

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031919\
 Data File : VD061188.D
 Acq On : 19 Mar 2019 16:39
 Operator : VA/AP
 Sample : K1935-01
 Misc : 3.09g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-17(0.5-1.5)

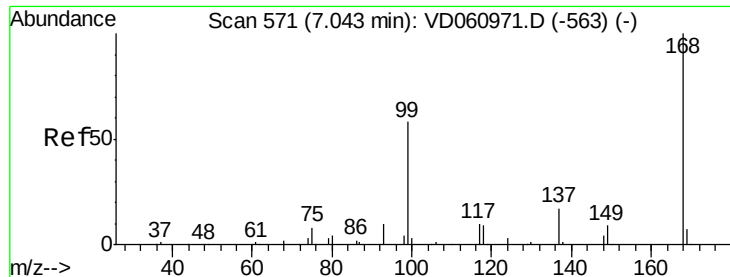
Quant Time: Mar 20 01:52:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	529192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	954777	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	625219	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	92538	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	272272	61.81	ug/l	0.00
Spiked Amount			Recovery	=	123.62%	
35) Dibromofluoromethane	6.91	113	444019	62.66	ug/l	-0.01
Spiked Amount			Recovery	=	125.32%	
50) Toluene-d8	10.40	98	854769	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
62) 4-Bromofluorobenzene	13.55	95	169471	24.55	ug/l	0.00
Spiked Amount			Recovery	=	49.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	290	Below Cal	#	8
10) Methyl Iodide	3.31	142	1632	3.106	ug/l #	39
16) Acetone	3.21	43	3236	2.569	ug/l #	48
20) Methylene Chloride	3.81	84	34519	1.485	ug/l	96
31) Cyclohexane	7.03	56	8438	1.083	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	36453	4.429	ug/l #	45
38) Carbon Tetrachloride	7.04	117	50293	5.548	ug/l #	15
51) 4-Methyl-2-Pentanone	10.40	43	3803	1.161	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	59345	151.197	ug/l #	17
95) Naphthalene	16.12	128	3192	1.787	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

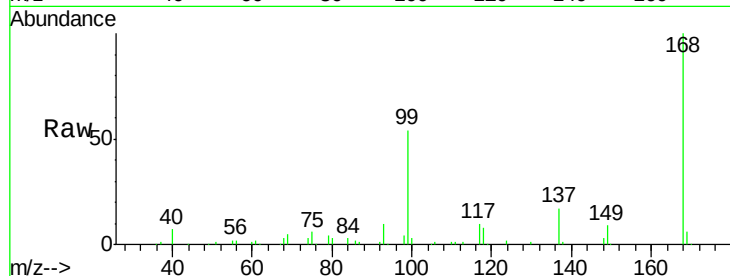
SB-17(0.5-1.5)

Tot Ion:168 Resp: 529192

Ion Ratio Lower Upper

168 100

99 54.4 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

200000

150000

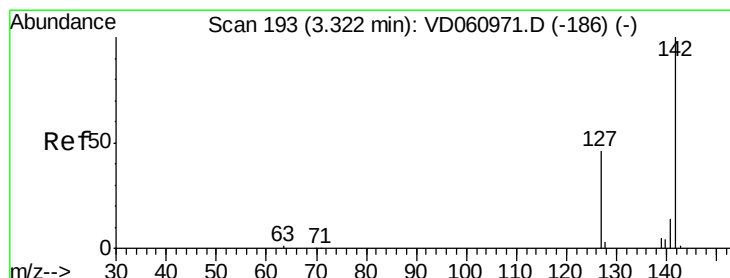
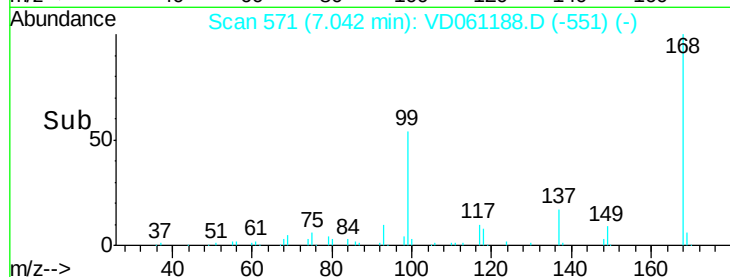
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 3.106 ug/l

