

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD031619\
 Data File : VD061128.D
 Acq On : 17 Mar 2019 1:43
 Operator : VA/AP
 Sample : K1685-07
 Misc : 6.55g/5ml/MSVOA_D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 18 05:01:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	481692	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	812694	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	643805	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	254646	50.00	ug/l	0.00

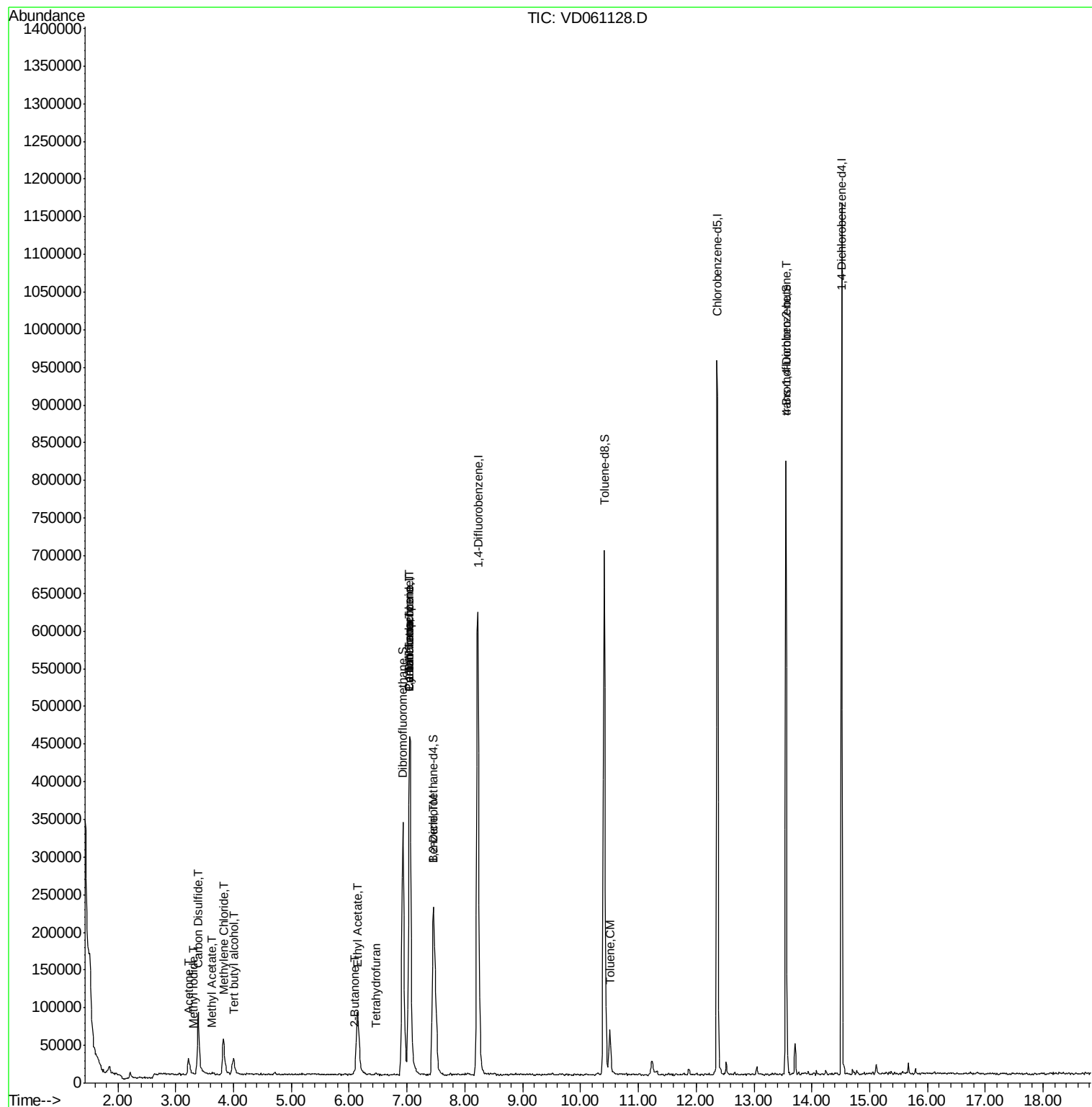
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	198521	49.51	ug/l	0.01
Spiked Amount			Recovery	=	99.02%	
35) Dibromofluoromethane	6.93	113	317555	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
50) Toluene-d8	10.41	98	653006	43.11	ug/l	0.01
Spiked Amount			Recovery	=	86.22%	
62) 4-Bromofluorobenzene	13.55	95	253764	43.18	ug/l	0.00
Spiked Amount			Recovery	=	86.36%	

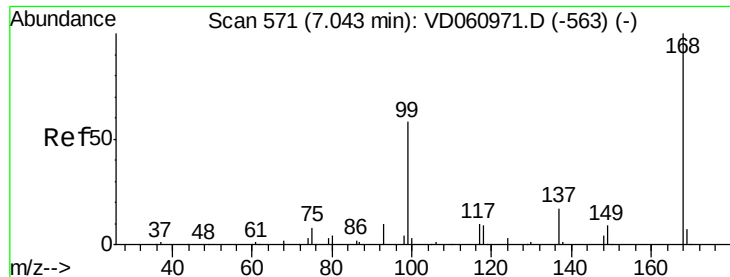
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	238	Below Cal	#	8
10) Methyl Iodide	3.32	142	1261	3.080	ug/l #	39
11) Tert butyl alcohol	3.99	59	21216	83.117	ug/l #	75
16) Acetone	3.22	43	43833	38.230	ug/l	95
17) Carbon Disulfide	3.39	76	166997	10.239	ug/l	99
18) Methyl Acetate	3.64	43	4436	1.966	ug/l #	59
20) Methylene Chloride	3.83	84	34588	2.153	ug/l	95
25) 2-Butanone	6.08	43	5777	4.440	ug/l #	55
29) Tetrahydrofuran	6.46	42	856	1.212	ug/l #	79
31) Cyclohexane	7.04	56	8194	1.155	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	35169	5.020	ug/l #	47
37) Ethyl Acetate	6.14	43	4799	1.460	ug/l #	1
38) Carbon Tetrachloride	7.04	117	46933	6.082	ug/l #	15
40) Benzene	7.46	78	27743	1.585	ug/l	97
52) Toluene	10.51	92	34342	3.155	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.55	75	90610	83.891	ug/l #	17

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061128.D

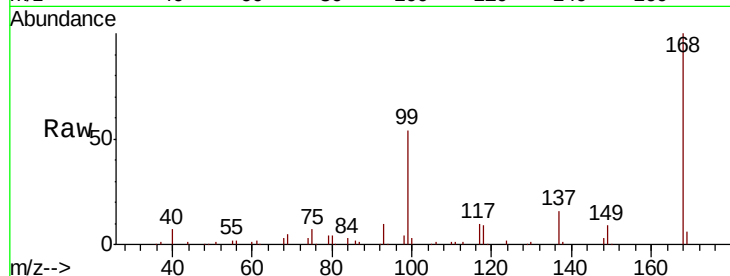
Acq: 17 Mar 2019 1:43

Tgt Ion:168 Resp: 481692

Ion Ratio Lower Upper

168 100

99 53.8 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

150000

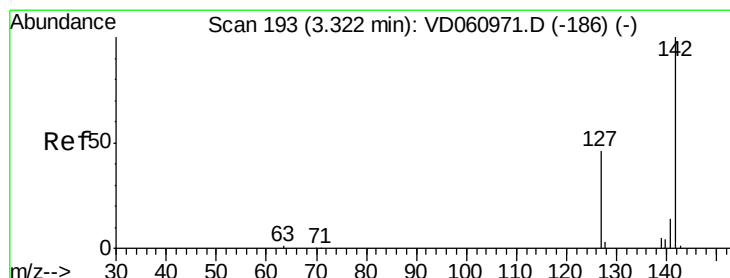
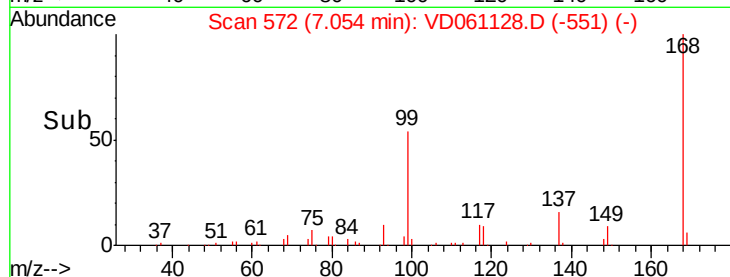
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 3.080 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.00 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

