

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061719\
 Data File : VD062733.D
 Acq On : 17 Jun 2019 18:12
 Operator : VA/AP
 Sample : K3154-09
 Misc : 7.08g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-061419-E

Quant Time: Jun 18 06:24:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	586965	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	839869	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	642683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	273872	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	326492	38.55	ug/l	-0.01
Spiked Amount			Recovery	=	77.10%	
35) Dibromofluoromethane	6.91	113	341083	38.51	ug/l	0.00
Spiked Amount			Recovery	=	77.02%	
50) Toluene-d8	10.40	98	548540	29.44	ug/l	-0.01
Spiked Amount			Recovery	=	58.88%	
62) 4-Bromofluorobenzene	13.55	95	252222	29.01	ug/l	0.00
Spiked Amount			Recovery	=	58.02%	

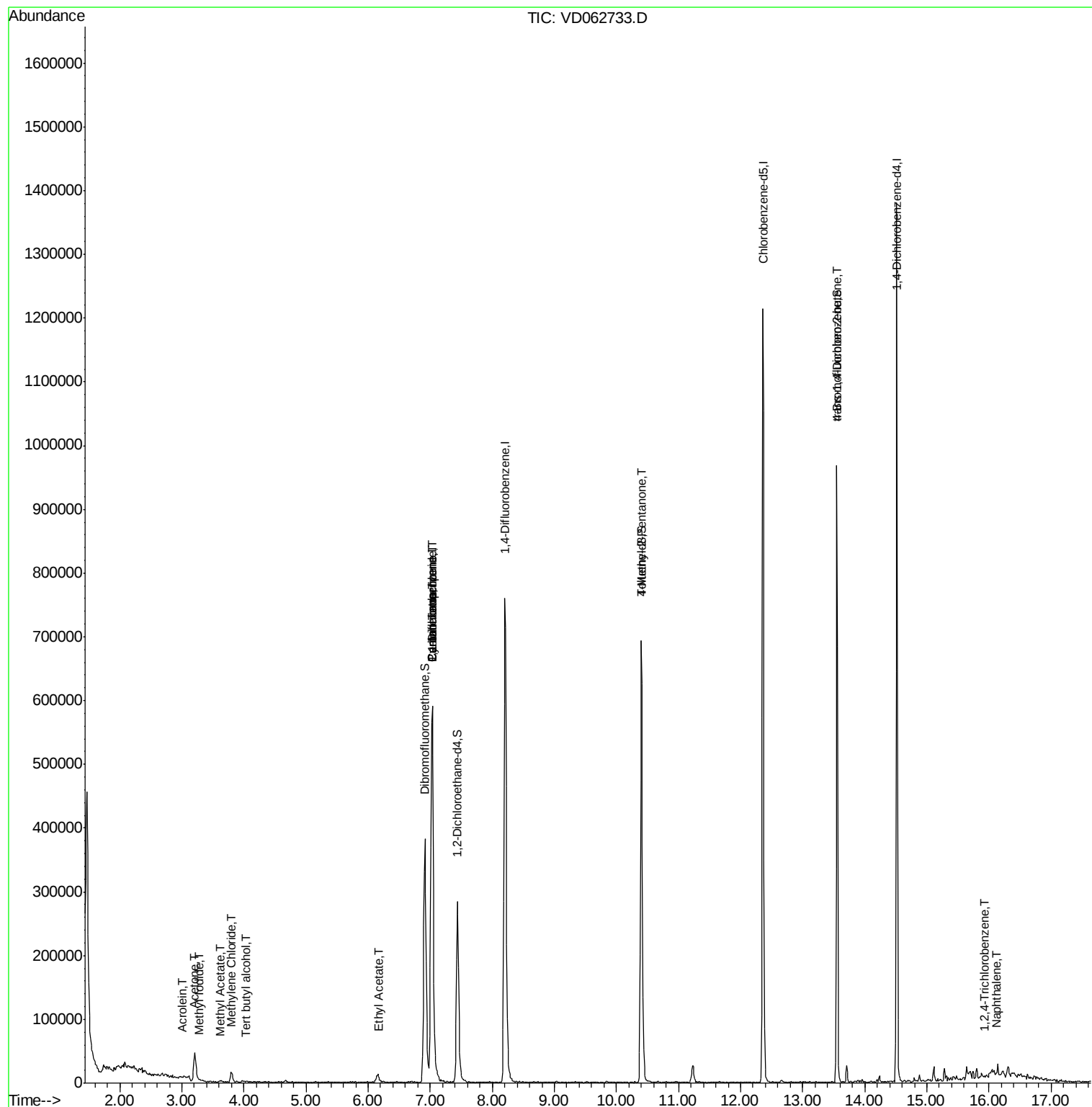
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.29	142	304	4.035	ug/l #	24
11) Tert butyl alcohol	4.04	59	1678	4.820	ug/l #	61
13) Acrolein	3.01	56	305	2.723	ug/l #	12
16) Acetone	3.21	43	92205	59.450	ug/l #	91
18) Methyl Acetate	3.62	43	4589	1.800	ug/l #	90
20) Methylene Chloride	3.79	84	9907	1.260	ug/l #	89
31) Cyclohexane	7.02	56	13907	2.081	ug/l #	11
36) 1,1-Dichloropropene	7.02	75	46375	4.825	ug/l #	50
37) Ethyl Acetate	6.18	43	1035	1.447	ug/l #	74
38) Carbon Tetrachloride	7.03	117	59914	3.943	ug/l #	16
51) 4-Methyl-2-Pentanone	10.40	43	3804	1.072	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	122344	106.337	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.93	180	273	3.604	ug/l #	11
95) Naphthalene	16.12	128	3315	3.760	ug/l #	89

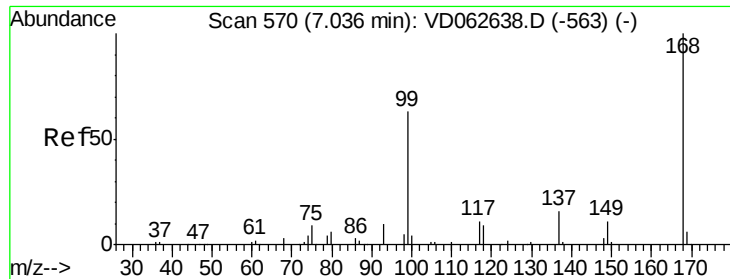
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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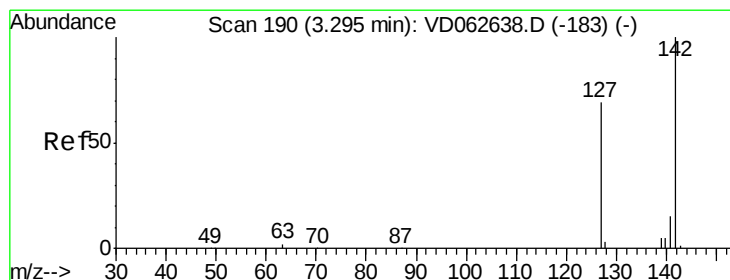
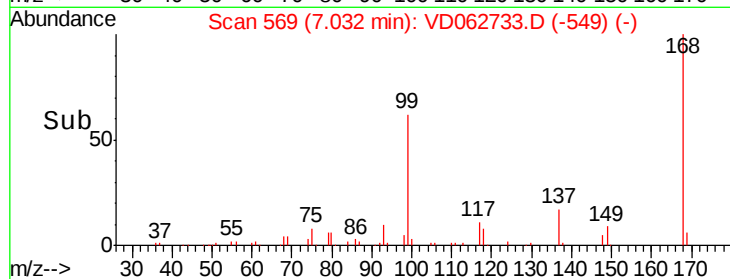
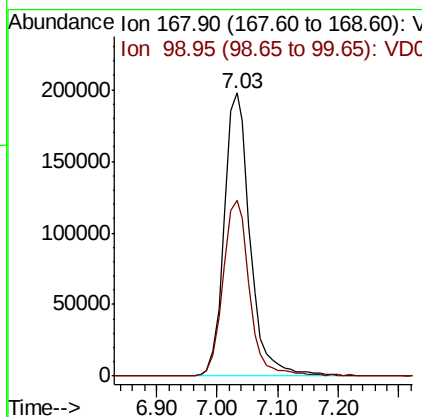
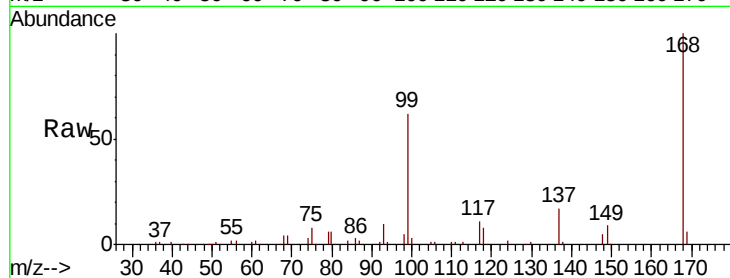




