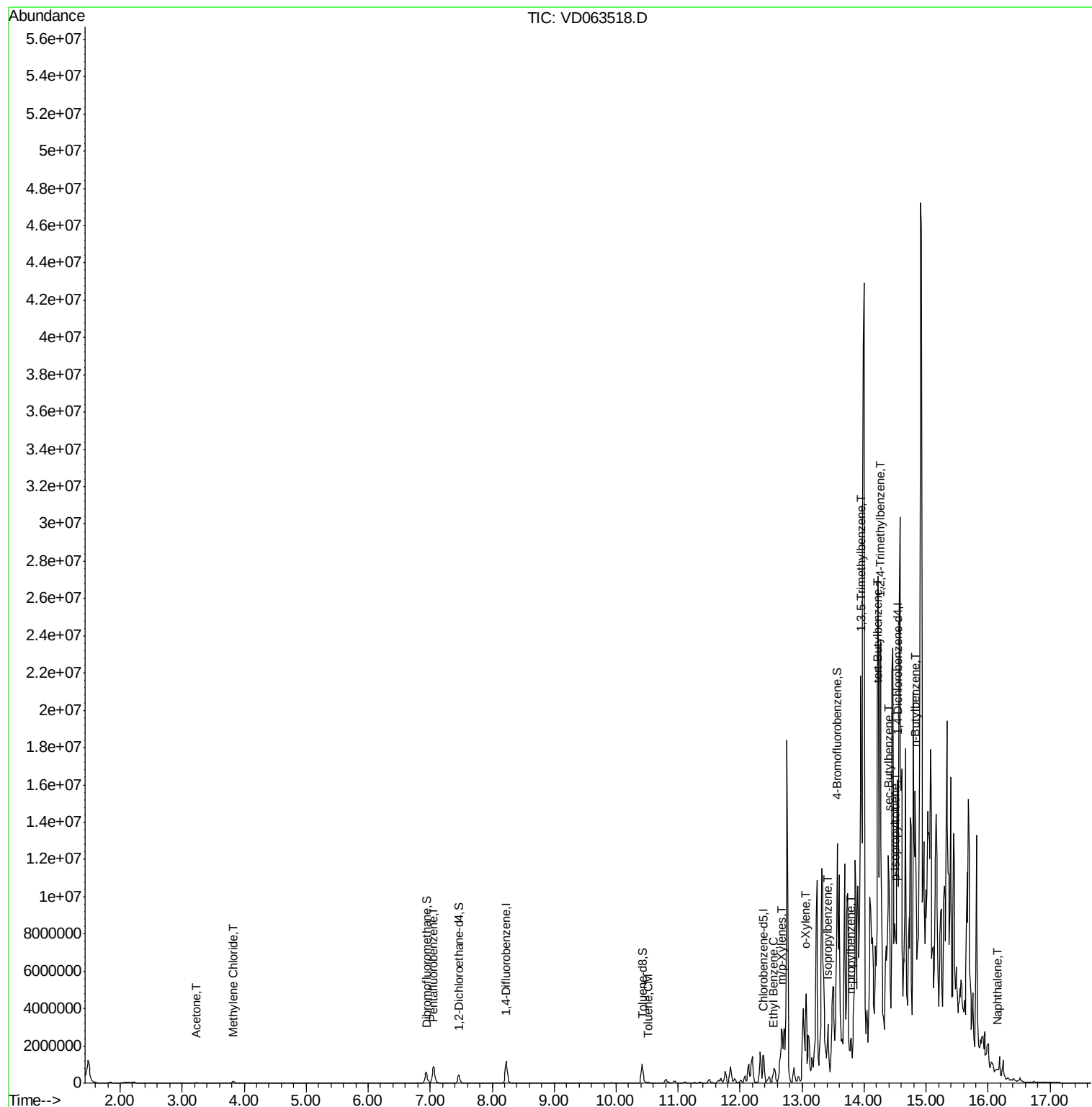
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.23	43	44449	23.059	ug/l #	79
20) Methylene Chloride	3.83	84	50652	6.077	ug/l	89
52) Toluene	10.52	92	23330	1.454	ug/l	100
67) Ethyl Benzene	12.53	91	241195	8.892	ug/l	98
68) m/p-Xylenes	12.68	106	653375	68.558	ug/l	95
69) o-Xylene	13.06	106	820695	89.473	ug/l	98
73) Isopropylbenzene	13.42	105	457974	21.329	ug/l	100
78) n-propylbenzene	13.79	91	1030048	41.000	ug/l	97
80) 1,3,5-Trimethylbenzene	13.95	105	6088549	324.529	ug/l	99
83) tert-Butylbenzene	14.20	119	253506	12.832	ug/l	89
84) 1,2,4-Trimethylbenzene	14.25	105	10060283	579.541	ug/l	93
85) sec-Butylbenzene	14.38	105	1106768	52.752	ug/l	99
86) p-Isopropyltoluene	14.51	119	1630078	81.258	ug/l	100
89) n-Butylbenzene	14.81	91	1071540m	58.525	ug/l	
95) Naphthalene	16.13	128	147883	14.725	ug/l	98

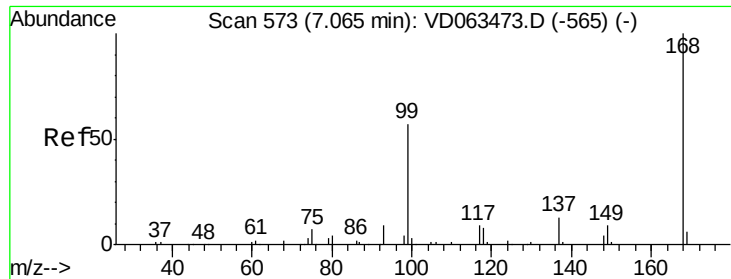
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

Instrument :

MSVOA_D

ClientSampleId :

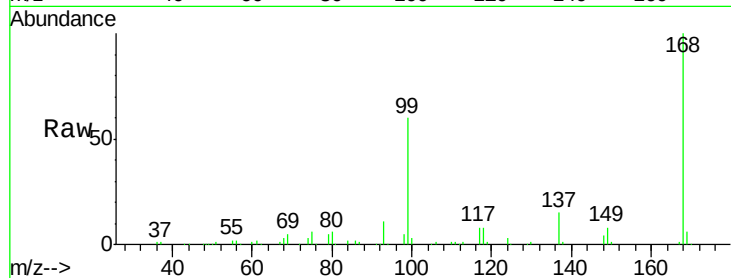
HR-05-080919-A

Tot Ion:168 Resp: 887097

Ion Ratio Lower Upper

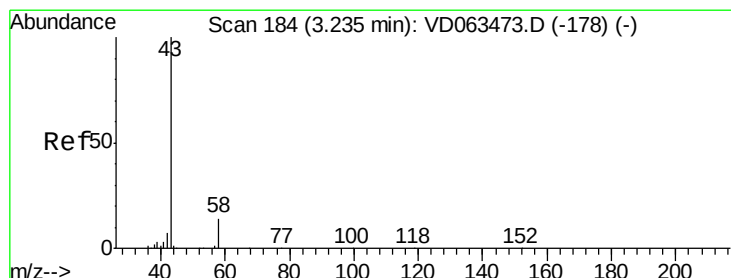
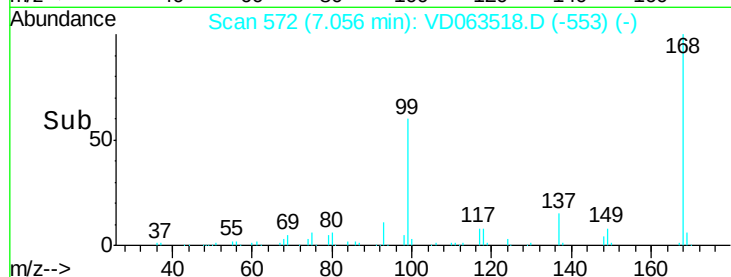
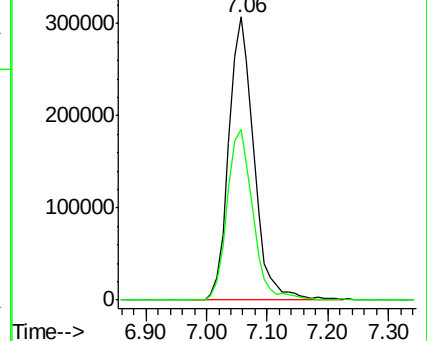
168 100

