

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD043019\
 Data File : VD062092.D
 Acq On : 30 Apr 2019 17:31
 Operator : FY/SY
 Sample : K2191-01
 Misc : 3.97g/5mL/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 01 01:16:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	395259	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.20	114	651638	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.35	117	463354	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	146348	50.00	ug/l	-0.01

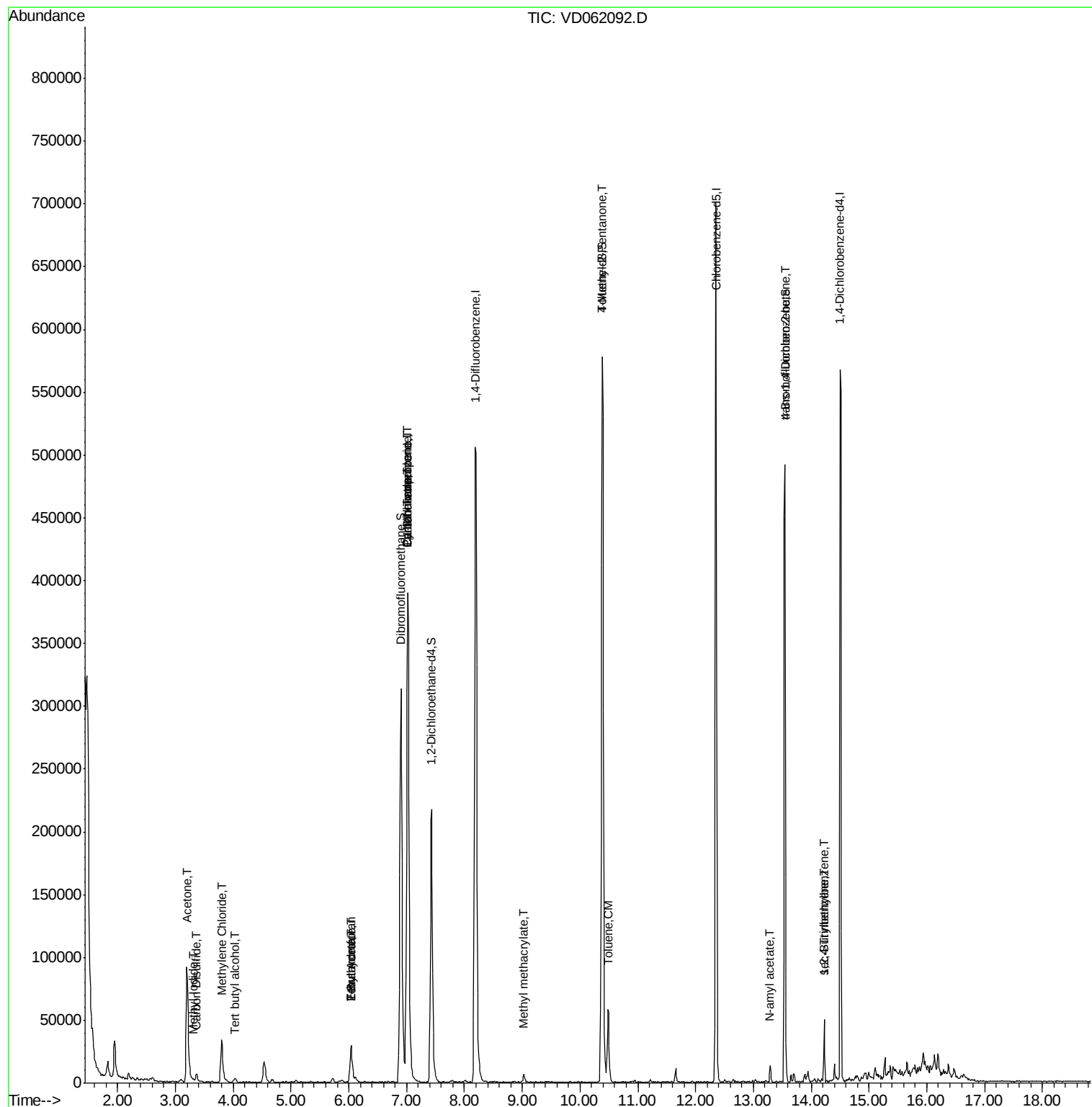
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	207910	67.21	ug/l	-0.02
Spiked Amount			Recovery	=	134.42%	
35) Dibromofluoromethane	6.90	113	290876	64.54	ug/l	-0.03
Spiked Amount			Recovery	=	129.08%	
50) Toluene-d8	10.39	98	526351	49.08	ug/l	-0.03
Spiked Amount			Recovery	=	98.16%	
62) 4-Bromofluorobenzene	13.54	95	159790	37.15	ug/l	-0.02
Spiked Amount			Recovery	=	74.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	257	Below Cal	#	12
10) Methyl Iodide	3.31	142	212	5.461	ug/l #	37
11) Tert butyl alcohol	4.03	59	6916	39.569	ug/l #	76
16) Acetone	3.20	43	175535	237.646	ug/l	92
17) Carbon Disulfide	3.37	76	10365	1.113	ug/l	97
18) Methyl Acetate	3.62	43	687	Below Cal	#	53
20) Methylene Chloride	3.80	84	25581	4.192	ug/l	96
25) 2-Butanone	6.04	43	65946	73.638	ug/l	95
29) Tetrahydrofuran	6.04	42	2702	6.123	ug/l #	1
31) Cyclohexane	7.02	56	7377	1.601	ug/l #	1
36) 1,1-Dichloropropene	7.02	75	28766	5.666	ug/l #	47
37) Ethyl Acetate	6.04	43	65945	30.481	ug/l #	64
38) Carbon Tetrachloride	7.03	117	38110	5.924	ug/l #	16
48) Methyl methacrylate	9.03	41	2297	1.274	ug/l #	40
51) 4-Methyl-2-Pentanone	10.39	43	2868	1.484	ug/l #	1
52) Toluene	10.48	92	33965	4.238	ug/l	97
74) N-amyl acetate	13.29	43	3398	1.352	ug/l #	7
81) trans-1,4-Dichloro-2-buten	13.54	75	60975	108.272	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.22	105	15025	2.021	ug/l #	37
85) sec-Butylbenzene	14.22	105	15024	1.542	ug/l #	60

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 23 14:52:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.03 min

Lab File: VD062092.D

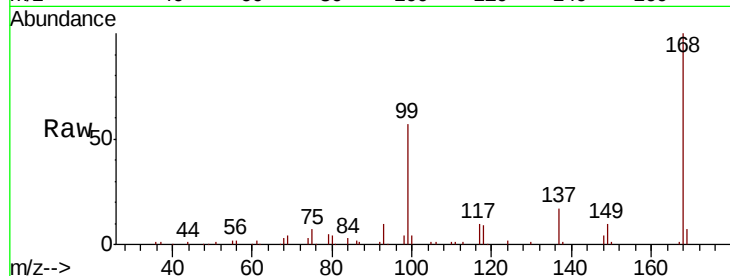
Acq: 30 Apr 2019 17:31

Tot Ion:168 Resp: 395259

Ion Ratio Lower Upper

168 100

99 56.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.02

150000

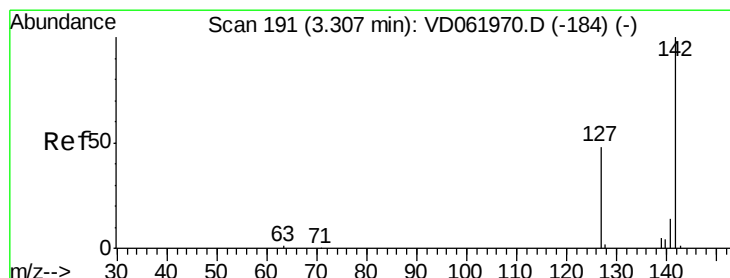
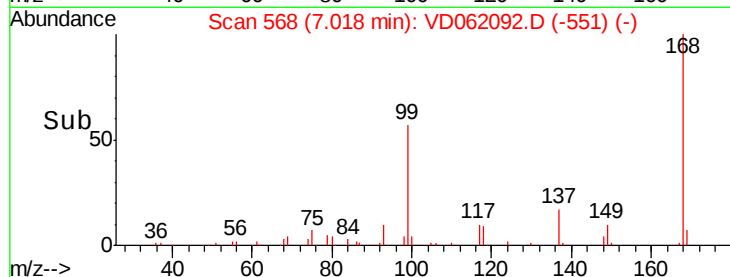
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#10