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.03 min Scan# 569
Delta R.T. -0.00 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

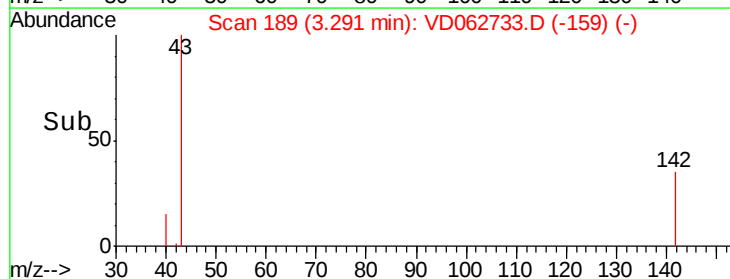
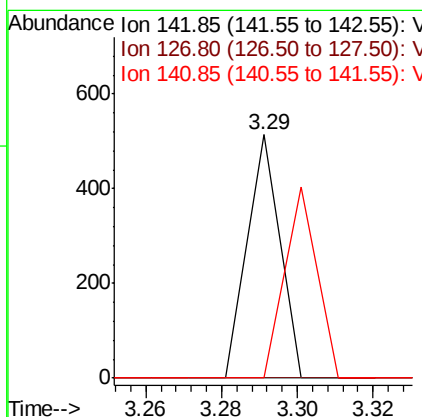
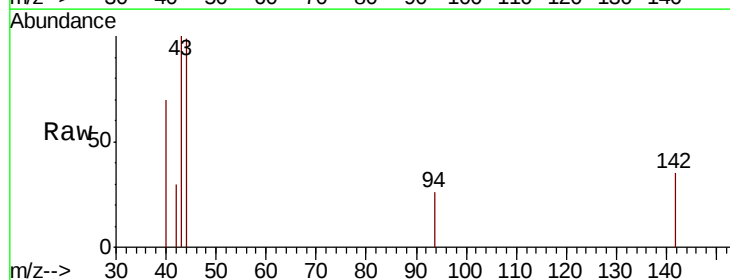
Instrument :
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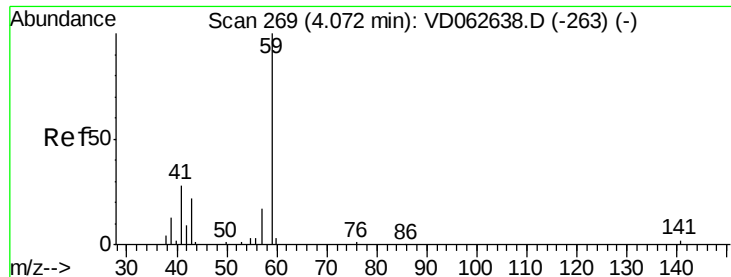
Tot Ion:168 Resp: 586965
Ion Ratio Lower Upper
168 100
99 62.0 51.4 77.2



#10
Methyl Iodide
Concen: 4.035 ug/l
RT: 3.29 min Scan# 189
Delta R.T. -0.00 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Tgt Ion:142 Resp: 304
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

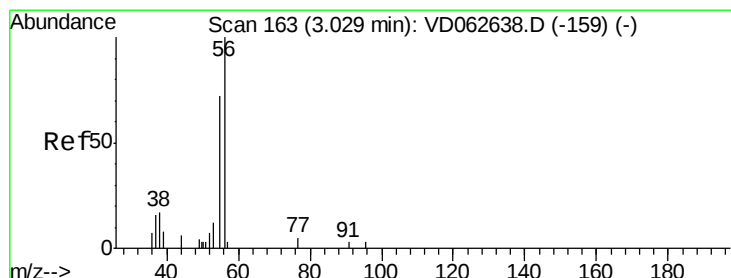
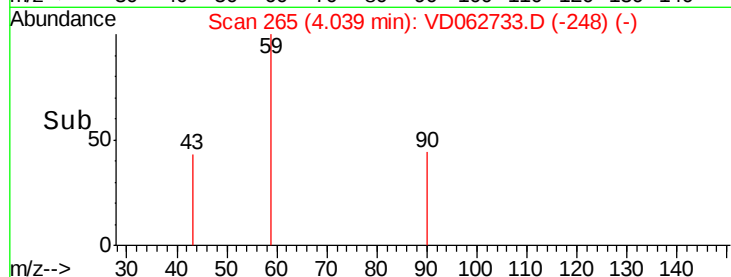
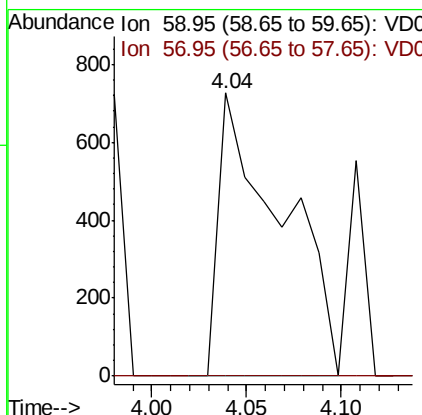
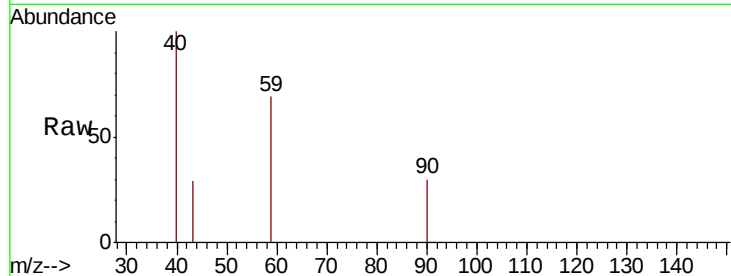




#11
Tert butyl alcohol
Concen: 4.820 ug/l
RT: 4.04 min Scan# 265
Delta R.T. -0.03 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

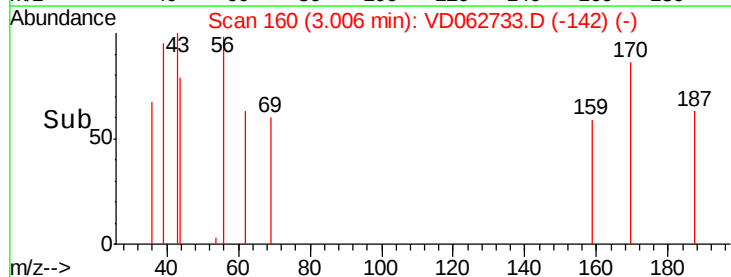
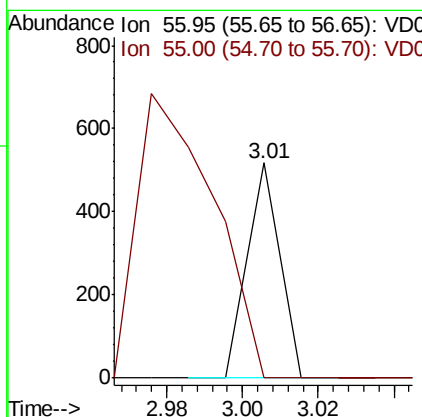
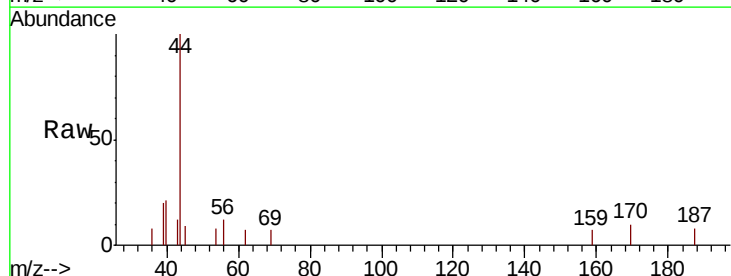
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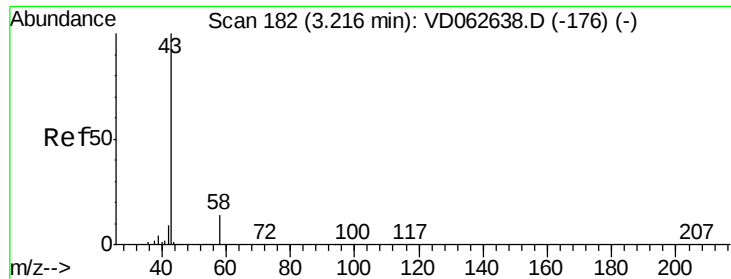
Tot Ion: 59 Resp: 1678
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#



