

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\
 Data File : VD060816.D
 Acq On : 1 Feb 2019 13:46
 Operator : VA/AP
 Sample : K1011-13
 Misc : 4.79g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-013119-A

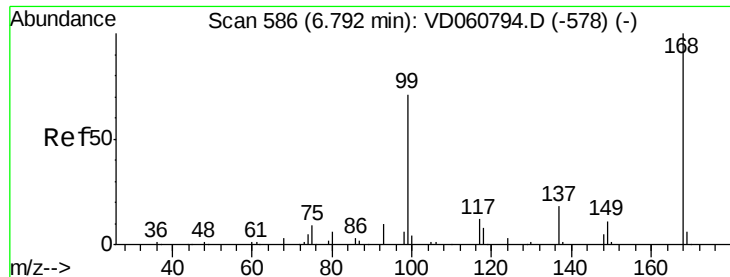
Quant Time: Feb 02 00:23:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.76	168	498947	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.94	114	712063	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.14	117	525170	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.30	152	210087	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.18	65	318345	41.62	ug/l	-0.04
Spiked Amount			Recovery	=	83.24%	
35) Dibromofluoromethane	6.64	113	254995	37.34	ug/l	-0.03
Spiked Amount			Recovery	=	74.68%	
50) Toluene-d8	10.16	98	499113	31.30	ug/l	-0.03
Spiked Amount			Recovery	=	62.60%	
62) 4-Bromofluorobenzene	13.34	95	224269	27.98	ug/l	-0.02
Spiked Amount			Recovery	=	55.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	1241	1.019	ug/l #	1
11) Tert butyl alcohol	3.90	59	380	1.040	ug/l #	69
13) Acrolein	2.85	56	195	Below Cal	#	9
16) Acetone	3.10	43	78666	71.203	ug/l	95
18) Methyl Acetate	3.47	43	2691	1.229	ug/l #	63
20) Methylene Chloride	3.65	84	39642	3.853	ug/l #	94
25) 2-Butanone	5.80	43	10086	7.132	ug/l	94
36) 1,1-Dichloropropene	6.75	75	48975	5.760	ug/l #	55
37) Ethyl Acetate	5.87	43	6563	1.729	ug/l #	46
38) Carbon Tetrachloride	6.76	117	61098	5.731	ug/l #	16
52) Toluene	10.26	92	579688	54.462	ug/l	100
67) Ethyl Benzene	12.30	91	78708	3.647	ug/l	92
68) m/p-Xylenes	12.43	106	144591	20.594	ug/l	94
69) o-Xylene	12.83	106	46563	6.701	ug/l	86
80) 1,3,5-Trimethylbenzene	14.03	105	24491	1.698	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.34	75	119875	119.352	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.03	105	24491	1.698	ug/l	94
95) Naphthalene	15.92	128	46450	5.462	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.03 min

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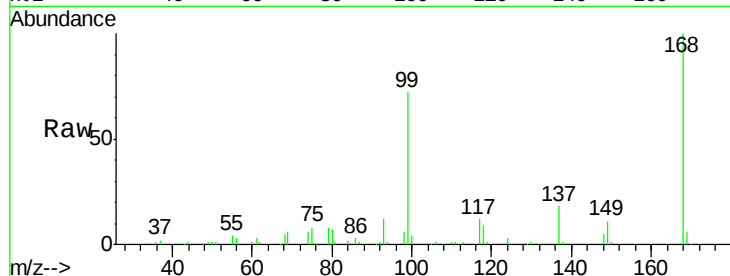
OR-02-013119-A

Tot Ion:168 Resp: 498947

Ion Ratio Lower Upper

168 100

99 71.6 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.76

150000

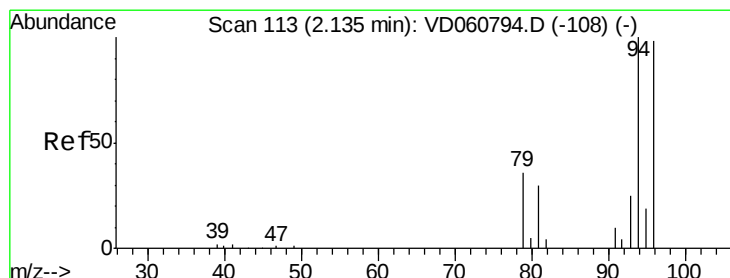
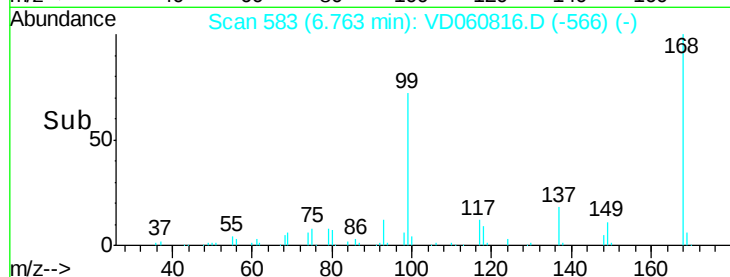
100000

50000

0

Time-->

6.60 6.70 6.80 6.90 7.00



#5

Bromomethane

Concen: 1.019 ug/l

RT: 2.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD060816.D

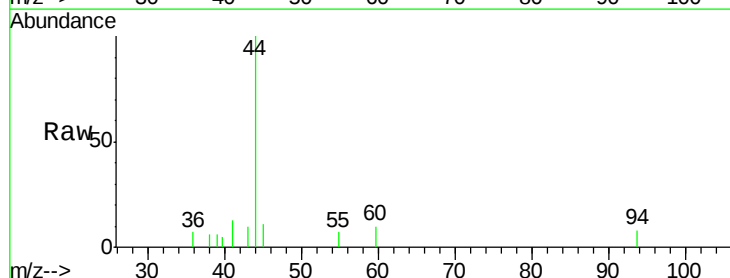
Acq: 1 Feb 2019 13:46

Tgt Ion: 94 Resp: 1241

Ion Ratio Lower Upper

94 100

96 0.0 78.0 117.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

600

500

400

300

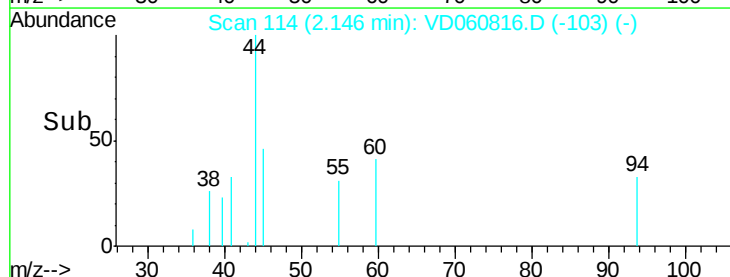
200

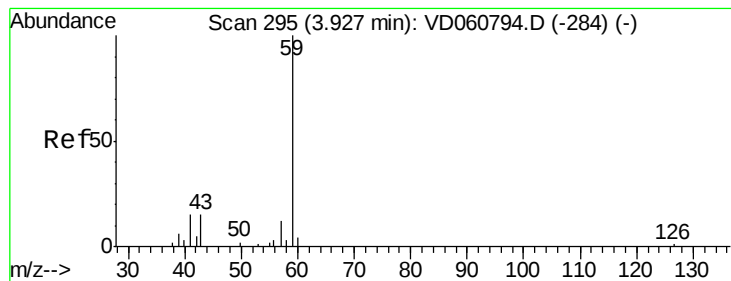
100

0

Time-->

2.10 2.15 2.20



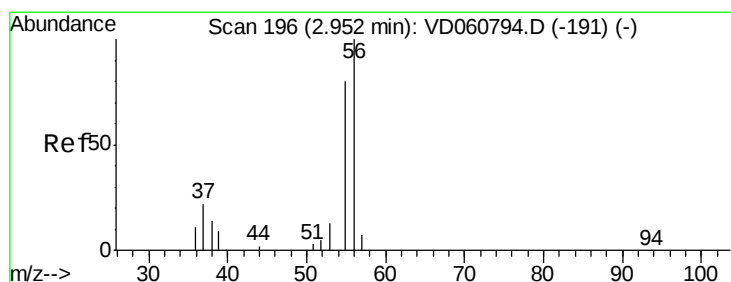
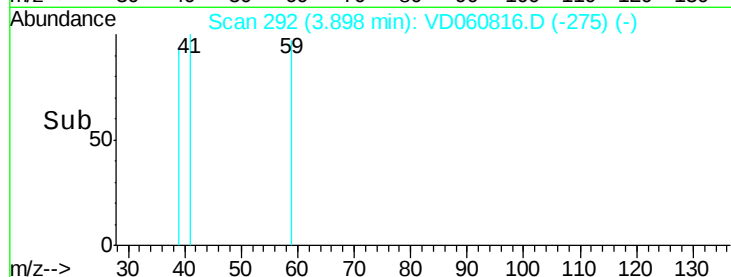
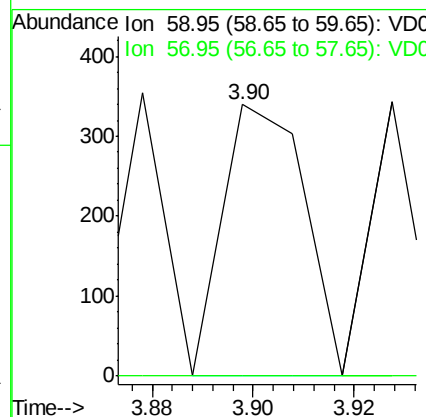
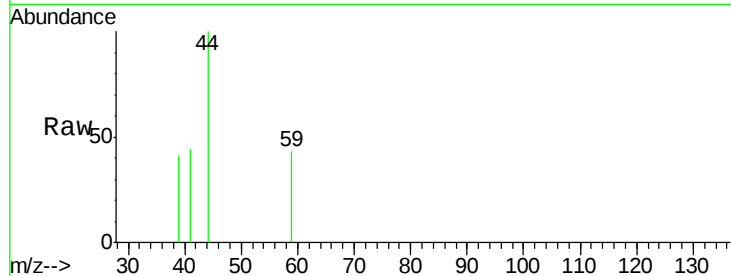