Methyl Iodide

Concen: 5.461 ug/l

RT: 3.31 min Scan# 191

Delta R.T. -0.01 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

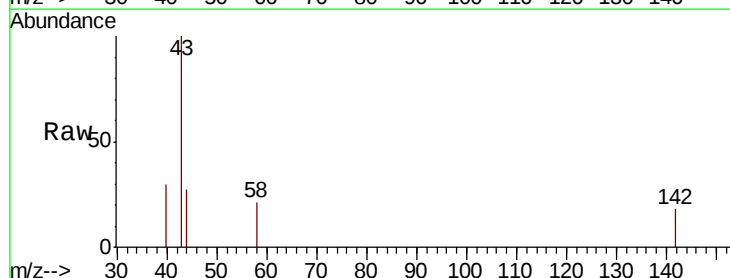
Tgt Ion:142 Resp: 212

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

141 0.0 11.4 17.0#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.31

500

400

300

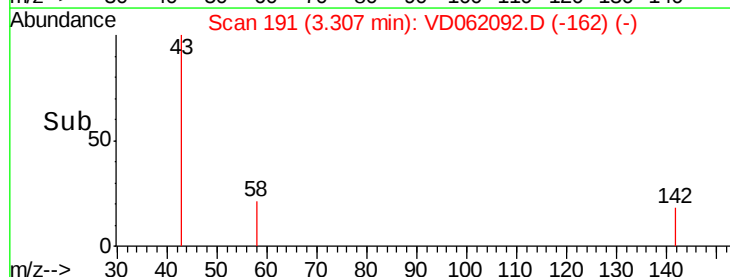
200

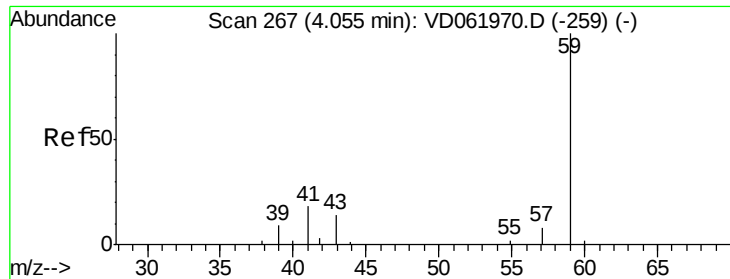
100

0

3.28 3.30 3.32 3.34

Time-->

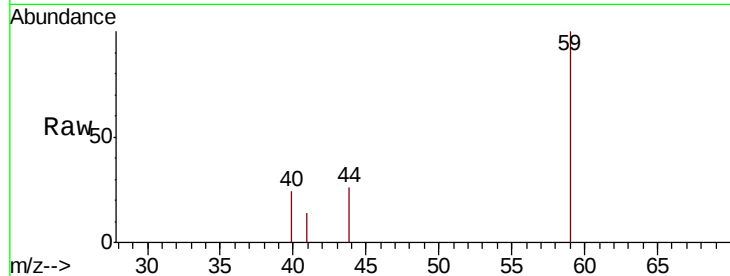




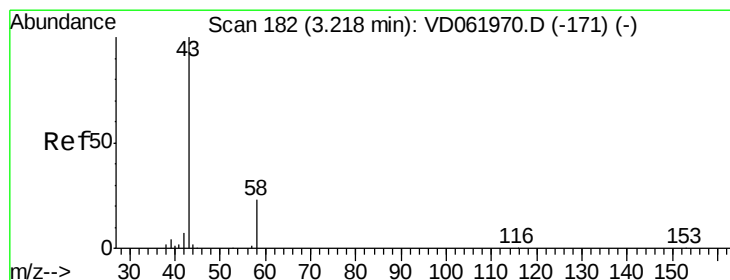
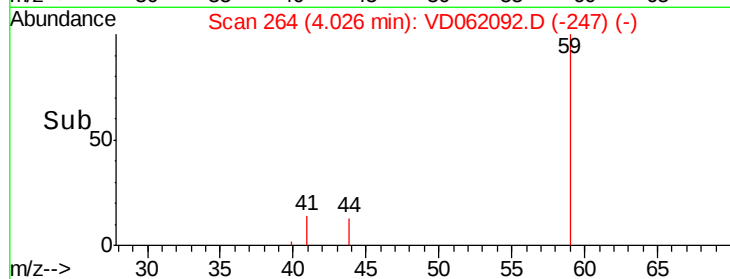
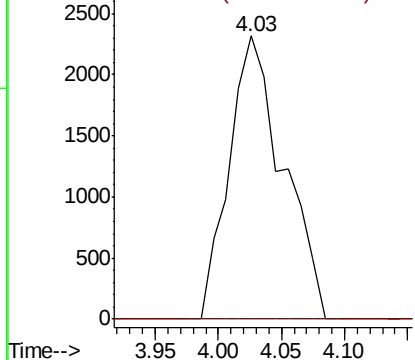
#11

Tert butyl alcohol
 Concen: 39.569 ug/l
 RT: 4.03 min Scan# 264
 Delta R.T. -0.03 min
 Lab File: VD062092.D
 Acq: 30 Apr 2019 17:31

Tot Ion: 59 Resp: 6916
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#



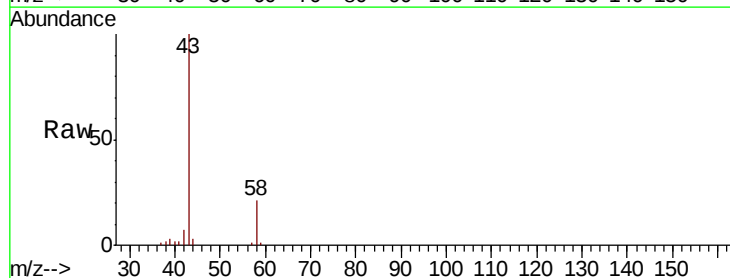
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



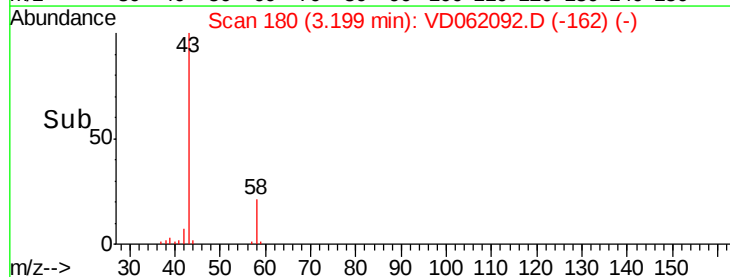
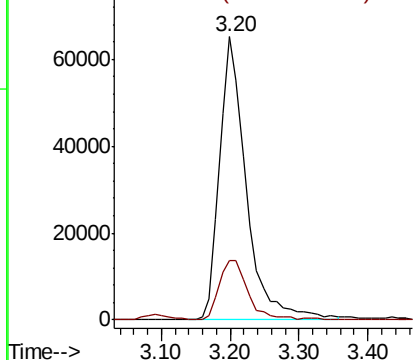
#16

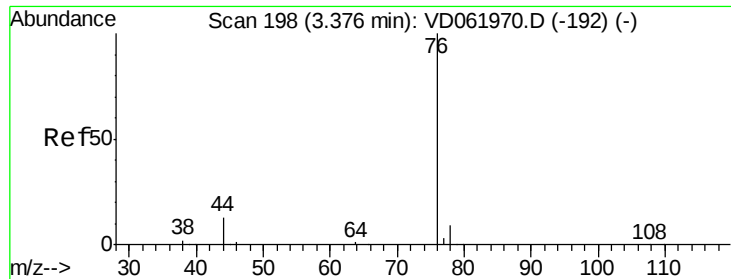
Acetone
 Concen: 237.646 ug/l
 RT: 3.20 min Scan# 180
 Delta R.T. -0.02 min
 Lab File: VD062092.D
 Acq: 30 Apr 2019 17:31

Tgt Ion: 43 Resp: 175535
 Ion Ratio Lower Upper
 43 100
 58 20.9 19.9 29.9



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





#17

Carbon Disulfide

Concen: 1.113 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD062092.D

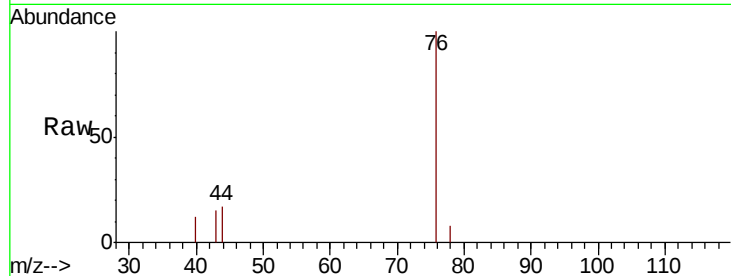
Acq: 30 Apr 2019 17:31

Tot Ion: 76 Resp: 10365

Ion Ratio Lower Upper

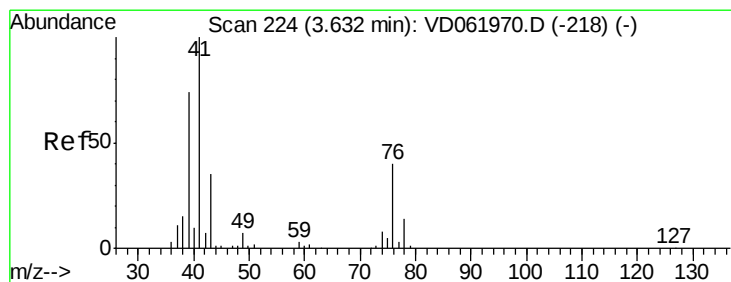
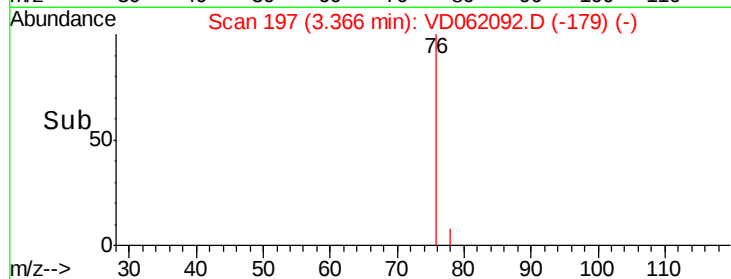
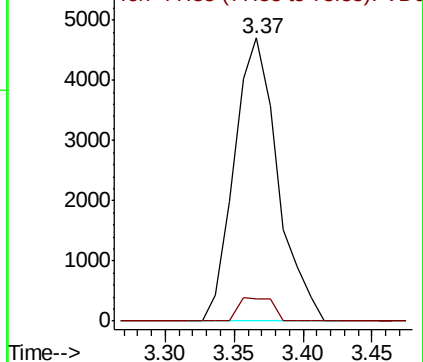
76 100