#13
Acrolein
Concen: 2.723 ug/l
RT: 3.01 min Scan# 160
Delta R.T. -0.02 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Tgt Ion: 56 Resp: 305
Ion Ratio Lower Upper
56 100
55 0.0 59.4 89.0#

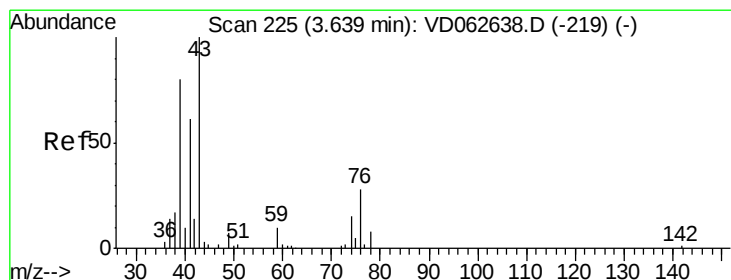
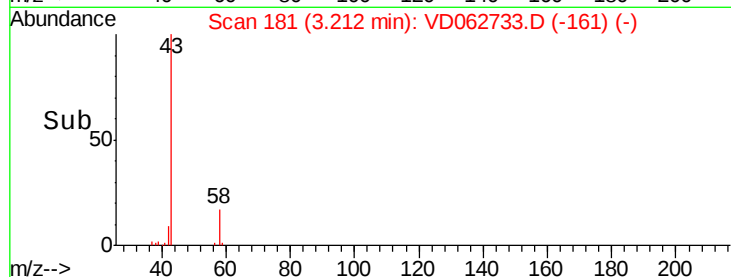
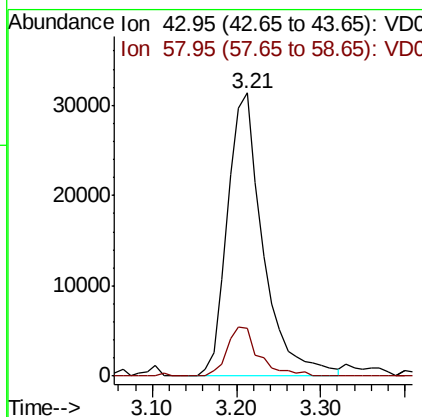
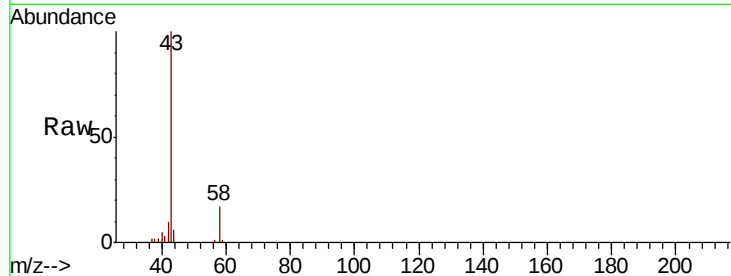




#16
Acetone
Concen: 59.450 ug/l
RT: 3.21 min Scan# 181
Delta R.T. -0.00 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

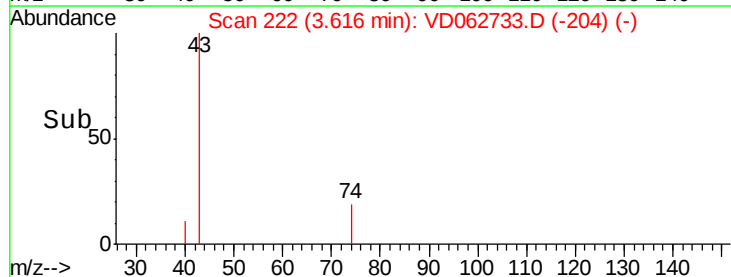
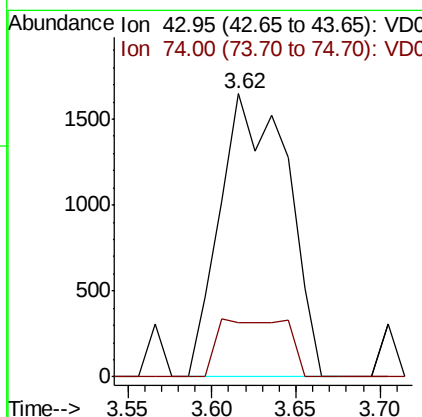
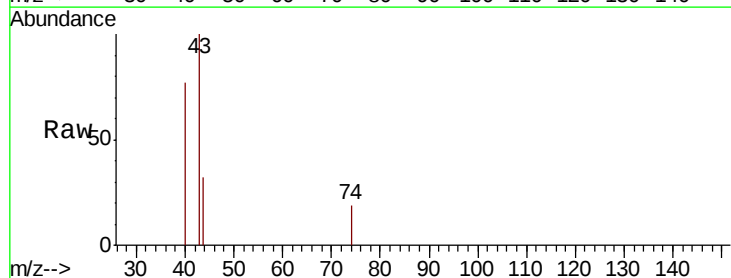
Instrument :
MSVOA_D
ClientSampleId :
JC-02-061419-E

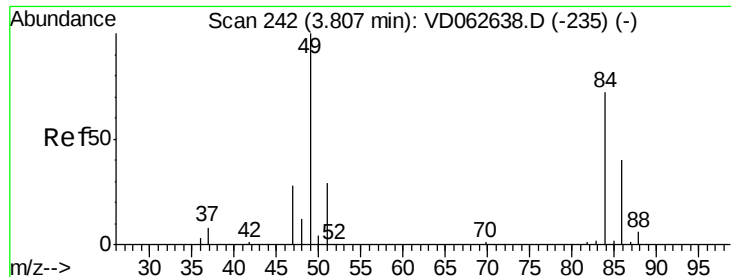
Tot Ion: 43 Resp: 92205
Ion Ratio Lower Upper
43 100
58 16.9 10.8 16.2#



#18
Methyl Acetate
Concen: 1.800 ug/l
RT: 3.62 min Scan# 222
Delta R.T. -0.02 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Tgt Ion: 43 Resp: 4589
Ion Ratio Lower Upper
43 100
74 19.1 12.1 18.1#