RT: 3.31 min Scan# 192

Delta R.T. -0.01 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

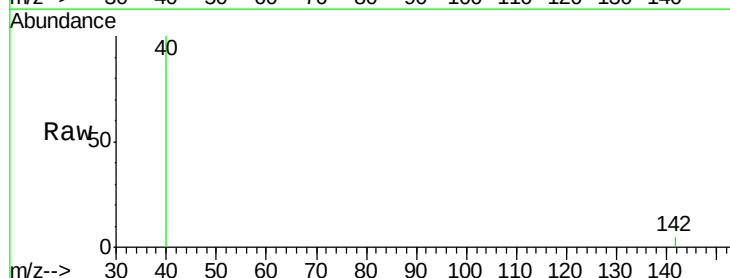
Tgt Ion:142 Resp: 1632

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

3.31

800

600

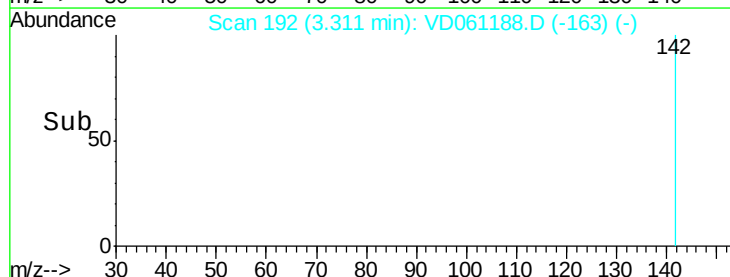
400

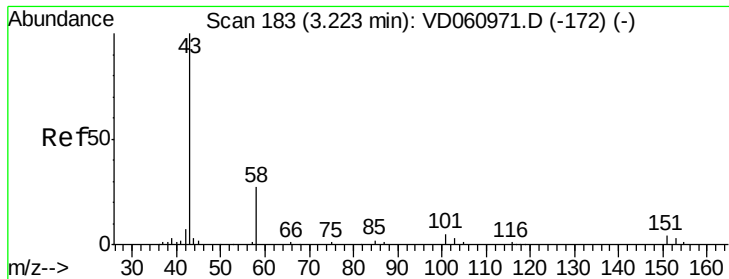
200

0

Time-->

3.25 3.30 3.35 3.40





#16

Acetone

Concen: 2.569 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

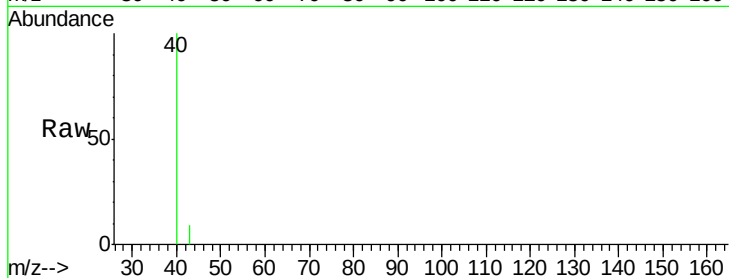
SB-17(0.5-1.5)

Tot Ion: 43 Resp: 3236

Ion Ratio Lower Upper

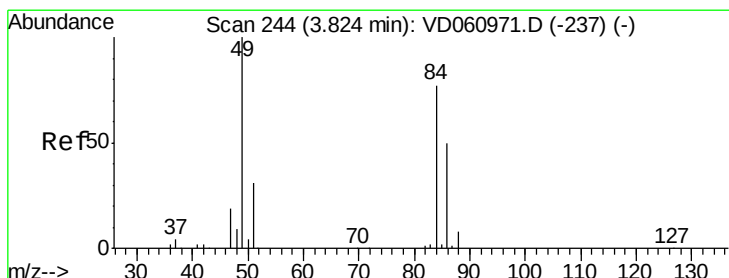
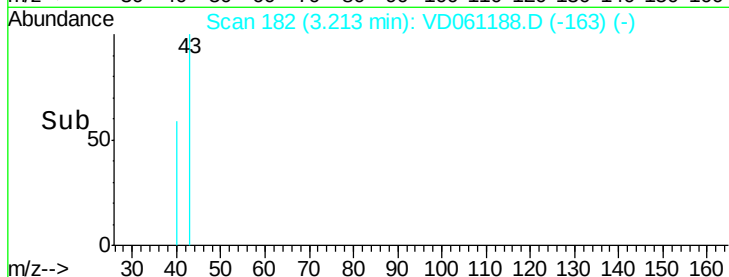
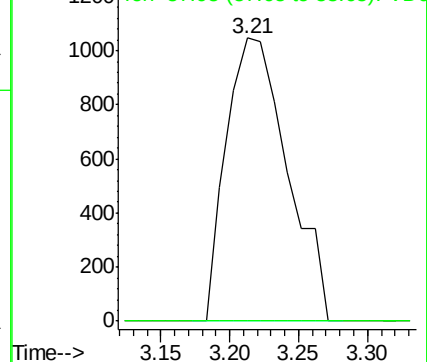
43 100

58 0.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 1.485 ug/l

RT: 3.81 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

Tgt Ion: 84 Resp: 34519

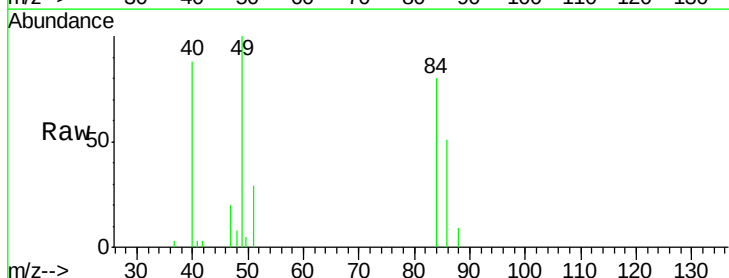
Ion Ratio Lower Upper

84 100

49 124.7 104.2 156.2

51 35.8 32.3 48.5

86 63.9 52.3 78.5

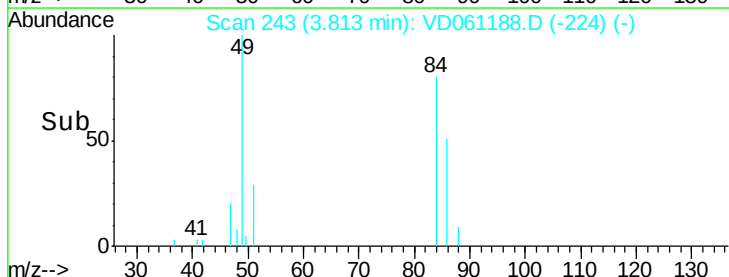
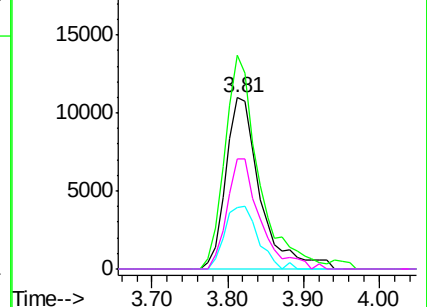