78 8.1 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 3.62 min Scan# 223

Delta R.T. -0.02 min

Lab File: VD062092.D

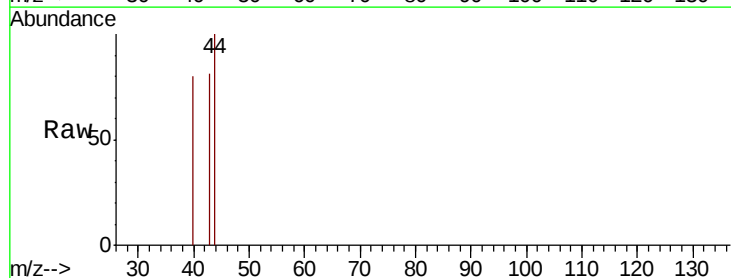
Acq: 30 Apr 2019 17:31

Tgt Ion: 43 Resp: 687

Ion Ratio Lower Upper

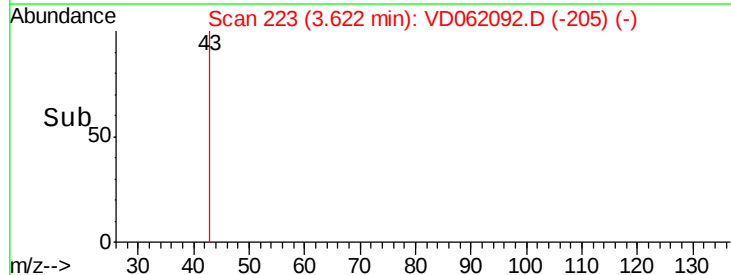
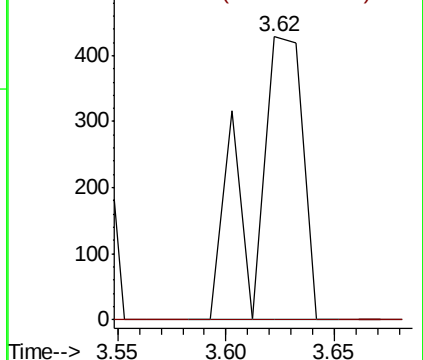
43 100

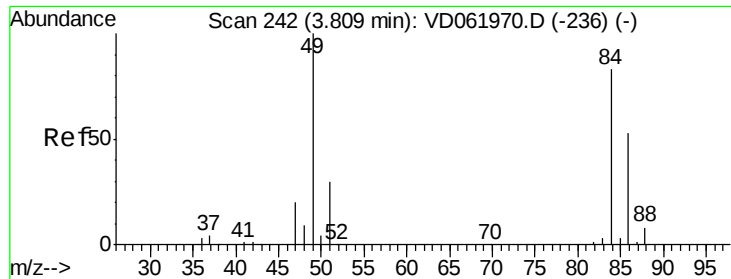
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

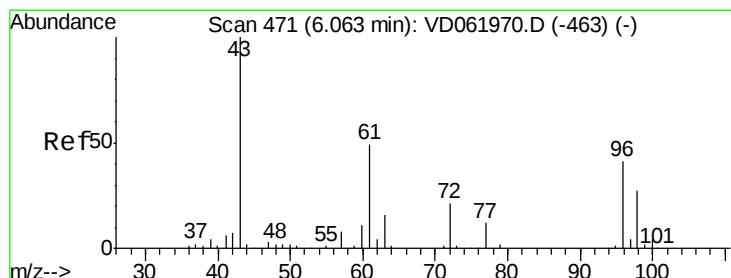
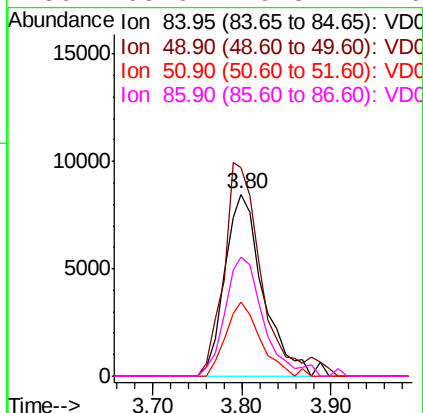
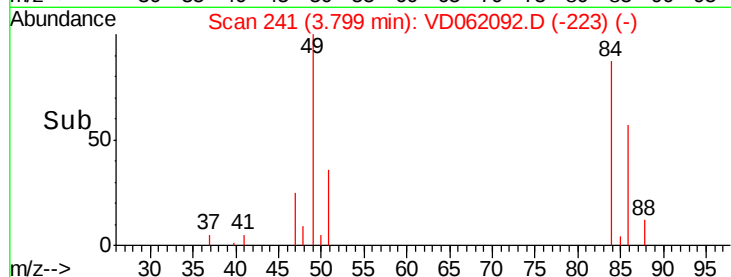
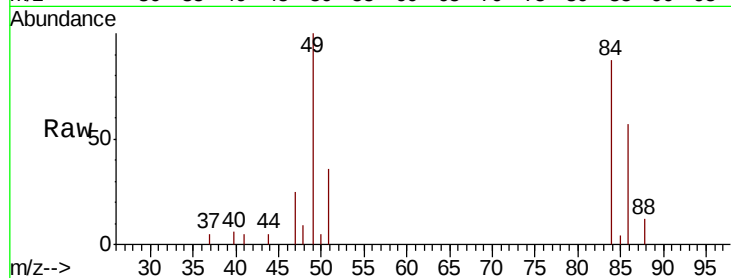




#20
Methylene Chloride
Concen: 4.192 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD062092.D
Acq: 30 Apr 2019 17:31

Tot Ion: 84 Resp: 25581

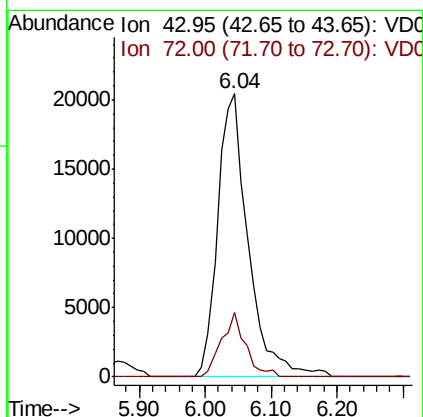
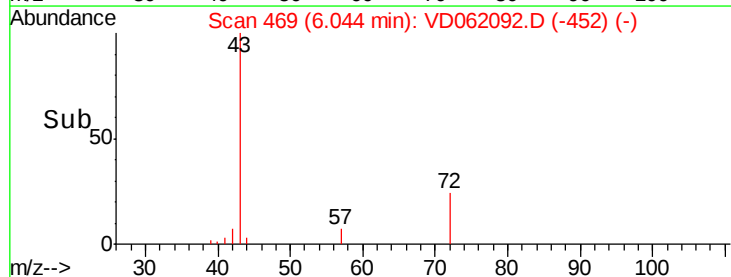
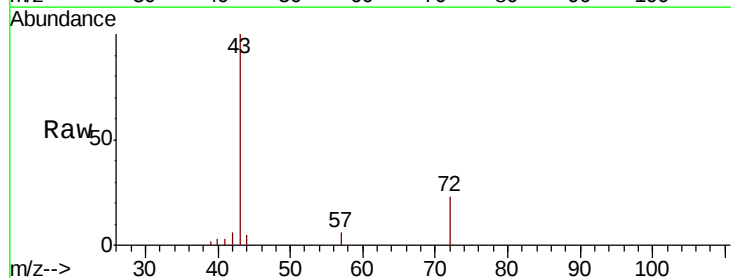
Ion	Ratio	Lower	Upper
84	100		
49	114.5	94.0	141.0
51	40.9	29.0	43.4
86	65.6	49.8	74.6

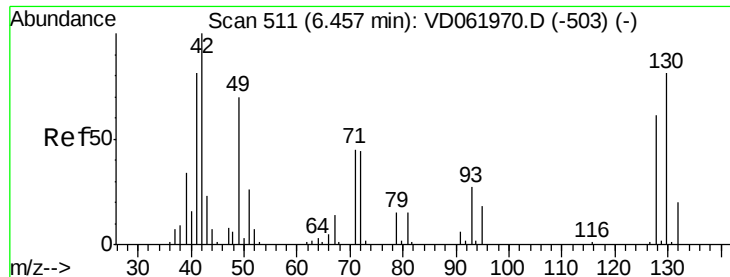


#25
2-Butanone
Concen: 73.638 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.03 min
Lab File: VD062092.D
Acq: 30 Apr 2019 17:31

Tgt Ion: 43 Resp: 65946

Ion	Ratio	Lower	Upper
43	100		
72	22.7	16.2	24.4





#29

Tetrahydrofuran

Concen: 6.123 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.42 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