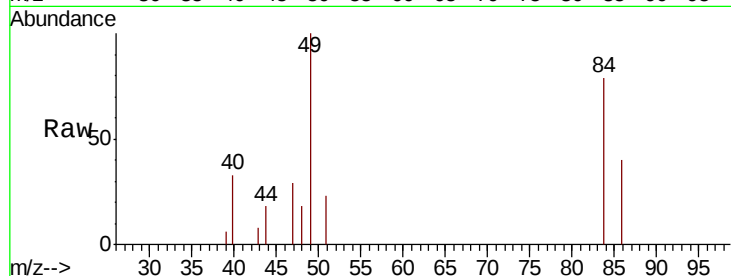




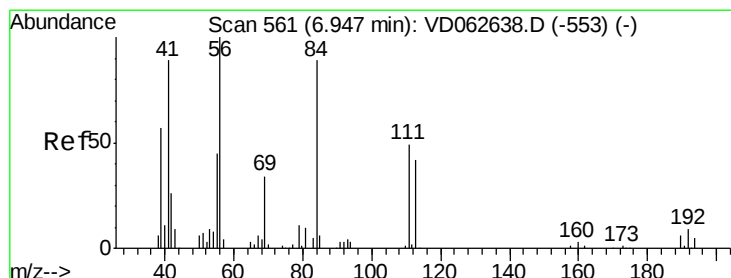
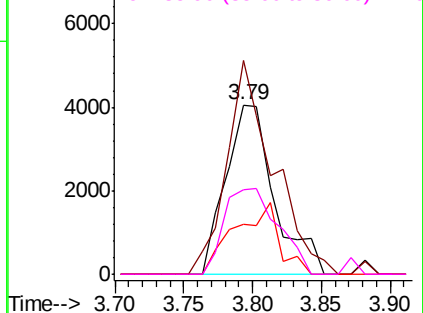
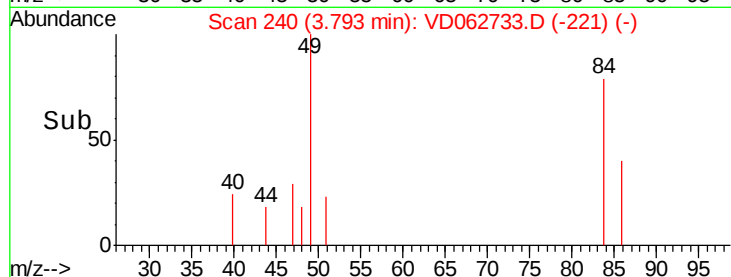
#20
Methvlene Chloride
Concen: 1.260 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.01 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Instrument :
MSVOA_D
ClientSampleId :
JC-02-061419-E

Tot Ion: 84 Resp: 9907
Ion Ratio Lower Upper
84 100
49 126.3 111.2 166.8
51 29.4 31.9 47.9#
86 50.2 44.7 67.1

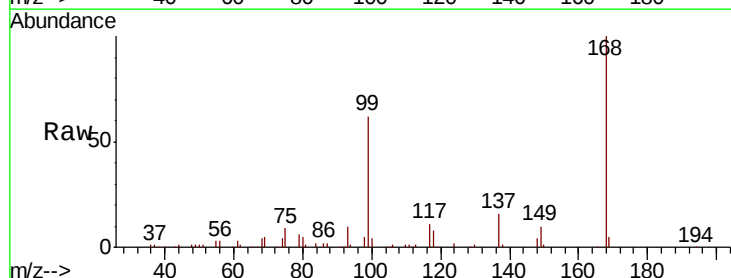


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

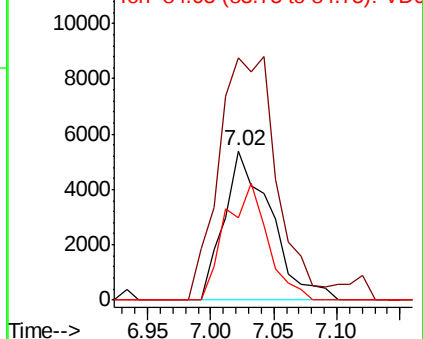
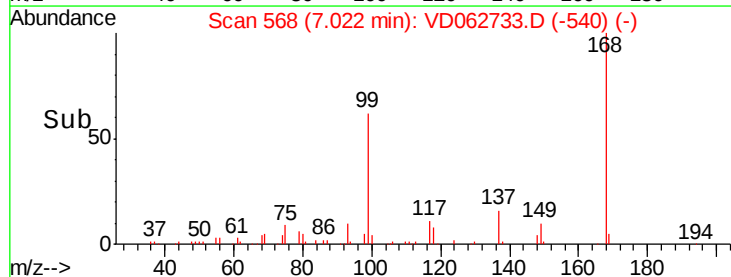


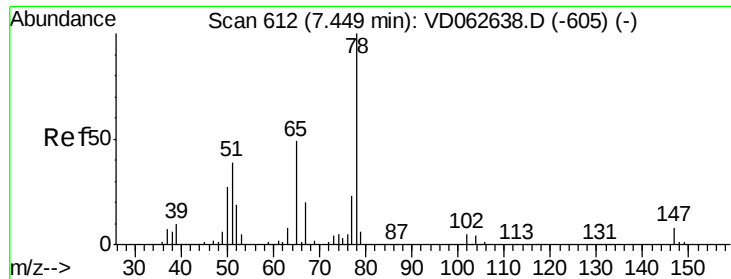
#31
Cyclohexane
Concen: 2.081 ug/l
RT: 7.02 min Scan# 568
Delta R.T. 0.08 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Tgt Ion: 56 Resp: 13907
Ion Ratio Lower Upper
56 100
69 162.3 26.8 40.2#
84 55.1 73.9 110.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 38.548 ug/l

RT: 7.44 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD062733.D

Acq: 17 Jun 2019 18:12

Instrument :

MSVOA_D

ClientSampleId :

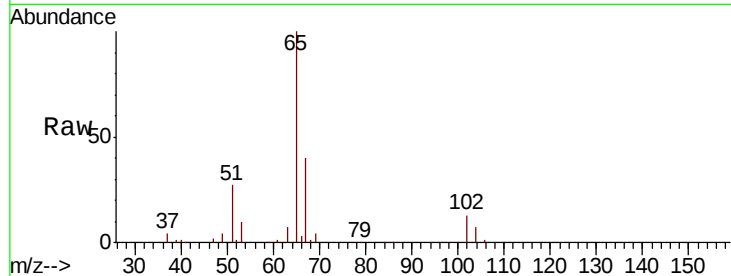
JC-02-061419-E

Tot Ion: 65 Resp: 326492

Ion Ratio Lower Upper

65 100

67 40.4 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

150000

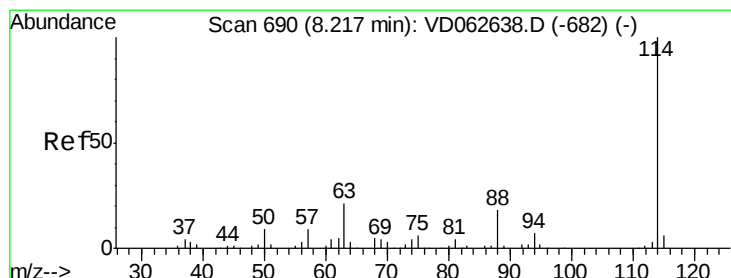
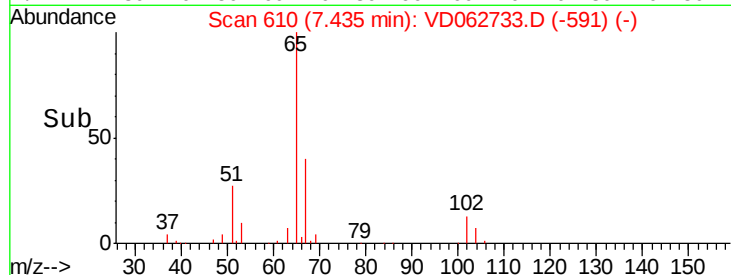
100000

50000

0

7.30 7.40 7.50 7.60

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 688

Delta R.T. -0.01 min

Lab File: VD062733.D

Acq: 17 Jun 2019 18:12

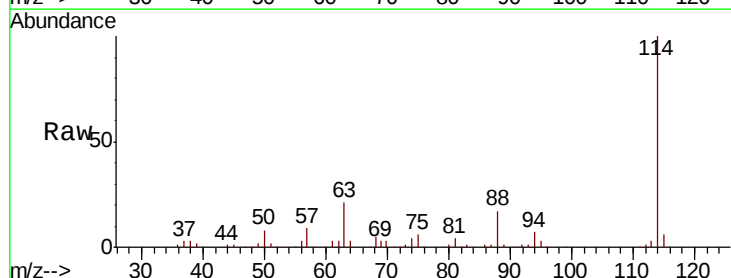
Tgt Ion: 114 Resp: 839869

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.4

88 17.4 0.0 36.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.20

400000

300000

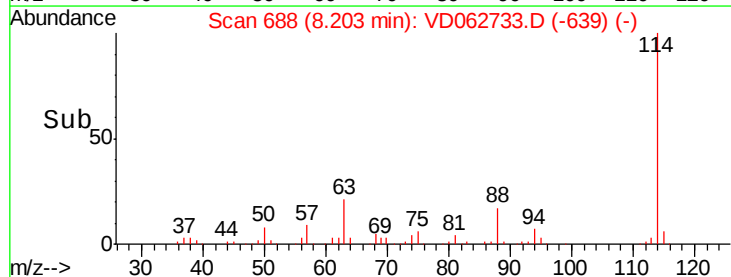
200000

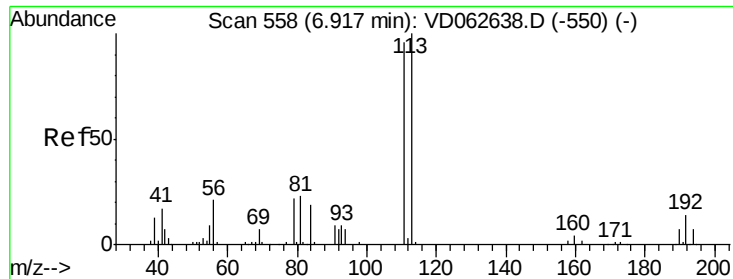
100000

0

8.10 8.20 8.30 8.40

Time-->





#35

Dibromofluoromethane

Concen: 38.508 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.00 min

Lab File: VD062733.D

Acq: 17 Jun 2019 18:12

Instrument :