99 60.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 23.059 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD063518.D

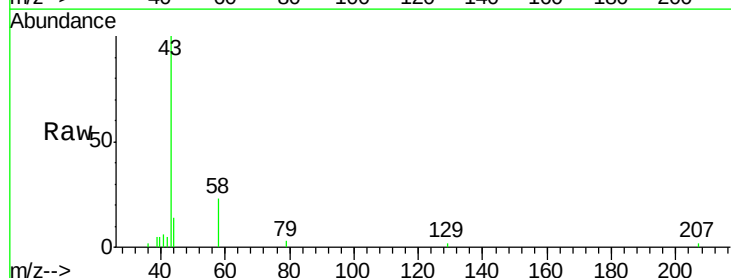
Acq: 13 Aug 2019 6:55

Tgt Ion: 43 Resp: 44449

Ion Ratio Lower Upper

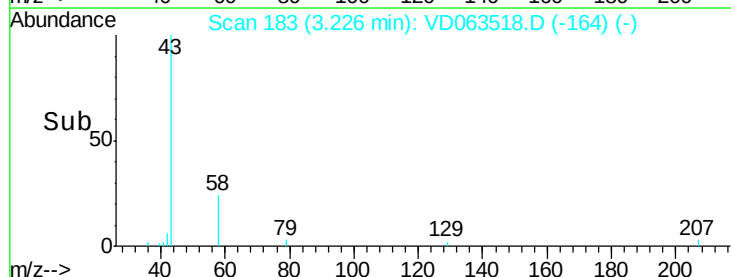
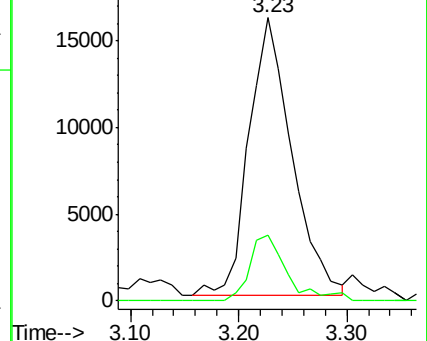
43 100

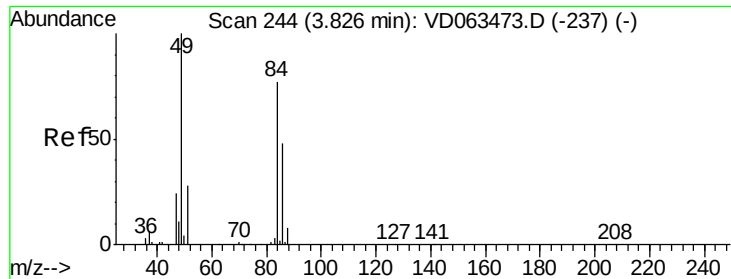
58 23.0 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

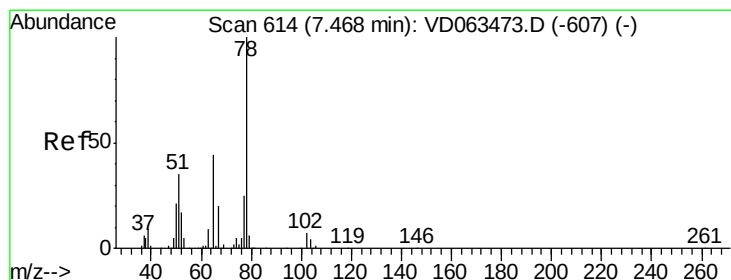
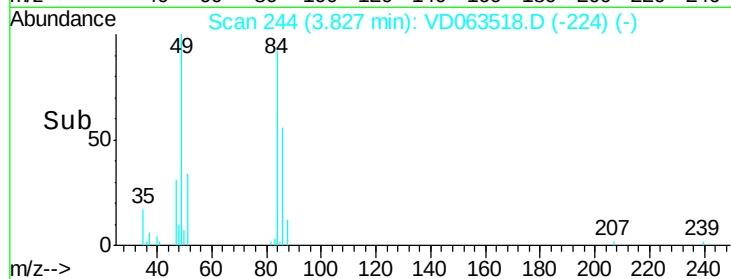
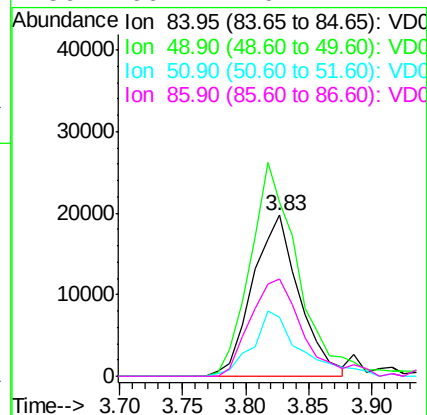
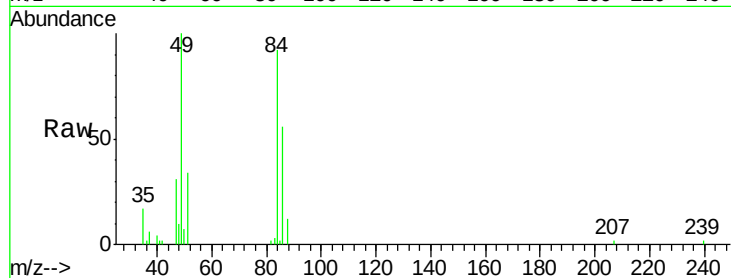




#20
Methylene Chloride
Concen: 6.077 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.00 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

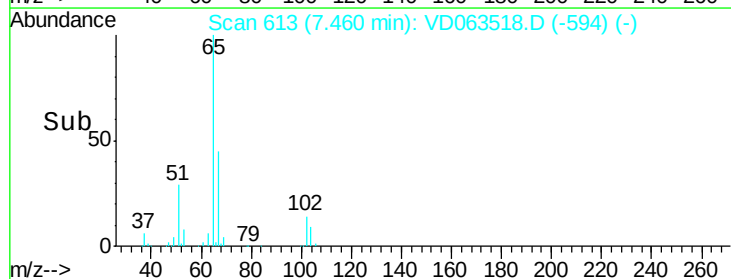
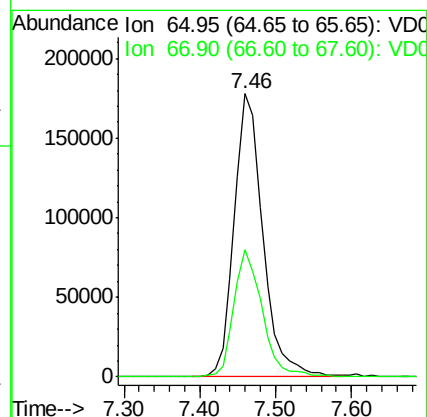
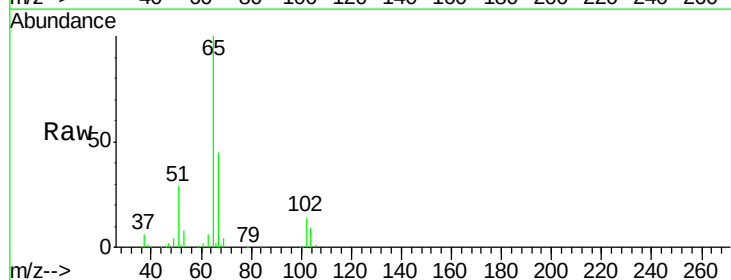
Instrument :
MSVOA_D
ClientSampleId :
HR-05-080919-A

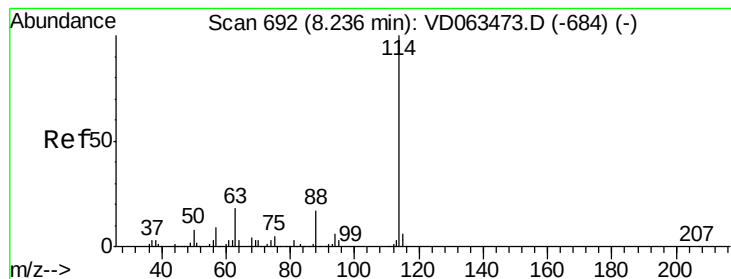
Tot Ion:	84	Resp:	50652
Ion	Ratio	Lower	Upper
84	100		
49	108.2	103.4	155.2
51	37.0	28.5	42.7
86	60.2	49.4	74.2