#11

Tert butyl alcohol
 Concen: 1.040 ug/l
 RT: 3.90 min Scan# 292
 Delta R.T. -0.03 min
 Lab File: VD060816.D
 Acq: 1 Feb 2019 13:46

Instrument :
 MSVOA_D
 ClientSampleID :
 OR-02-013119-A

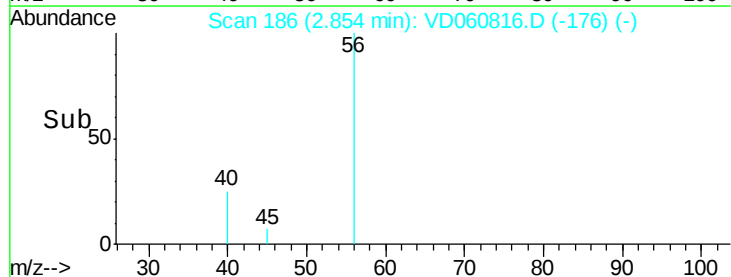
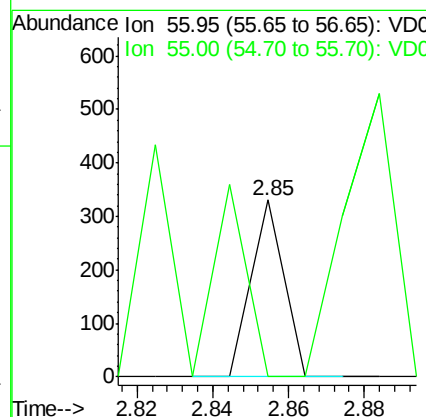
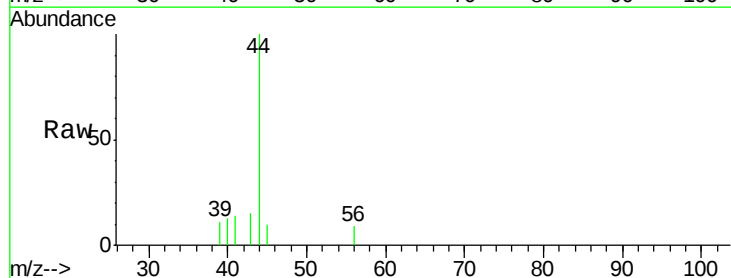
Tot Ion: 59 Resp: 380
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.8 14.6#

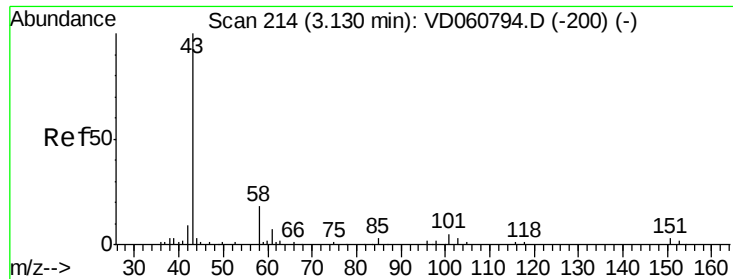


#13

Acrolein
 Concen: Below Cal
 RT: 2.85 min Scan# 186
 Delta R.T. -0.10 min
 Lab File: VD060816.D
 Acq: 1 Feb 2019 13:46

Tgt Ion: 56 Resp: 195
 Ion Ratio Lower Upper
 56 100
 55 0.0 64.2 96.2#





#16

Acetone

Concen: 71.203 ug/l

RT: 3.10 min Scan# 211

Delta R.T. -0.03 min

Lab File: VD060816.D

Acq: 1 Feb 2019 13:46

Instrument :

MSVOA_D

ClientSampleId :

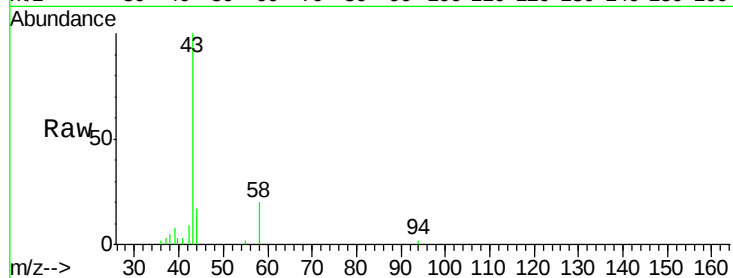
OR-02-013119-A

Tot Ion: 43 Resp: 78666

Ion Ratio Lower Upper

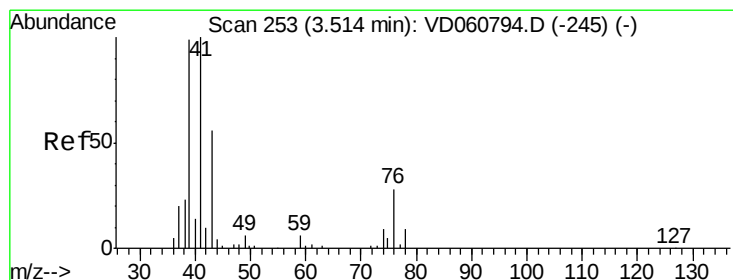
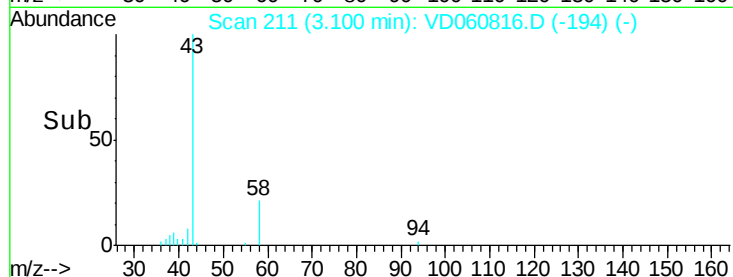
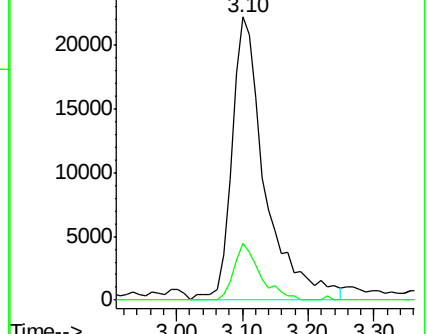
43 100

58 20.1 14.5 21.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.229 ug/l

RT: 3.47 min Scan# 249

Delta R.T. -0.04 min

Lab File: VD060816.D

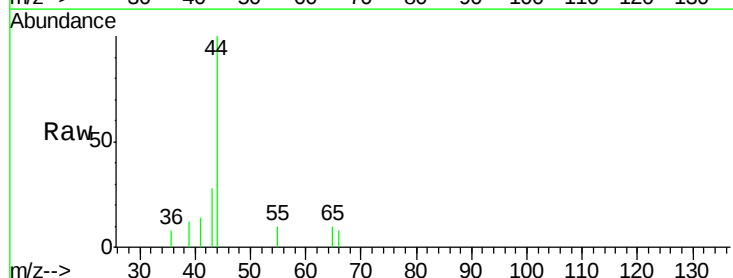
Acq: 1 Feb 2019 13:46

Tgt Ion: 43 Resp: 2691

Ion Ratio Lower Upper

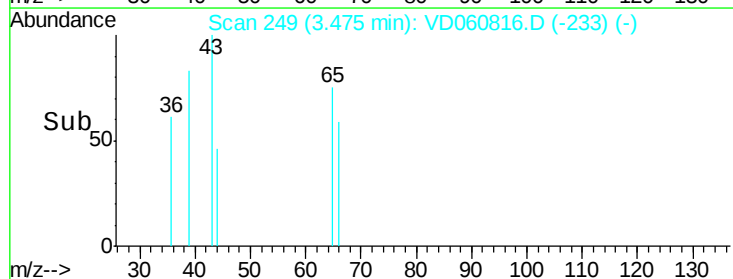
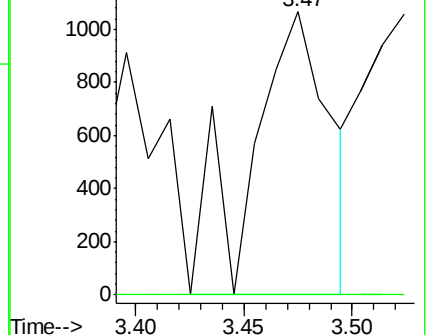
43 100