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ClientSampleId :

JC-02-061419-E

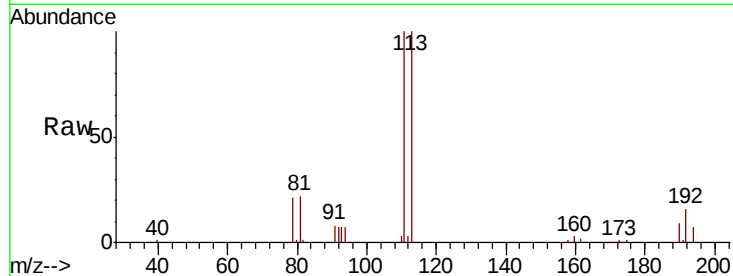
Tot Ion:113 Resp: 341083

Ion Ratio Lower Upper

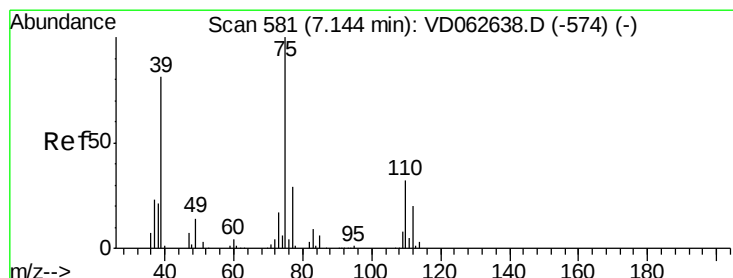
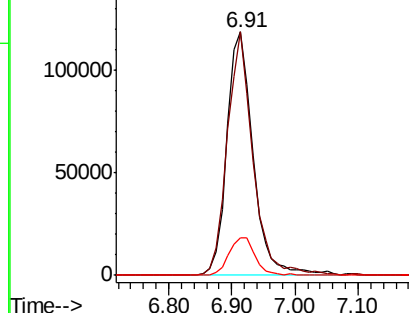
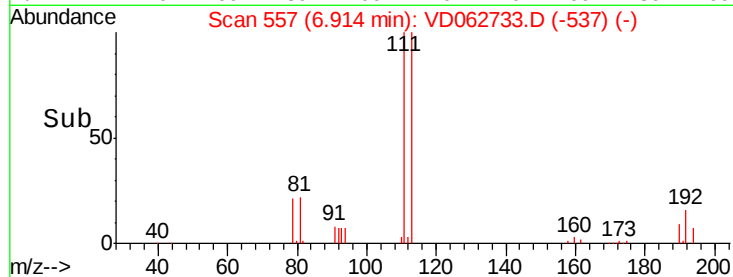
113 100

111 100.1 76.4 114.6

192 15.6 11.4 17.0



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: 4.825 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.12 min

Lab File: VD062733.D

Acq: 17 Jun 2019 18:12

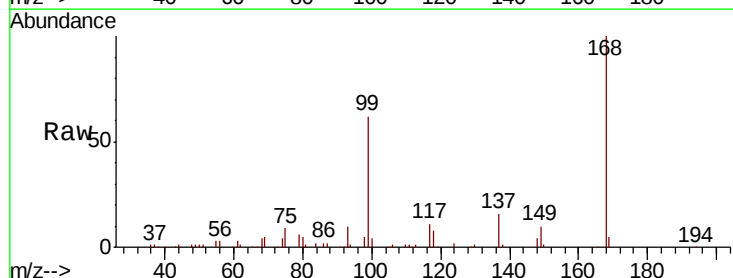
Tgt Ion: 75 Resp: 46375

Ion Ratio Lower Upper

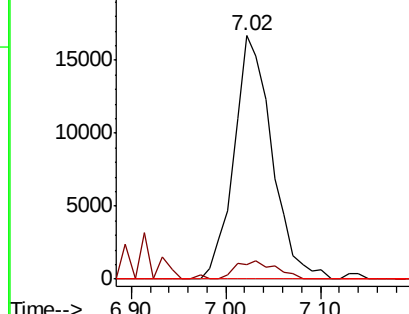
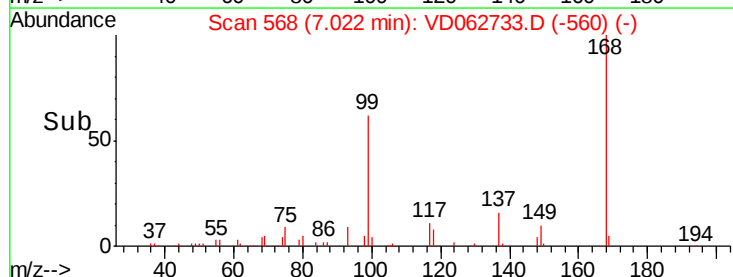
75 100

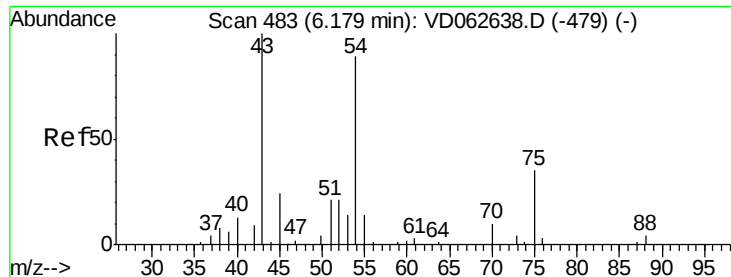
110 6.1 15.9 47.7#

77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V

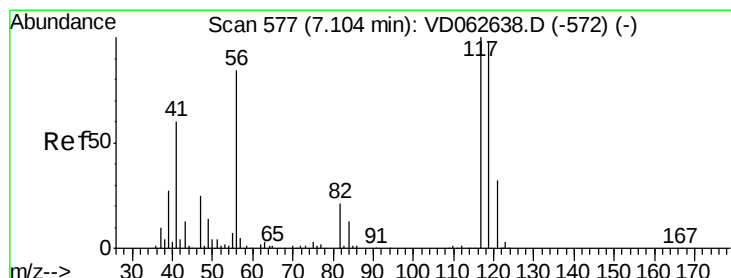
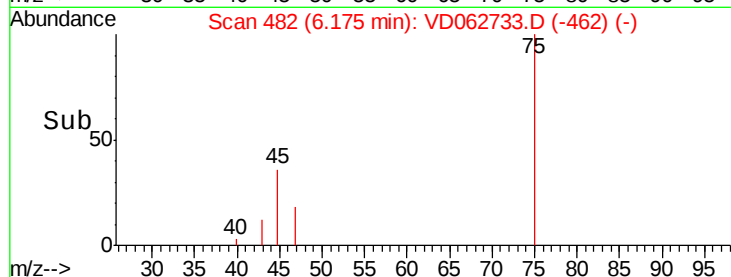
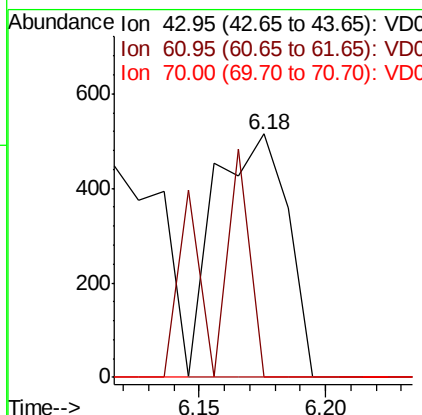
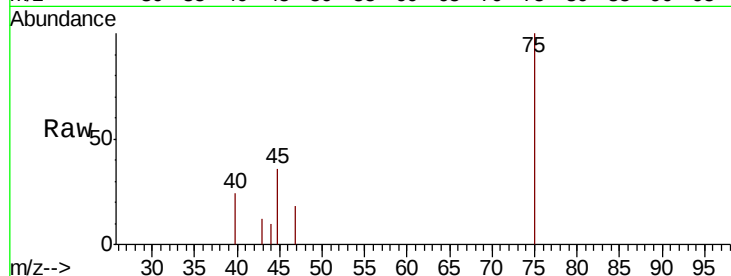