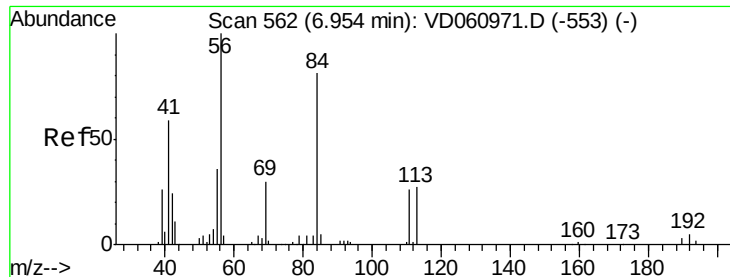
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

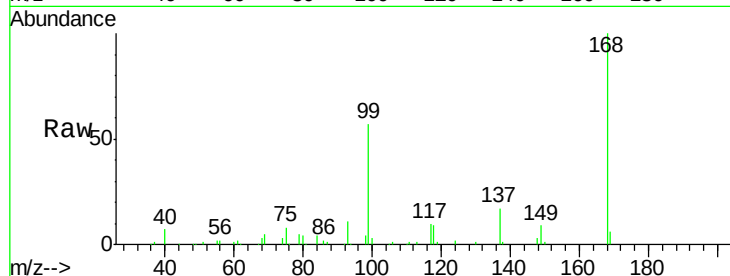




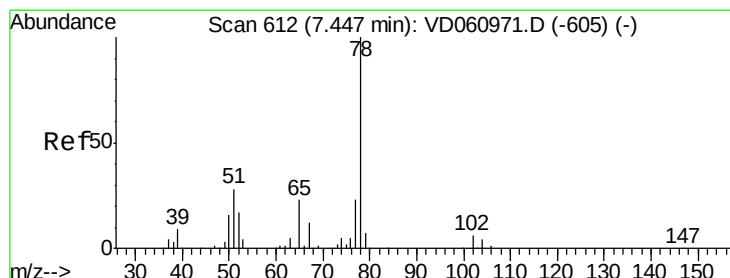
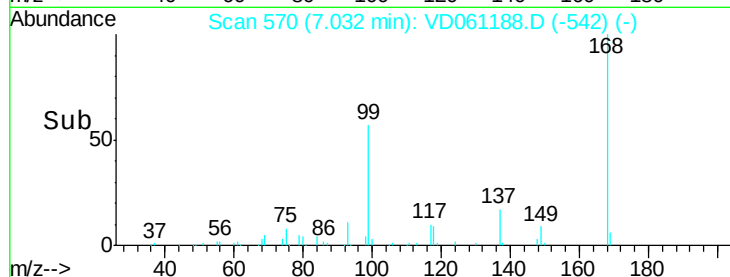
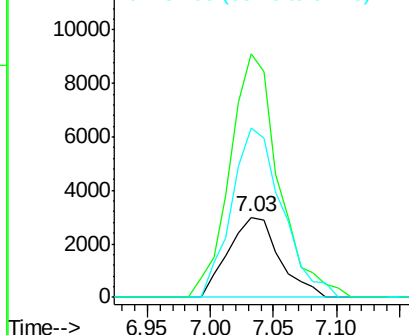
#31
Cyclohexane
Concen: 1.083 ug/l
RT: 7.03 min Scan# 570
Delta R.T. 0.08 min
Lab File: VD061188.D
Acq: 19 Mar 2019 16:39

Instrument :
MSVOA_D
ClientSampleId :
SB-17(0.5-1.5)

Tot Ion: 56 Resp: 8438
Ion Ratio Lower Upper
56 100
69 304.0 24.0 36.0#
84 211.9 65.8 98.6#

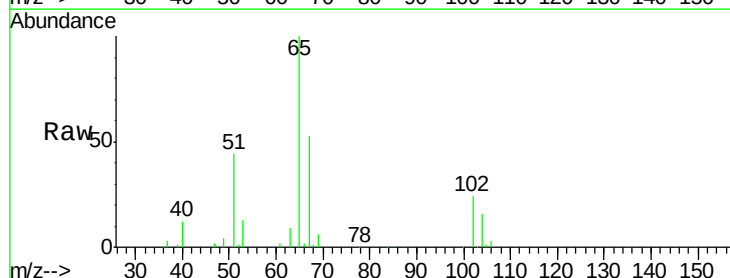


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

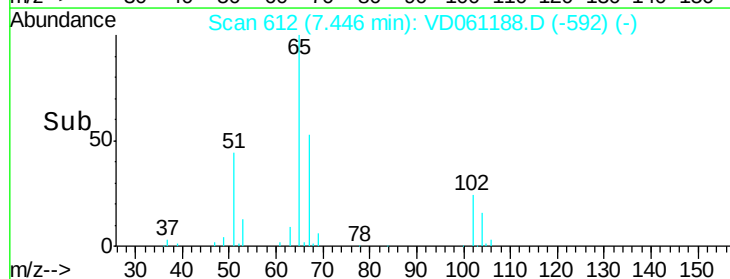
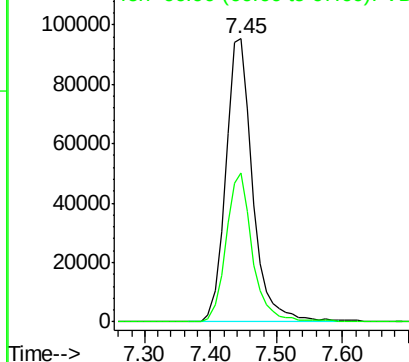


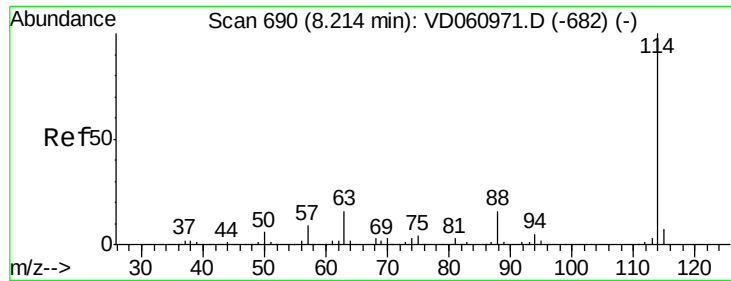
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.00 min
Lab File: VD061188.D
Acq: 19 Mar 2019 16:39

