

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061419\
 Data File : VD062710.D
 Acq On : 14 Jun 2019 14:50
 Operator : VA/AP
 Sample : K3369-12RE
 Misc : 5.97g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 Z-3-SOIL-3RE

Quant Time: Jun 15 04:37:18 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	7.05	168	894562	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	1182642	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	983796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	458420	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	363894	28.19	ug/l	0.00
Spiked Amount			Recovery	=	56.38%	
35) Dibromofluoromethane	6.93	113	380221	30.48	ug/l	0.01
Spiked Amount			Recovery	=	60.96%	
50) Toluene-d8	10.42	98	752243	28.67	ug/l	0.00
Spiked Amount			Recovery	=	57.34%	
62) 4-Bromofluorobenzene	13.56	95	314700	25.71	ug/l	0.00
Spiked Amount			Recovery	=	51.42%	

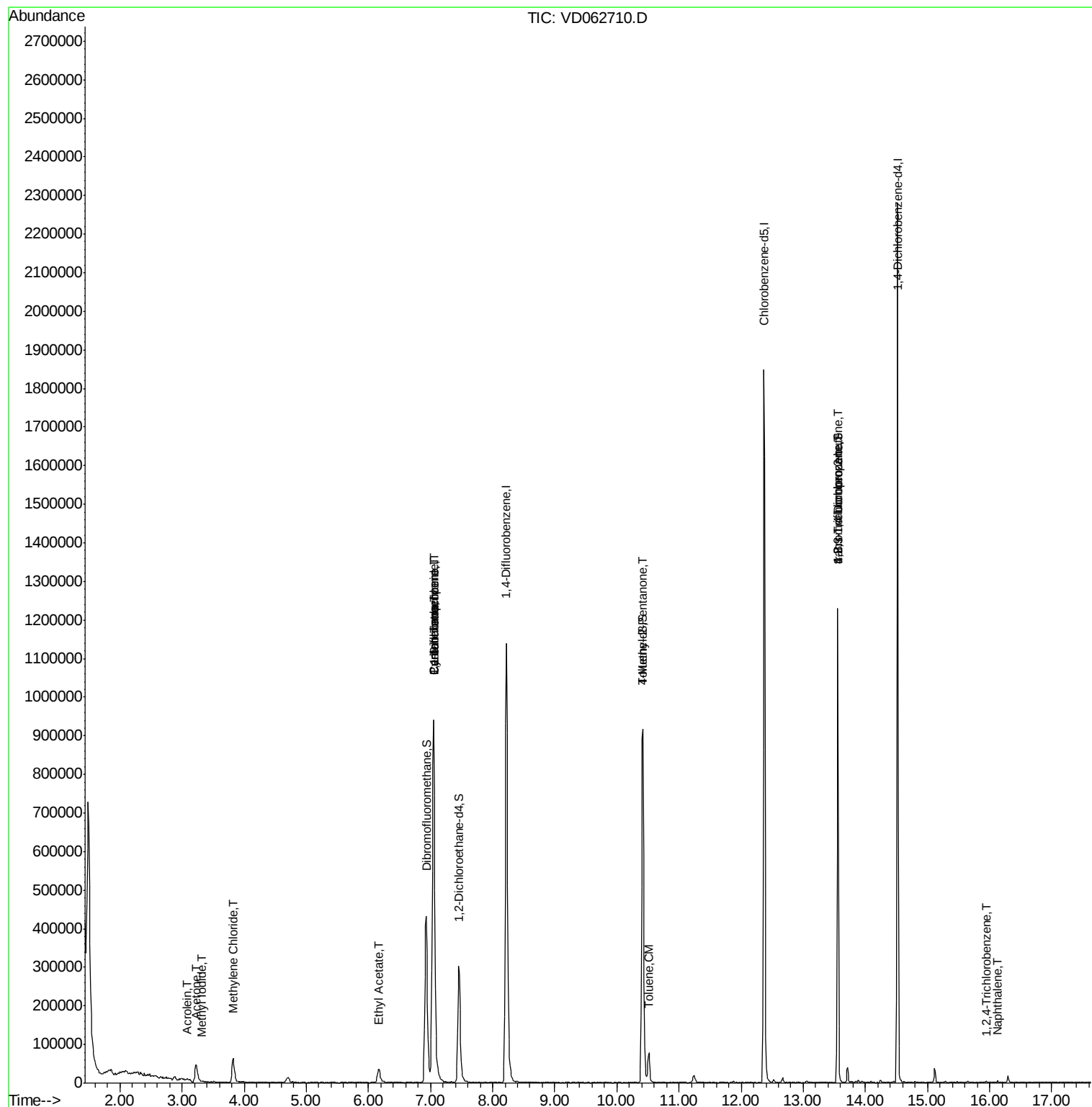
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	209	Below Cal	#	42
10) Methyl Iodide	3.32	142	1073	4.070	ug/l #	24
13) Acrolein	3.07	56	206	1.207	ug/l #	80
16) Acetone	3.23	43	98632	41.727	ug/l	94
20) Methylene Chloride	3.82	84	39837	4.055	ug/l #	90
31) Cyclohexane	7.05	56	20680	2.030	ug/l #	28
36) 1,1-Dichloropropene	7.05	75	70338	5.197	ug/l #	52
37) Ethyl Acetate	6.17	43	3401	1.776	ug/l #	23
38) Carbon Tetrachloride	7.05	117	90751	4.242	ug/l #	17
51) 4-Methyl-2-Pentanone	10.42	43	6227	1.246	ug/l #	1
52) Toluene	10.51	92	35720	2.010	ug/l	96
76) 1,2,3-Trichloropropane	13.56	75	107596	17.310	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	150093	78.978	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	1395	3.678	ug/l #	45
95) Naphthalene	16.13	128	2562	3.593	ug/l #	78