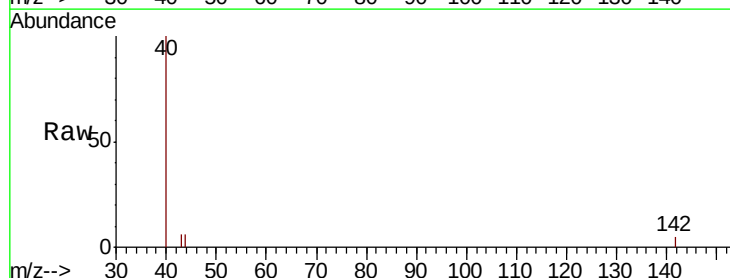
Tgt Ion:142 Resp: 1261

Ion Ratio Lower Upper

142 100

127 0.0 36.8 55.2#

141 0.0 11.2 16.8#



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

600

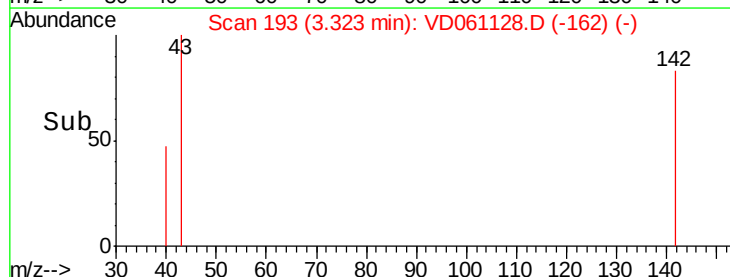
400

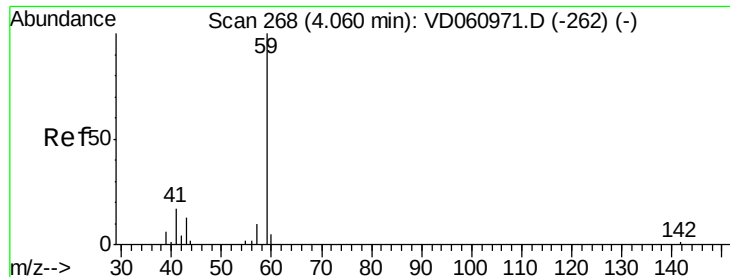
200

0

Time-->

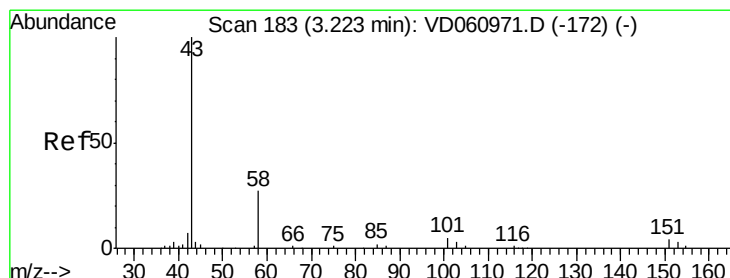
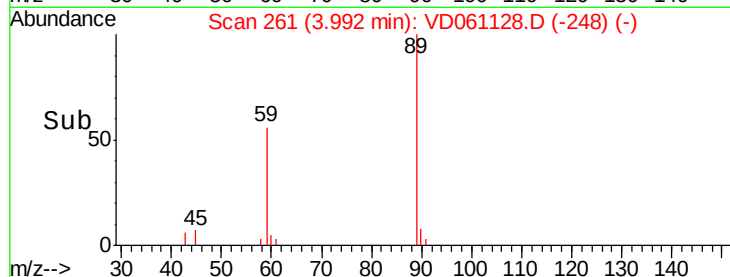
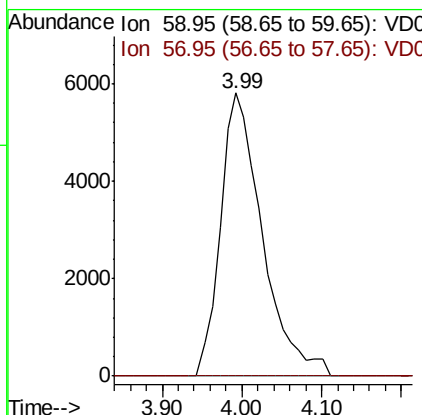
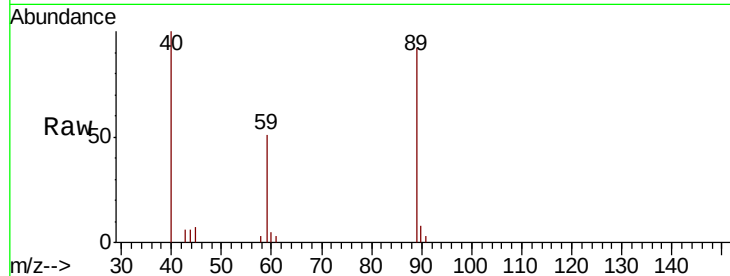
3.30 3.35 3.40





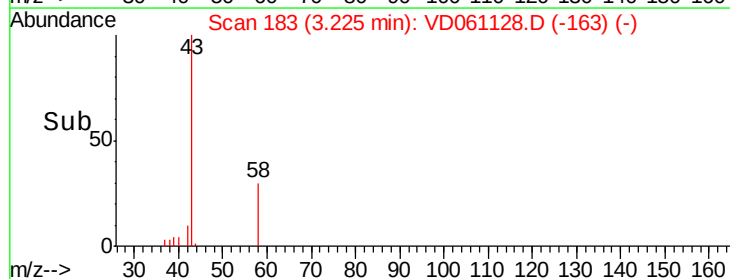
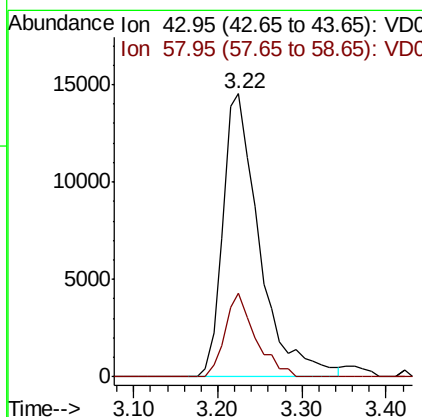
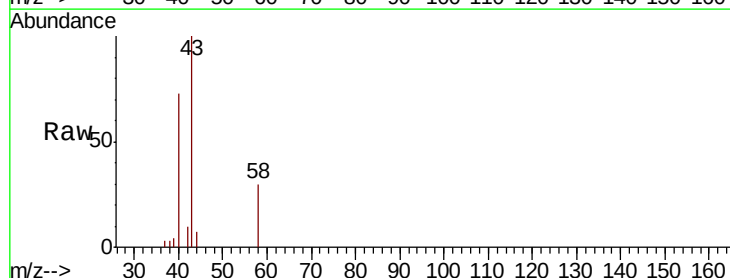
#11
Tert butyl alcohol
Concen: 83.117 ug/l
RT: 3.99 min Scan# 261
Delta R.T. -0.07 min
Lab File: VD061128.D
Acq: 17 Mar 2019 1:43

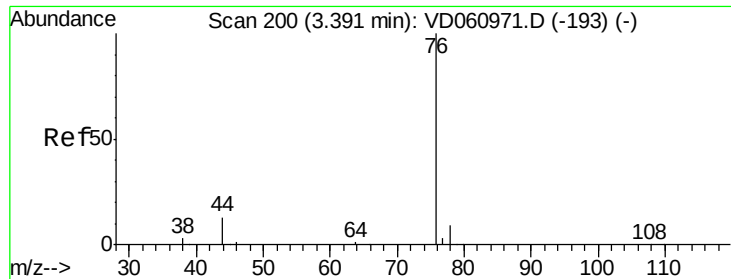
Tgt Ion: 59 Resp: 21216
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#



#16
Acetone
Concen: 38.230 ug/l
RT: 3.22 min Scan# 183
Delta R.T. 0.00 min
Lab File: VD061128.D
Acq: 17 Mar 2019 1:43