Tgt Ion: 65 Resp: 272272
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.2



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: 8.20 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

SB-17(0.5-1.5)

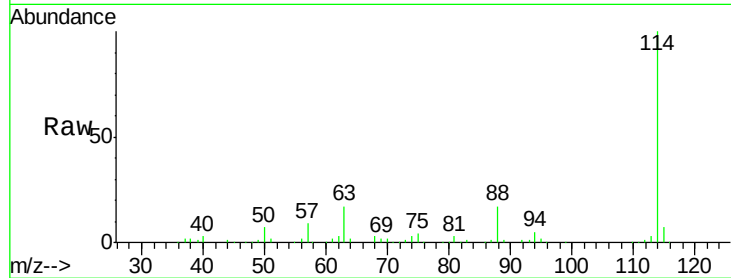
Tot Ion:114 Resp: 954777

Ion Ratio Lower Upper

114 100

63 17.2 0.0 31.4

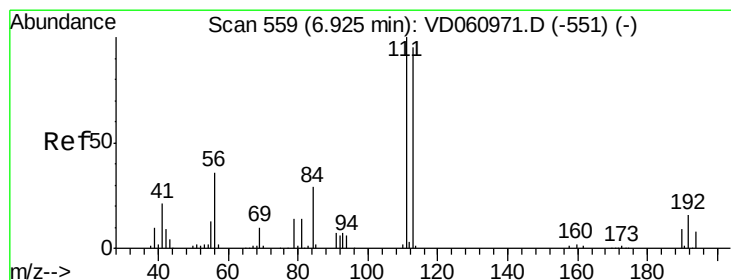
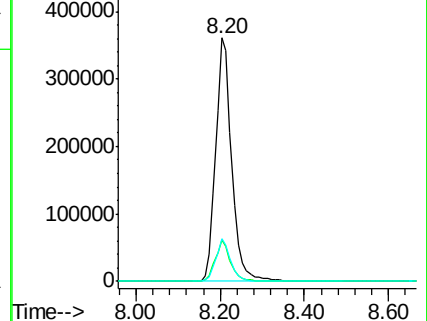
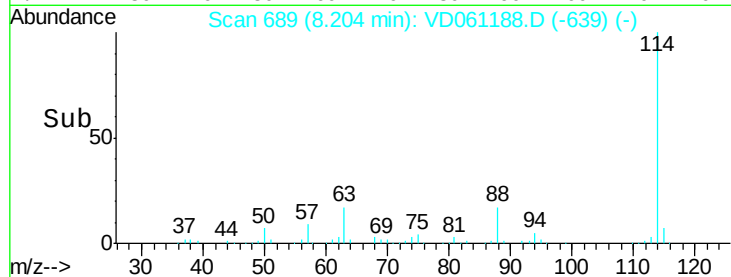
88 17.4 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.91 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

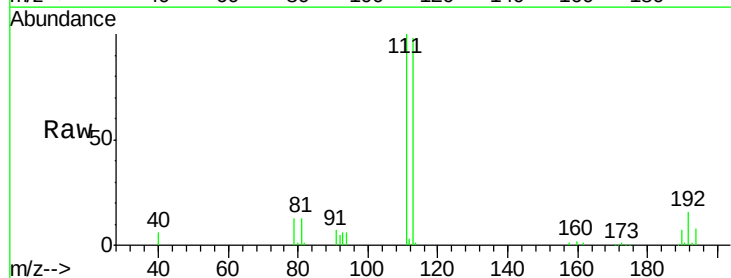
Tgt Ion:113 Resp: 444019

Ion Ratio Lower Upper

113 100

111 102.2 84.2 126.4

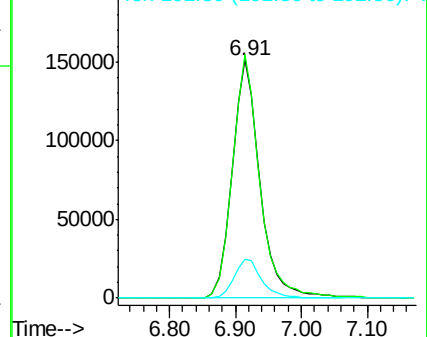
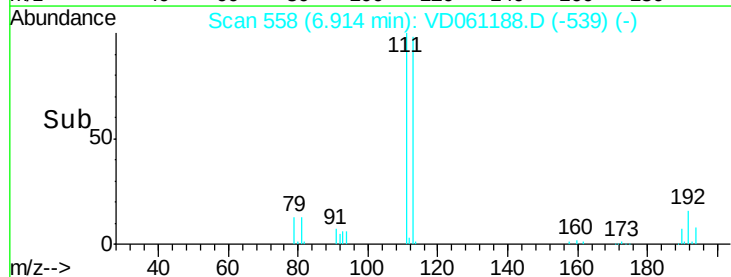
192 16.5 13.1 19.7