#33
1,2-Dichloroethane-d4
Concen: 49.101 ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.01 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

Tgt Ion:	65	Resp:	465597
Ion	Ratio	Lower	Upper
65	100		
67	45.1	0.0	89.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. -0.01 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

Instrument :

MSVOA_D

ClientSampleId :

HR-05-080919-A

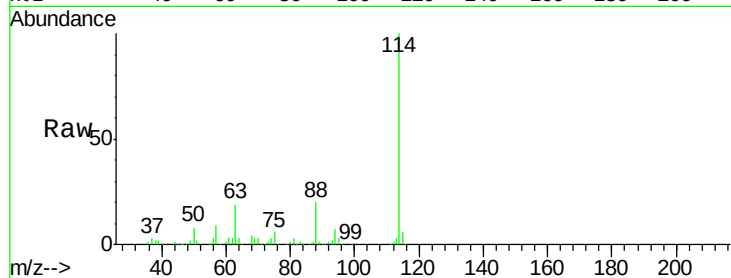
Tot Ion:114 Resp: 1280633

Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.2

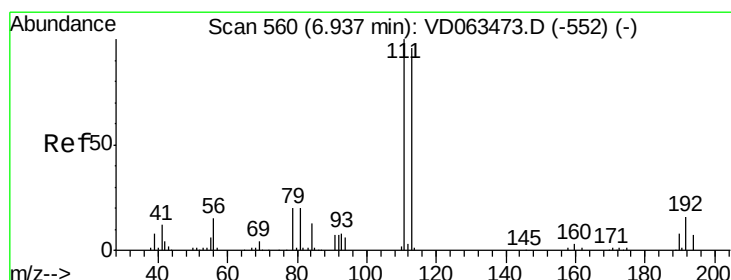
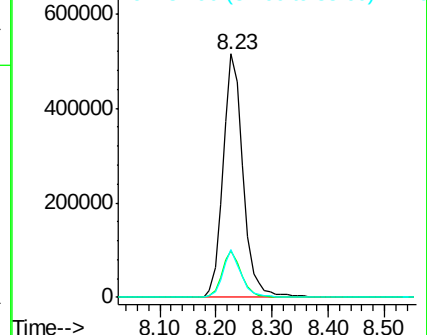
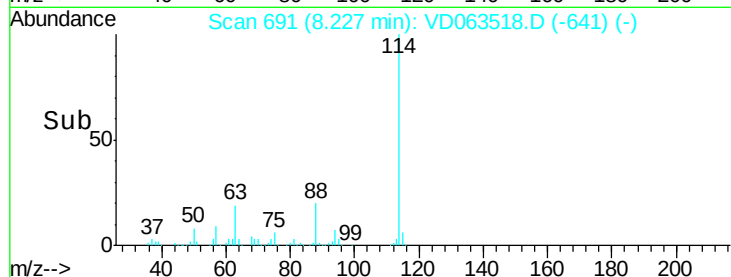
88 19.7 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 46.691 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

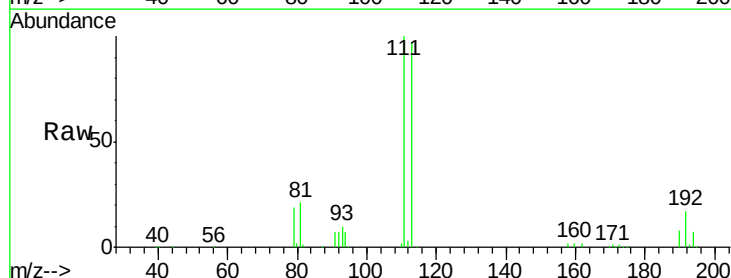
Tgt Ion:113 Resp: 503586

Ion Ratio Lower Upper

113 100

111 103.4 83.1 124.7

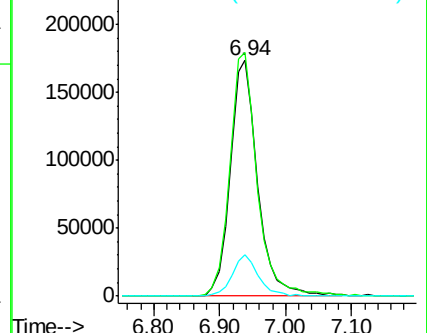
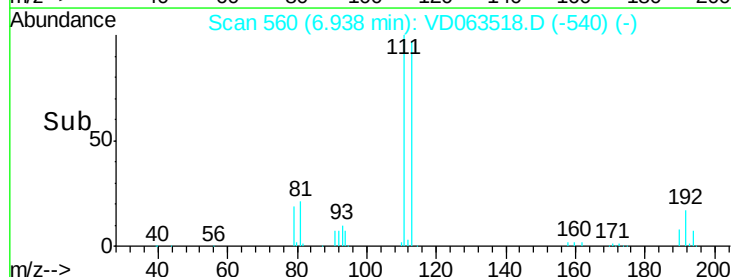
192 17.6 13.1 19.7

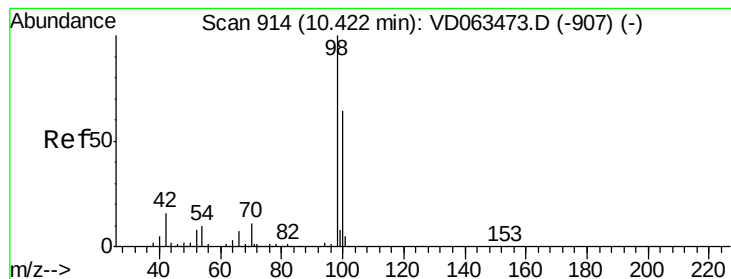


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: 33.400 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.00 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

Instrument :

MSVOA_D

ClientSampleId :

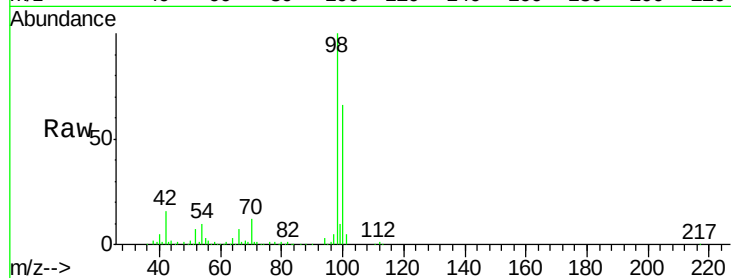
HR-05-080919-A

Tot Ion: 98 Resp: 791994

Ion Ratio Lower Upper

98 100

100 65.9 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.42

400000

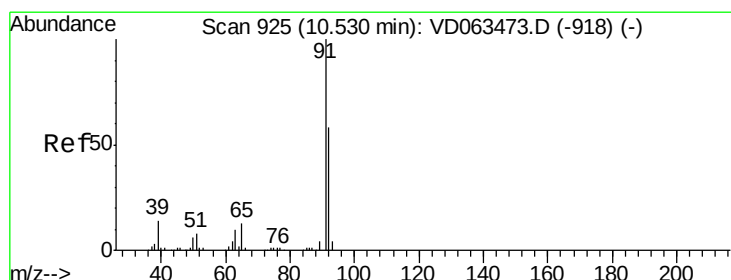
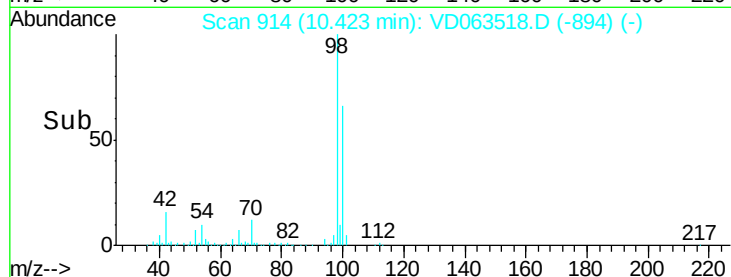
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 1.454 ug/l