Tgt Ion: 43 Resp: 43833
Ion Ratio Lower Upper
43 100
58 29.7 21.6 32.4





#17

Carbon Disulfide

Concen: 10.239 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.00 min

Lab File: VD061128.D

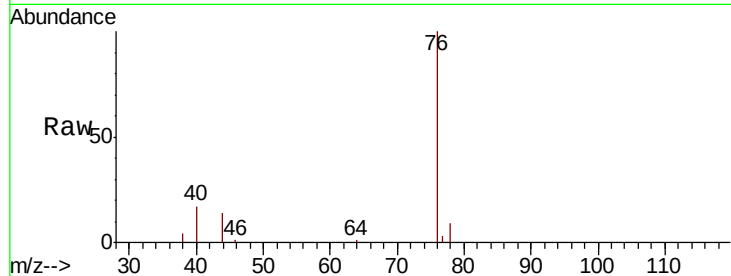
Acq: 17 Mar 2019 1:43

Tgt Ion: 76 Resp: 166997

Ion Ratio Lower Upper

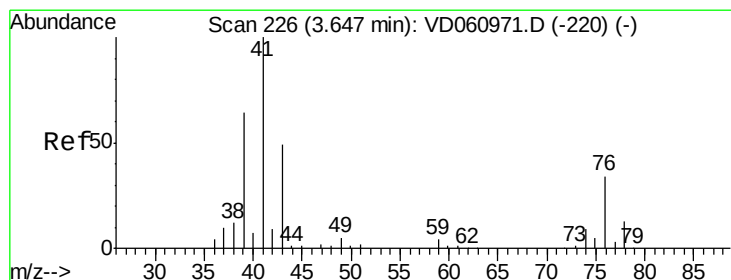
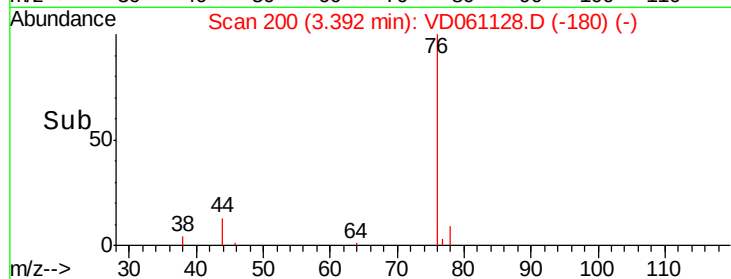
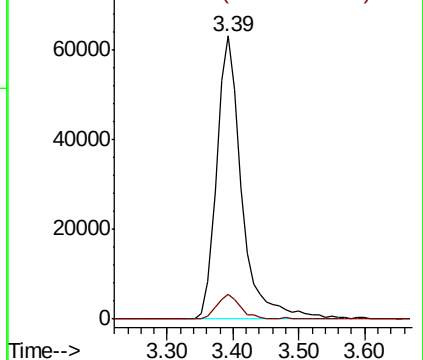
76 100

78 9.0 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 1.966 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD061128.D

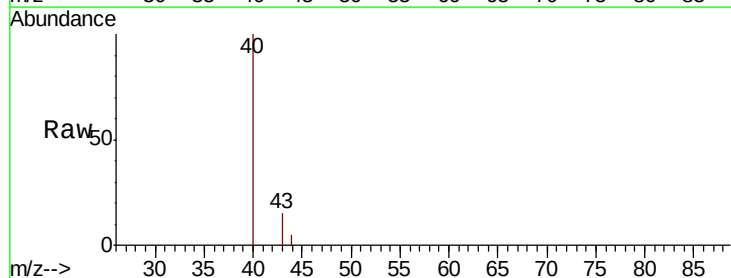
Acq: 17 Mar 2019 1:43

Tgt Ion: 43 Resp: 4436

Ion Ratio Lower Upper

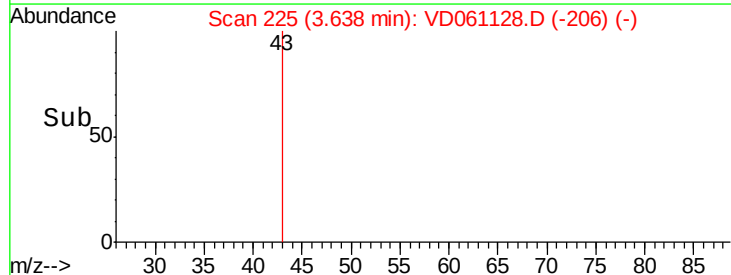
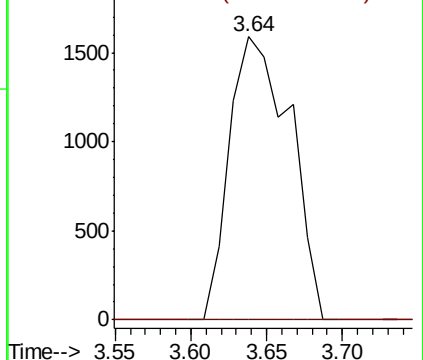
43 100

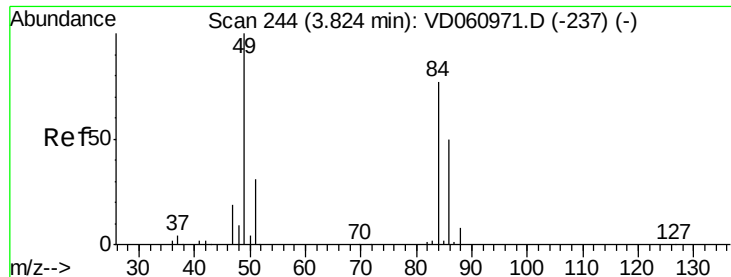
74 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 2.153 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.00 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

Tgt Ion: 84 Resp: 34588

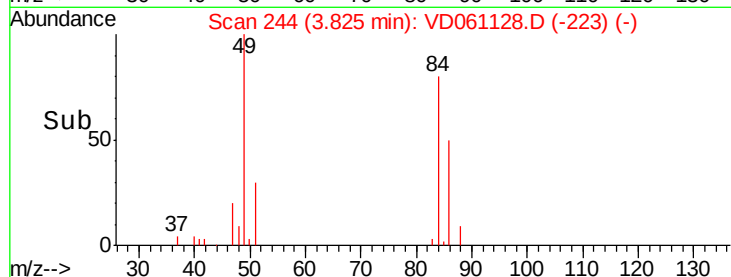
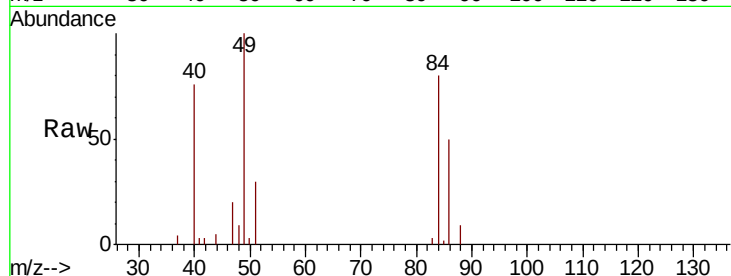
Ion	Ratio	Lower	Upper
84	100		
49	124.2	104.2	156.2
51	37.3	32.3	48.5
86	62.1	52.3	78.5

84 100

49 124.2 104.2 156.2

51 37.3 32.3 48.5

86 62.1 52.3 78.5

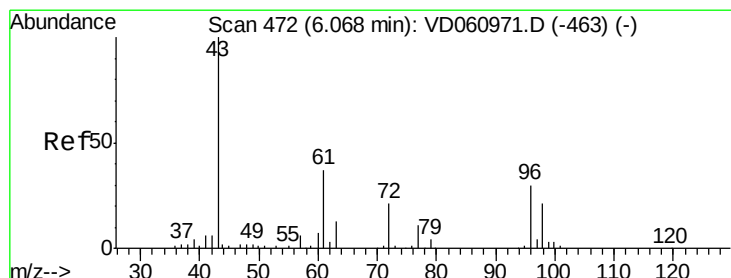
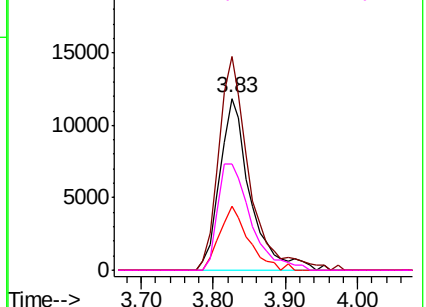