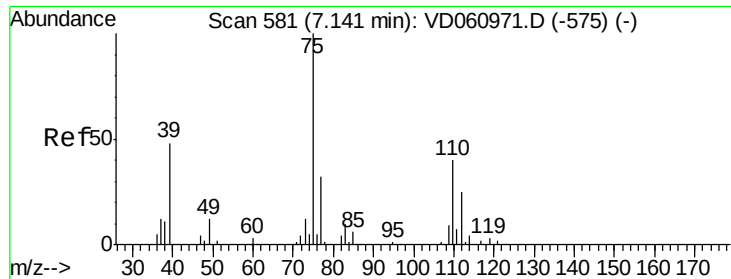


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

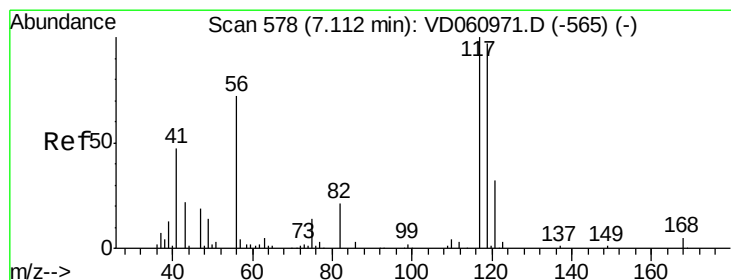
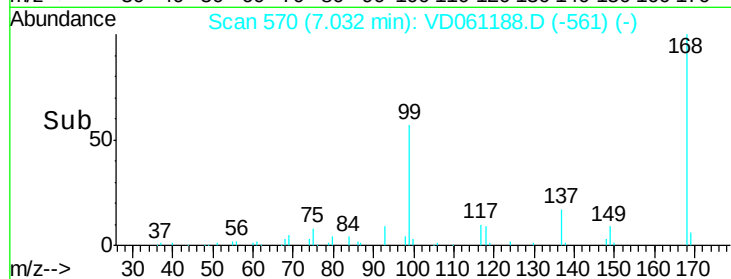
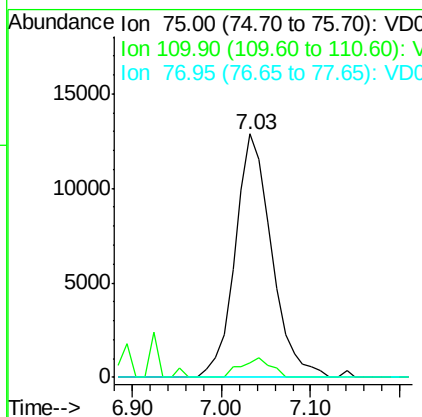
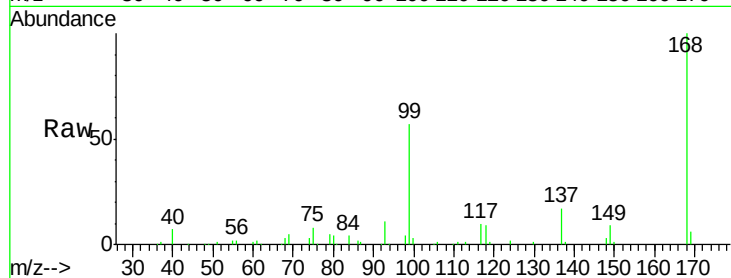




#36
 1,1-Dichloropropene
 Concen: 4.429 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.11 min
 Lab File: VD061188.D
 Acq: 19 Mar 2019 16:39

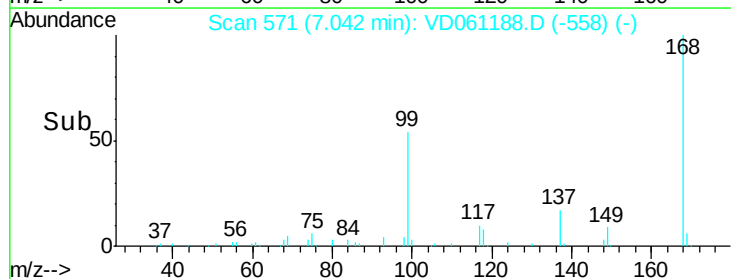
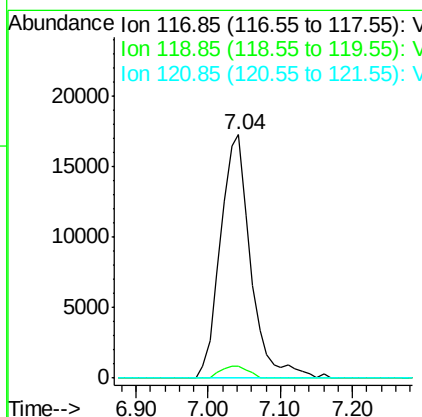
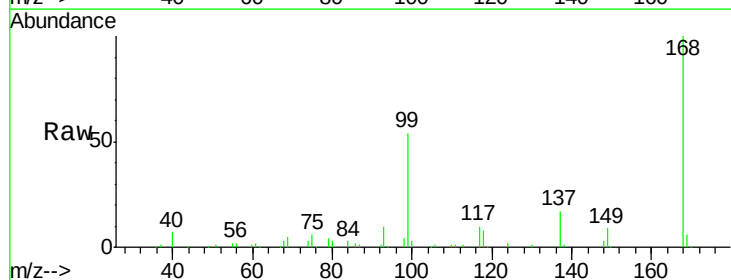
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-17(0.5-1.5)

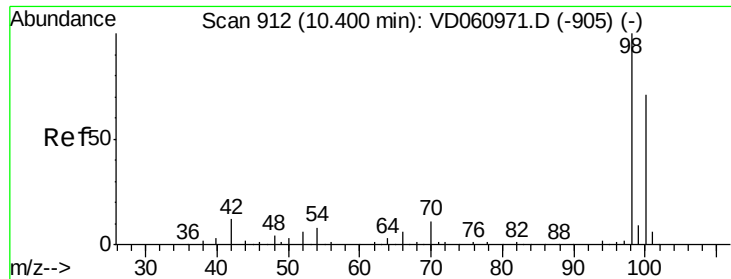
Tot Ion	75	Resp	36453
Ion Ratio	Lower	Upper	
75	100		
110	6.2	19.7	59.1#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 5.548 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD061188.D
 Acq: 19 Mar 2019 16:39

Tgt Ion	117	Resp	50293
Ion Ratio	Lower	Upper	
117	100		
119	4.7	77.8	116.8#
121	0.0	25.3	37.9#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