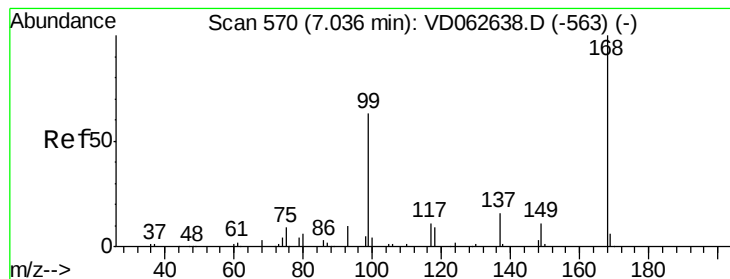
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 08 00:02:21 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

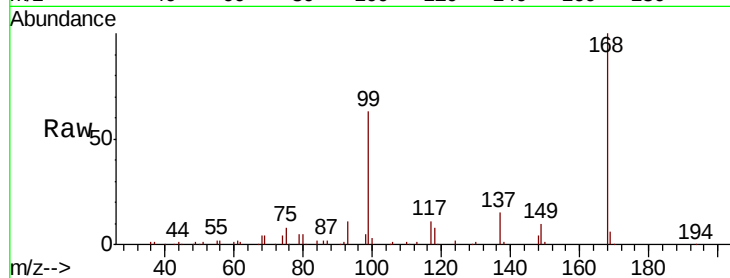
Z-3-SOIL-3RE

Tot Ion:168 Resp: 894562

Ion Ratio Lower Upper

168 100

99 62.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

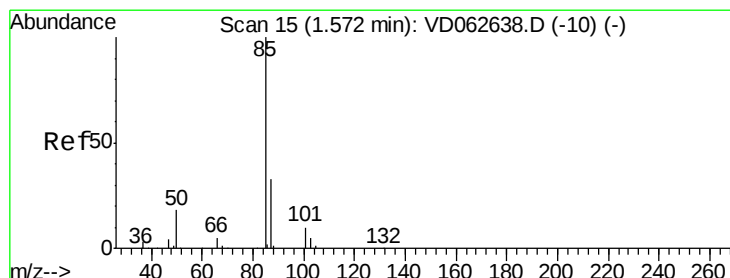
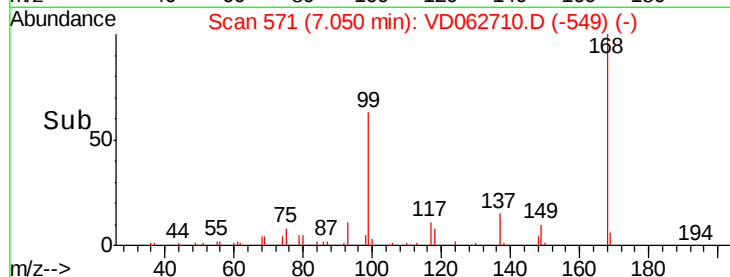
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 15