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#25

2-Butanone

Concen: 4.440 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061128.D

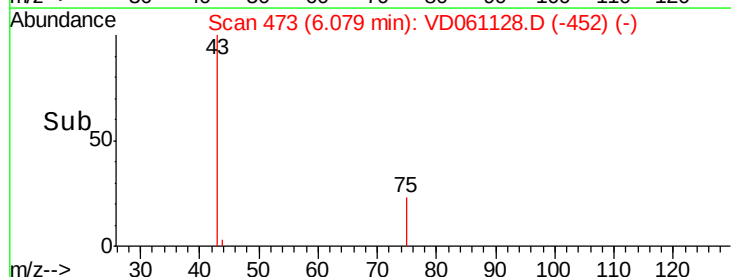
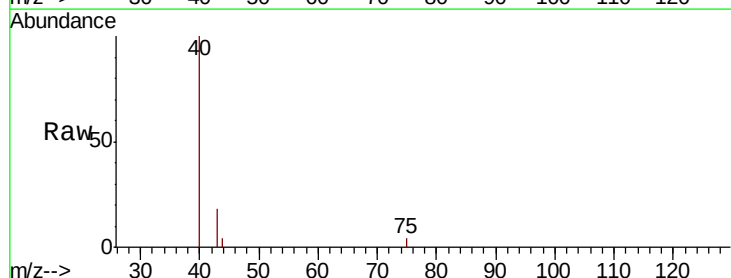
Acq: 17 Mar 2019 1:43

Tgt Ion: 43 Resp: 5777

Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.7	25.1#

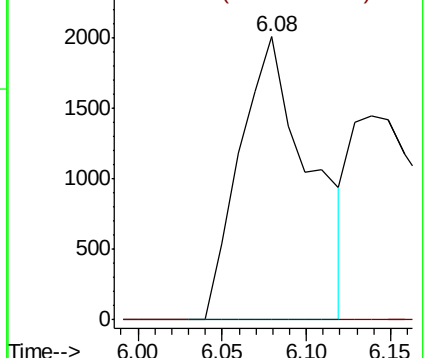
43 100

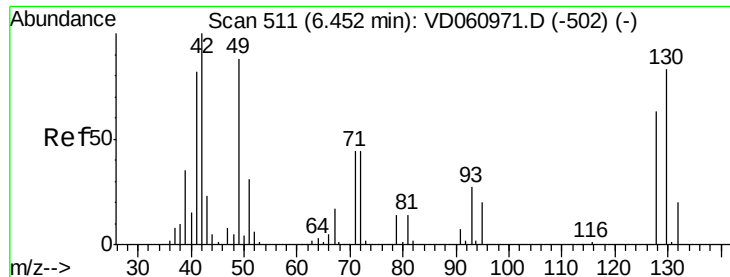
72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.212 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

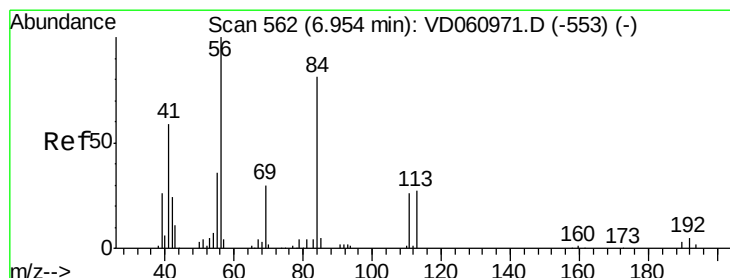
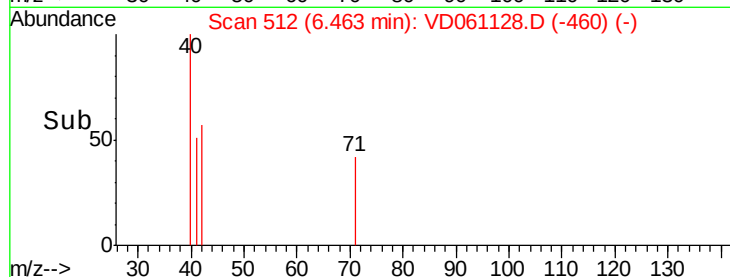
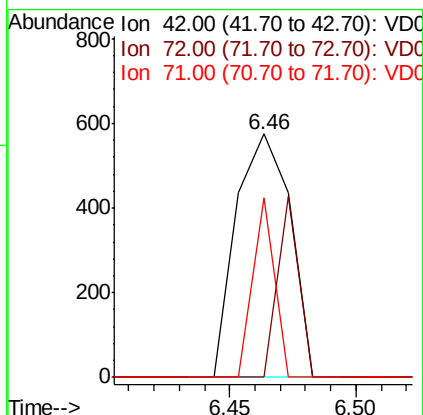
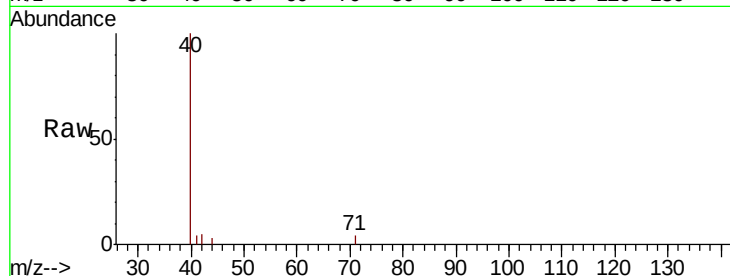
Tgt Ion: 42 Resp: 856

Ion Ratio Lower Upper

42 100

72 29.4 34.5 51.7#

71 29.2 33.8 50.6#



#31

Cyclohexane

Concen: 1.155 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

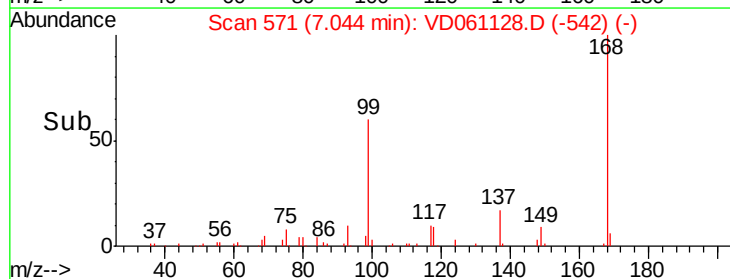
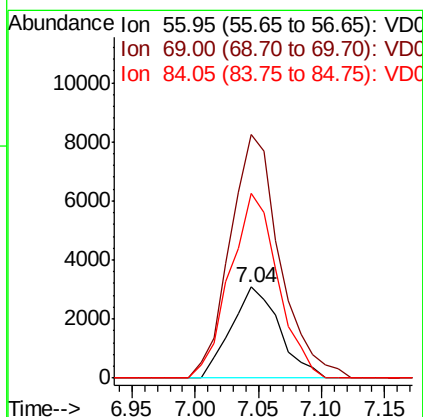
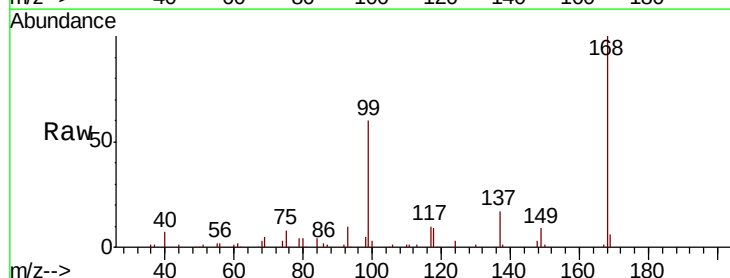
Tgt Ion: 56 Resp: 8194