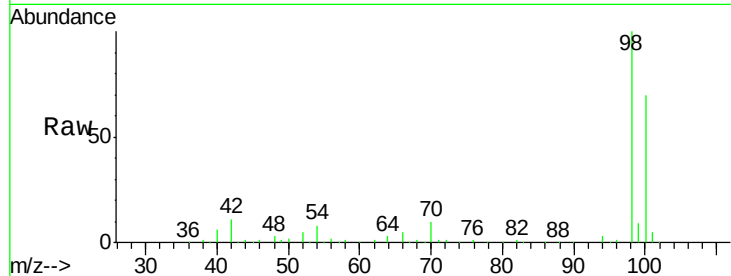
SB-17(0.5-1.5)

Tot Ion: 98 Resp: 854769

Ion Ratio Lower Upper

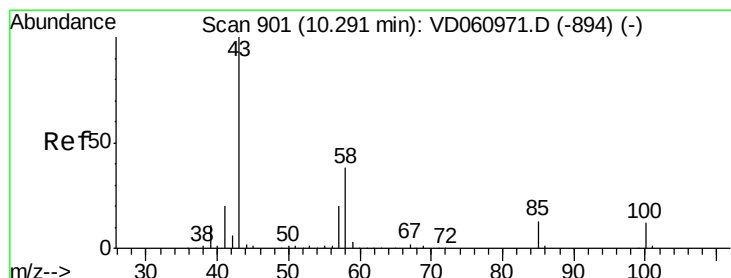
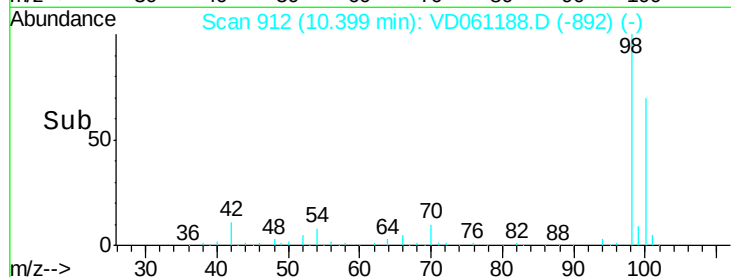
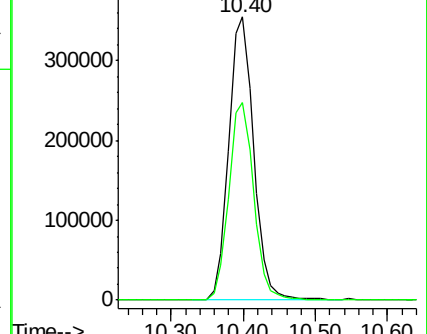
98 100

100 69.9 57.4 86.2



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: 1.161 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.11 min

Lab File: VD061188.D

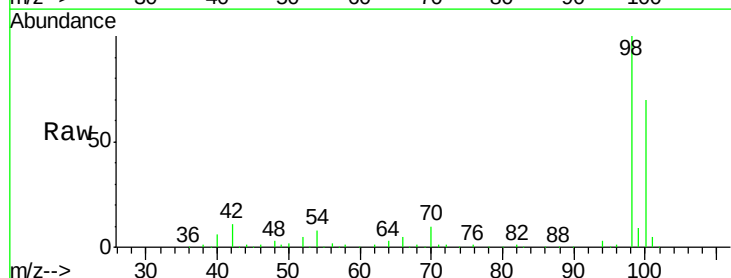
Acq: 19 Mar 2019 16:39

Tgt Ion: 43 Resp: 3803

Ion Ratio Lower Upper

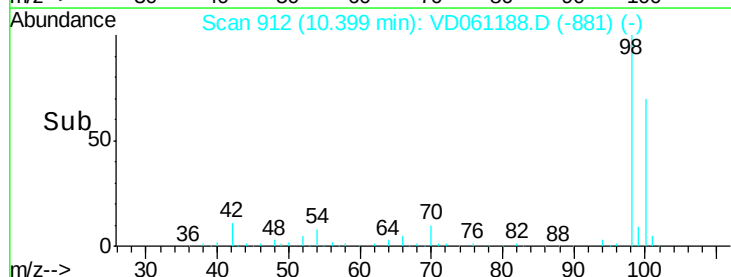
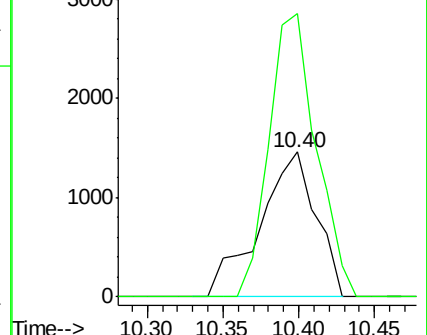
43 100

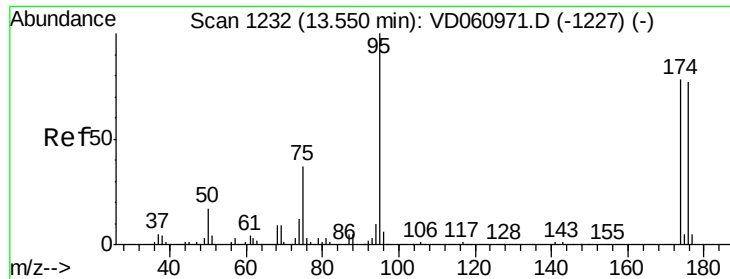
58 195.1 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

SB-17(0.5-1.5)