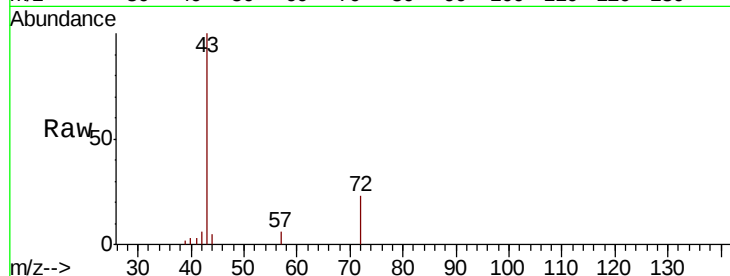
Tot Ion: 42 Resp: 2702

Ion Ratio Lower Upper

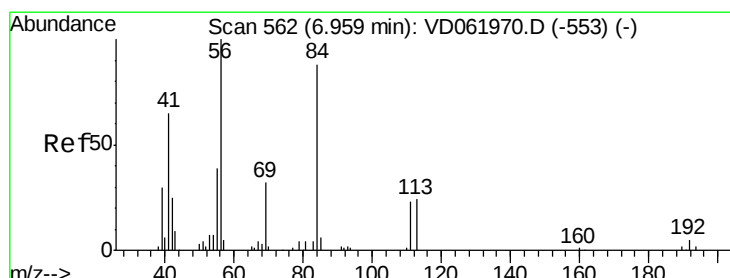
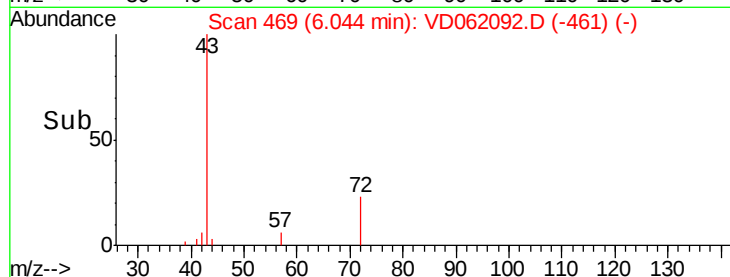
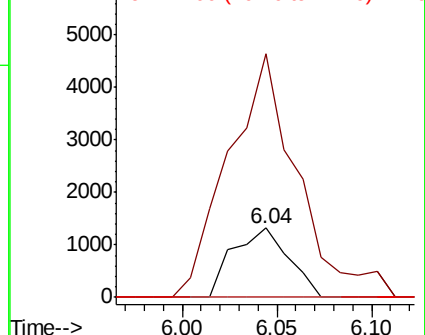
42 100

72 435.4 37.8 56.6#

71 0.0 36.7 55.1#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.601 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.05 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

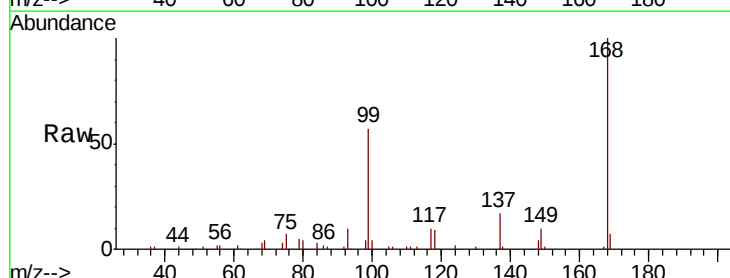
Tgt Ion: 56 Resp: 7377

Ion Ratio Lower Upper

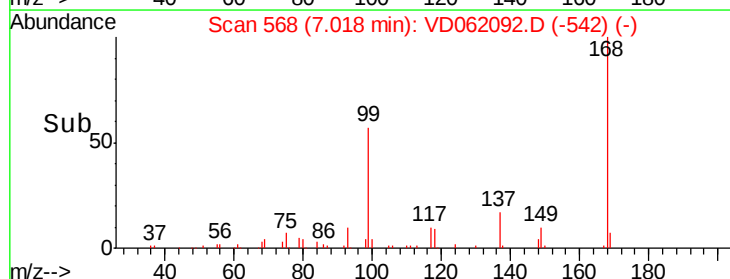
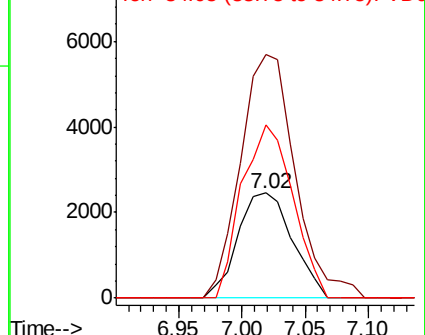
56 100

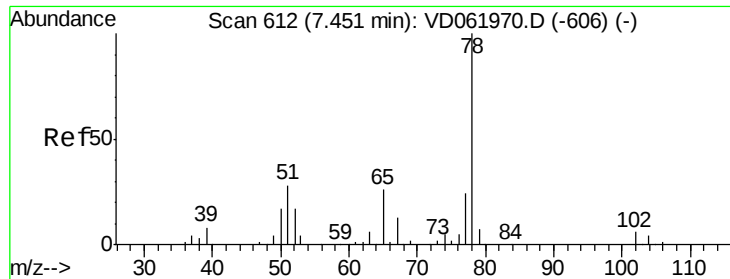
69 231.9 25.8 38.6#

84 164.4 72.2 108.4#



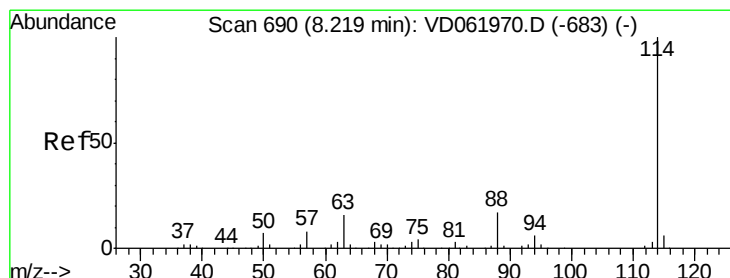
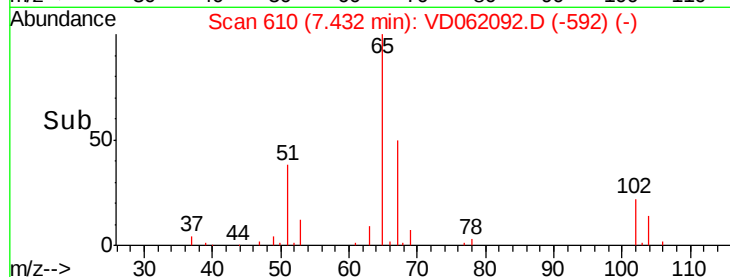
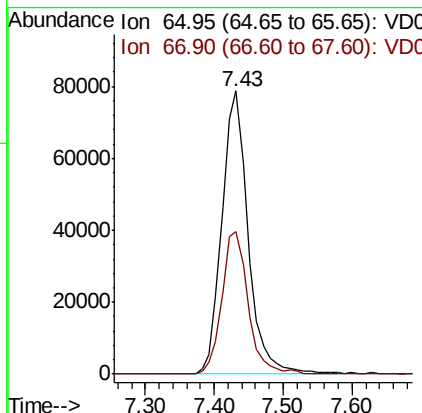
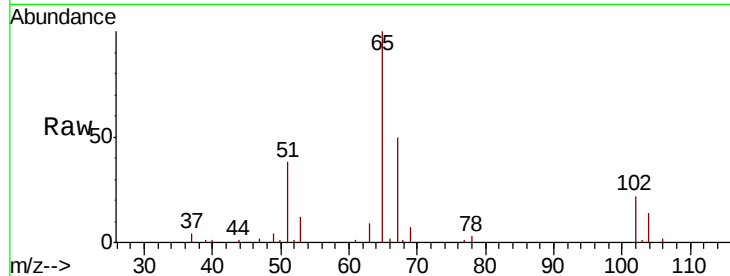
Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC





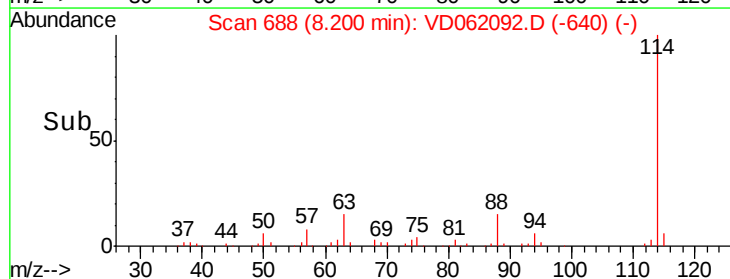
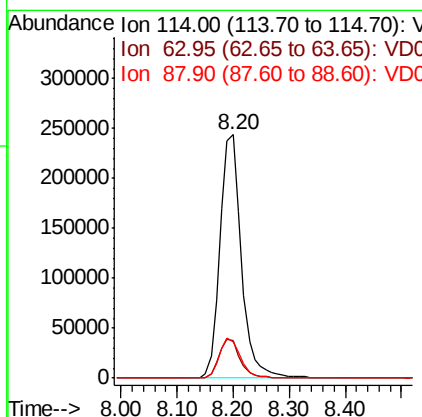
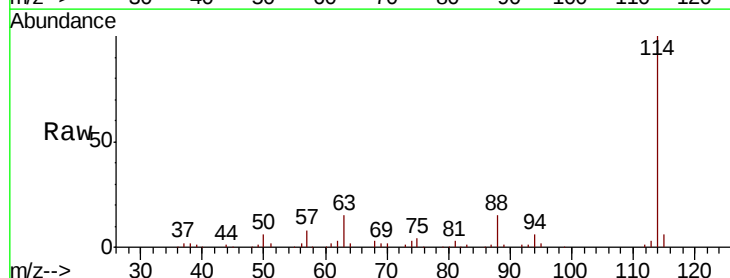
#33
 1,2-Dichloroethane-d4
 Concen: 67.208 ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. -0.02 min
 Lab File: VD062092.D
 Acq: 30 Apr 2019 17:31

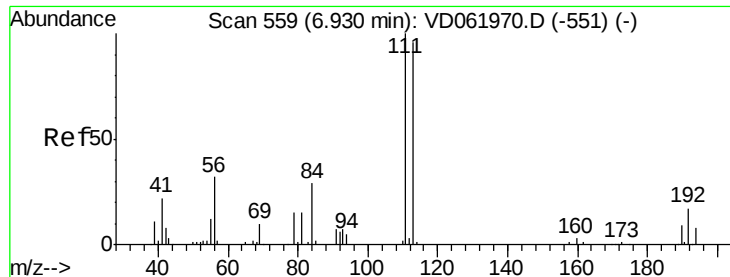
Tot Ion: 65 Resp: 207910
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. -0.02 min
 Lab File: VD062092.D
 Acq: 30 Apr 2019 17:31

Tgt Ion: 114 Resp: 651638
 Ion Ratio Lower Upper
 114 100
 63 15.3 0.0 32.4
 88 14.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 64.543 ug/l