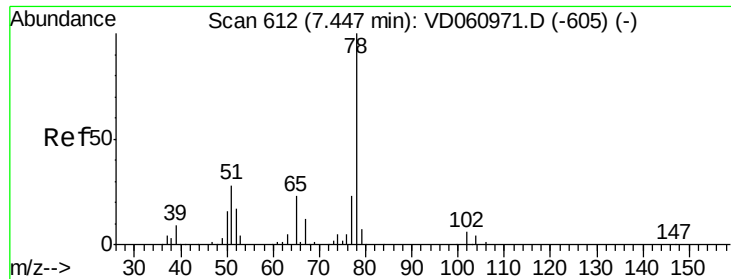
Ion Ratio Lower Upper

56 100

69 267.1 24.0 36.0#

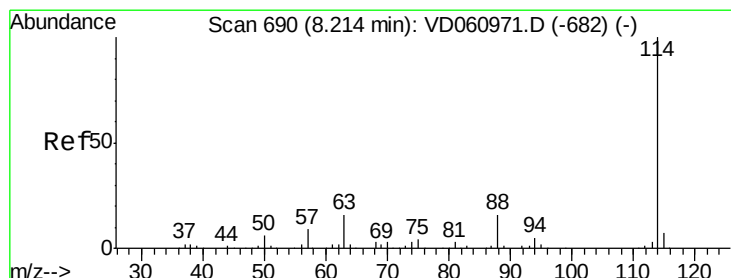
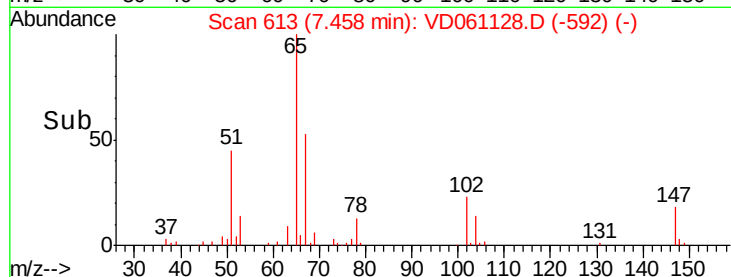
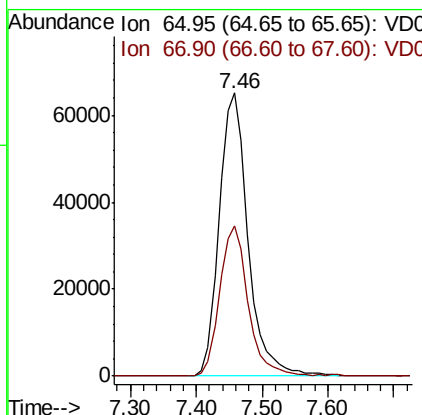
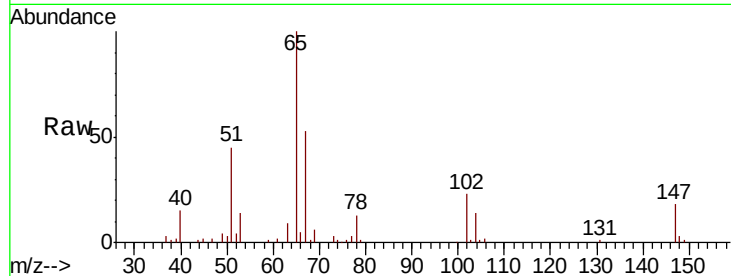
84 203.4 65.8 98.6#





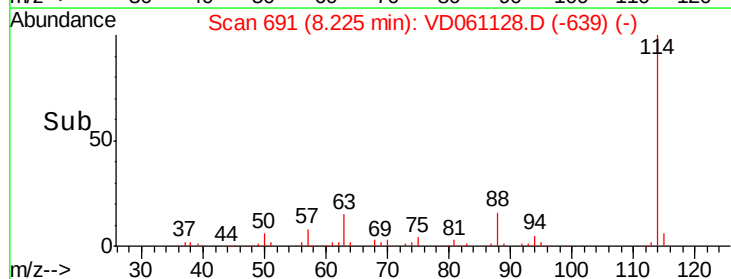
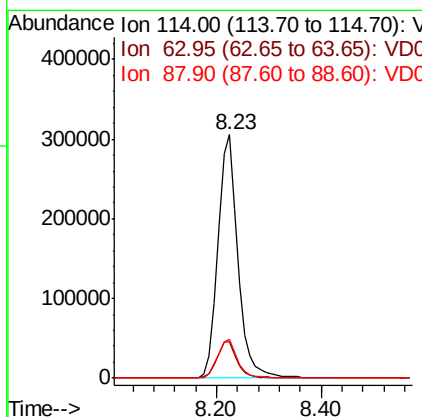
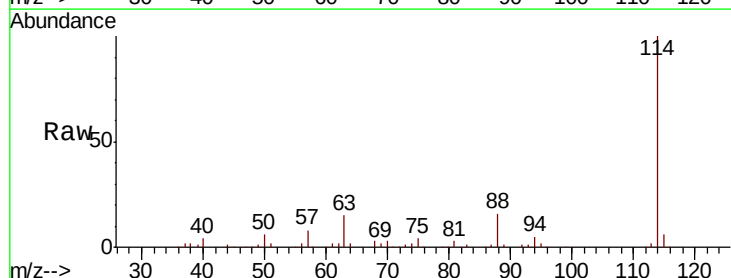
#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD061128.D
 Acq: 17 Mar 2019 1:43

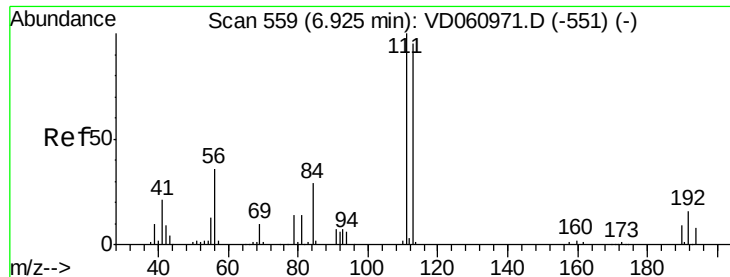
Tgt Ion: 65 Resp: 198521
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD061128.D
 Acq: 17 Mar 2019 1:43

Tgt Ion: 114 Resp: 812694
 Ion Ratio Lower Upper
 114 100
 63 15.1 0.0 31.4
 88 15.9 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

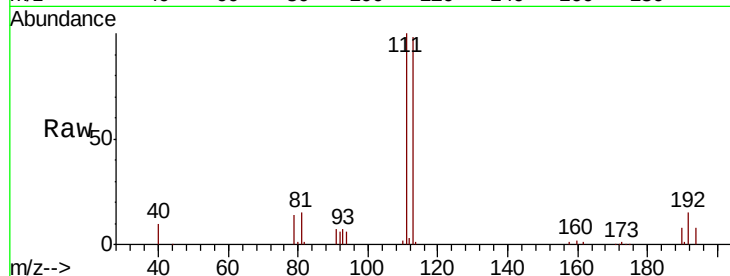
Tgt Ion: 113 Resp: 317555

Ion Ratio Lower Upper

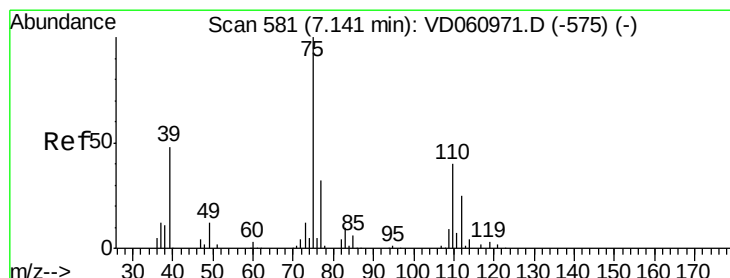
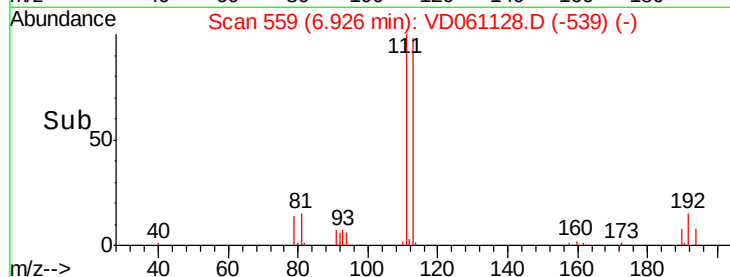
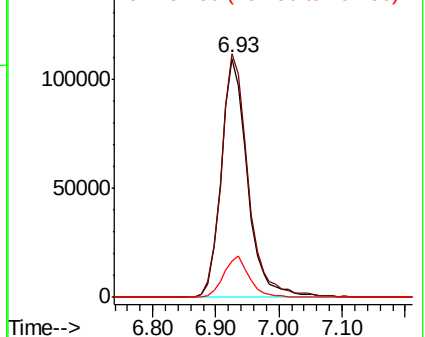
113 100