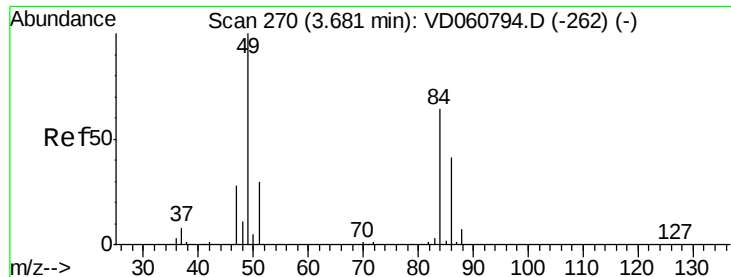
74 0.0 12.5 18.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

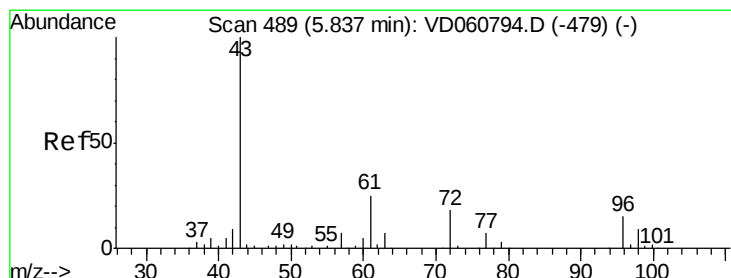
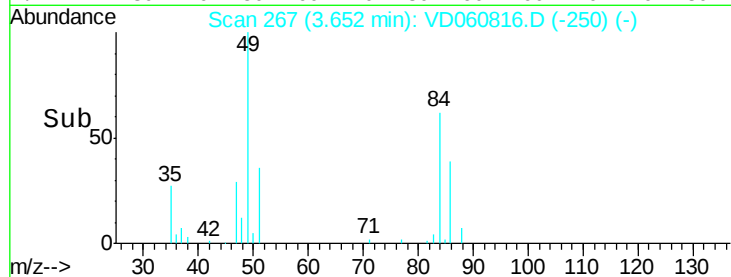
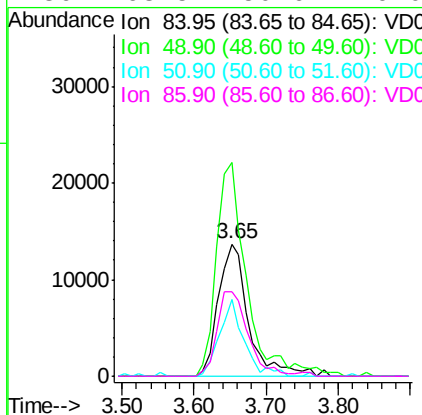
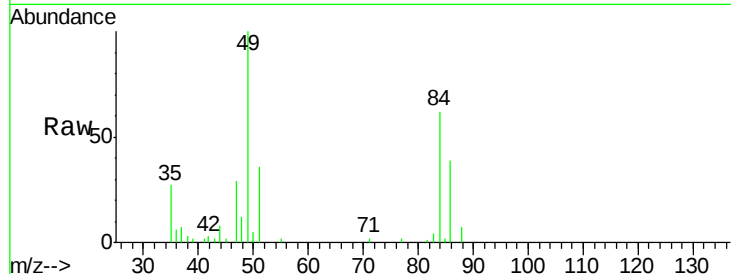




#20
Methvlene Chloride
Concen: 3.853 ug/l
RT: 3.65 min Scan# 267
Delta R.T. -0.03 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

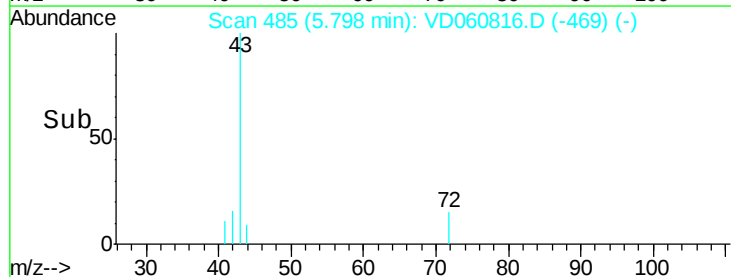
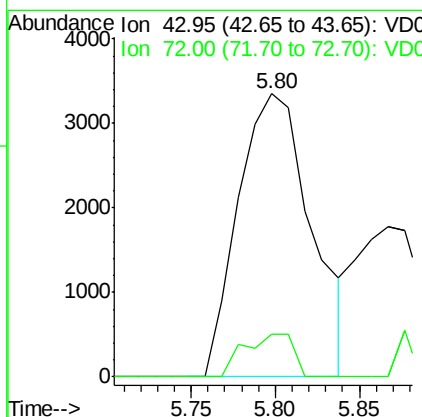
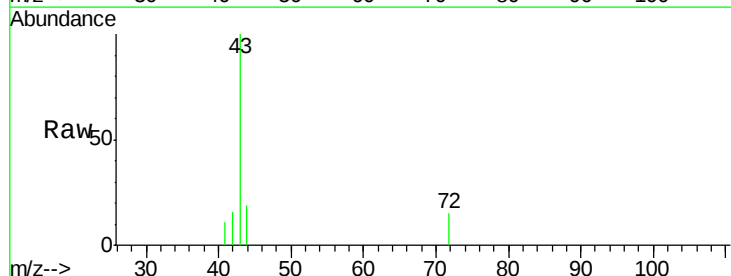
Instrument :
MSVOA_D
ClientSampleId :
OR-02-013119-A

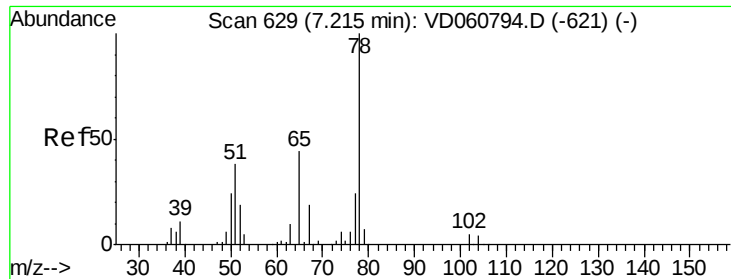
Tot Ion: 84 Resp: 39642
Ion Ratio Lower Upper
84 100
49 161.4 124.2 186.2
51 58.4 38.1 57.1#
86 63.5 50.6 76.0



#25
2-Butanone
Concen: 7.132 ug/l
RT: 5.80 min Scan# 485
Delta R.T. -0.04 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Tgt Ion: 43 Resp: 10086
Ion Ratio Lower Upper
43 100
72 15.2 14.4 21.6





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.18 min Scan# 625

Delta R.T. -0.04 min

Lab File: VD060816.D

Acq: 1 Feb 2019 13:46

Instrument :

MSVOA_D

ClientSampleId :

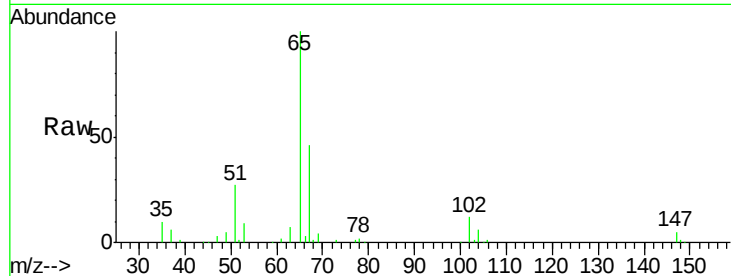
OR-02-013119-A

Tot Ion: 65 Resp: 318345

Ion Ratio Lower Upper

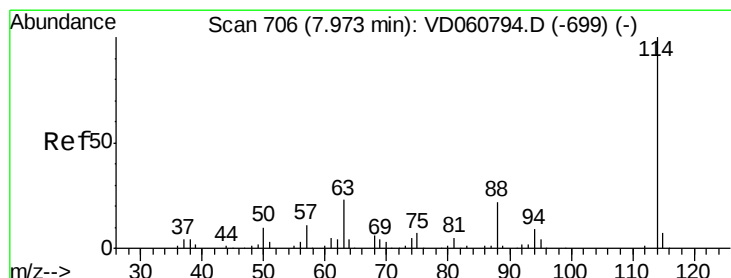
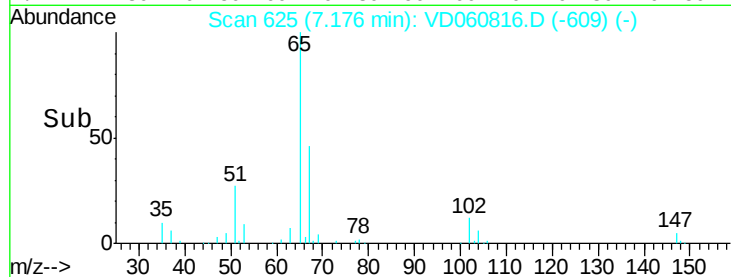
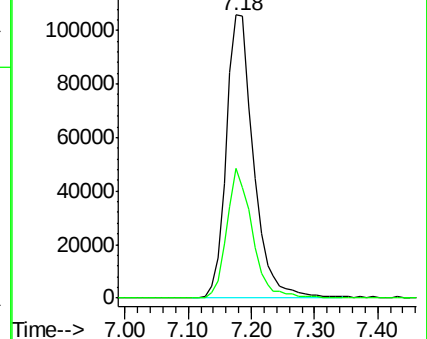
65 100