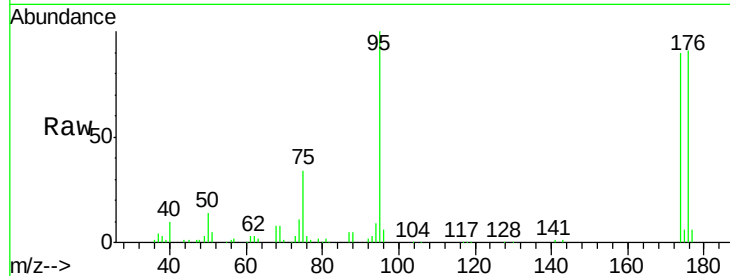
Tot Ion: 95 Resp: 169471

Ion Ratio Lower Upper

95 100

174 90.0 0.0 155.6

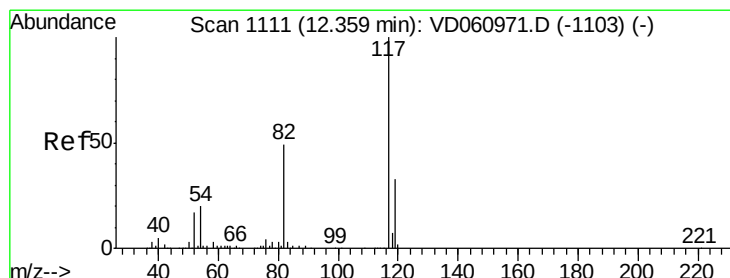
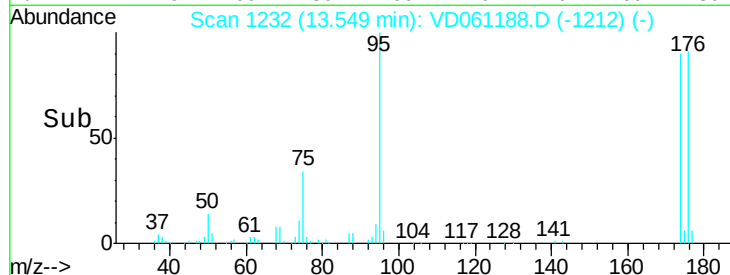
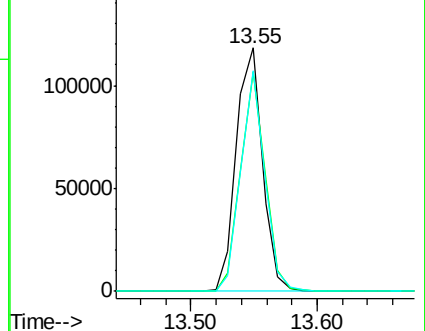
176 90.6 0.0 153.8



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: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

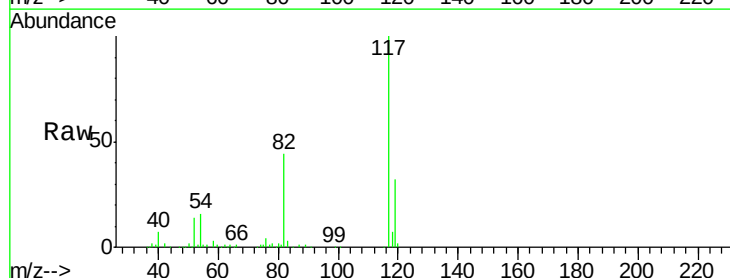
Tgt Ion: 117 Resp: 625219

Ion Ratio Lower Upper

117 100

82 44.3 38.9 58.3

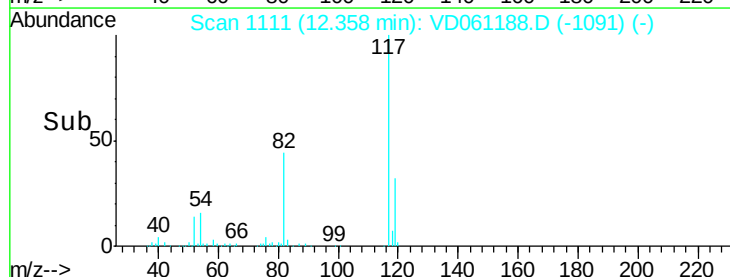
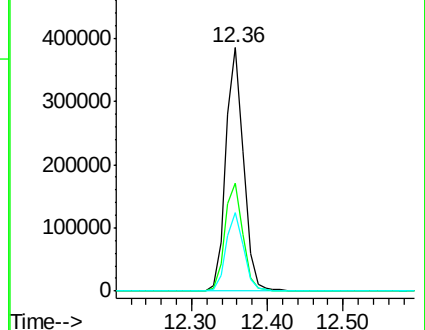
119 32.0 26.6 39.8