RT: 10.52 min Scan# 924

Delta R.T. -0.01 min

Lab File: VD063518.D

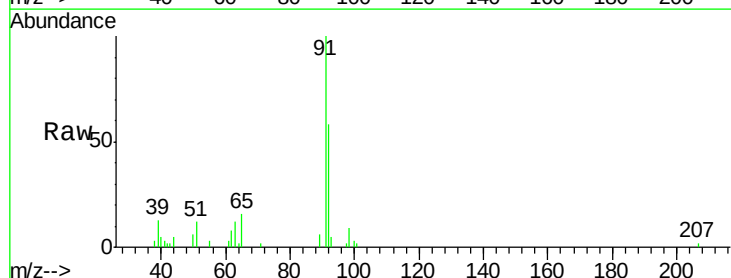
Acq: 13 Aug 2019 6:55

Tgt Ion: 92 Resp: 23330

Ion Ratio Lower Upper

92 100

91 172.4 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

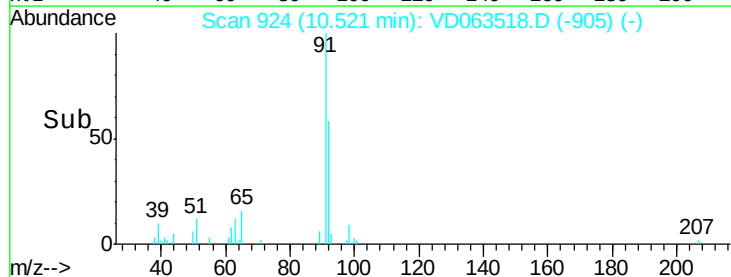
15000

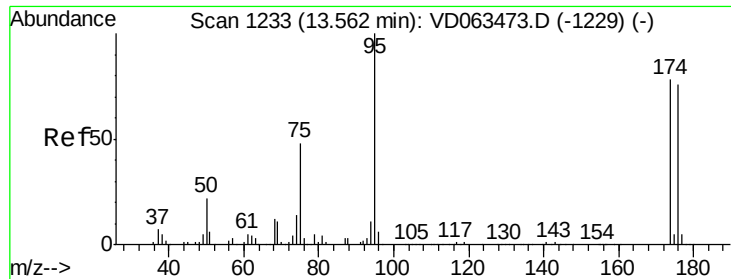
10000

5000

0

Time-->

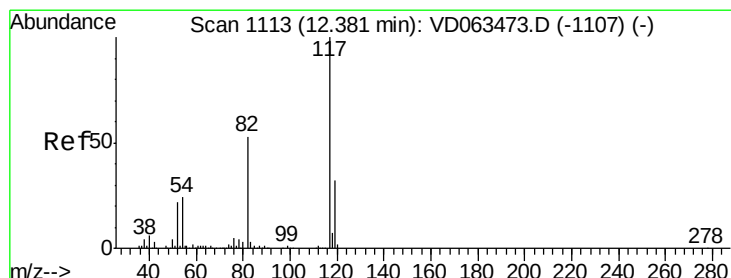
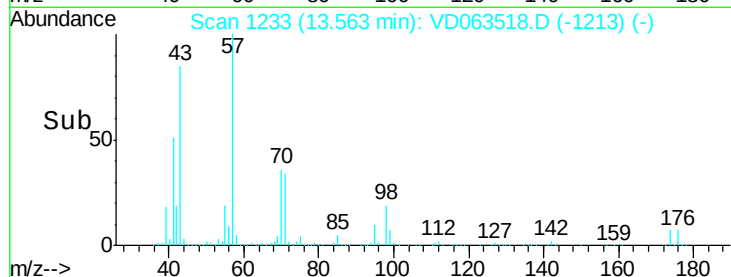
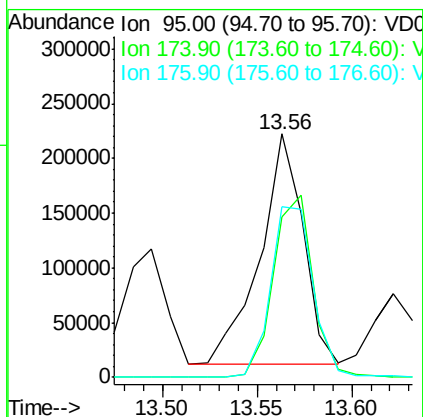
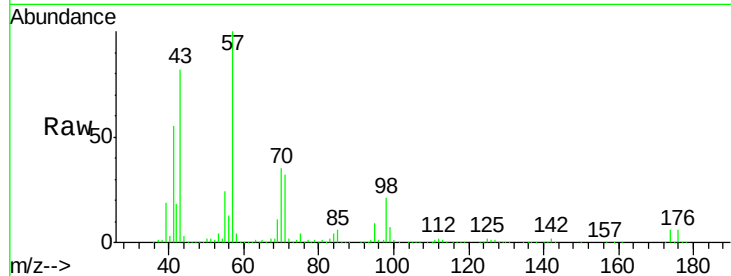




#62
4-Bromofluorobenzene
Concen: 30.932 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

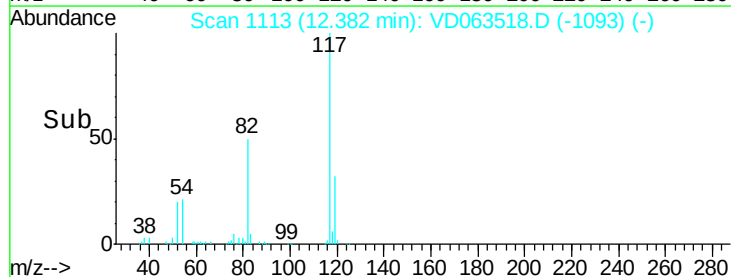
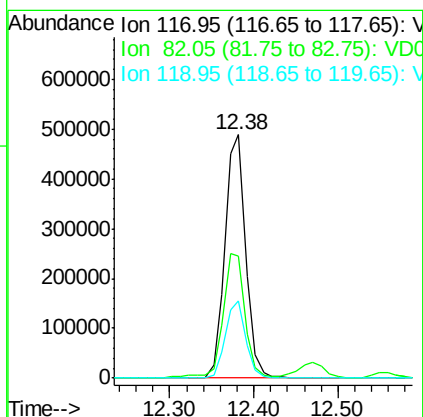
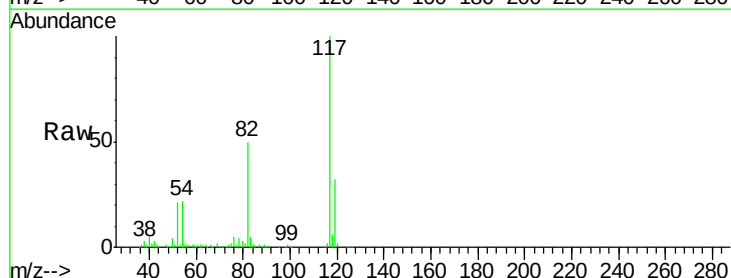
Instrument :
MSVOA_D
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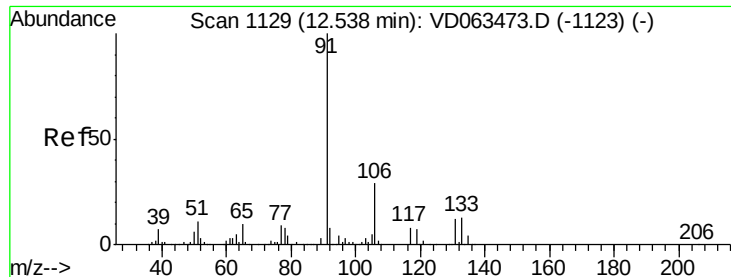
Tot Ion	95	Resp	332446
Ion Ratio	Lower	Upper	
95	100		
174	65.8	0.0	155.4
176	70.3	0.0	152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

Tgt Ion	117	Resp	832383
Ion Ratio	Lower	Upper	
117	100		
82	50.2	42.0	63.0
119	31.6	25.4	38.0





#67

Ethyl Benzene

Concen: 8.892 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

Instrument :

MSVOA_D

ClientSampleId :

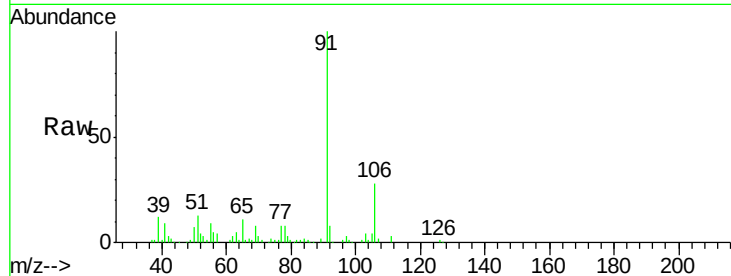
HR-05-080919-A

Tot Ion: 91 Resp: 241195

Ion Ratio Lower Upper

91 100

106 28.0 23.1 34.7



Abundance Ion 91.00 (90.70 to 91.70): VD063473.D (-1123) (-)