67 45.8 0.0 85.8



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: 7.94 min Scan# 703

Delta R.T. -0.03 min

Lab File: VD060816.D

Acq: 1 Feb 2019 13:46

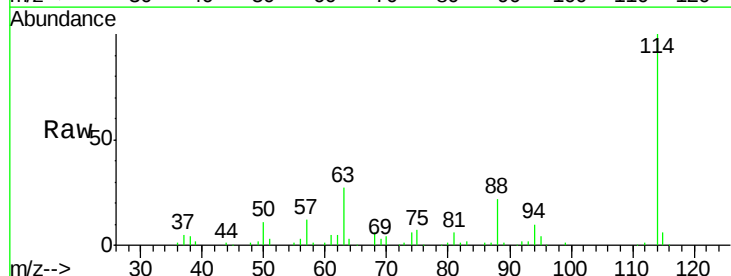
Tgt Ion: 114 Resp: 712063

Ion Ratio Lower Upper

114 100

63 26.6 0.0 46.6

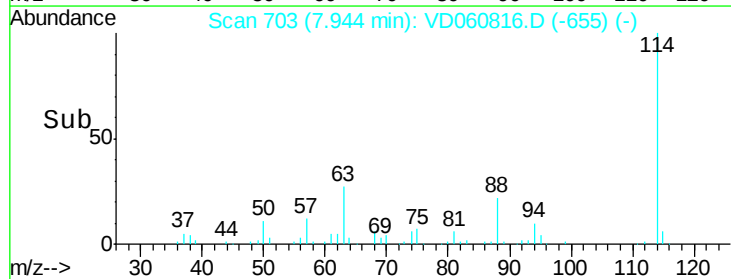
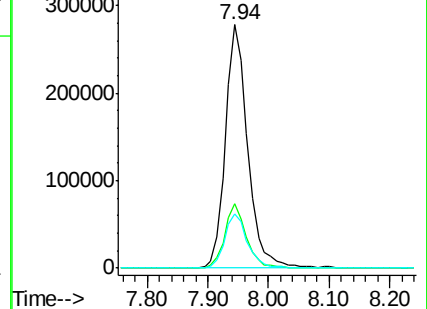
88 22.4 0.0 44.0

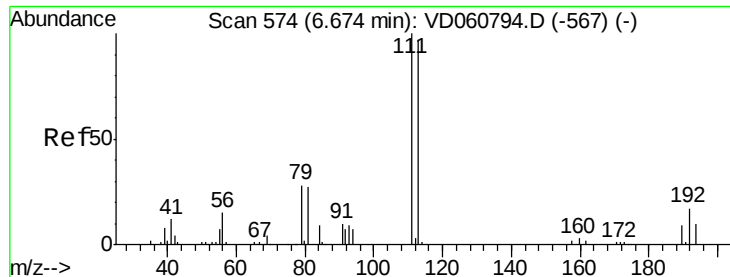


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.64 min Scan# 571

Delta R.T. -0.03 min

Lab File: VD060816.D

Acq: 1 Feb 2019 13:46

Instrument :

MSVOA_D

ClientSampleId :

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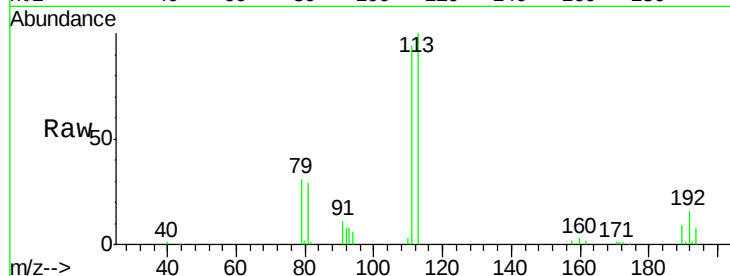
Tot Ion:113 Resp: 254995

Ion Ratio Lower Upper

113 100

111 94.4 82.3 123.5

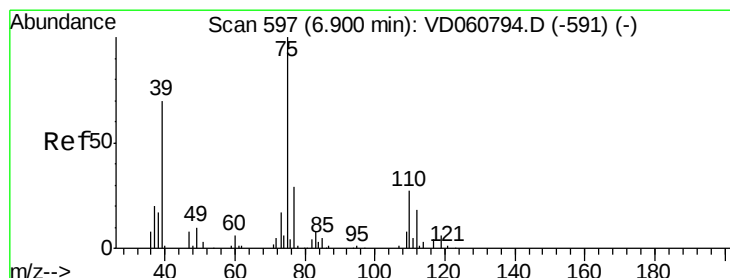
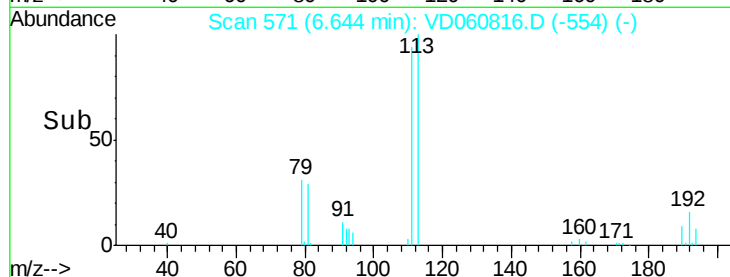
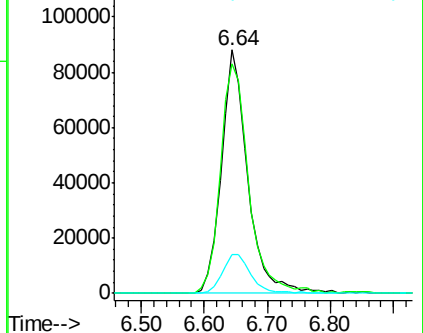
192 16.1 14.4 21.6



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.760 ug/l

RT: 6.75 min Scan# 582

Delta R.T. -0.15 min

Lab File: VD060816.D

Acq: 1 Feb 2019 13:46

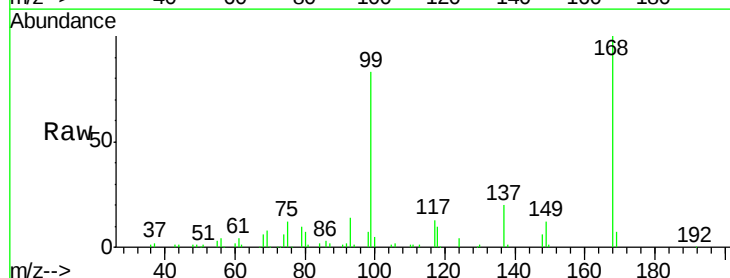
Tgt Ion: 75 Resp: 48975

Ion Ratio Lower Upper

75 100

110 8.5 13.5 40.4#

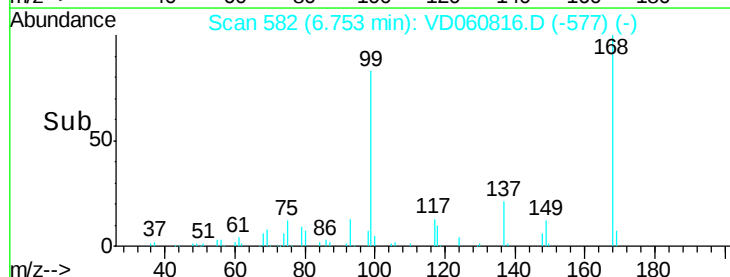
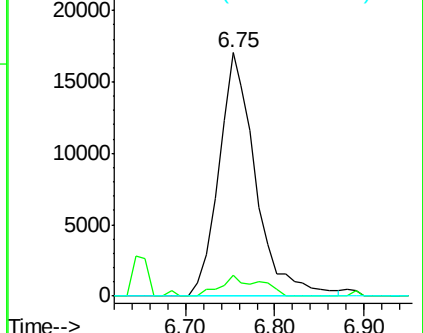
77 0.0 23.4 35.2#