Delta R.T. 0.01 min

Lab File: VD062710.D

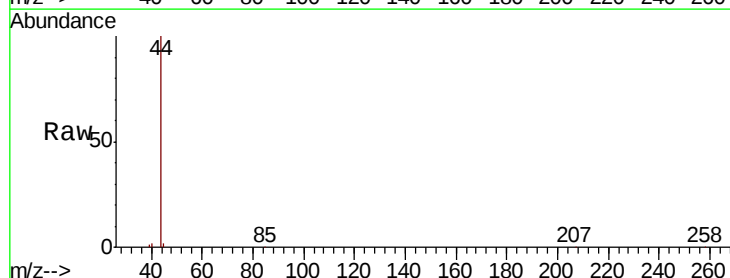
Acq: 14 Jun 2019 14:50

Tgt Ion: 85 Resp: 209

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

400

300

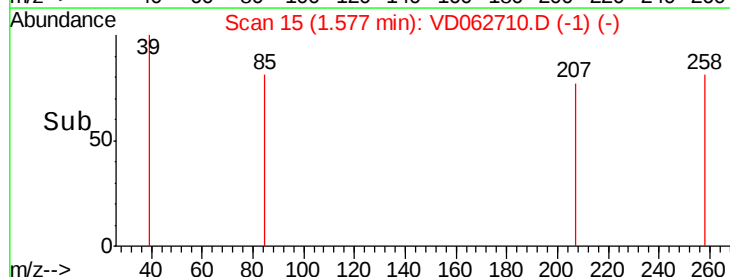
200

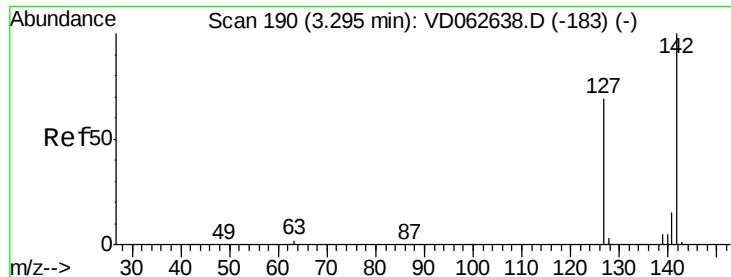
100

0

1.54 1.56 1.58 1.60

Time-->

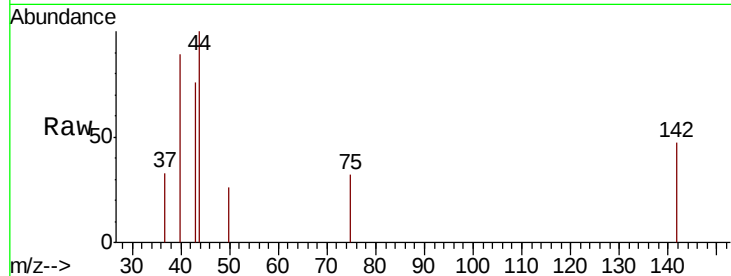




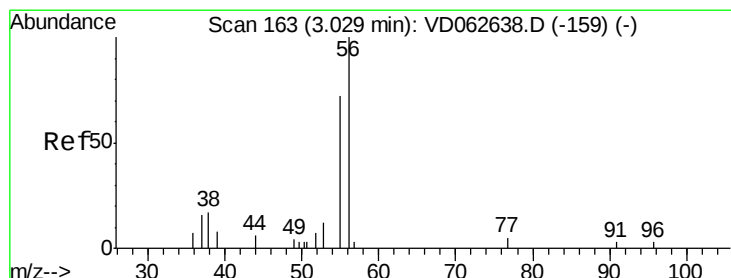
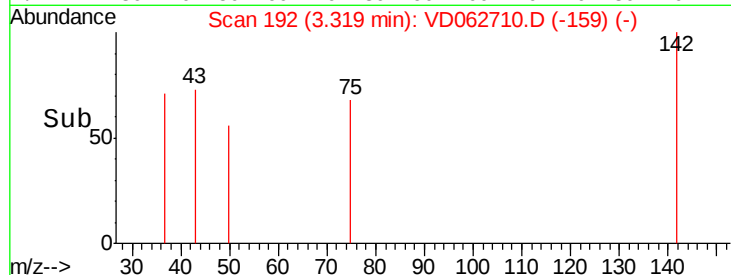
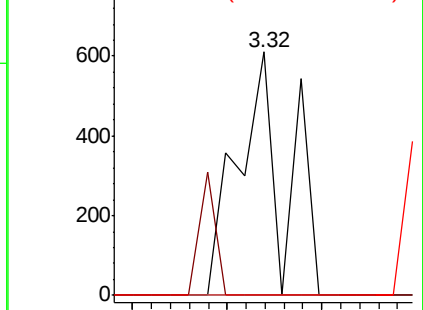
#10
Methvl Iodide
Concen: 4.070 ug/l
RT: 3.32 min Scan# 192
Delta R.T. 0.03 min
Lab File: VD062710.D
Acq: 14 Jun 2019 14:50

Instrument :
MSVOA_D
ClientSampleId :
Z-3-SOIL-3RE

Tot Ion:142 Resp: 1073
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

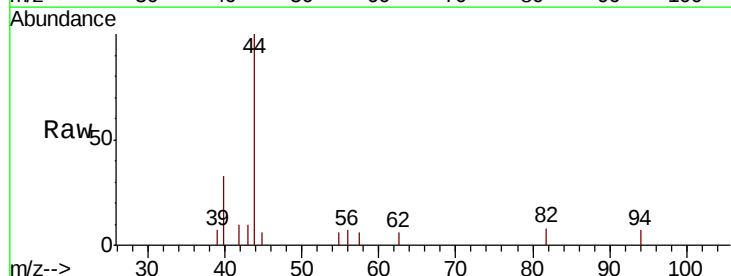


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

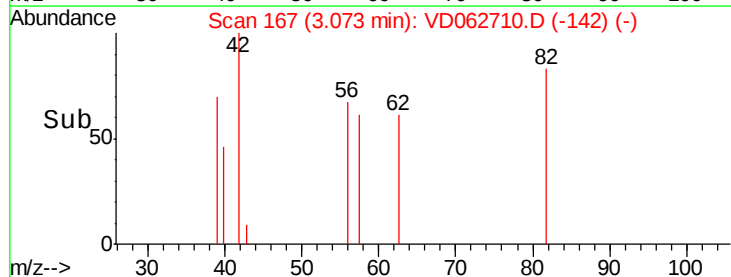
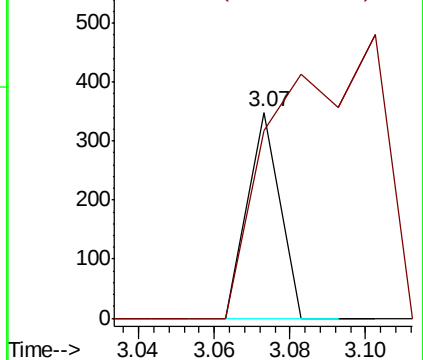


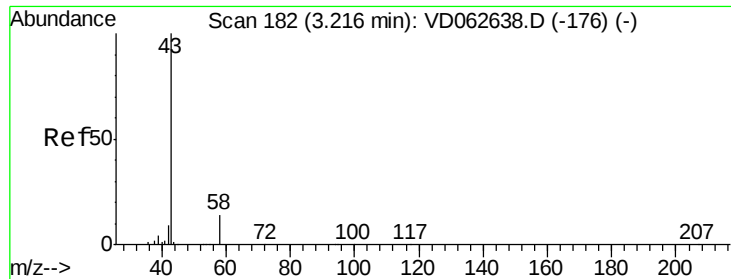
#13
Acrolein
Concen: 1.207 ug/l
RT: 3.07 min Scan# 167
Delta R.T. 0.04 min
Lab File: VD062710.D
Acq: 14 Jun 2019 14:50

Tgt Ion: 56 Resp: 206
Ion Ratio Lower Upper
56 100
55 91.1 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 41.727 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