Ion 106.05 (105.75 to 106.75): VD063473.D (-1123) (-)

12.53

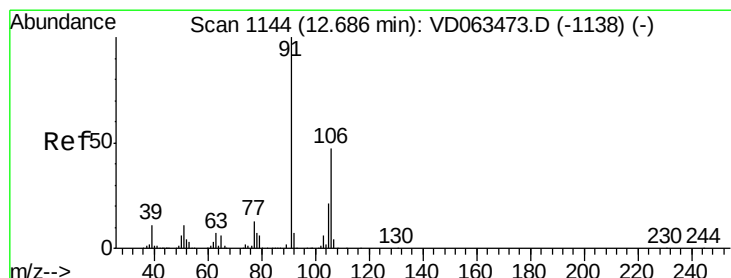
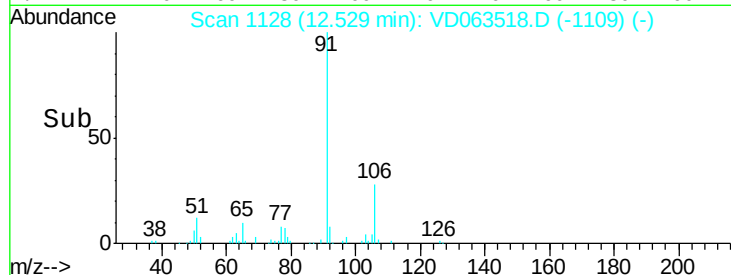
150000

100000

50000

0

Time-->



#68

m/p-Xylenes

Concen: 68.558 ug/l

RT: 12.68 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VD063518.D

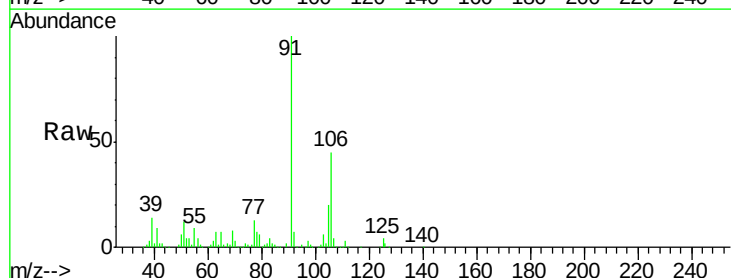
Acq: 13 Aug 2019 6:55

Tgt Ion: 106 Resp: 653375

Ion Ratio Lower Upper

106 100

91 223.2 171.8 257.8



Abundance Ion 106.05 (105.75 to 106.75): VD063473.D (-1138) (-)

Ion 91.00 (90.70 to 91.70): VD063473.D (-1138) (-)

12.68

800000

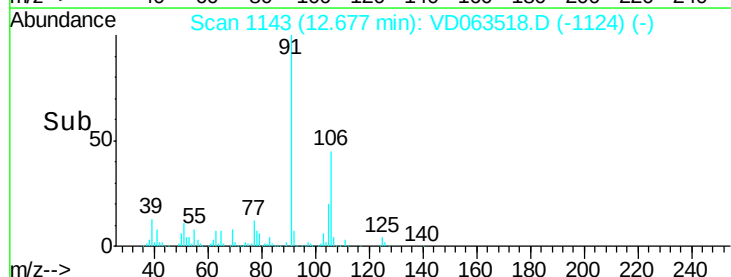
600000

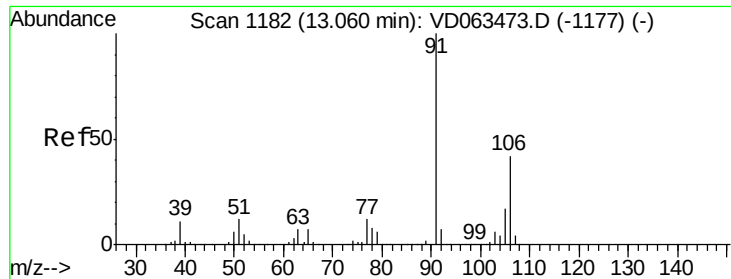
400000

200000

0

Time-->

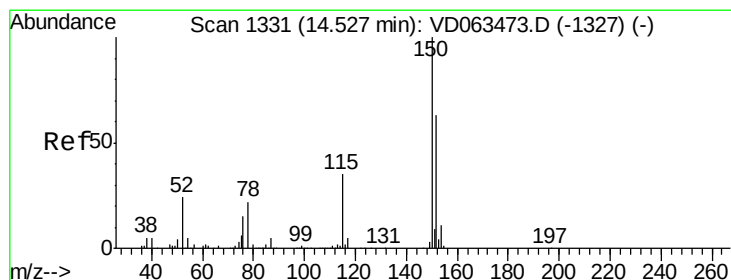
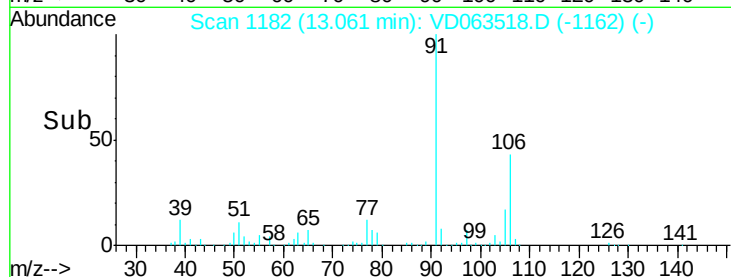
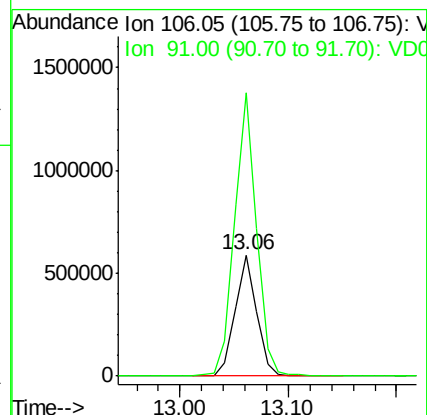
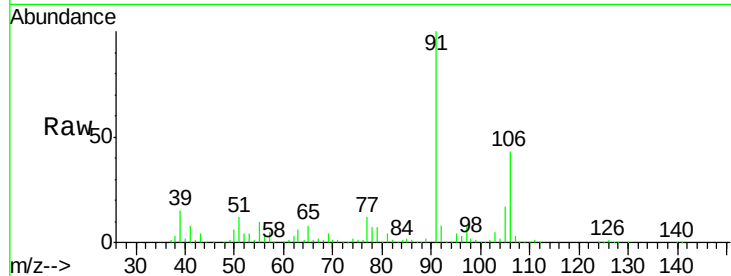




#69
o-Xylene
Concen: 89.473 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

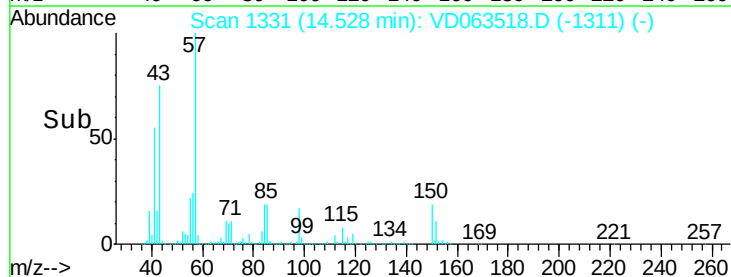
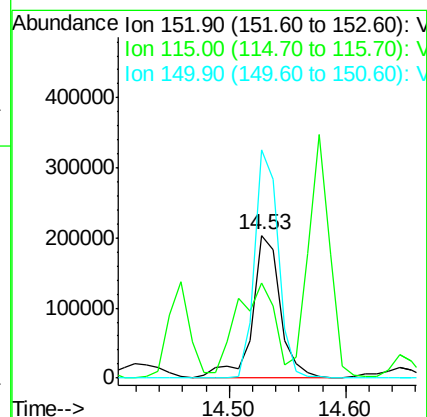
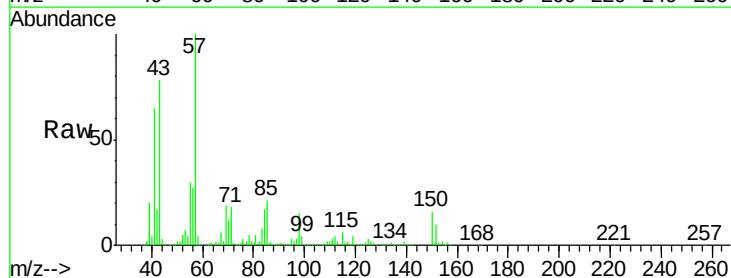
Instrument :
MSVOA_D
ClientSampleId :
HR-05-080919-A