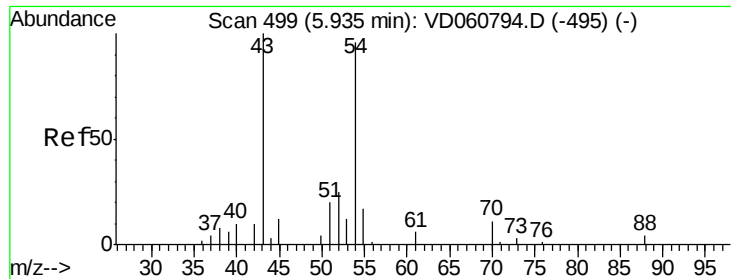


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

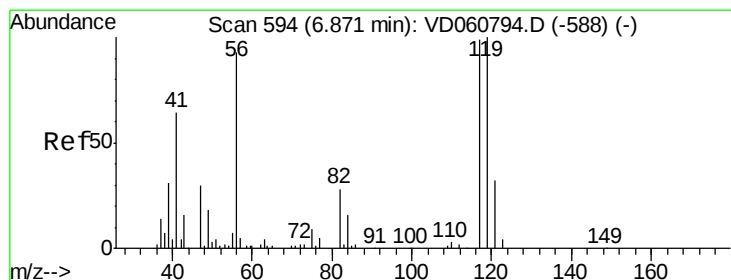
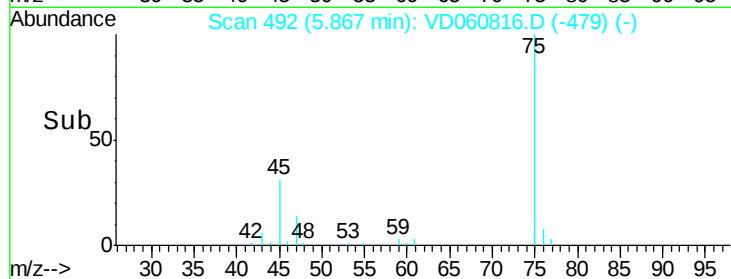
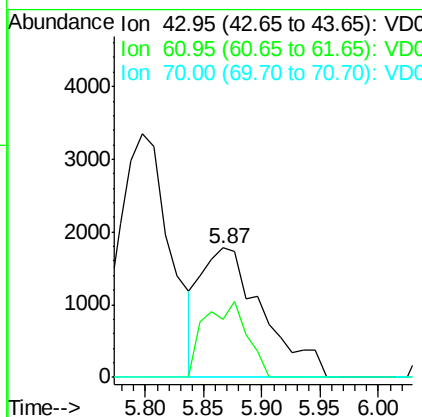
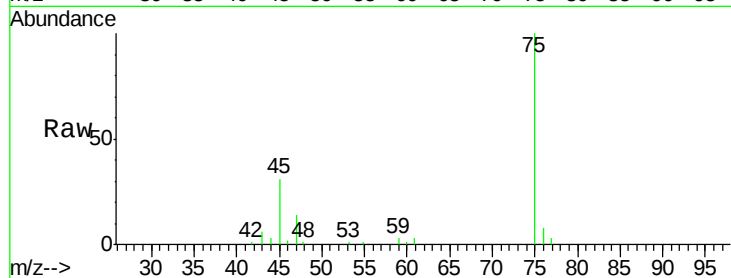




#37
Ethyl Acetate
Concen: 1.729 ug/l
RT: 5.87 min Scan# 492
Delta R.T. -0.07 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

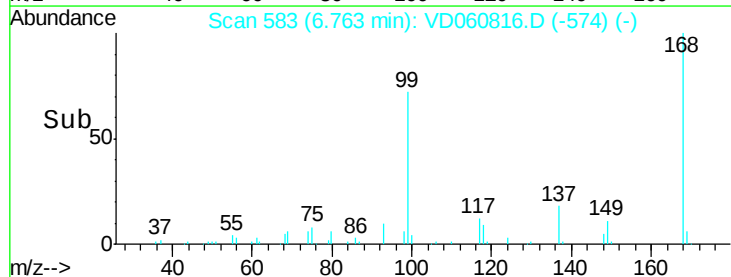
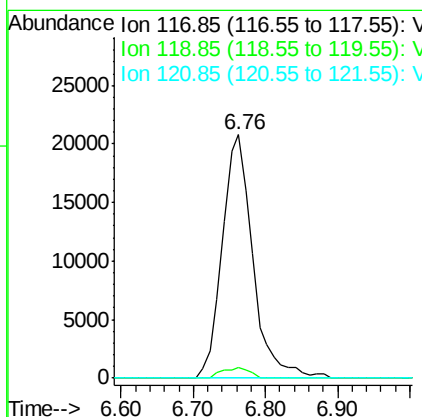
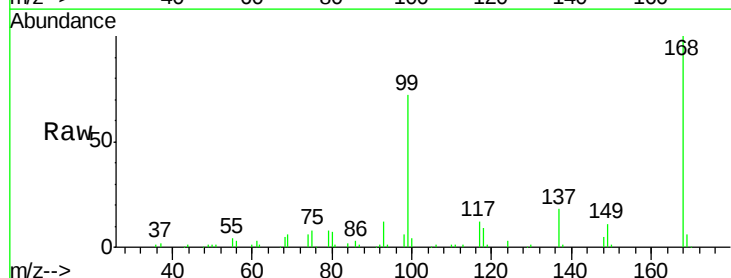
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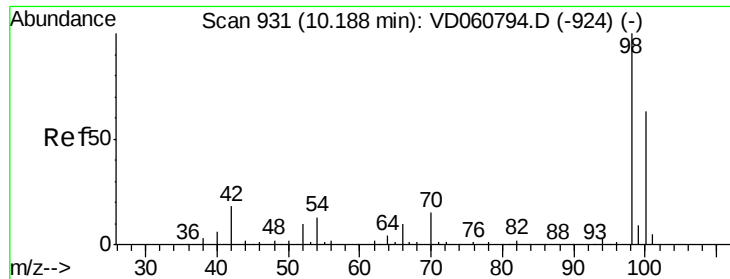
Tot Ion: 43 Resp: 6563
Ion Ratio Lower Upper
43 100
61 44.9 12.3 18.5#
70 0.0 7.4 11.0#



#38
Carbon Tetrachloride
Concen: 5.731 ug/l
RT: 6.76 min Scan# 583
Delta R.T. -0.11 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Tgt Ion: 117 Resp: 61098
Ion Ratio Lower Upper
117 100
119 4.2 75.6 113.4#
121 0.0 23.4 35.2#

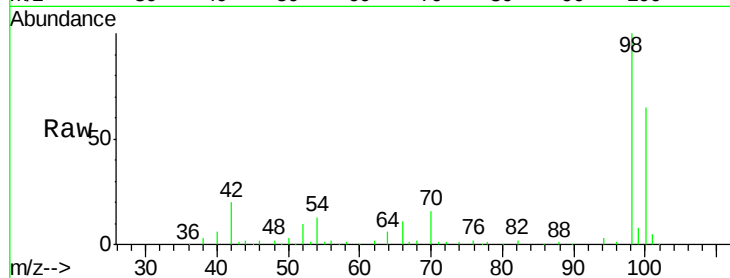




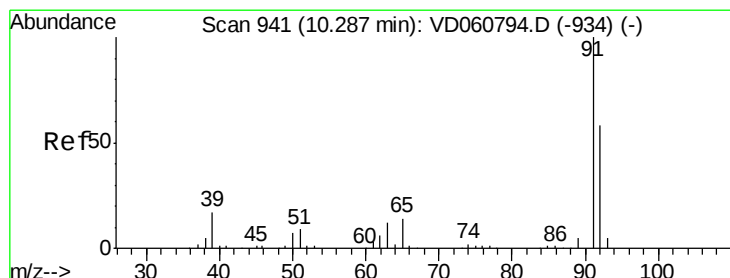
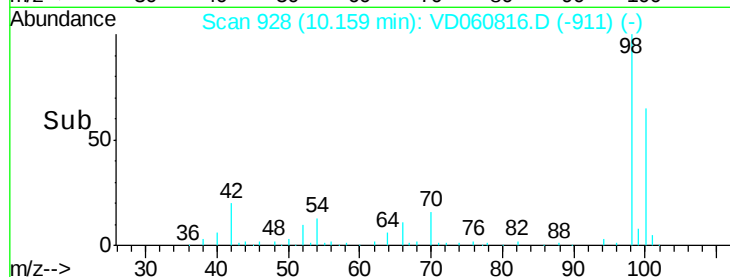
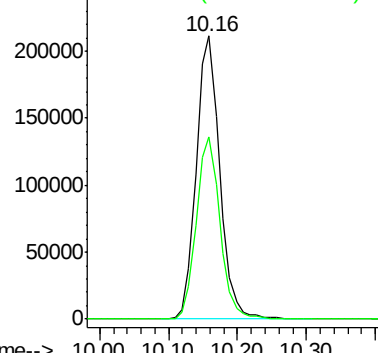
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.16 min Scan# 928
Delta R.T. -0.03 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Instrument :
MSVOA_D
ClientSampleId :
OR-02-013119-A

Tot Ion: 98 Resp: 499113
Ion Ratio Lower Upper
98 100
100 64.6 51.0 76.6

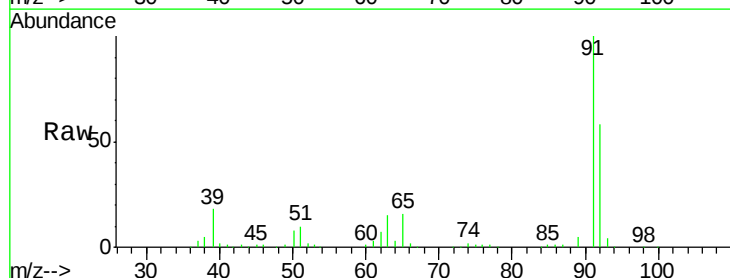


Abundance Ion 98.05 (97.75 to 98.75): VD060794.D (-924) (-)
Ion 100.05 (99.75 to 100.75): VD060794.D (-924) (-)