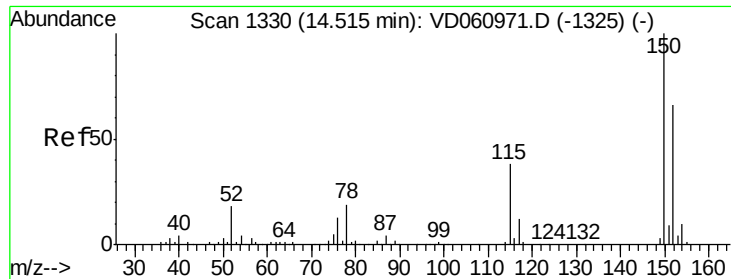


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

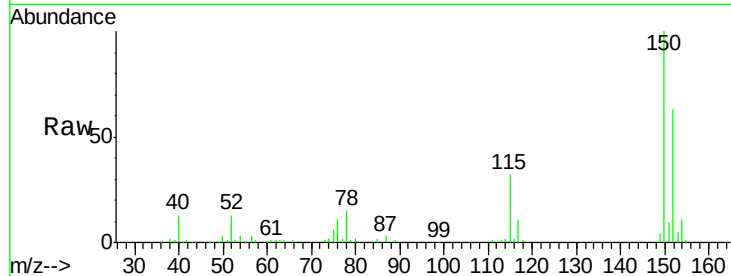




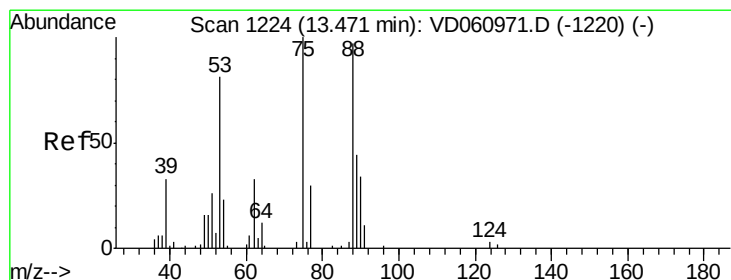
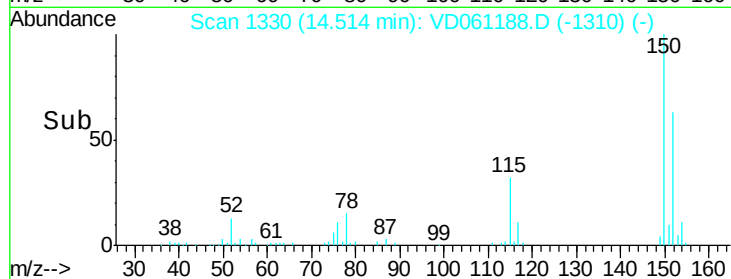
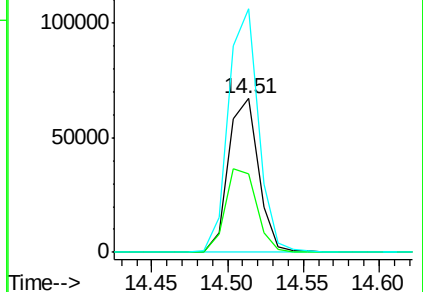
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD061188.D
 Acq: 19 Mar 2019 16:39

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-17(0.5-1.5)

Tot Ion:152 Resp: 92538
 Ion Ratio Lower Upper
 152 100
 115 51.4 28.6 85.9
 150 158.7 0.0 310.6

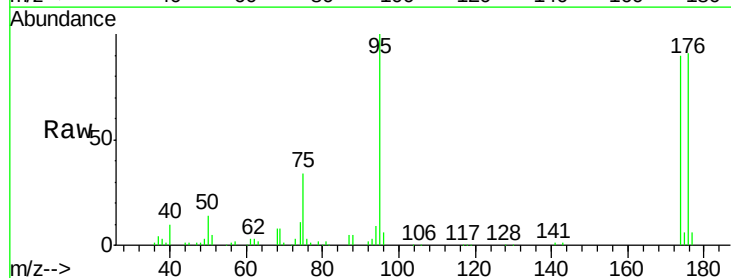


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

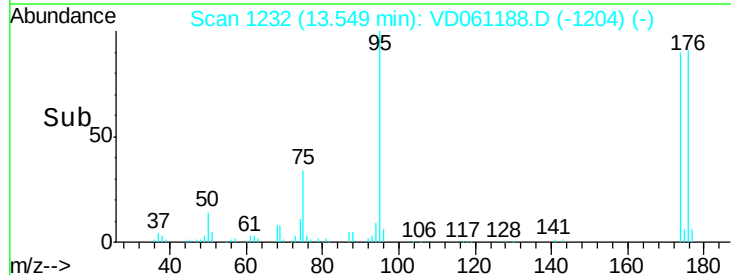
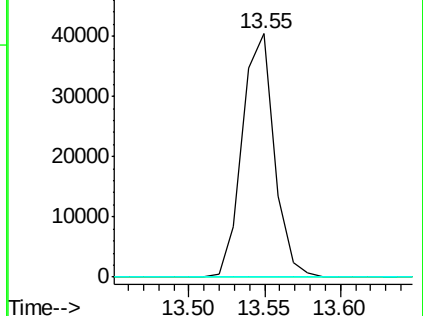


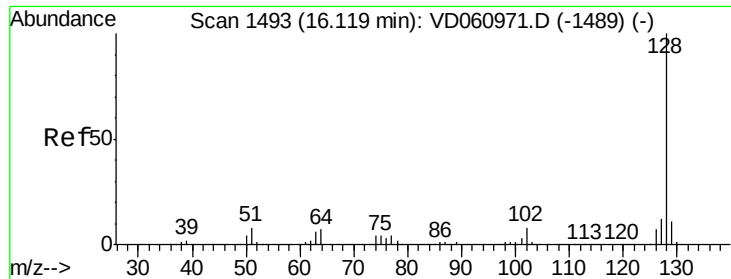
#81
 trans-1,4-Dichloro-2-butene
 Concen: 151.197 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD061188.D
 Acq: 19 Mar 2019 16:39

Tgt Ion: 75 Resp: 59345
 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





#95

Naphthalene

Concen: 1.787 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD061188.D

Acq: 19 Mar 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

SB-17(0.5-1.5)

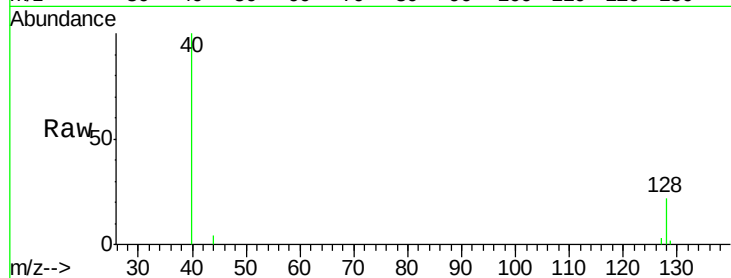
Tot Ion:128 Resp: 3192

Ion Ratio Lower Upper

128 100

127 13.6 9.8 14.8

129 10.7 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