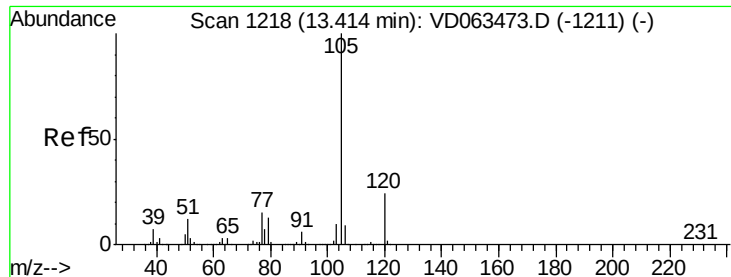
Tot Ion:106 Resp: 820695
Ion Ratio Lower Upper
106 100
91 233.6 118.1 354.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

Tgt Ion:152 Resp: 337586
Ion Ratio Lower Upper
152 100
115 66.8 30.9 92.7
150 160.3 0.0 318.6





#73

Isopropylbenzene

Concen: 21.329 ug/l

RT: 13.42 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

Instrument :

MSVOA_D

ClientSampleId :

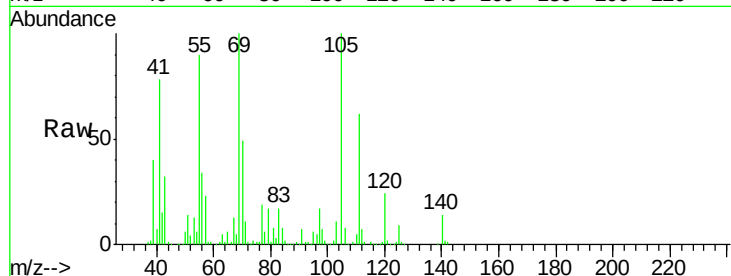
HR-05-080919-A

Tot Ion:105 Resp: 457974

Ion Ratio Lower Upper

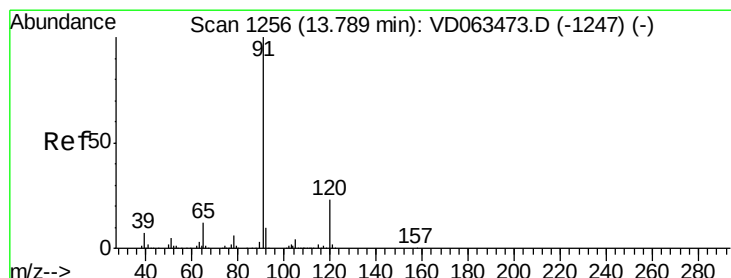
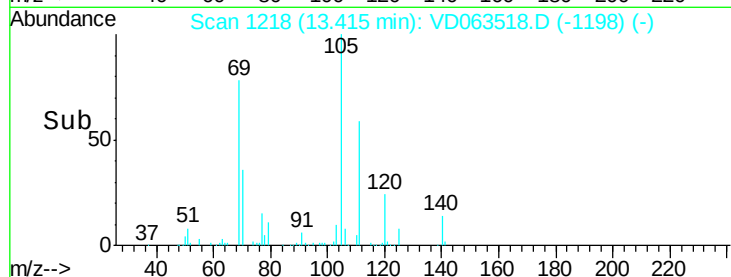
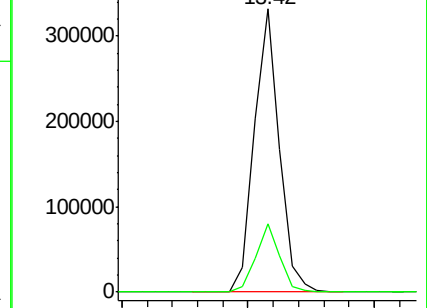
105 100

120 24.0 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#78

n-propylbenzene

Concen: 41.000 ug/l

RT: 13.79 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VD063518.D

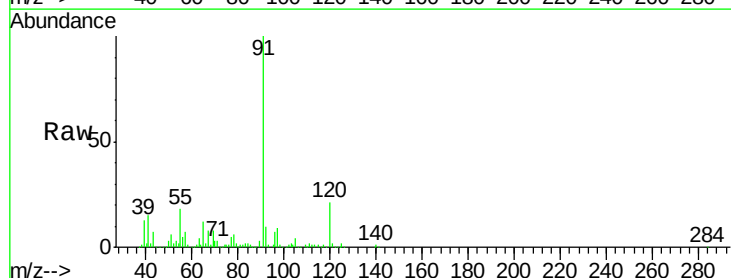
Acq: 13 Aug 2019 6:55

Tgt Ion: 91 Resp: 1030048

Ion Ratio Lower Upper

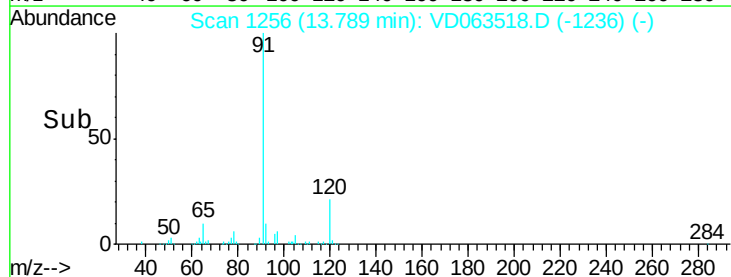
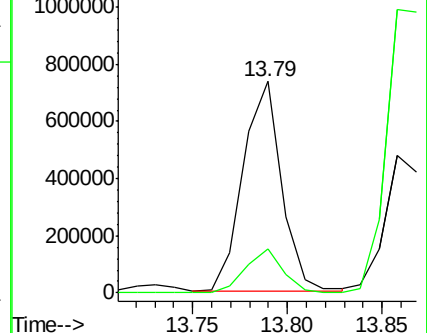
91 100

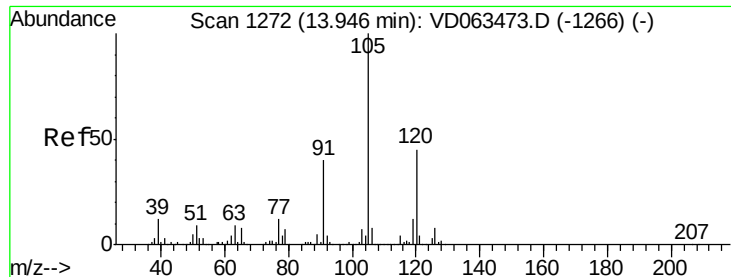
120 21.1 11.3 33.9



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: 324.529 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

Instrument :

MSVOA_D

ClientSampleId :

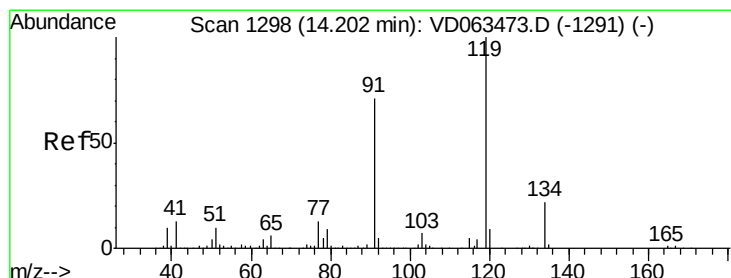
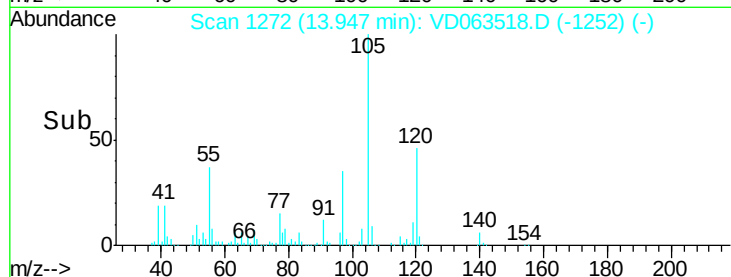
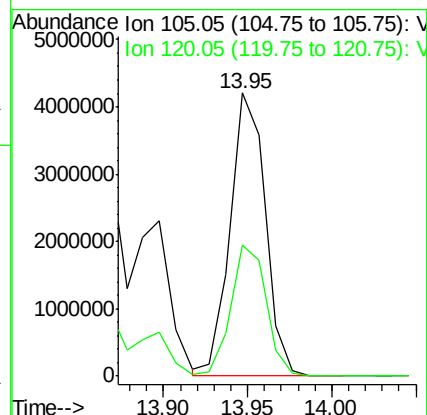
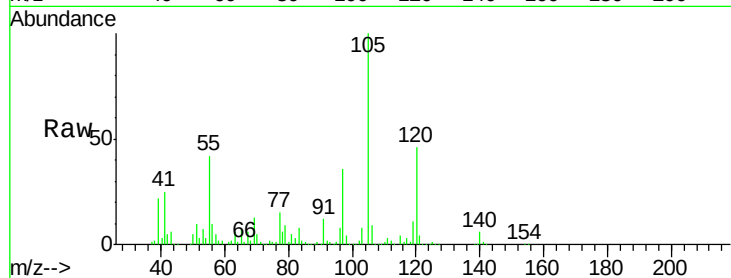
HR-05-080919-A