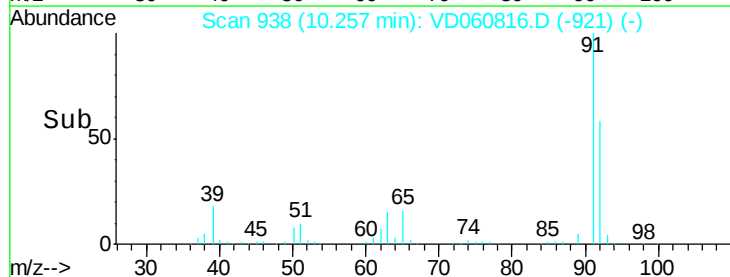
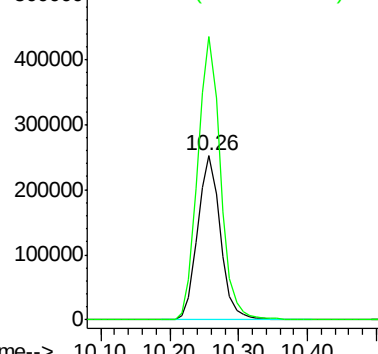


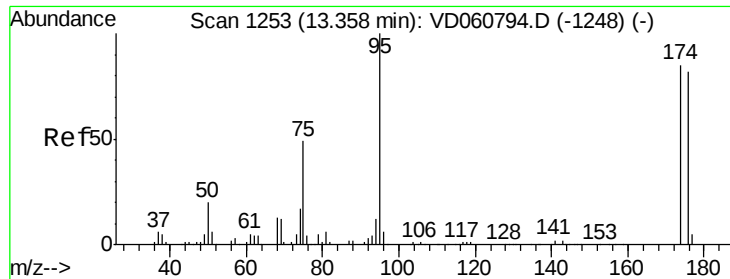
#52
Toluene
Concen: 54.462 ug/l
RT: 10.26 min Scan# 938
Delta R.T. -0.03 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Tgt Ion: 92 Resp: 579688
Ion Ratio Lower Upper
92 100
91 172.3 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VD060794.D (-934) (-)
Ion 91.00 (90.70 to 91.70): VD060794.D (-934) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.34 min Scan# 1251

Delta R.T. -0.02 min

Lab File: VD060816.D

Acq: 1 Feb 2019 13:46

Instrument :

MSVOA_D

ClientSampleId :

OR-02-013119-A

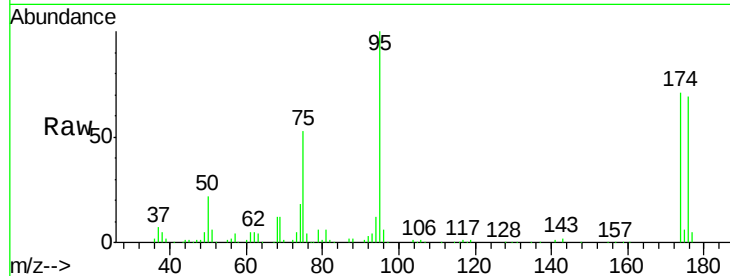
Tot Ion: 95 Resp: 224269

Ion Ratio Lower Upper

95 100

174 71.0 0.0 169.6

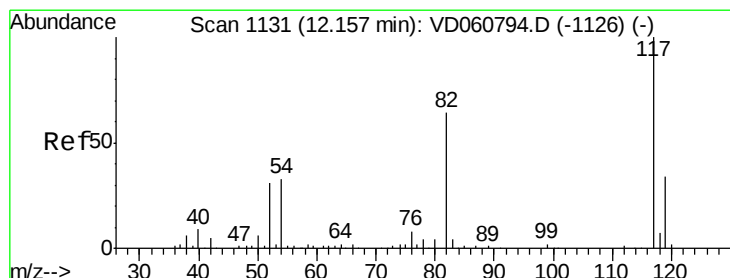
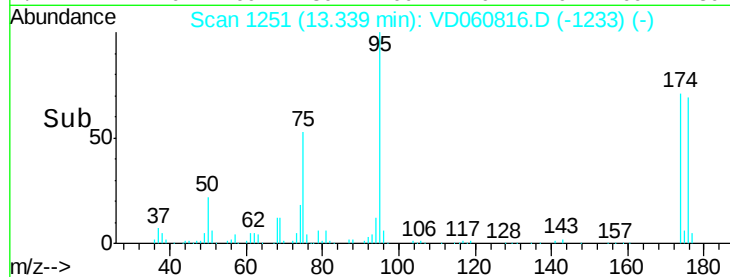
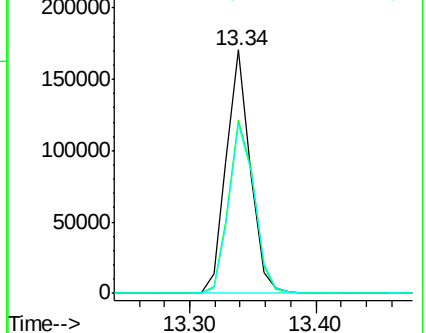
176 69.3 0.0 163.8



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: 12.14 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VD060816.D

Acq: 1 Feb 2019 13:46

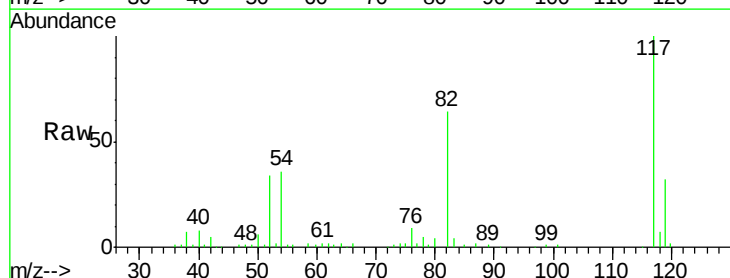
Tgt Ion: 117 Resp: 525170

Ion Ratio Lower Upper

117 100

82 64.0 51.5 77.3

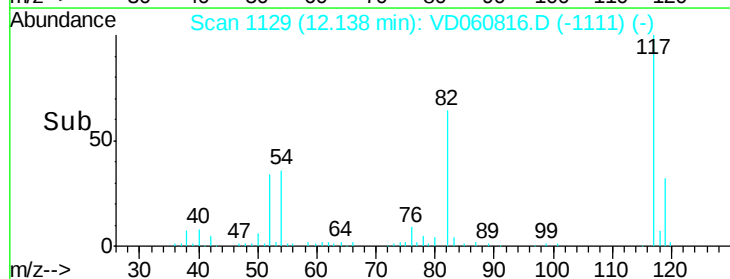
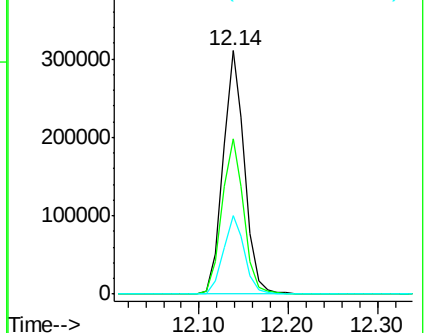
119 32.1 27.1 40.7

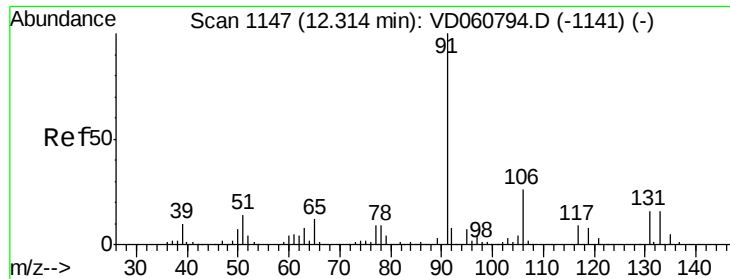


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

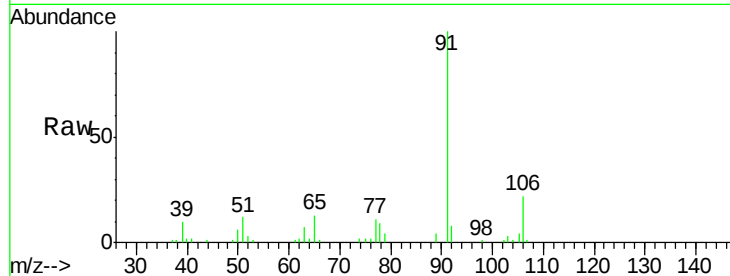




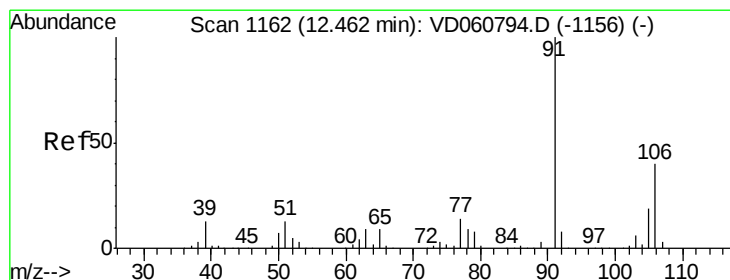
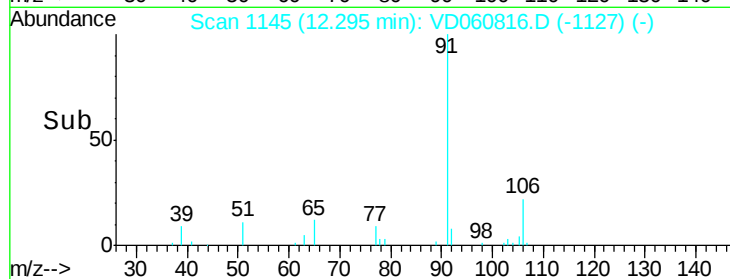
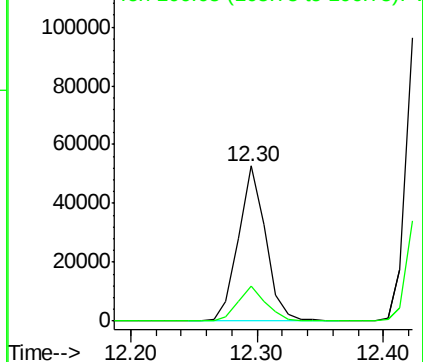
#67
Ethyl Benzene
Concen: 3.647 ug/l
RT: 12.30 min Scan# 1145
Delta R.T. -0.02 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Instrument :
MSVOA_D
ClientSampleId :
OR-02-013119-A