#37
Ethyl Acetate
Concen: 1.447 ug/l
RT: 6.18 min Scan# 482
Delta R.T. -0.00 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

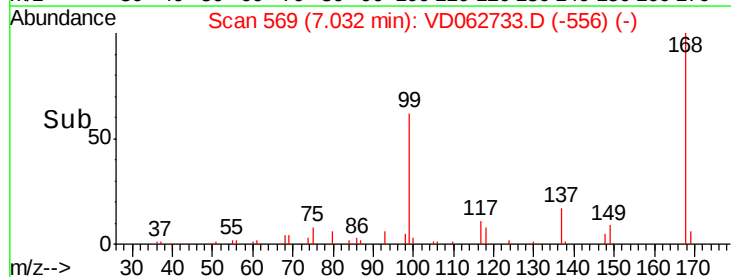
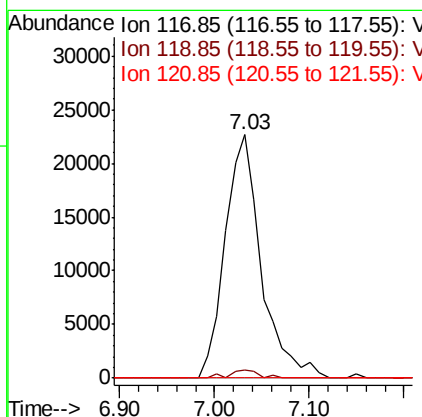
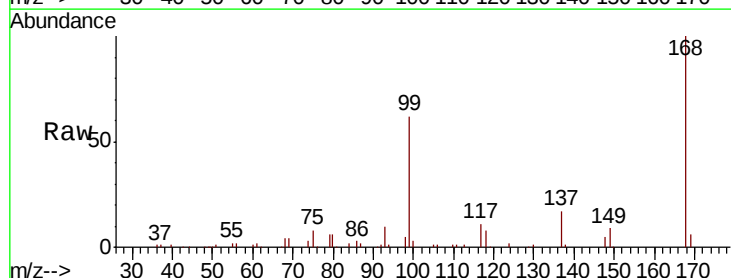
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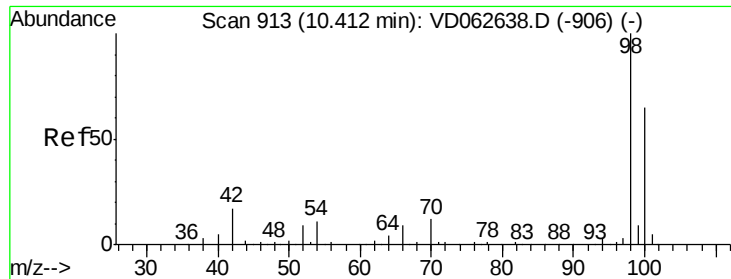
Tot Ion: 43 Resp: 1035
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#



#38
Carbon Tetrachloride
Concen: 3.943 ug/l
RT: 7.03 min Scan# 569
Delta R.T. -0.07 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Tgt Ion: 117 Resp: 59914
Ion Ratio Lower Upper
117 100
119 3.6 73.5 110.3#
121 0.0 24.2 36.4#

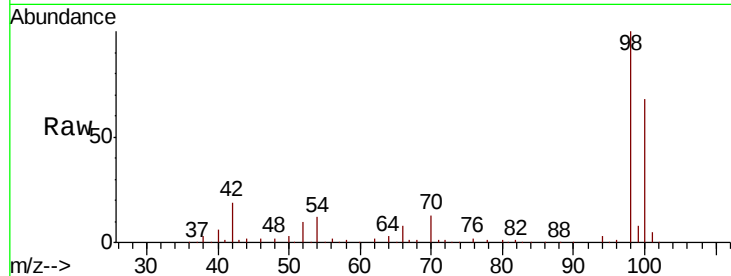




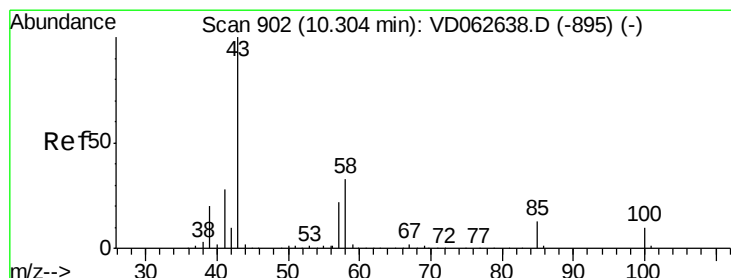
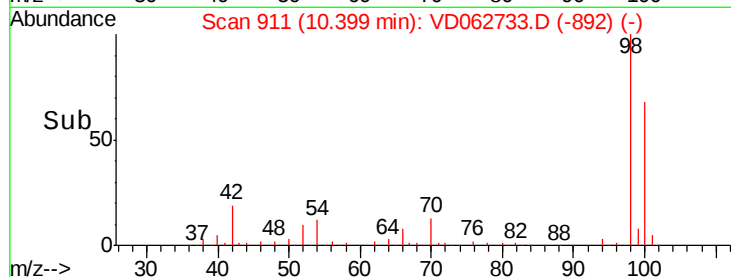
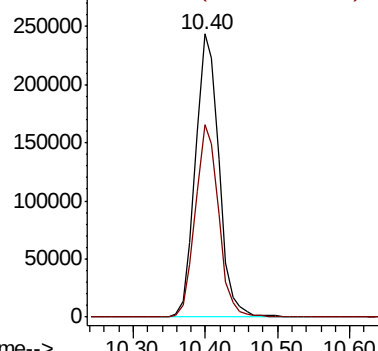
#50
Toluene-d8
Concen: 29.439 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Instrument :
MSVOA_D
ClientSampleId :
JC-02-061419-E

Tot Ion: 98 Resp: 548540
Ion Ratio Lower Upper
98 100
100 68.0 52.1 78.1

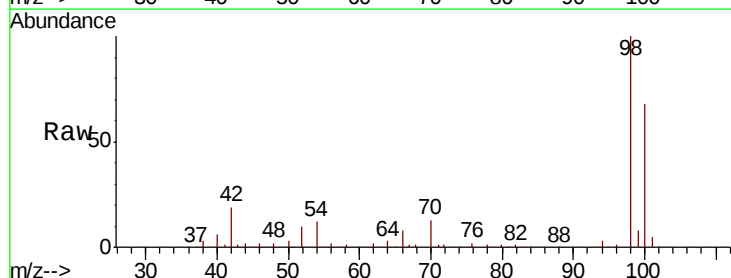


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

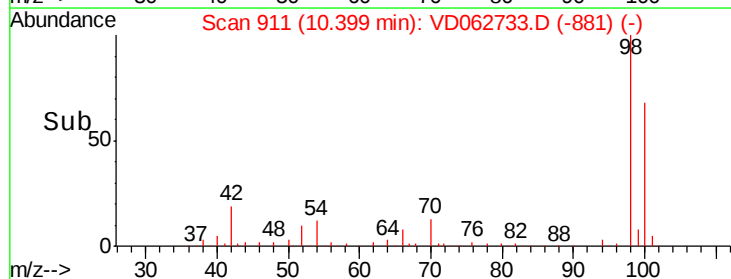
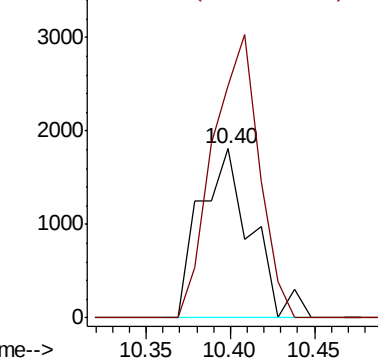