111 101.8 84.2 126.4

192 15.2 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



#36

1,1-Dichloropropene

Concen: 5.020 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

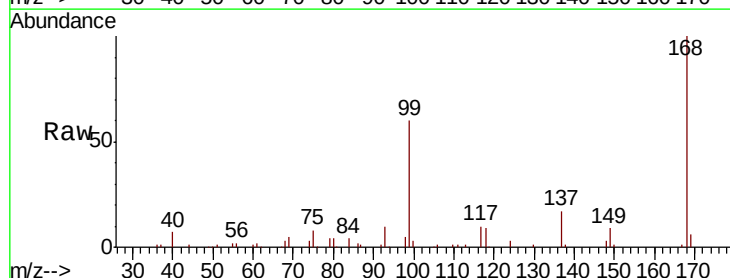
Tgt Ion: 75 Resp: 35169

Ion Ratio Lower Upper

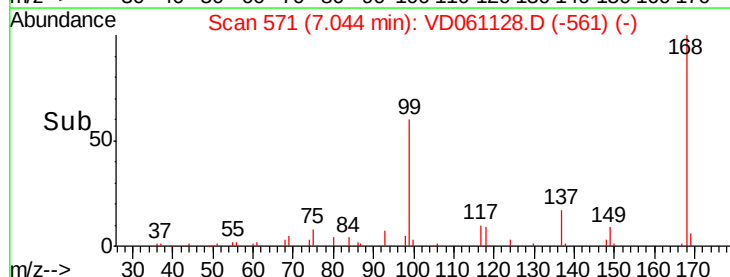
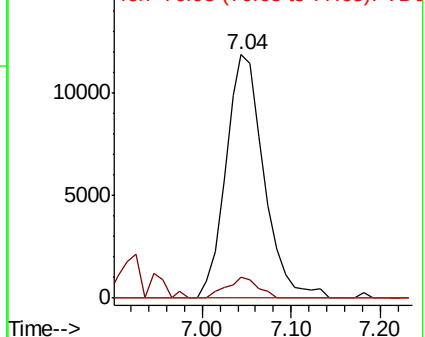
75 100

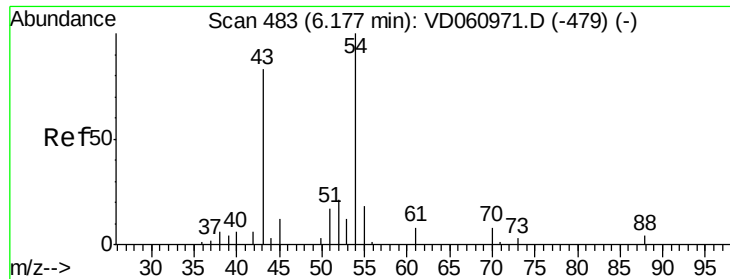
110 8.8 19.7 59.1#

77 0.0 24.7 37.1#



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: 1.460 ug/l

RT: 6.14 min Scan# 479

Delta R.T. -0.04 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

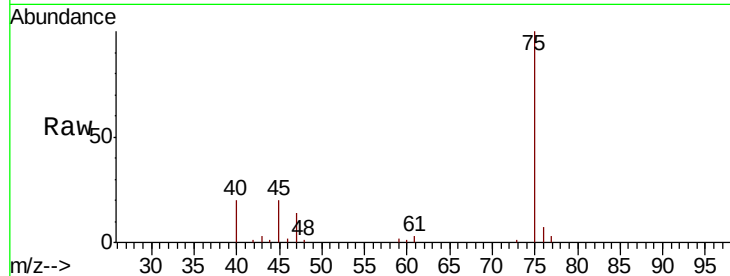
Tgt Ion: 43 Resp: 4799

Ion Ratio Lower Upper

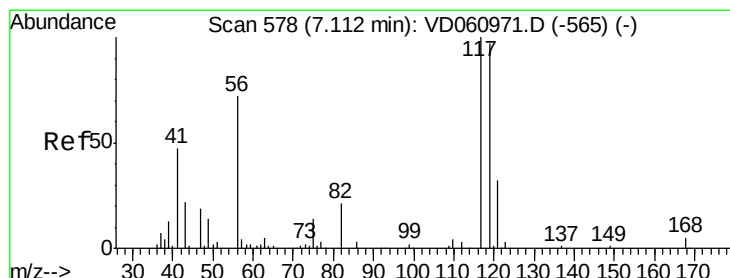
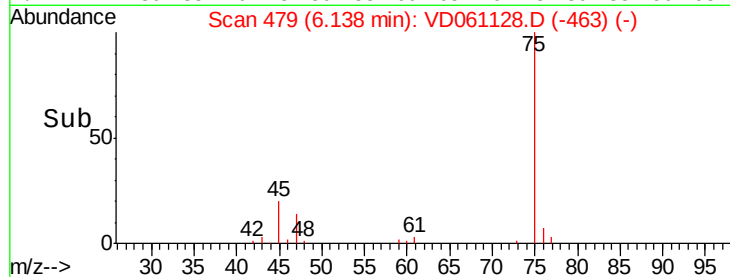
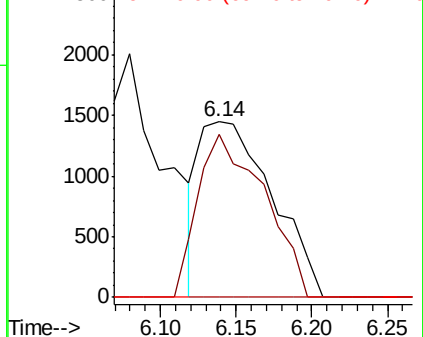
43 100

61 93.0 13.7 20.5#

70 0.0 7.1 10.7#



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: 6.082 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

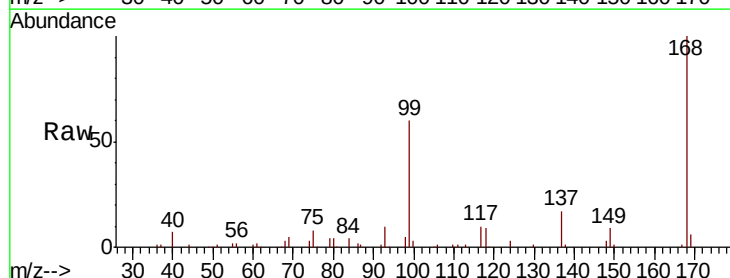
Tgt Ion: 117 Resp: 46933

Ion Ratio Lower Upper

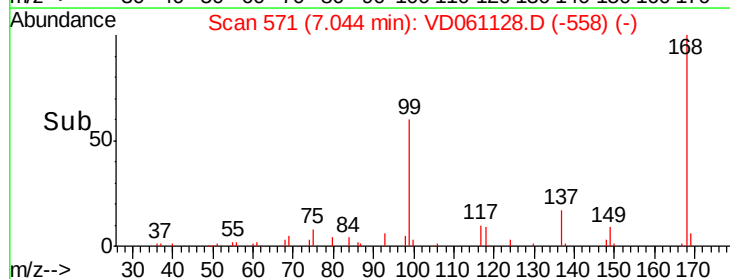
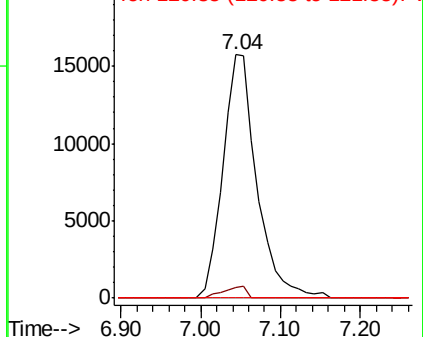
117 100