Tot Ion:105 Resp: 6088549

Ion Ratio Lower Upper

105 100

120 46.1 22.8 68.3



#83

tert-Butylbenzene

Concen: 12.832 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. 0.00 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

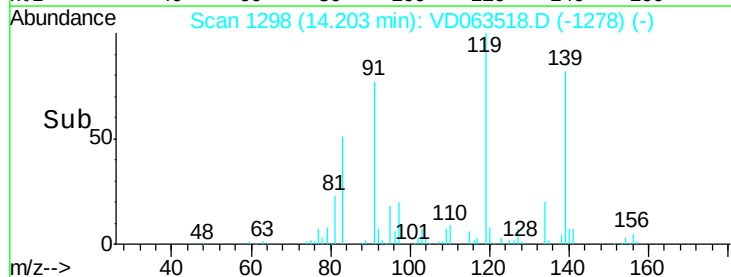
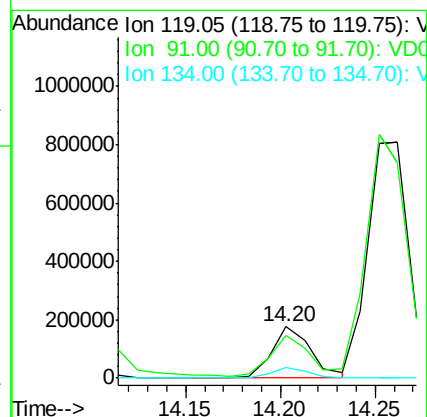
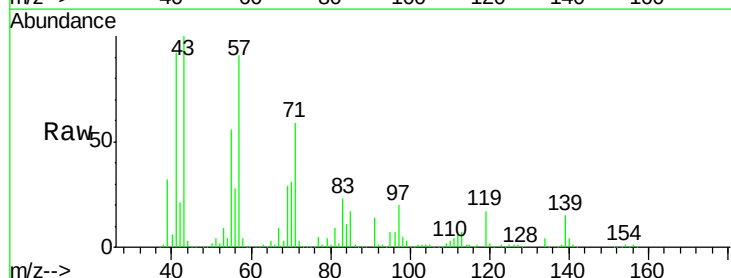
Tgt Ion:119 Resp: 253506

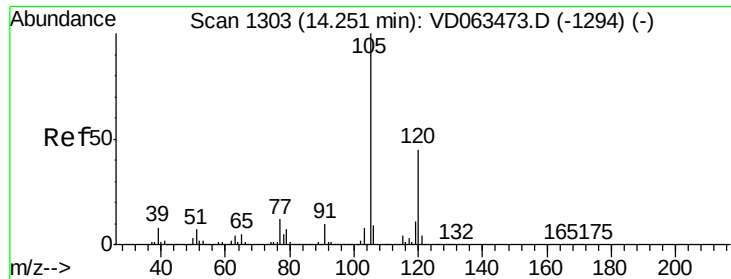
Ion Ratio Lower Upper

119 100

91 82.4 35.5 106.7

134 20.4 11.1 33.1





#84

1,2,4-Trimethylbenzene

Concen: 579.541 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VD063518.D

Acq: 13 Aug 2019 6:55

Instrument :

MSVOA_D

ClientSampleId :

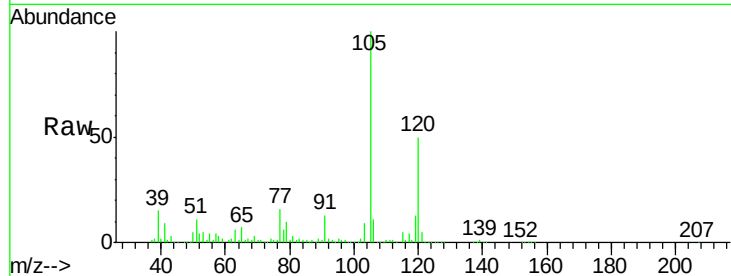
HR-05-080919-A

Tot Ion:105 Resp:10060283

Ion Ratio Lower Upper

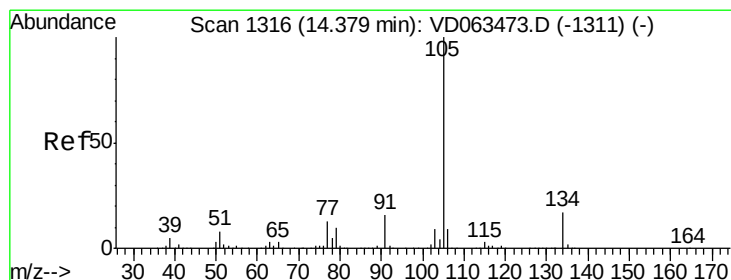
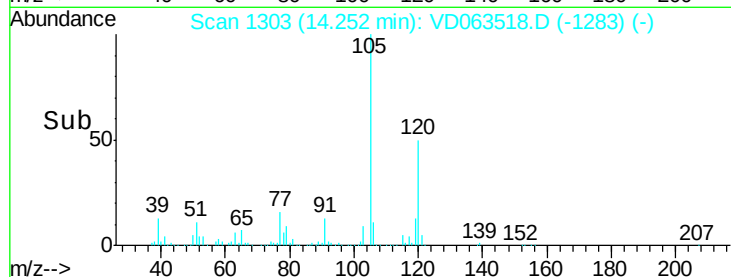
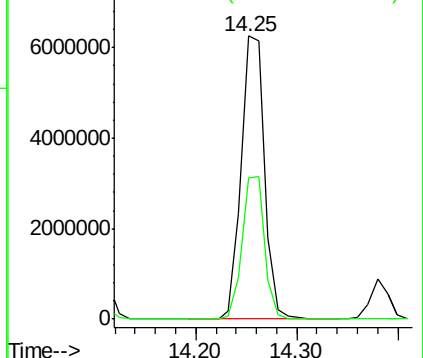
105 100

120 49.8 22.7 68.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#85

sec-Butylbenzene

Concen: 52.752 ug/l

RT: 14.38 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VD063518.D

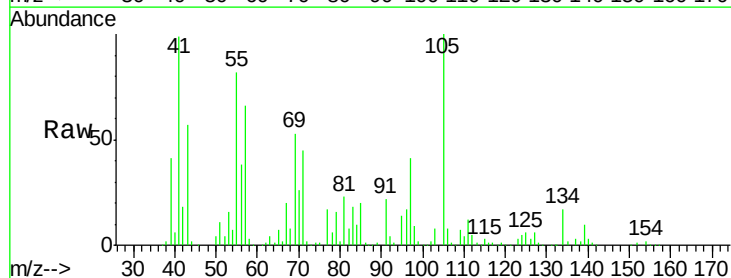
Acq: 13 Aug 2019 6:55

Tgt Ion:105 Resp: 1106768

Ion Ratio Lower Upper

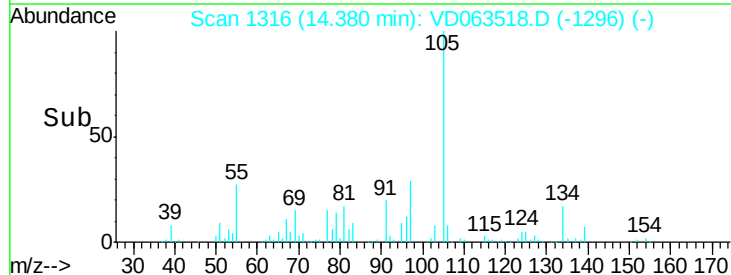
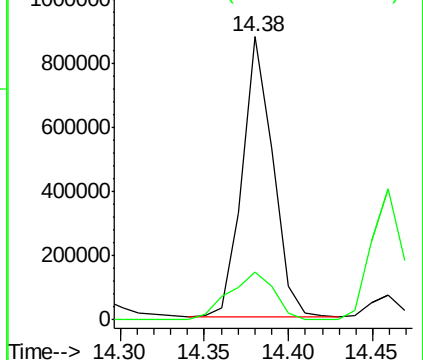
105 100