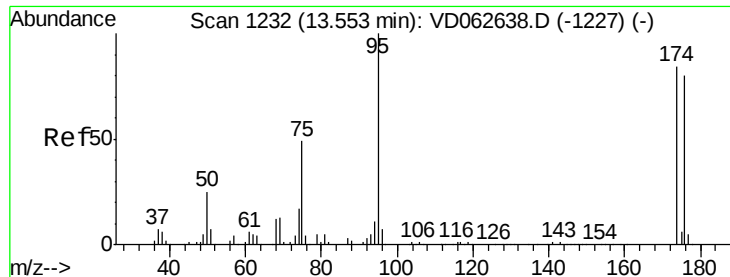
#51
4-Methyl-2-Pentanone
Concen: 1.072 ug/l
RT: 10.40 min Scan# 911
Delta R.T. 0.09 min
Lab File: VD062733.D
Acq: 17 Jun 2019 18:12

Tgt Ion: 43 Resp: 3804
Ion Ratio Lower Upper
43 100
58 137.3 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 29.014 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD062733.D

Acq: 17 Jun 2019 18:12

Instrument :

MSVOA_D

ClientSampleId :

JC-02-061419-E

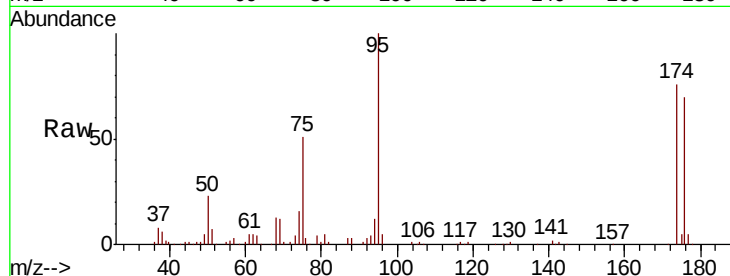
Tot Ion: 95 Resp: 252222

Ion Ratio Lower Upper

95 100

174 75.9 0.0 167.0

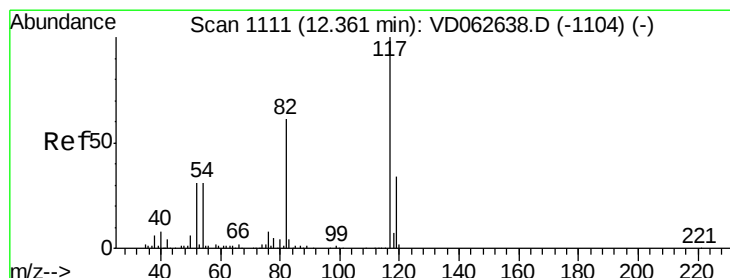
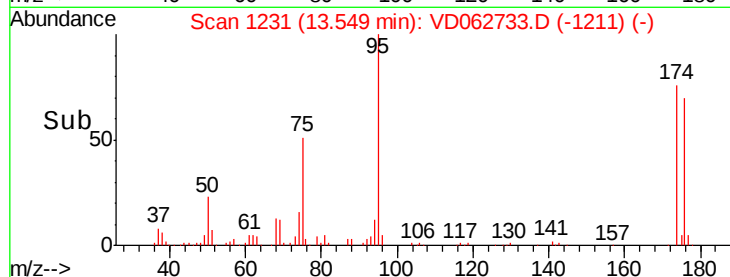
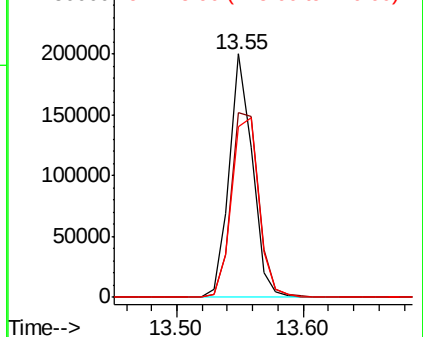
176 70.0 0.0 159.2



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: 12.36 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD062733.D

Acq: 17 Jun 2019 18:12

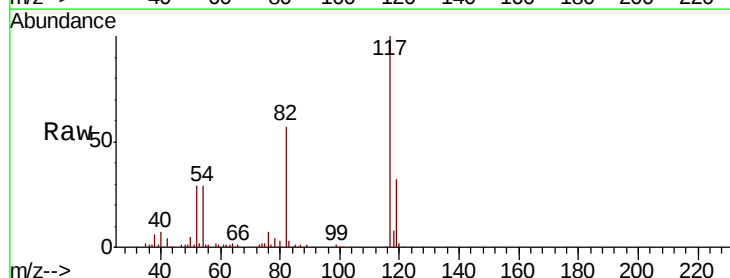
Tgt Ion: 117 Resp: 642683

Ion Ratio Lower Upper

117 100

82 57.5 48.7 73.1

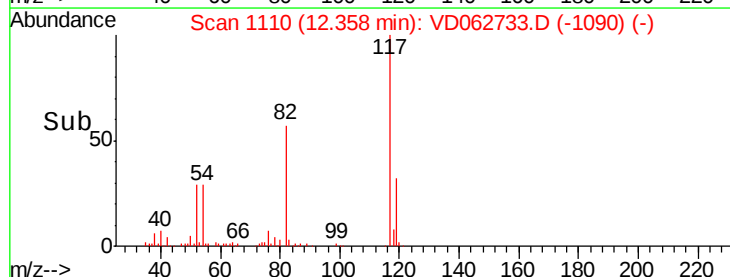
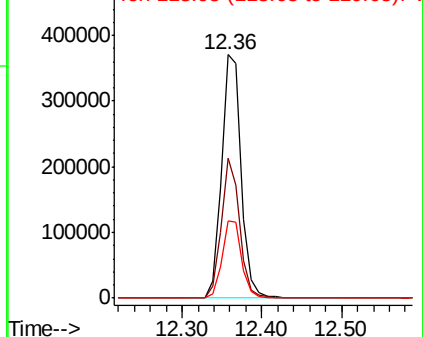
119 31.7 27.0 40.6