RT: 6.90 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

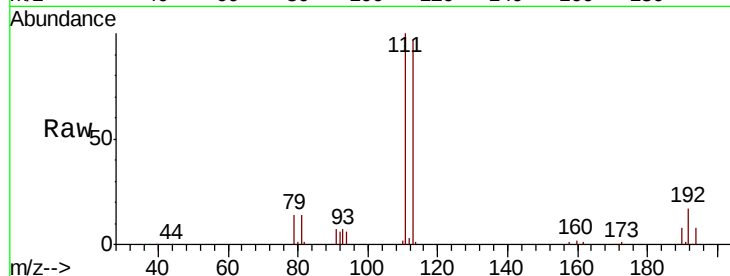
Tot Ion:113 Resp: 290876

Ion Ratio Lower Upper

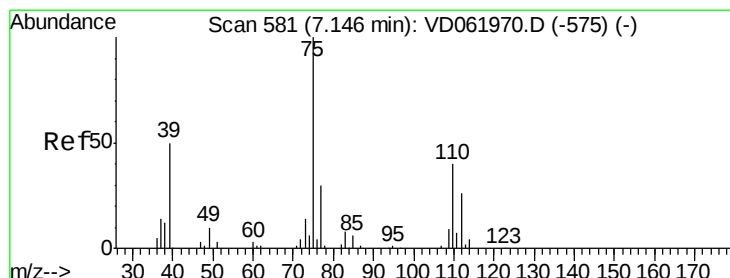
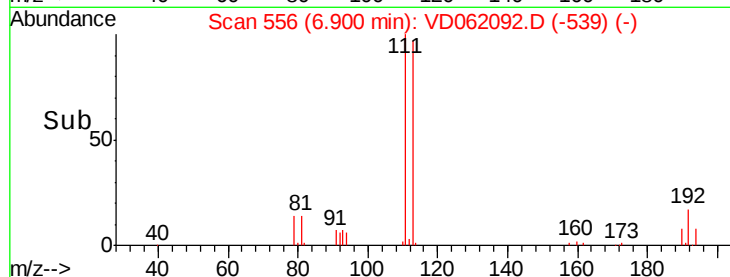
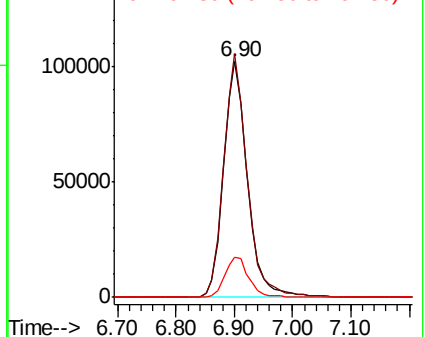
113 100

111 103.3 78.5 117.7

192 17.2 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



#36

1,1-Dichloropropene

Concen: 5.666 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.13 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

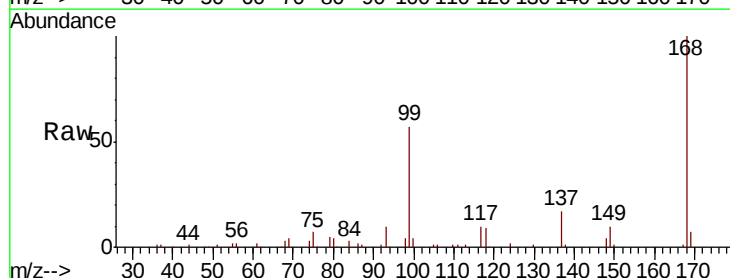
Tgt Ion: 75 Resp: 28766

Ion Ratio Lower Upper

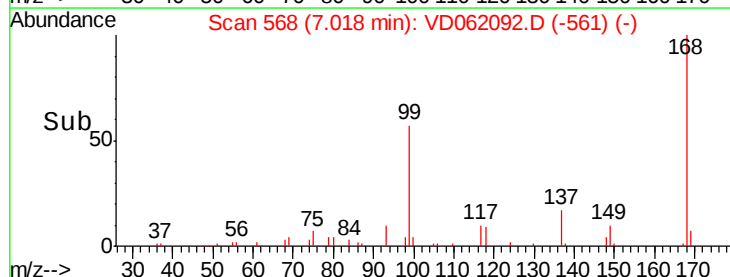
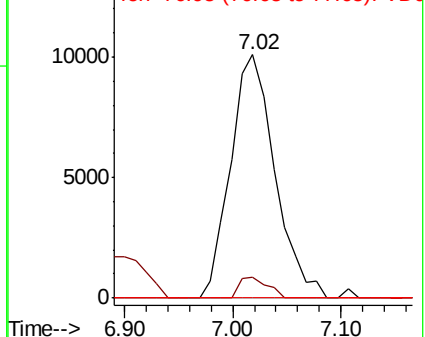
75 100

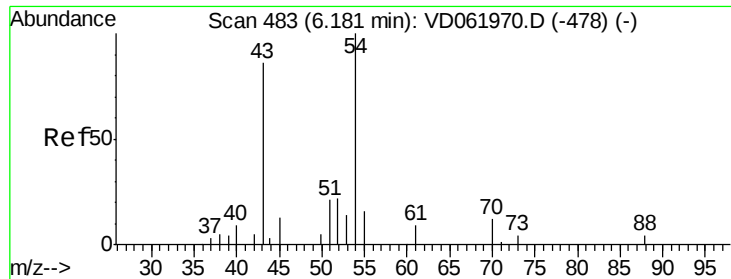
110 8.7 19.1 57.1#

77 0.0 25.6 38.4#



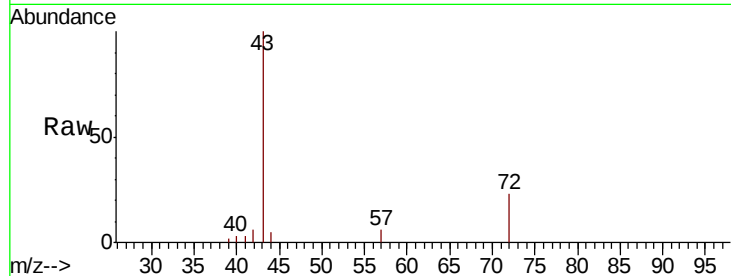
Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V



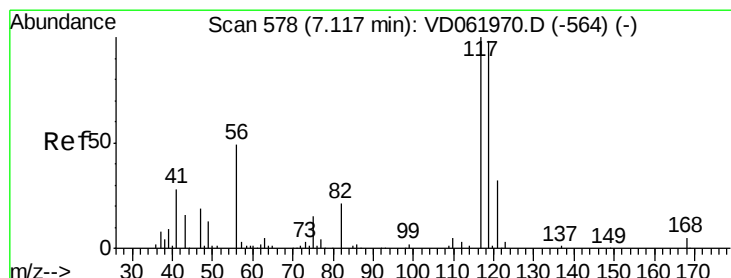
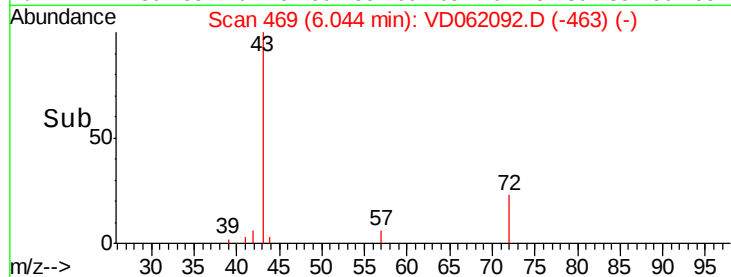
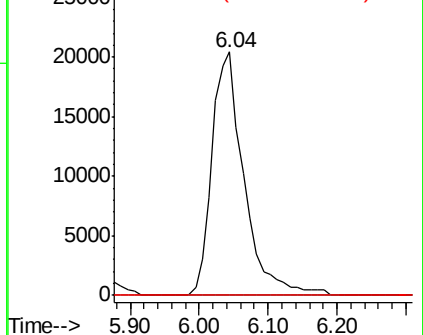


#37
Ethyl Acetate
Concen: 30.481 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.14 min
Lab File: VD062092.D
Acq: 30 Apr 2019 17:31

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.7	22.1#
70	0.0	7.8	11.6#

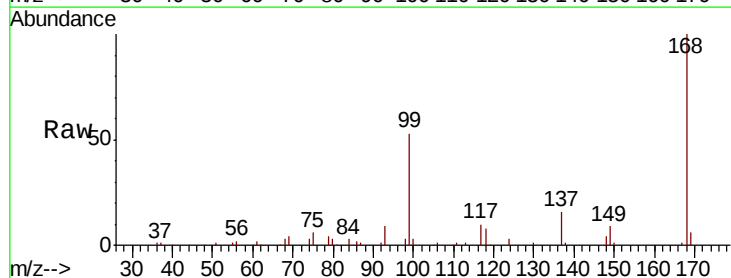


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

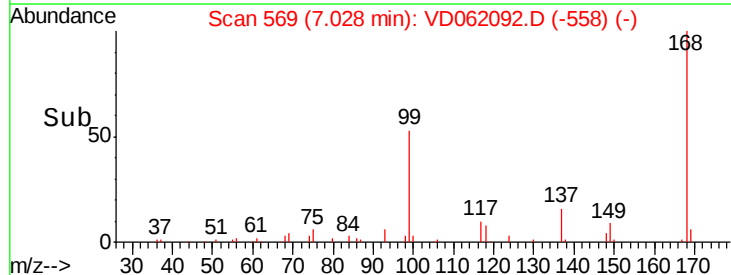
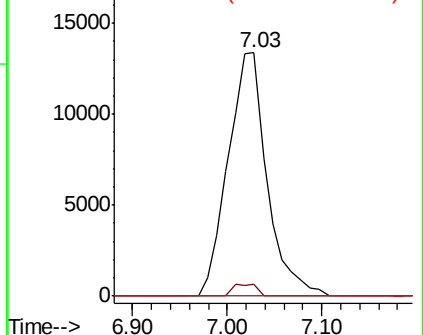