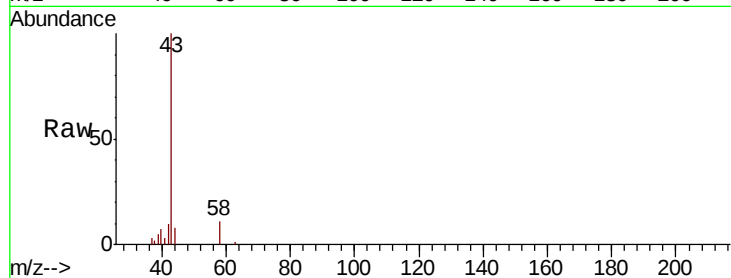
Z-3-SOIL-3RE

Tot Ion: 43 Resp: 98632

Ion Ratio Lower Upper

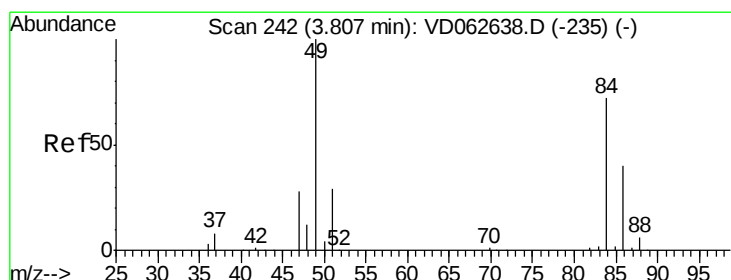
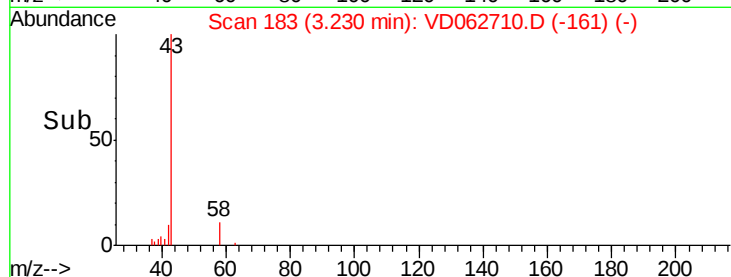
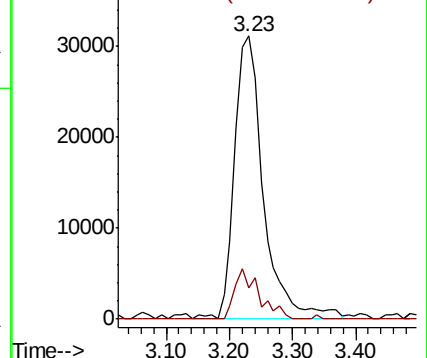
43 100

58 10.9 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.055 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Tgt Ion: 84 Resp: 39837

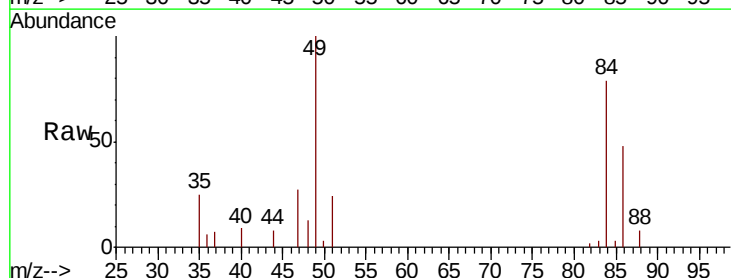
Ion Ratio Lower Upper

84 100

49 126.9 111.2 166.8

51 30.5 31.9 47.9#

86 60.6 44.7 67.1

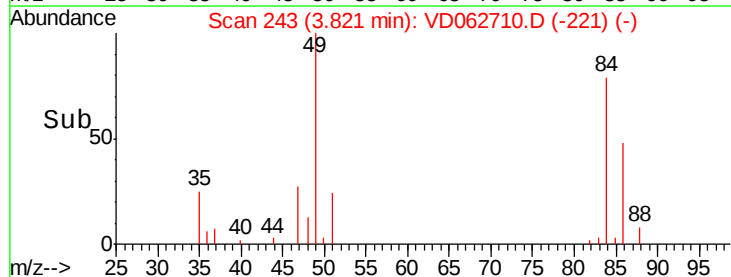
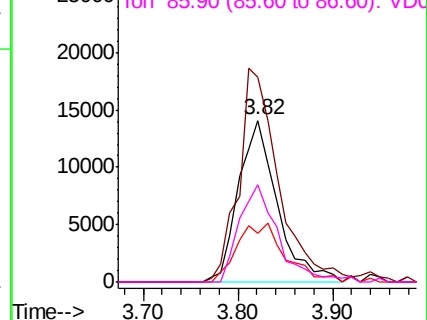


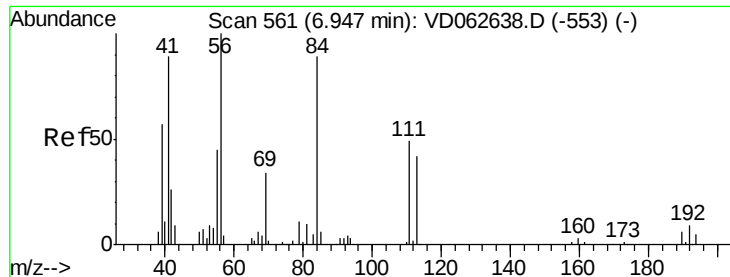
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