Tot Ion: 91 Resp: 78708
Ion Ratio Lower Upper
91 100
106 22.2 21.0 31.6

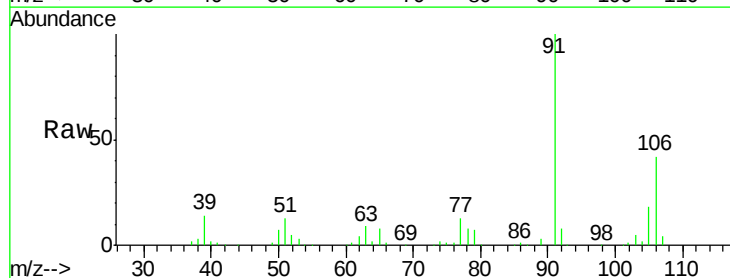


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

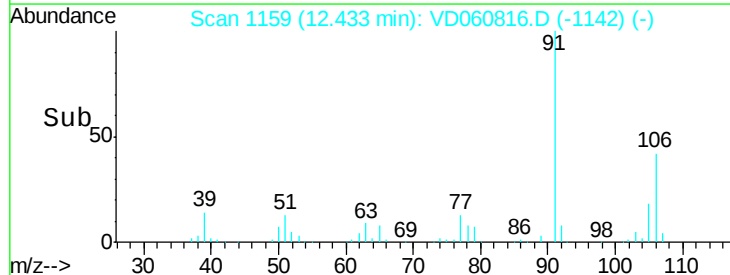
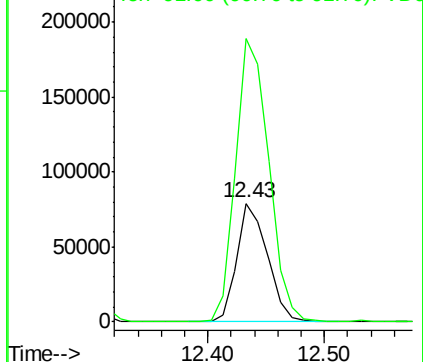


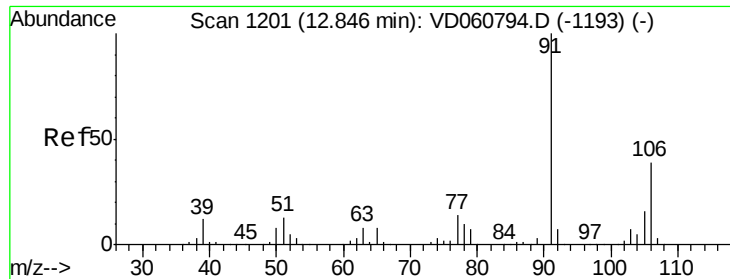
#68
m/p-Xylenes
Concen: 20.594 ug/l
RT: 12.43 min Scan# 1159
Delta R.T. -0.03 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Tgt Ion: 106 Resp: 144591
Ion Ratio Lower Upper
106 100
91 239.4 200.5 300.7



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

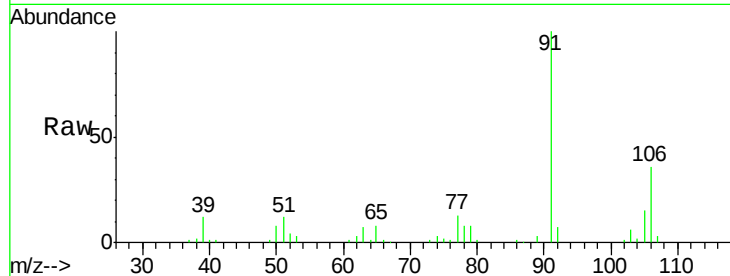




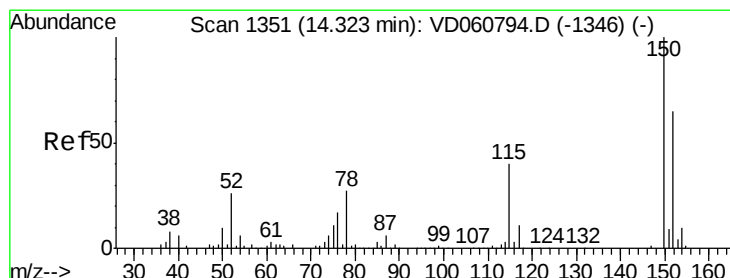
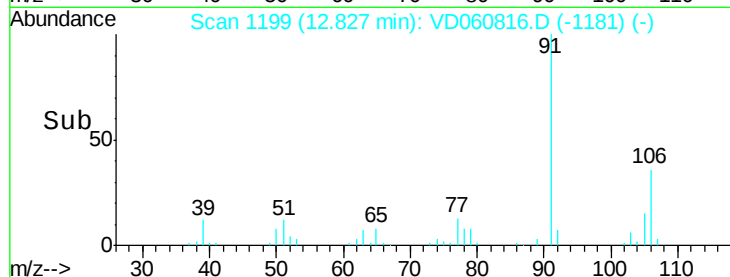
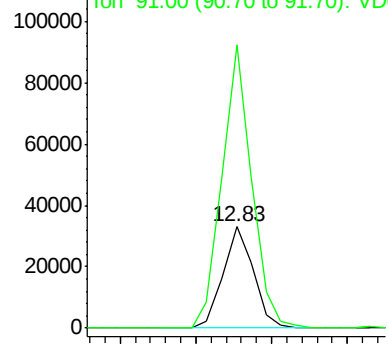
#69
o-Xylene
Concen: 6.701 ug/l
RT: 12.83 min Scan# 1199
Delta R.T. -0.02 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Instrument :
MSVOA_D
ClientSampleID :
OR-02-013119-A

Tot Ion:106 Resp: 46563
Ion Ratio Lower Upper
106 100
91 279.2 127.6 382.7

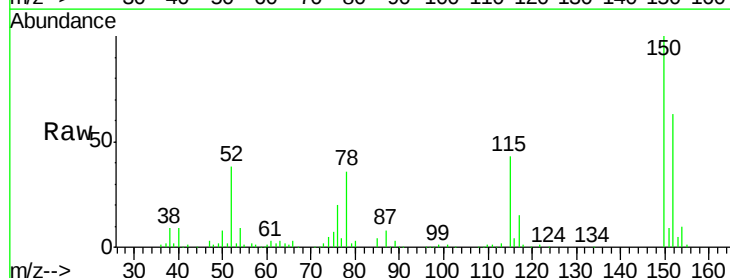


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

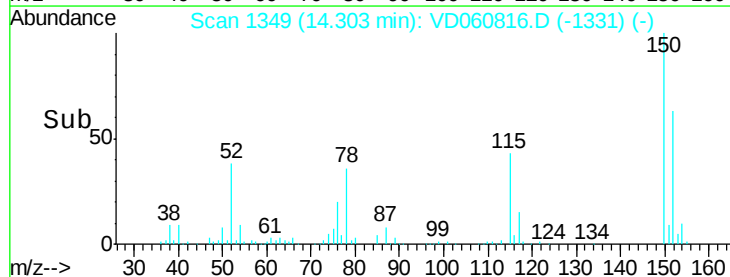
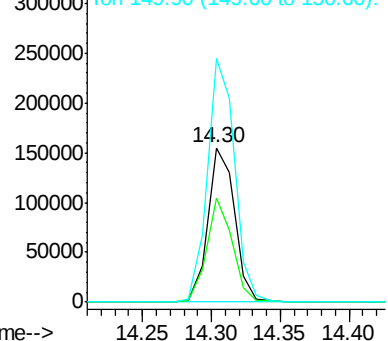


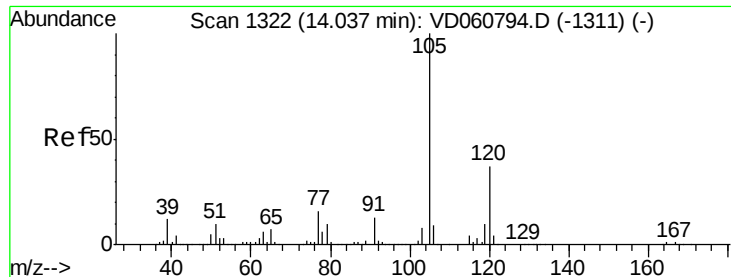
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.30 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VD060816.D
Acq: 1 Feb 2019 13:46

Tgt Ion:152 Resp: 210087
Ion Ratio Lower Upper
152 100
115 67.8 31.6 95.0
150 157.9 0.0 317.6