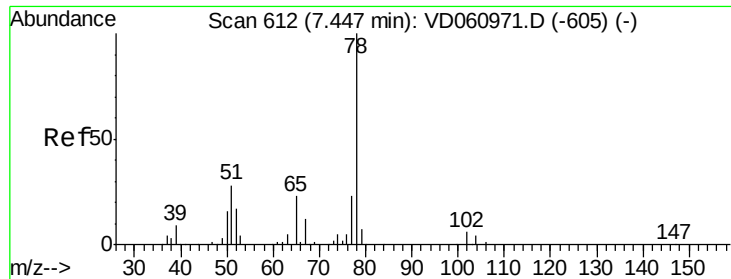
119 4.2 77.8 116.8#

121 0.0 25.3 37.9#



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





#40

Benzene

Concen: 1.585 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061128.D

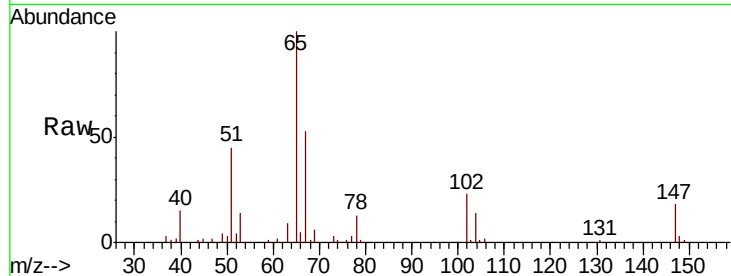
Acq: 17 Mar 2019 1:43

Tgt Ion: 78 Resp: 27743

Ion Ratio Lower Upper

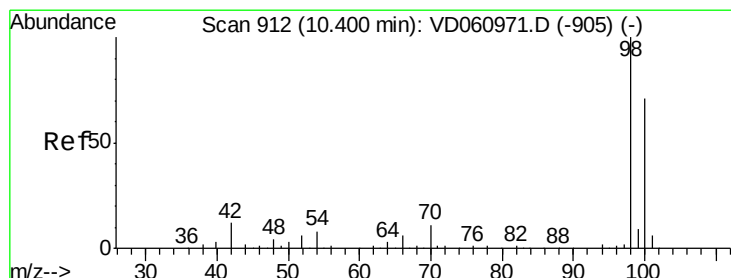
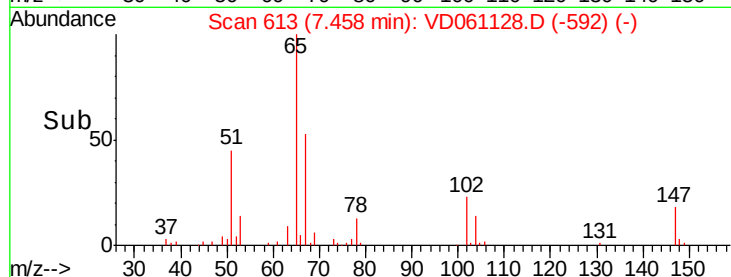
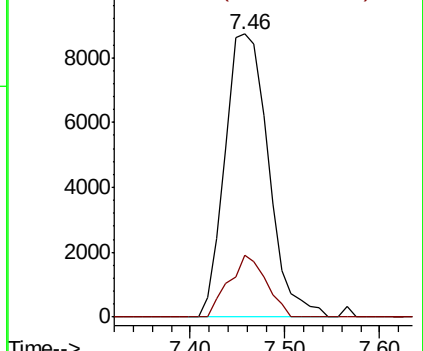
78 100

77 21.9 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061128.D

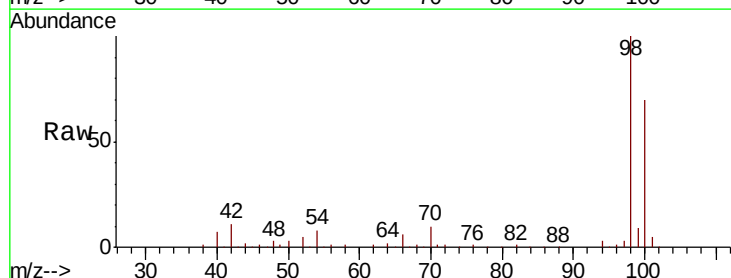
Acq: 17 Mar 2019 1:43

Tgt Ion: 98 Resp: 653006

Ion Ratio Lower Upper

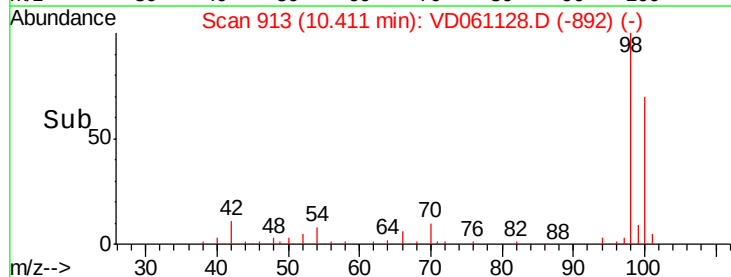
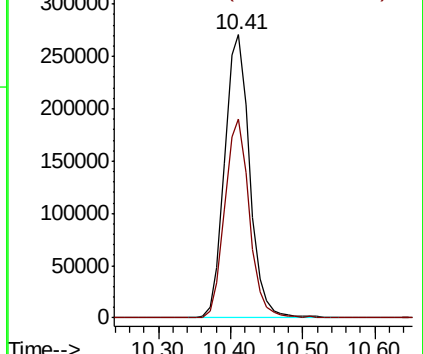
98 100

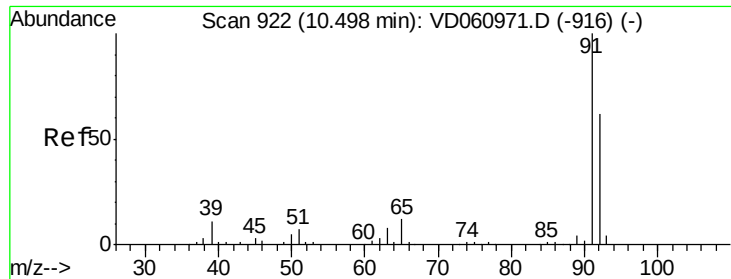
100 70.3 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 3.155 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD061128.D

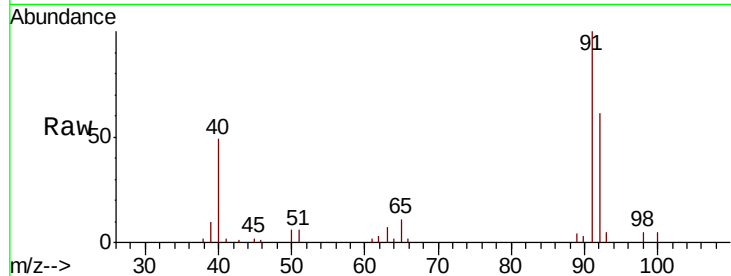
Acq: 17 Mar 2019 1:43

Tgt Ion: 92 Resp: 34342

Ion Ratio Lower Upper

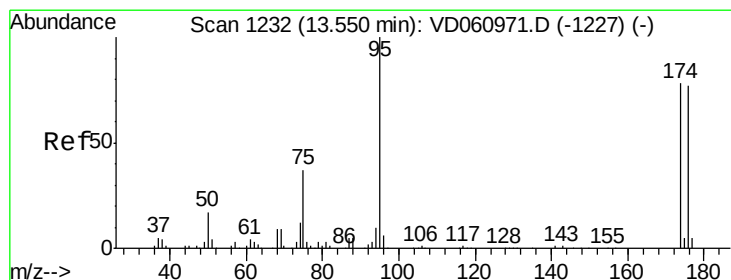
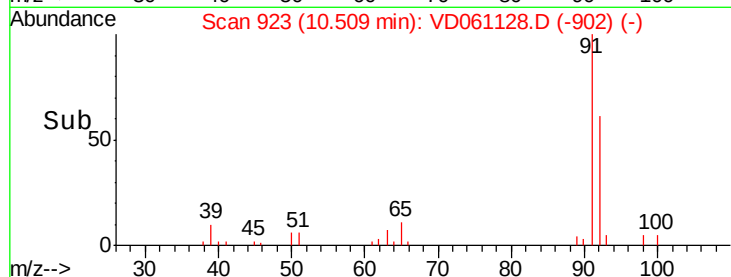
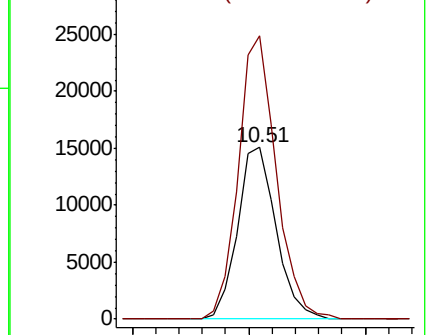
92 100