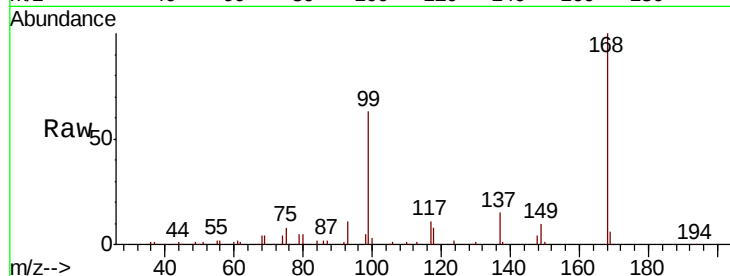




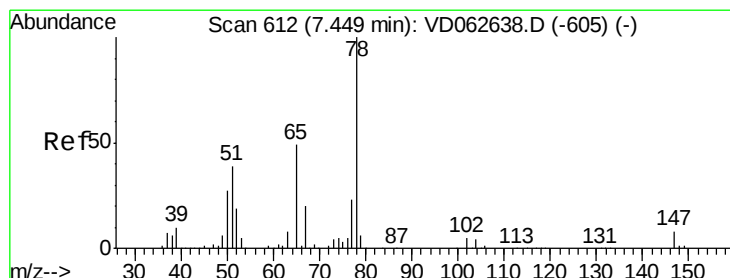
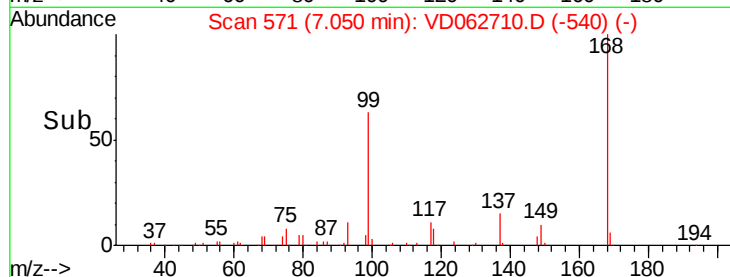
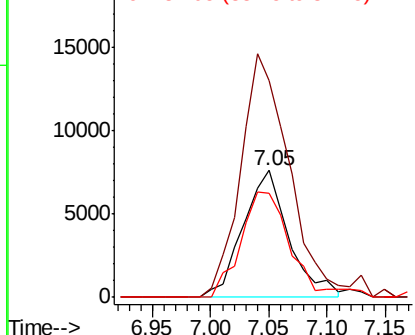
#31
Cyclohexane
Concen: 2.030 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.10 min
Lab File: VD062710.D
Acq: 14 Jun 2019 14:50

Instrument :
MSVOA_D
ClientSampleId :
Z-3-SOIL-3RE

Tot Ion: 56 Resp: 20680
Ion Ratio Lower Upper
56 100
69 171.1 26.8 40.2#
84 82.3 73.9 110.9

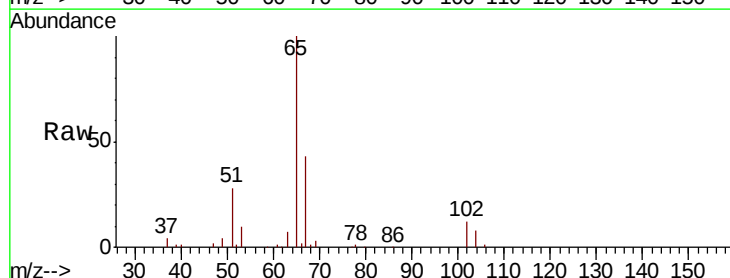


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

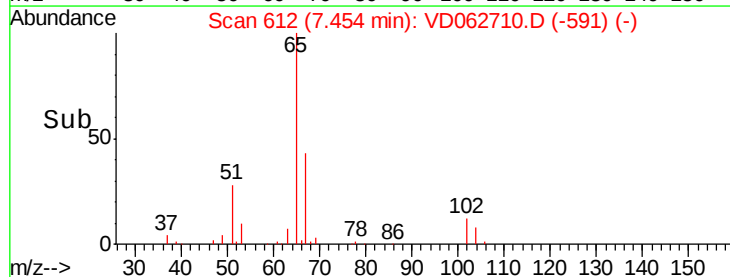
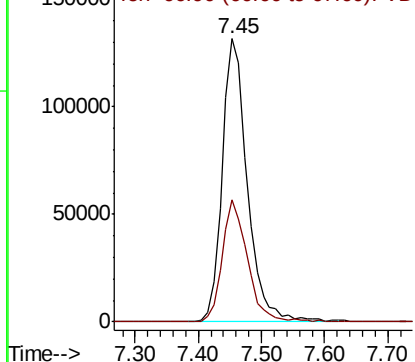


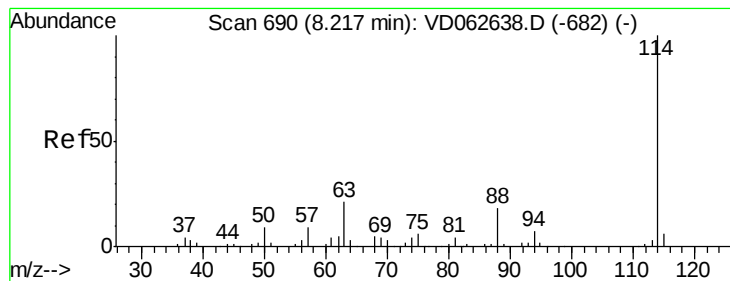
#33
1,2-Dichloroethane-d4
Concen: 28.190 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.00 min
Lab File: VD062710.D
Acq: 14 Jun 2019 14:50

Tgt Ion: 65 Resp: 363894
Ion Ratio Lower Upper
65 100
67 43.0 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