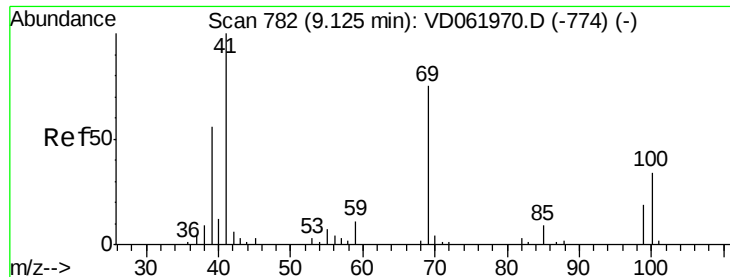
#38
Carbon Tetrachloride
Concen: 5.924 ug/l
RT: 7.03 min Scan# 569
Delta R.T. -0.09 min
Lab File: VD062092.D
Acq: 30 Apr 2019 17:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	75.8	113.8#
121	0.0	25.9	38.9#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#48

Methyl methacrylate

Concen: 1.274 ug/l

RT: 9.03 min Scan# 772

Delta R.T. -0.10 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

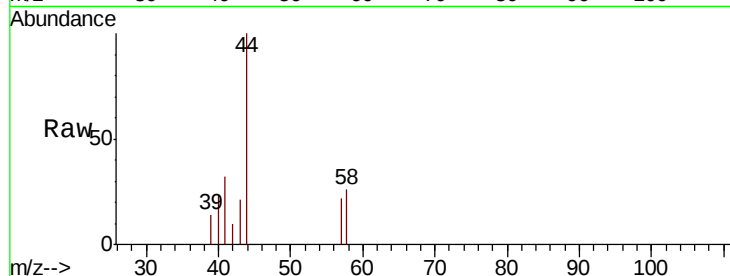
Tot Ion: 41 Resp: 2297

Ion Ratio Lower Upper

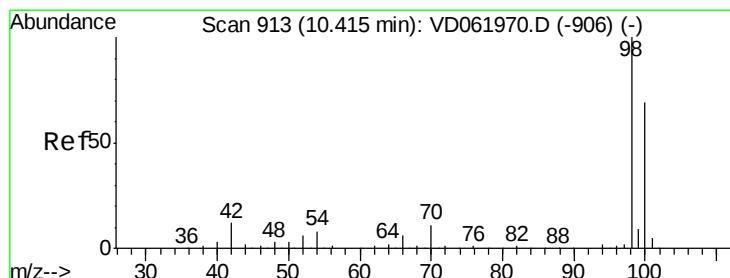
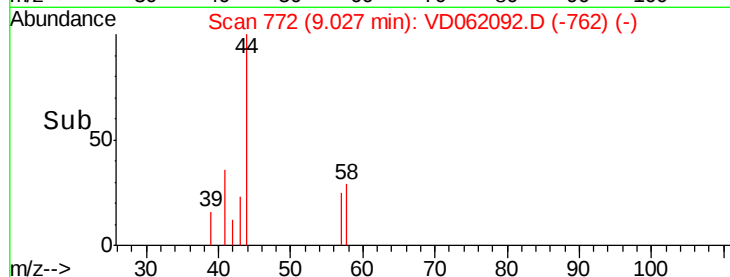
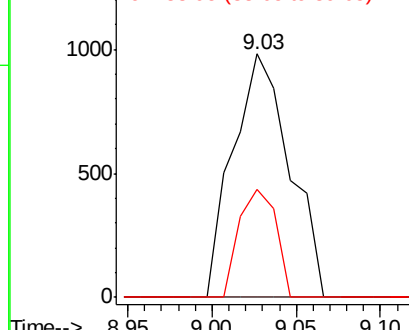
41 100

69 0.0 64.2 96.2#

39 44.4 46.8 70.2#



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC



#50

Toluene-d8

Concen: 49.083 ug/l

RT: 10.39 min Scan# 910

Delta R.T. -0.03 min

Lab File: VD062092.D

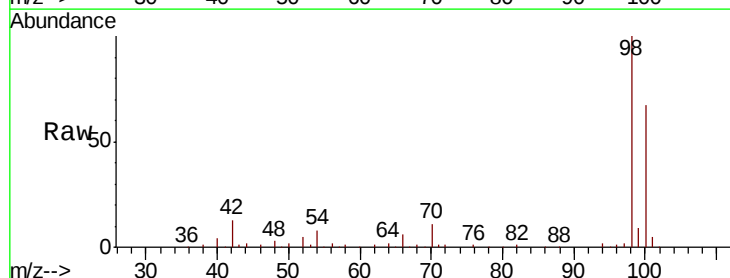
Acq: 30 Apr 2019 17:31

Tgt Ion: 98 Resp: 526351

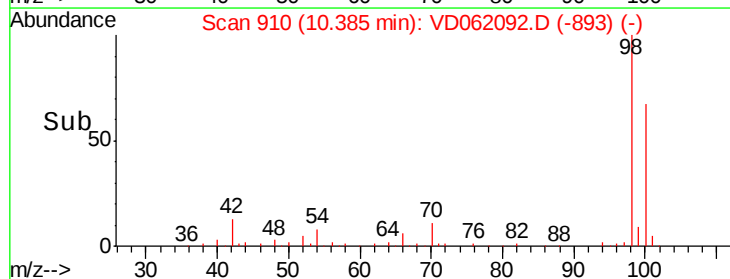
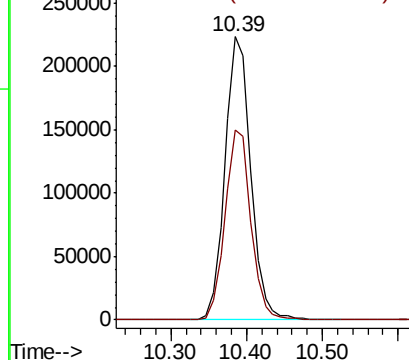
Ion Ratio Lower Upper

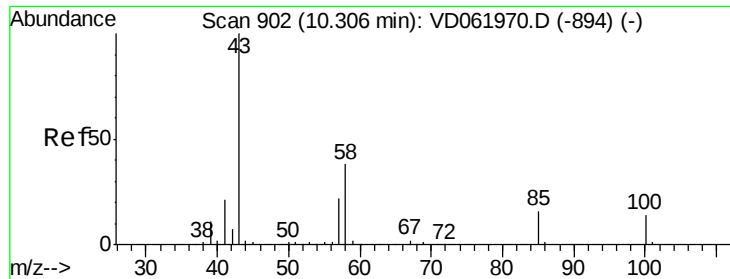
98 100

100 67.1 53.8 80.8



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: 1.484 ug/l

RT: 10.39 min Scan# 910

Delta R.T. 0.08 min

Lab File: VD062092.D

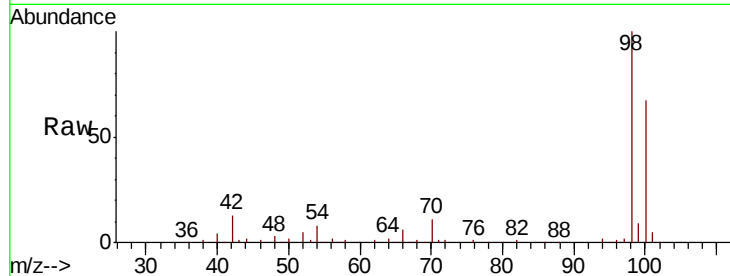
Acq: 30 Apr 2019 17:31

Tot Ion: 43 Resp: 2868

Ion Ratio Lower Upper

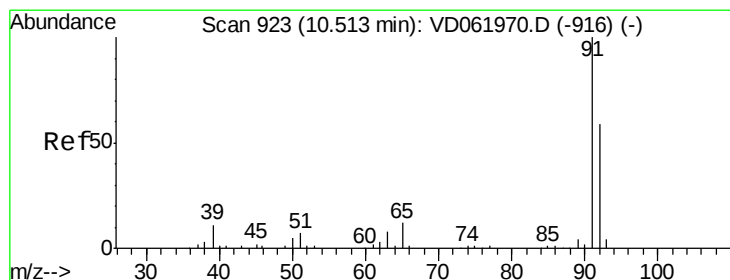
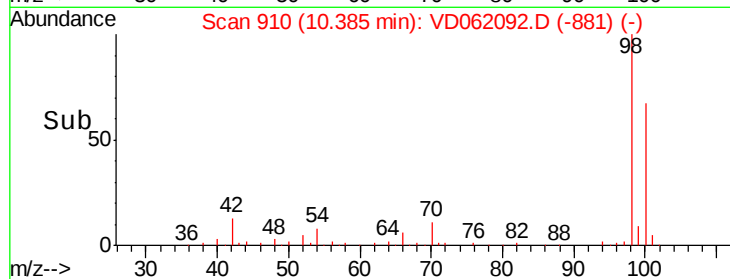
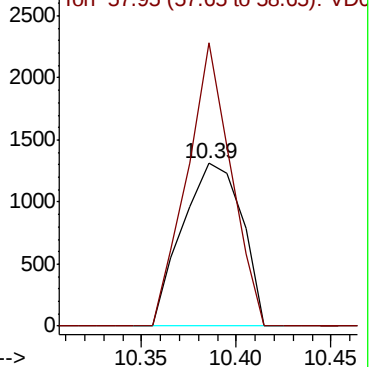
43 100