91 164.9 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

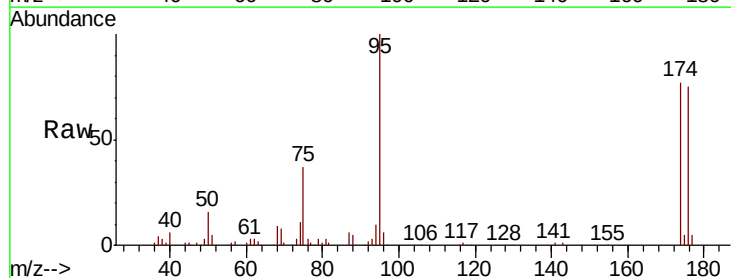
Tgt Ion: 95 Resp: 253764

Ion Ratio Lower Upper

95 100

174 77.3 0.0 155.6

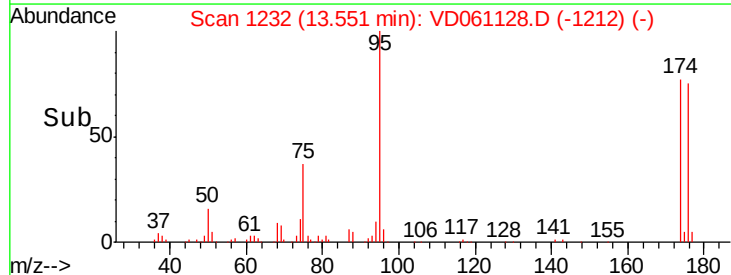
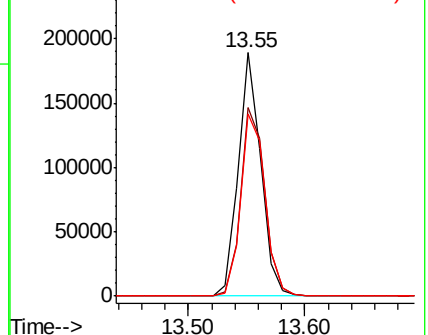
176 75.0 0.0 153.8

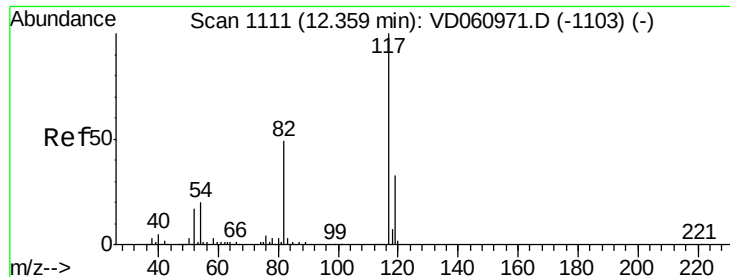


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

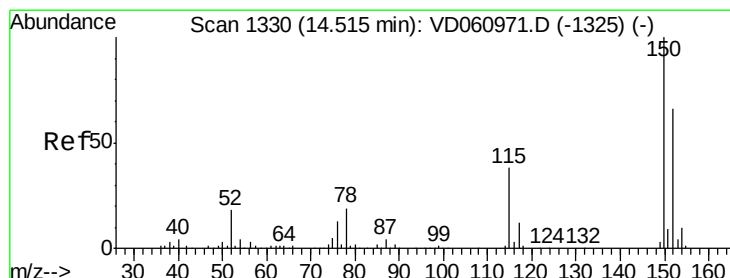
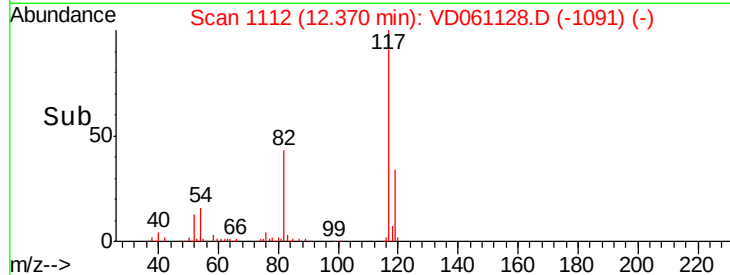
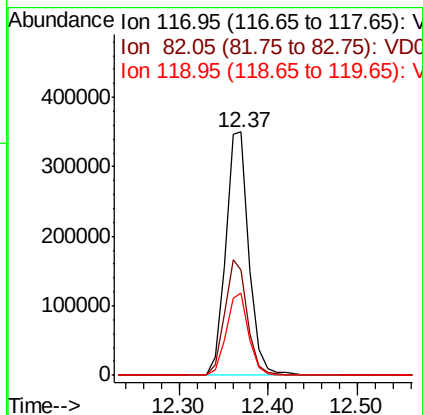
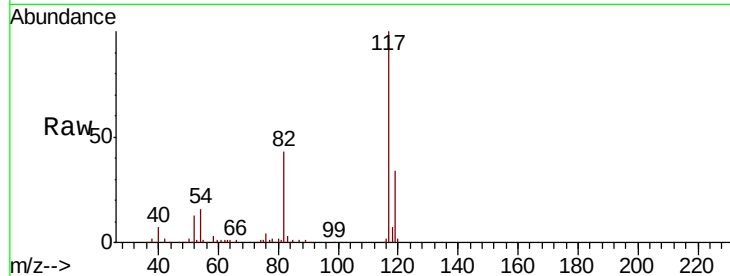
Ion 175.90 (175.60 to 176.60): V





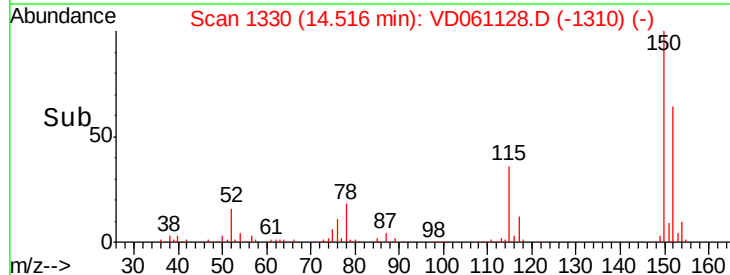
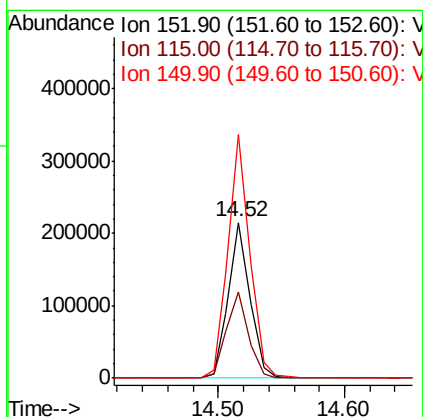
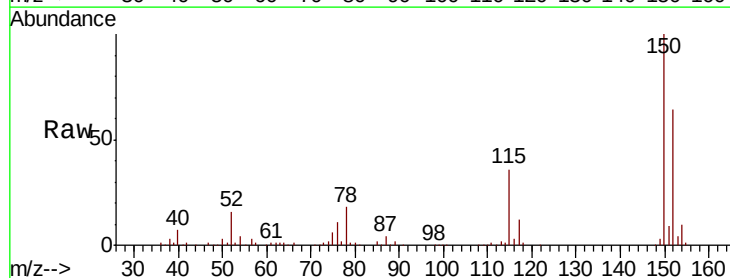
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061128.D
Acq: 17 Mar 2019 1:43

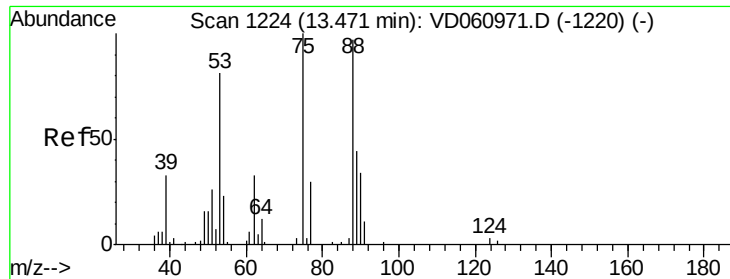
Tgt Ion:117 Resp: 643805
Ion Ratio Lower Upper
117 100
82 43.0 38.9 58.3
119 33.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061128.D
Acq: 17 Mar 2019 1:43

Tgt Ion:152 Resp: 254646
Ion Ratio Lower Upper
152 100
115 55.8 28.6 85.9
150 156.7 0.0 310.6





#81

trans-1,4-Dichloro-2-butene

Concen: 83.891 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061128.D

Acq: 17 Mar 2019 1:43

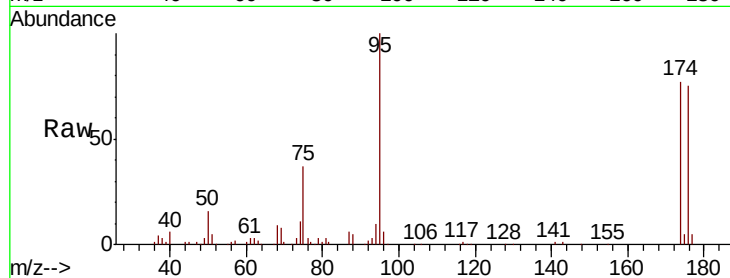
Tgt Ion: 75 Resp: 90610

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