Z-3-SOIL-3RE

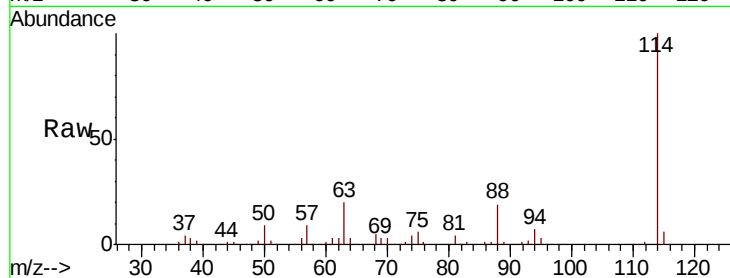
Tot Ion:114 Resp: 1182642

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.4

88 18.5 0.0 36.8



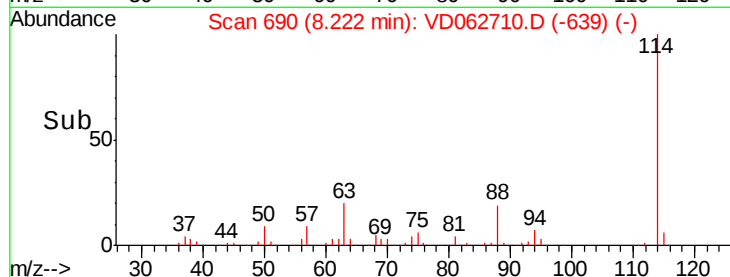
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

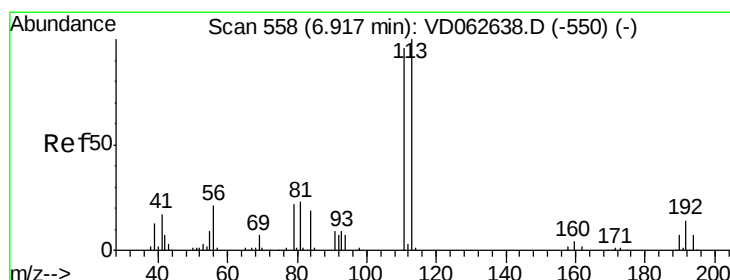
Ion 87.90 (87.60 to 88.60): V

8.22

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 30.485 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

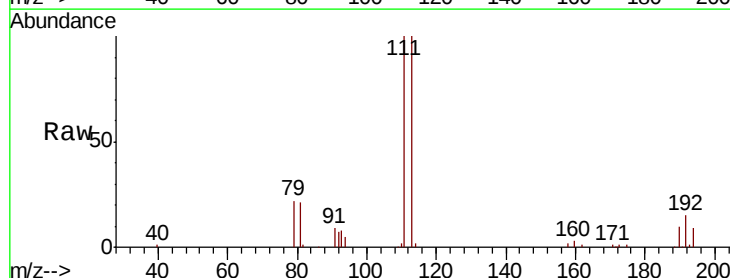
Tgt Ion:113 Resp: 380221

Ion Ratio Lower Upper

113 100

111 100.4 76.4 114.6

192 14.6 11.4 17.0



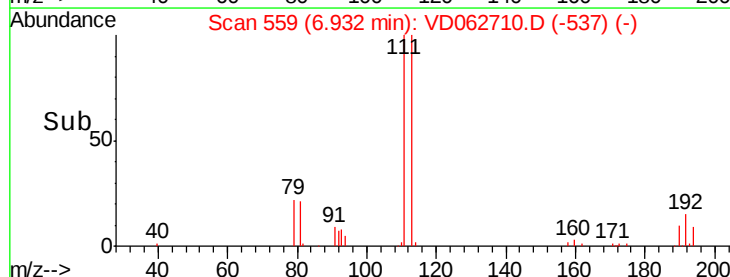
Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