58 173.6 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 4.238 ug/l

RT: 10.48 min Scan# 920

Delta R.T. -0.03 min

Lab File: VD062092.D

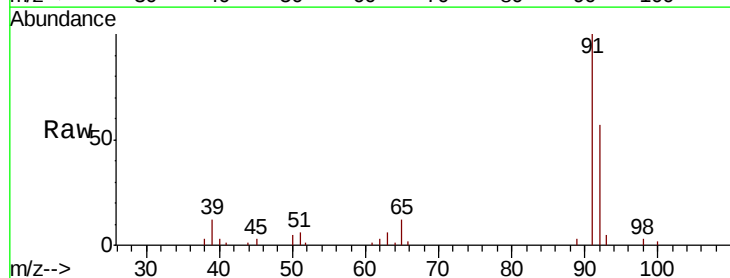
Acq: 30 Apr 2019 17:31

Tgt Ion: 92 Resp: 33965

Ion Ratio Lower Upper

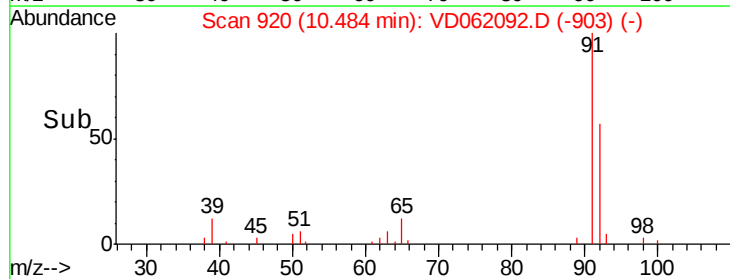
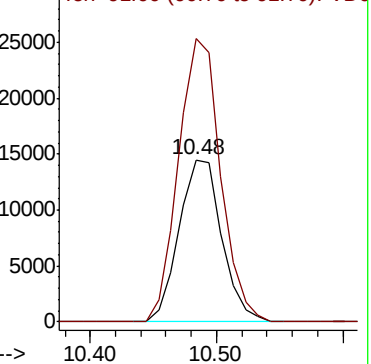
92 100

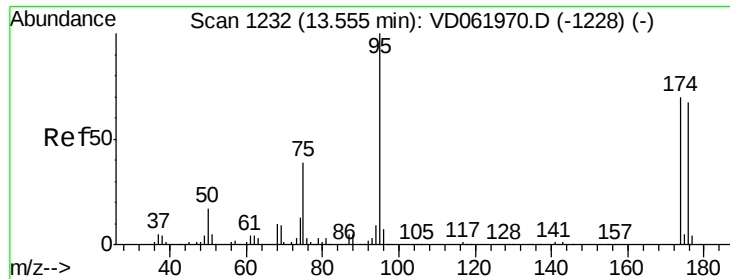
91 174.4 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: 37.150 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. -0.02 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

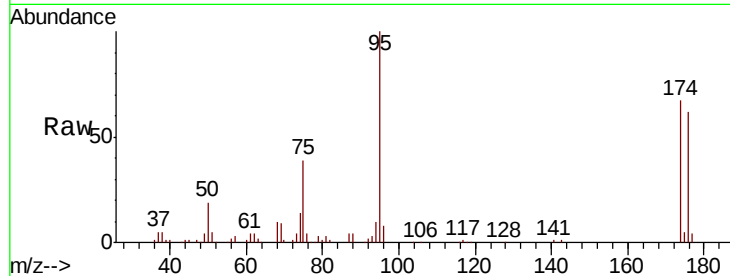
Tot Ion: 95 Resp: 159790

Ion Ratio Lower Upper

95 100

174 67.4 0.0 181.8

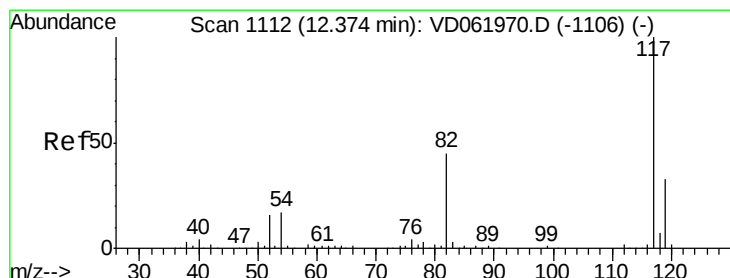
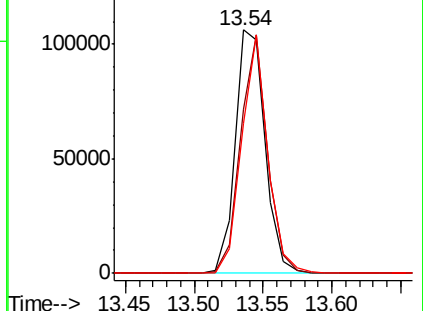
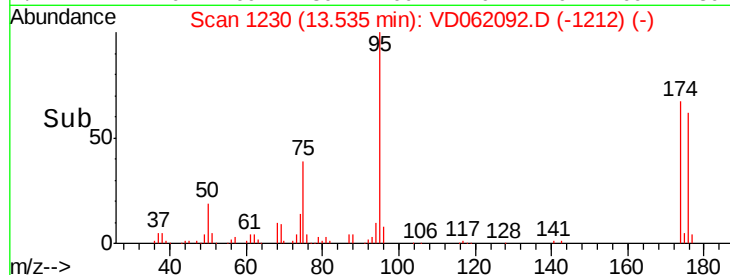
176 61.9 0.0 174.4



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: 12.35 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

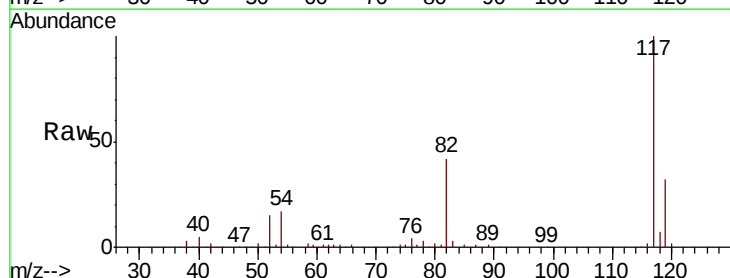
Tgt Ion: 117 Resp: 463354

Ion Ratio Lower Upper

117 100

82 41.9 36.2 54.2

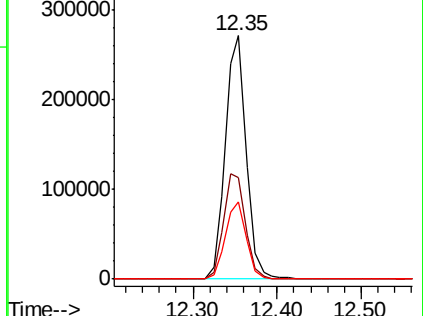
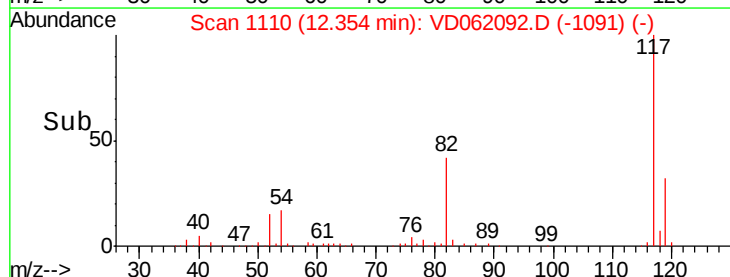
119 31.9 26.2 39.4

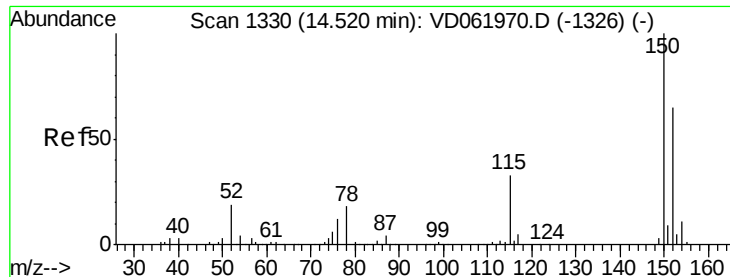


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

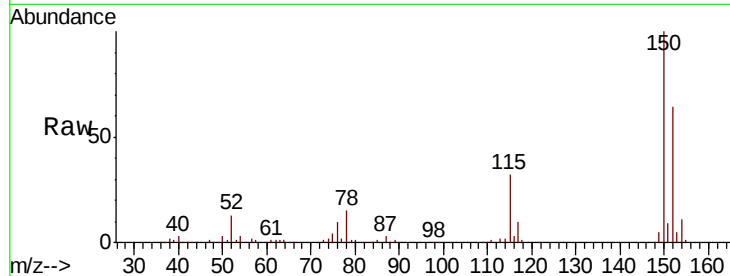




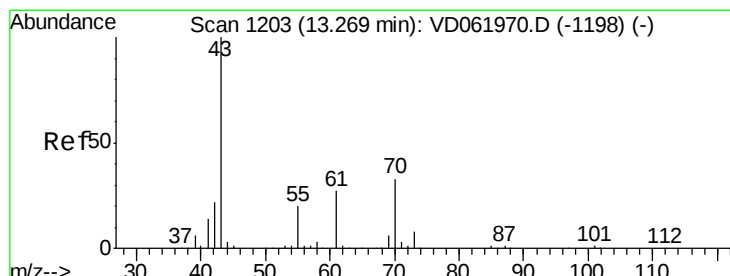
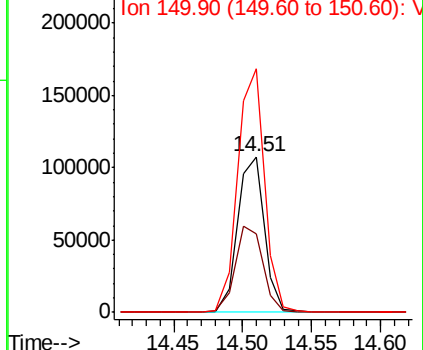
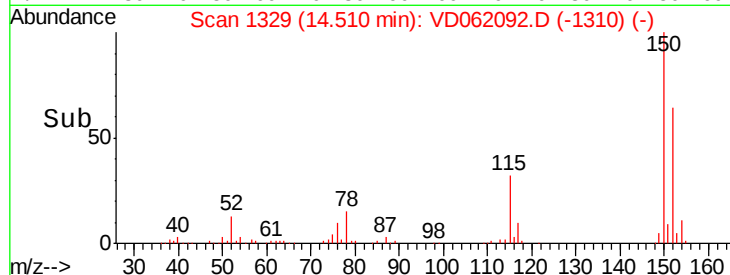
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062092.D
Acq: 30 Apr 2019 17:31