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

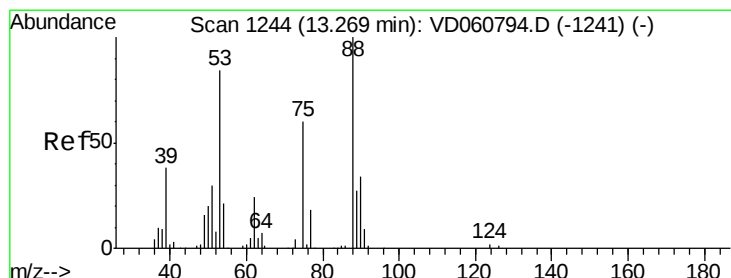
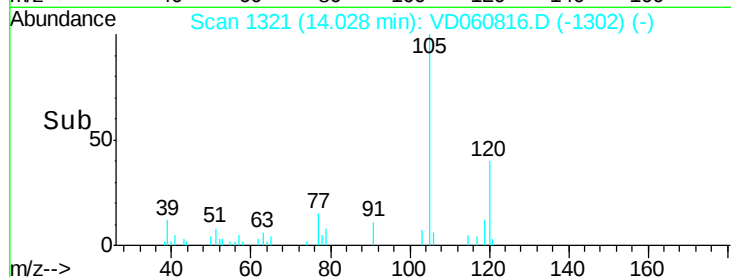
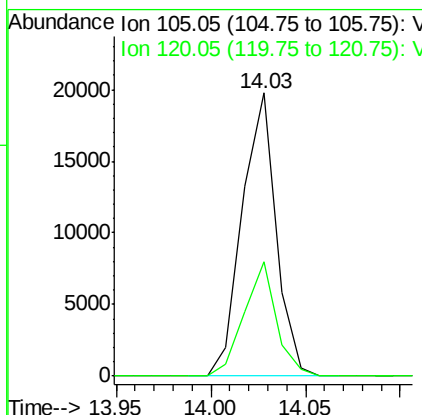
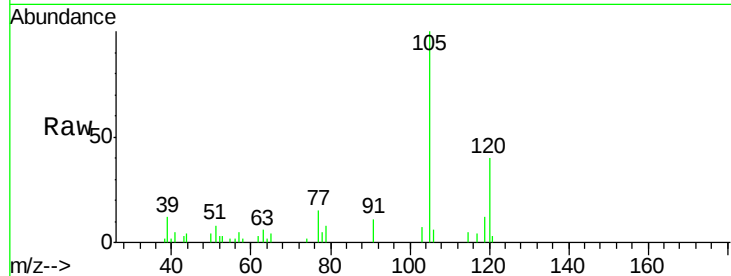




#80
 1,3,5-Trimethylbenzene
 Concen: 1.698 ug/l
 RT: 14.03 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VD060816.D
 Acq: 1 Feb 2019 13:46

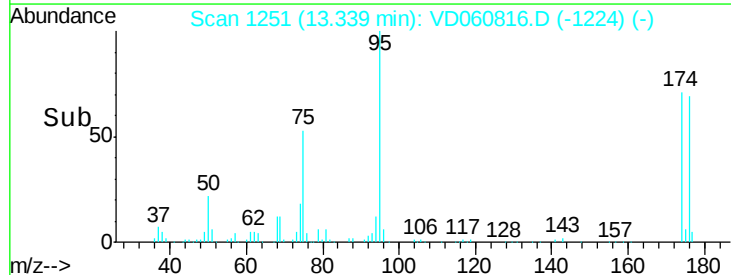
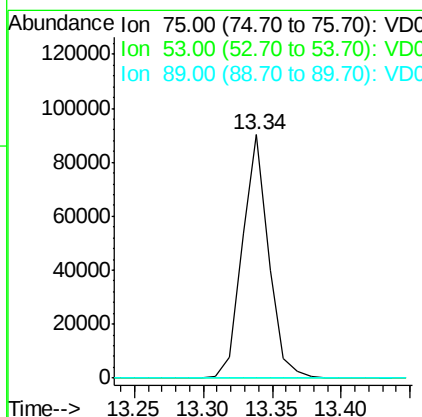
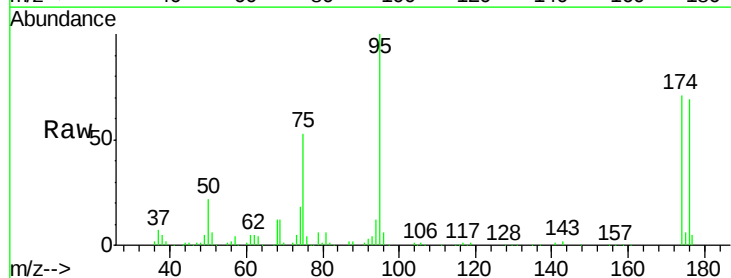
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-013119-A

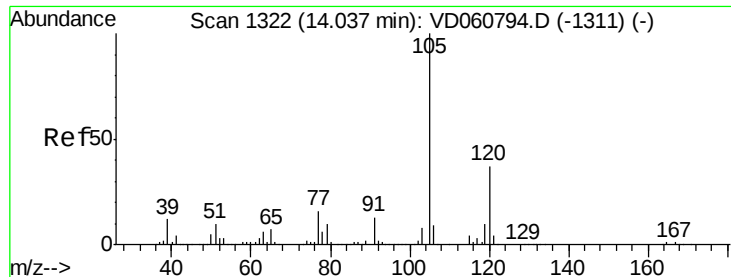
Tot Ion:105 Resp: 24491
 Ion Ratio Lower Upper
 105 100
 120 40.3 18.4 55.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 119.352 ug/l
 RT: 13.34 min Scan# 1251
 Delta R.T. 0.07 min
 Lab File: VD060816.D
 Acq: 1 Feb 2019 13:46

Tgt Ion: 75 Resp: 119875
 Ion Ratio Lower Upper
 75 100
 53 0.0 111.6 167.4#
 89 0.0 35.9 53.9#

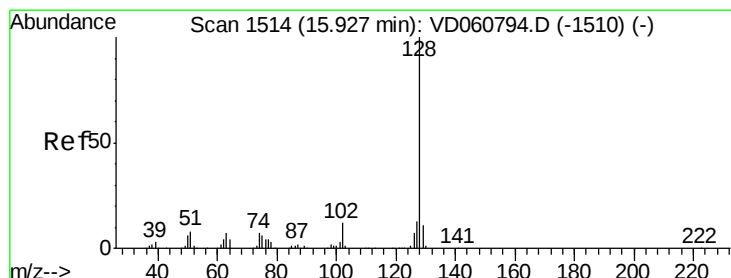
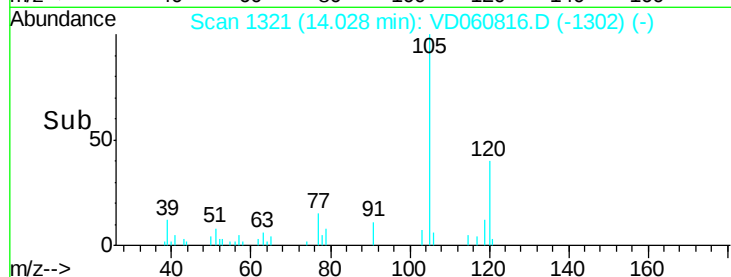
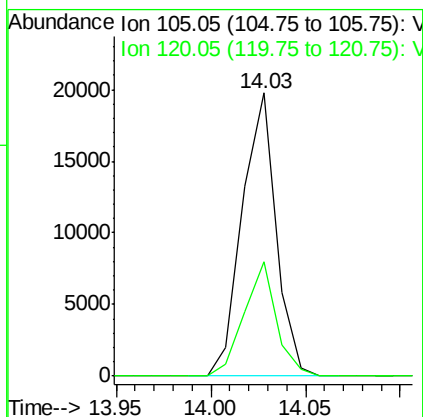
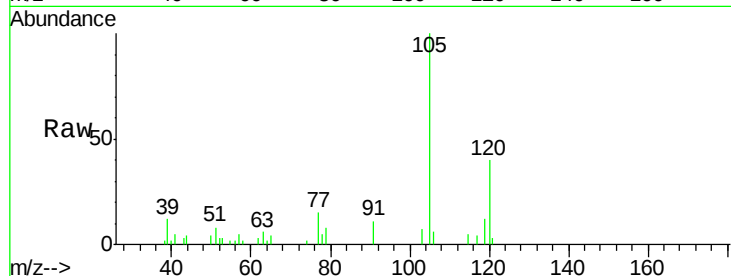




#84
 1,2,4-Trimethylbenzene
 Concen: 1.698 ug/l
 RT: 14.03 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VD060816.D
 Acq: 1 Feb 2019 13:46

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-013119-A

Tot Ion:105 Resp: 24491
 Ion Ratio Lower Upper
 105 100
 120 40.3 18.4 55.2



#95
 Naphthalene
 Concen: 5.462 ug/l
 RT: 15.92 min Scan# 1513
 Delta R.T. -0.01 min
 Lab File: VD060816.D
 Acq: 1 Feb 2019 13:46

Tgt Ion:128 Resp: 46450
 Ion Ratio Lower Upper
 128 100
 127 14.9 10.4 15.6
 129 11.8 8.7 13.1