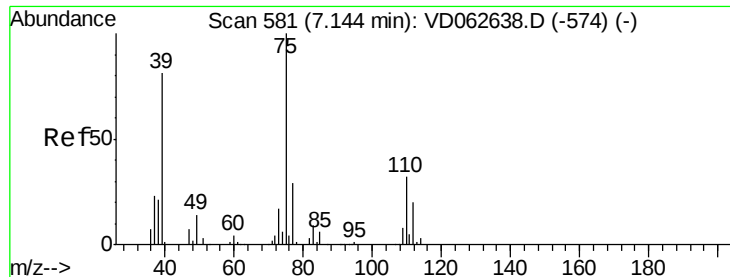
Ion 191.80 (191.50 to 192.50): V

6.93

Time-->



Time-->



#36

1,1-Dichloropropene

Concen: 5.197 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

Z-3-SOIL-3RE

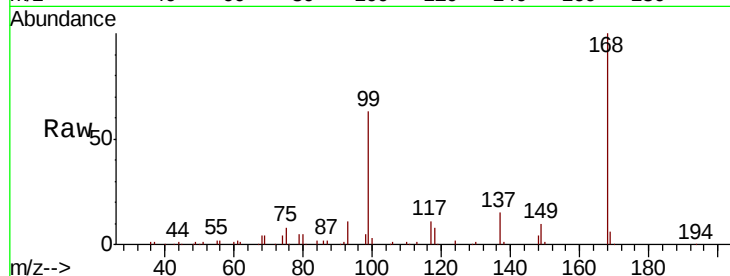
Tot Ion: 75 Resp: 70338

Ion Ratio Lower Upper

75 100

110 8.8 15.9 47.7#

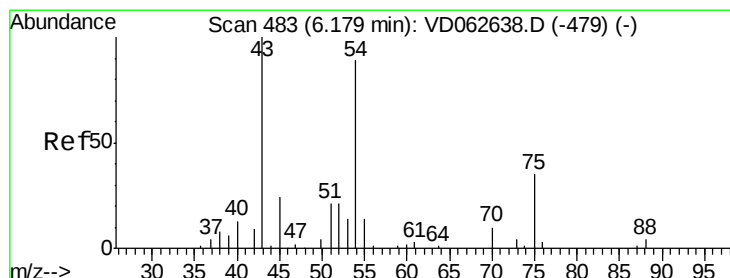
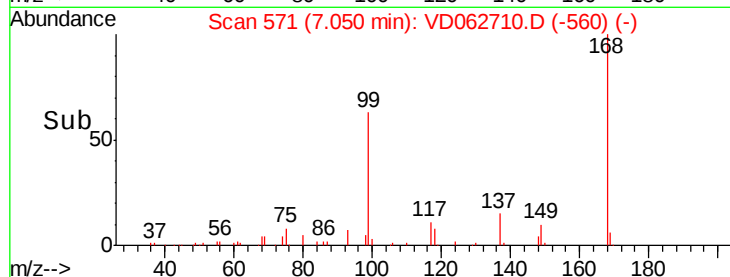
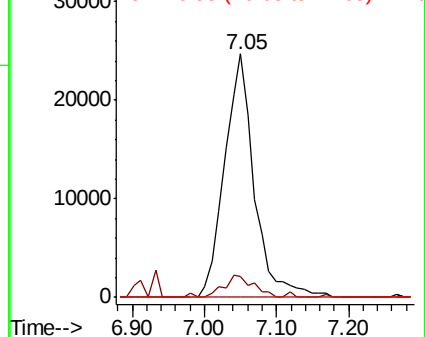
77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.776 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.01 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

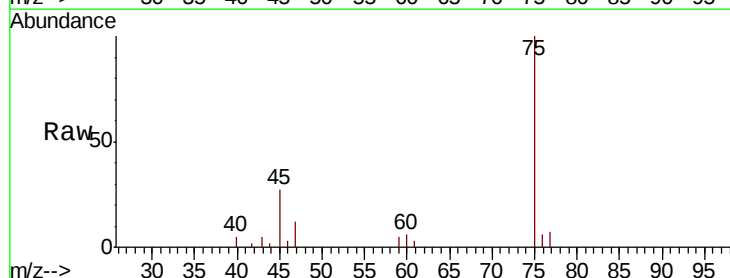
Tgt Ion: 43 Resp: 3401

Ion Ratio Lower Upper

43 100

61 55.4 8.7 13.1#

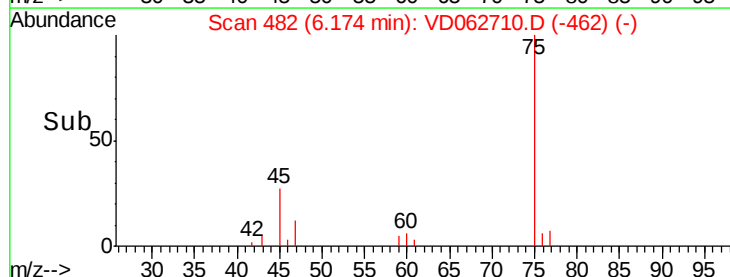
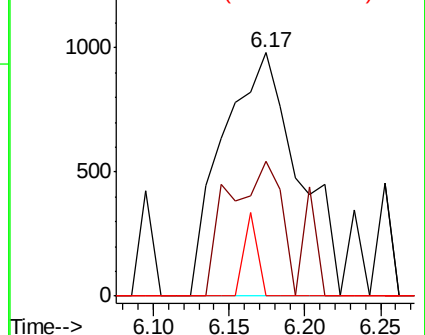
70 0.0 6.5 9.7#

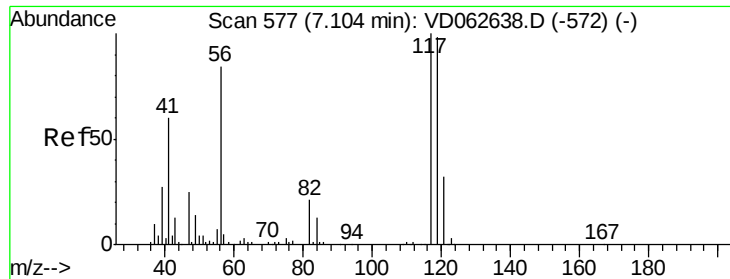


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

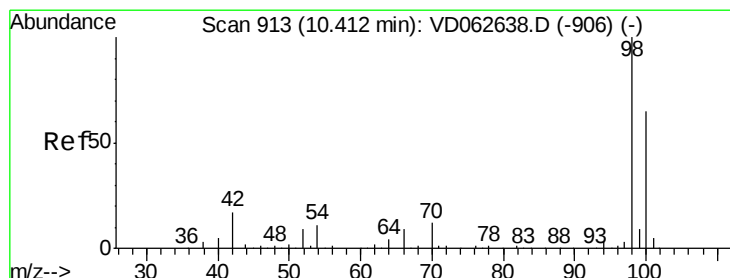
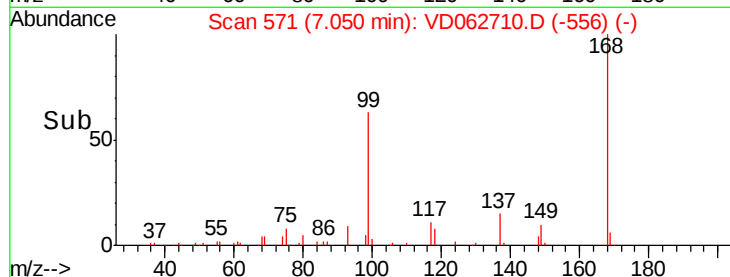
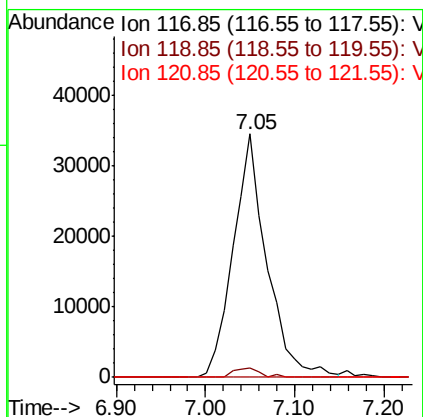
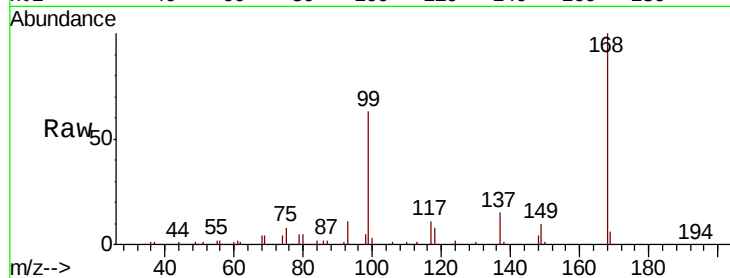