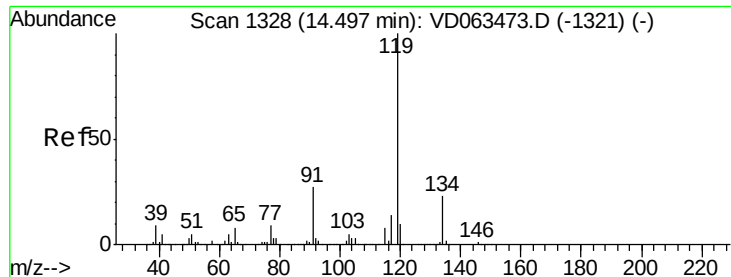
134 16.8 8.3 24.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

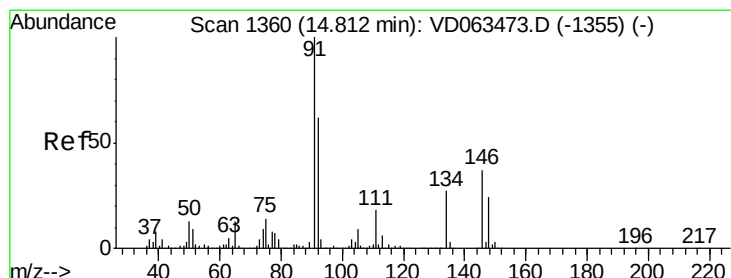
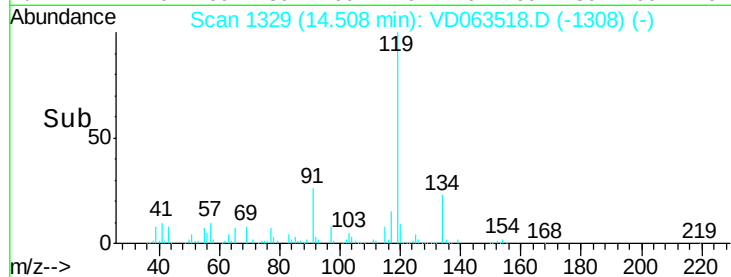
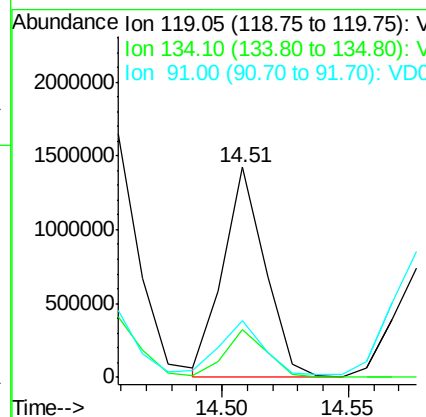
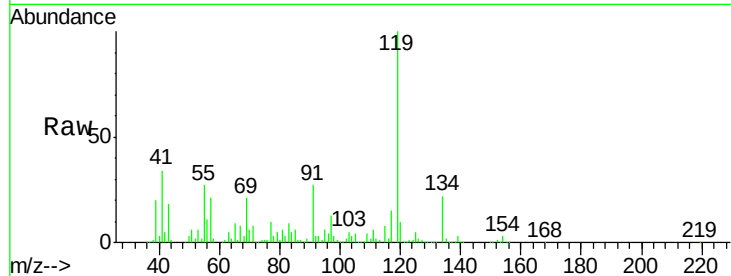




#86
p-Isopropyltoluene
Concen: 81.258 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. 0.01 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

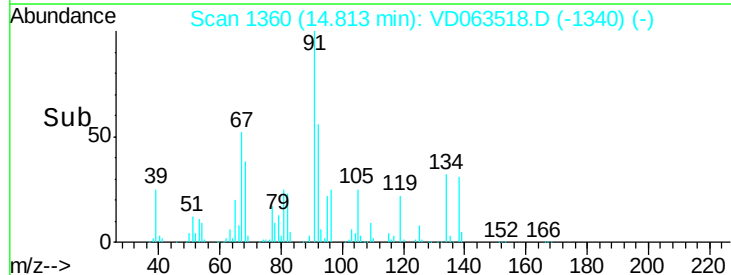
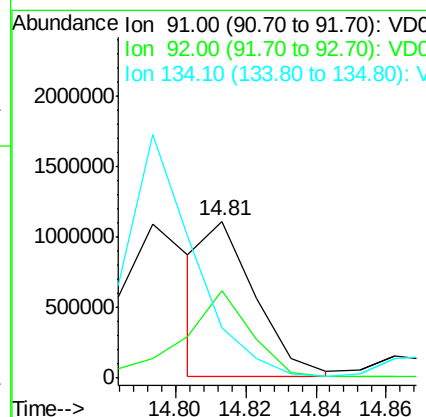
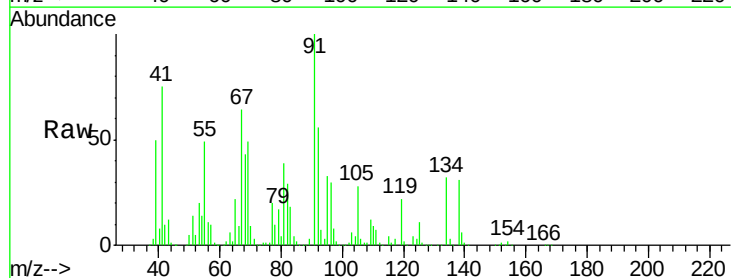
Instrument :
MSVOA_D
ClientSampleId :
HR-05-080919-A

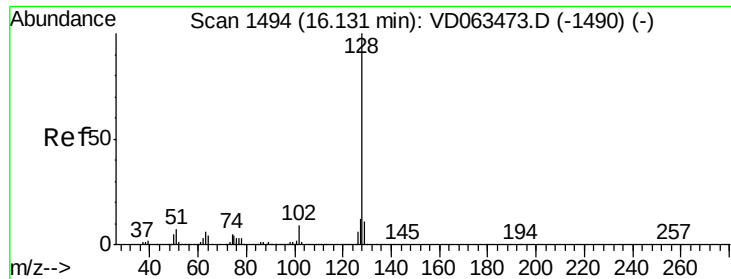
Tot Ion:119 Resp: 1630078
Ion Ratio Lower Upper
119 100
134 22.5 11.3 33.8
91 27.2 13.5 40.4



#89
n-Butylbenzene
Concen: 58.525 ug/l m
RT: 14.81 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

Tgt Ion: 91 Resp: 1071540
Ion Ratio Lower Upper
91 100
92 55.7 30.8 92.3
134 31.7 13.4 40.2

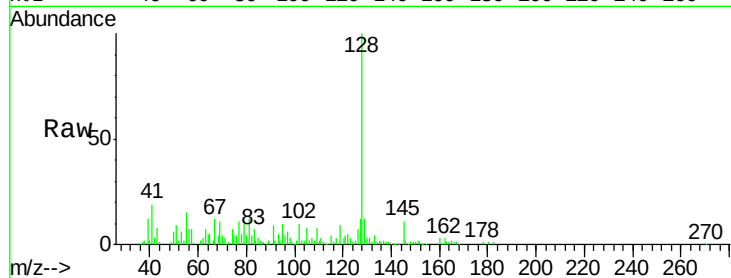




#95
Naphthalene
Concen: 14.725 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VD063518.D
Acq: 13 Aug 2019 6:55

Instrument :
MSVOA_D
ClientSampleId :
HR-05-080919-A

Tot Ion:128 Resp: 147883
Ion Ratio Lower Upper
128 100
127 12.4 9.4 14.0
129 11.7 8.5 12.7



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