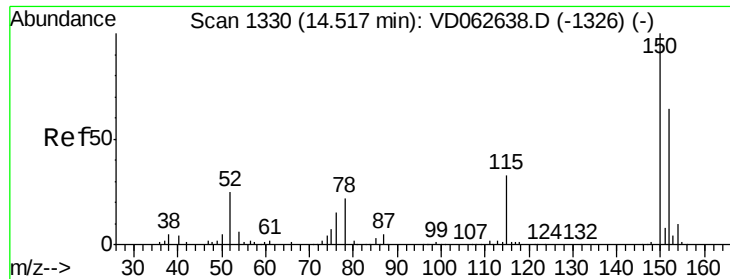


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



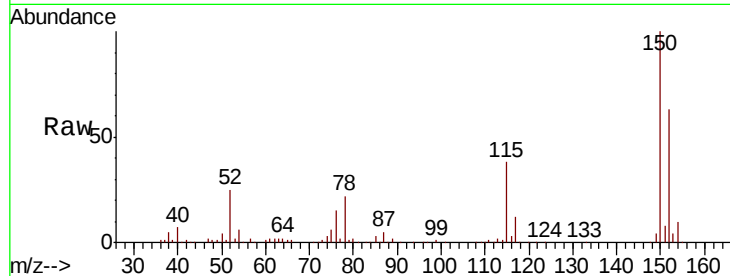


#72

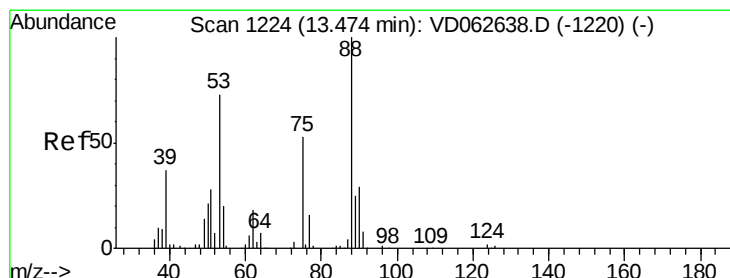
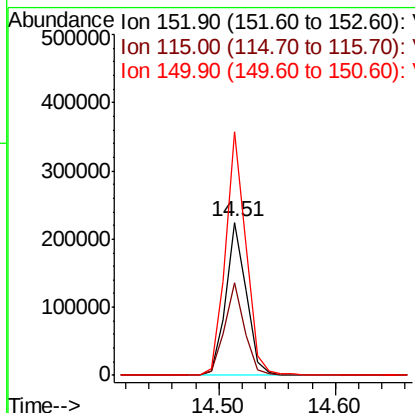
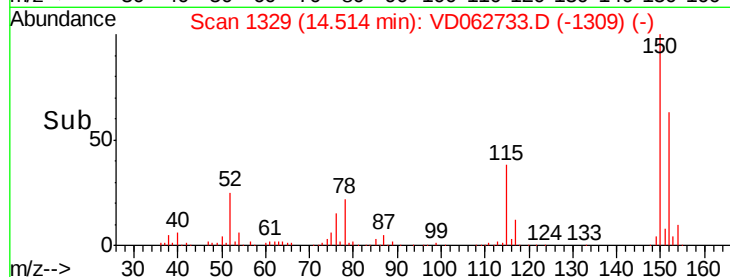
1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1329
 Delta R.T. -0.00 min
 Lab File: VD062733.D
 Acq: 17 Jun 2019 18:12

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-061419-E

Tot Ion:152 Resp: 273872
 Ion Ratio Lower Upper
 152 100
 115 60.3 30.1 90.5
 150 159.0 0.0 314.0



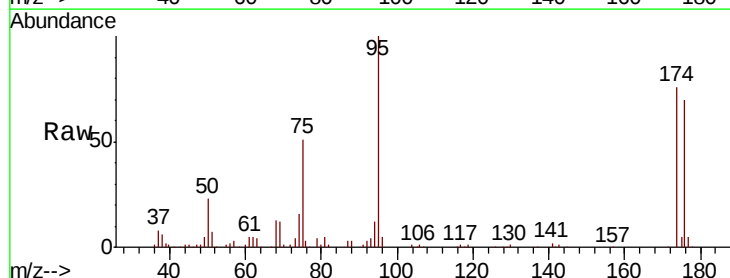
Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



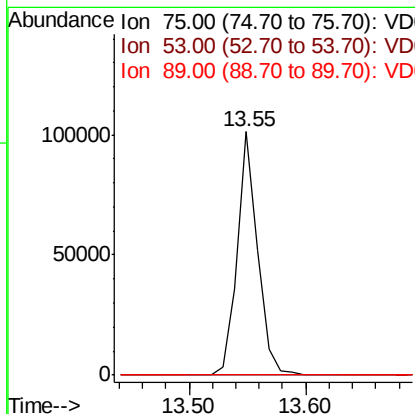
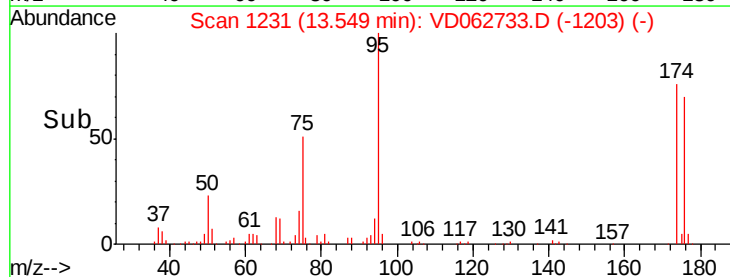
#81

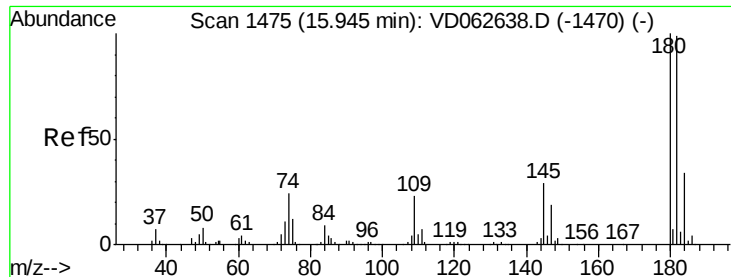
trans-1,4-Dichloro-2-butene
 Concen: 106.337 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. 0.08 min
 Lab File: VD062733.D
 Acq: 17 Jun 2019 18:12

Tgt Ion: 75 Resp: 122344
 Ion Ratio Lower Upper
 75 100
 53 0.0 109.4 164.2#
 89 0.0 37.0 55.6#



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

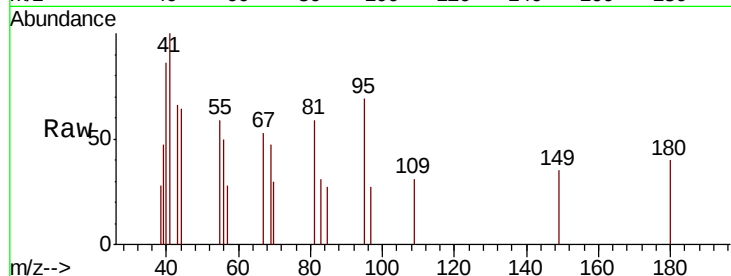




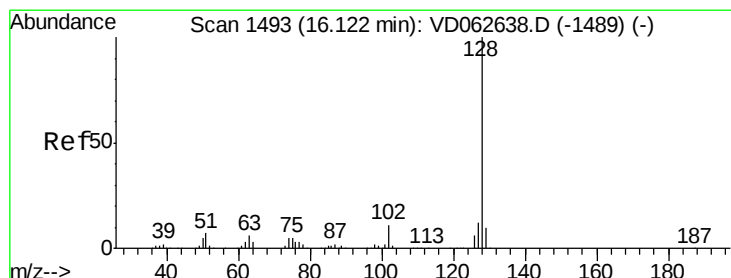
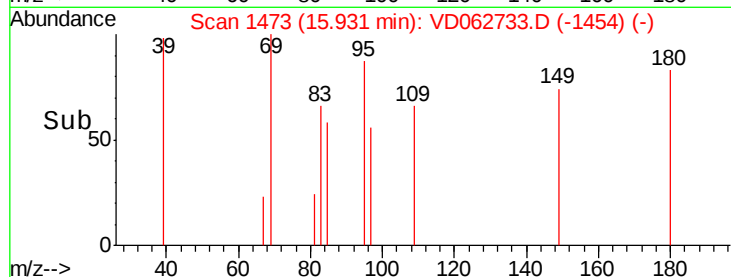
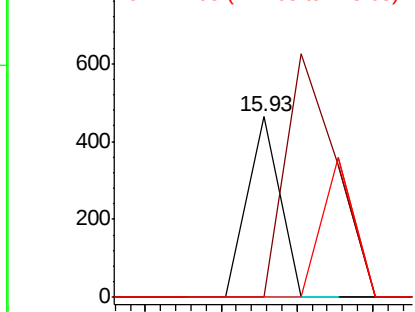
#93
 1,2,4-Trichlorobenzene
 Concen: 3.604 ug/l
 RT: 15.93 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: VD062733.D
 Acq: 17 Jun 2019 18:12

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-061419-E

Tot Ion:180 Resp: 273
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.4 148.2#
 145 0.0 14.5 43.6#

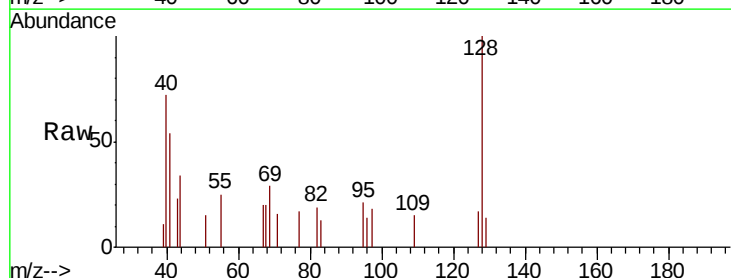


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.760 ug/l
 RT: 16.12 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VD062733.D
 Acq: 17 Jun 2019 18:12

Tgt Ion:128 Resp: 3315
 Ion Ratio Lower Upper
 128 100
 127 16.7 9.7 14.5#
 129 13.7 8.1 12.1#



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