Tot Ion	Ratio	Lower	Upper
152	100		
115	50.1	30.9	92.7
150	156.2	0.0	314.8



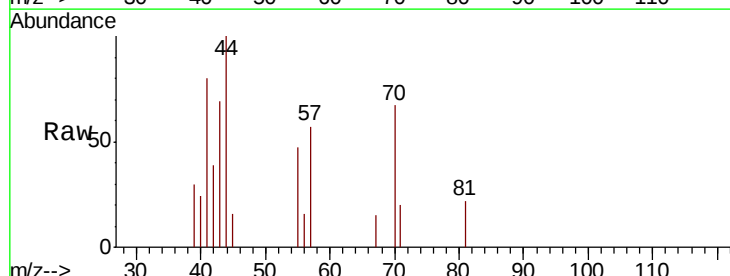
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



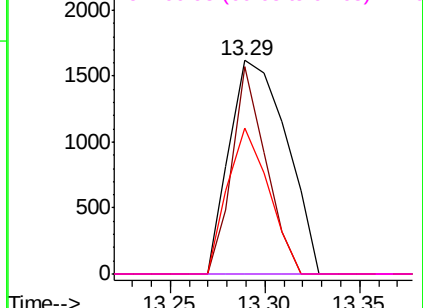
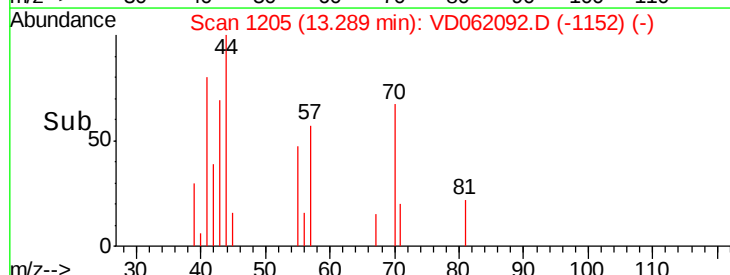
#74

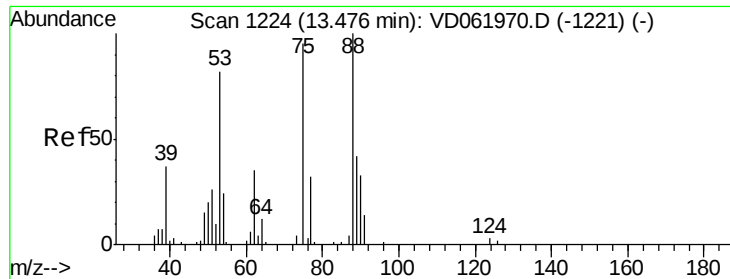
N-ethyl acetate
Concen: 1.352 ug/l
RT: 13.29 min Scan# 1205
Delta R.T. 0.03 min
Lab File: VD062092.D
Acq: 30 Apr 2019 17:31

Tgt Ion	Ratio	Lower	Upper
43	100		
70	97.1	24.2	36.4#
55	68.3	16.0	24.0#
61	0.0	21.6	32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 108.272 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. 0.05 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

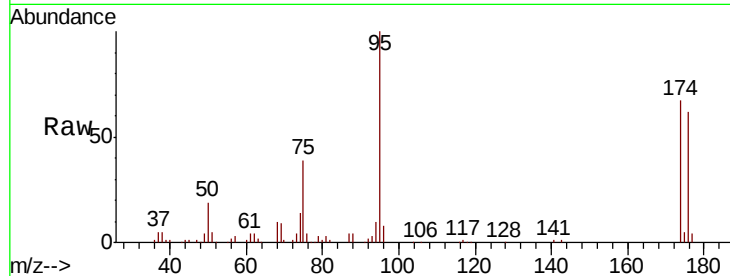
Tot Ion: 75 Resp: 60975

Ion Ratio Lower Upper

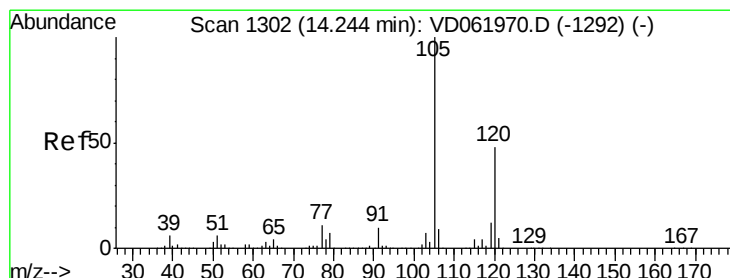
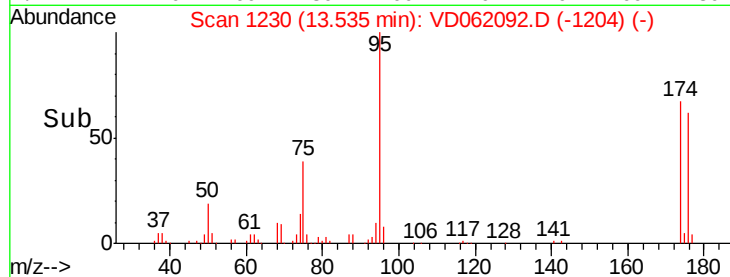
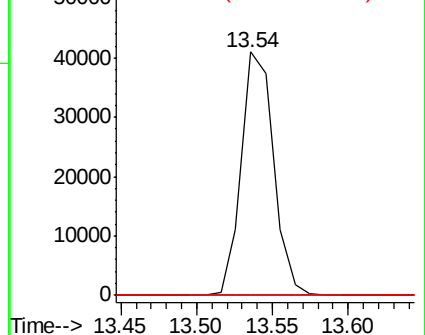
75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#84

1,2,4-Trimethylbenzene

Concen: 2.021 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. -0.01 min

Lab File: VD062092.D

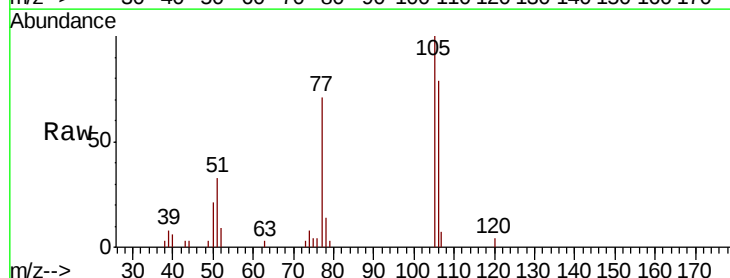
Acq: 30 Apr 2019 17:31

Tgt Ion: 105 Resp: 15025

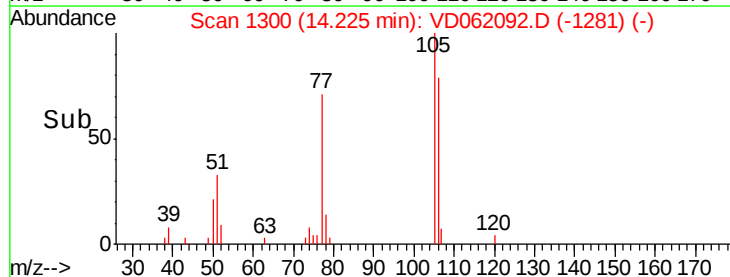
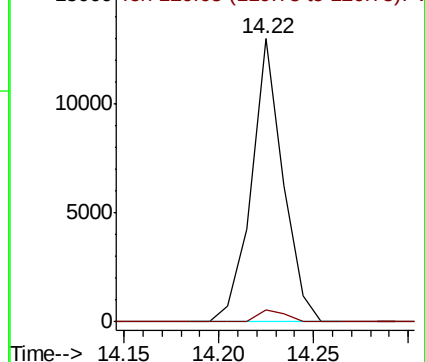
Ion Ratio Lower Upper

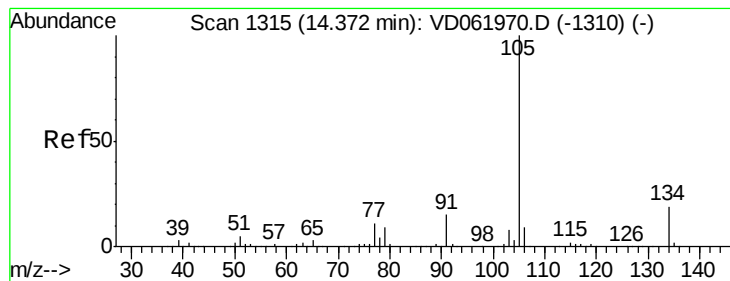
105 100

120 4.2 23.1 69.2#



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 1.542 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. -0.14 min

Lab File: VD062092.D

Acq: 30 Apr 2019 17:31

Tot Ion:105 Resp: 15024

Ion Ratio Lower Upper

105 100

134 0.0 8.9 26.7#