#38
Carbon Tetrachloride
Concen: 4.242 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD062710.D
Acq: 14 Jun 2019 14:50

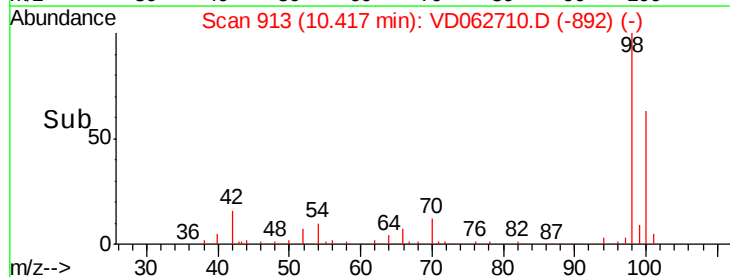
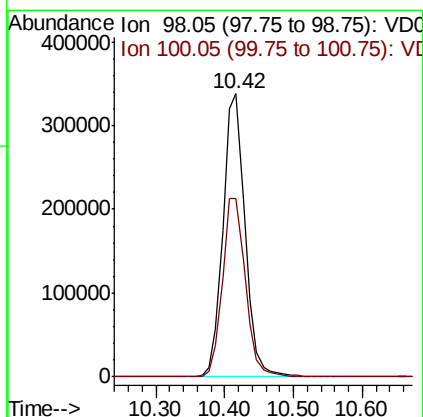
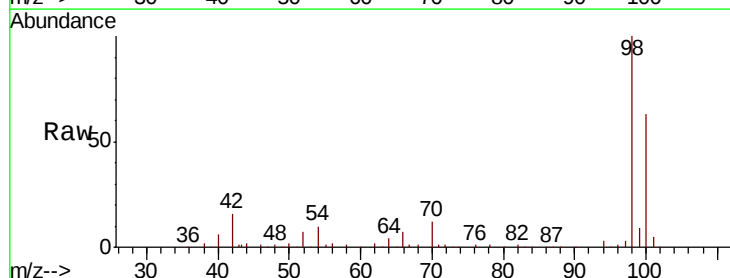
Instrument :
MSVOA_D
ClientSampleId :
Z-3-SOIL-3RE

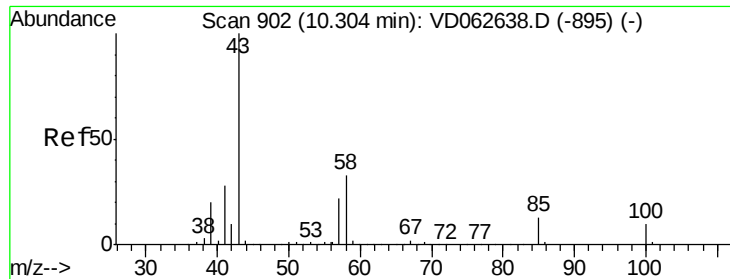
Tot Ion:117 Resp: 90751
Ion Ratio Lower Upper
117 100
119 3.9 73.5 110.3#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 28.670 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062710.D
Acq: 14 Jun 2019 14:50

Tgt Ion: 98 Resp: 752243
Ion Ratio Lower Upper
98 100
100 63.0 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.246 ug/l

RT: 10.42 min Scan# 913

Delta R.T. 0.11 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

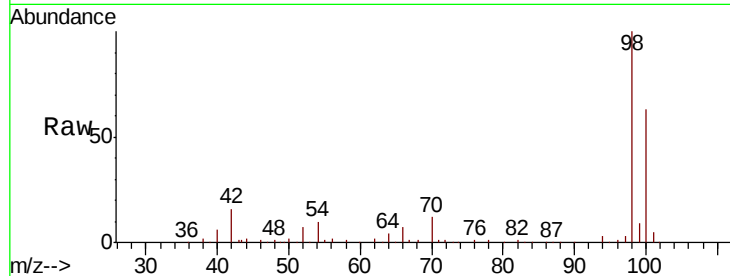
Z-3-SOIL-3RE

Tot Ion: 43 Resp: 6227

Ion Ratio Lower Upper

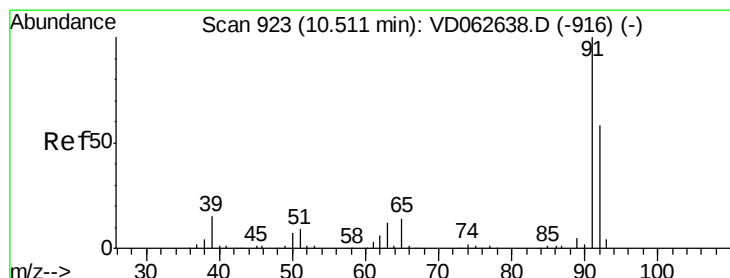
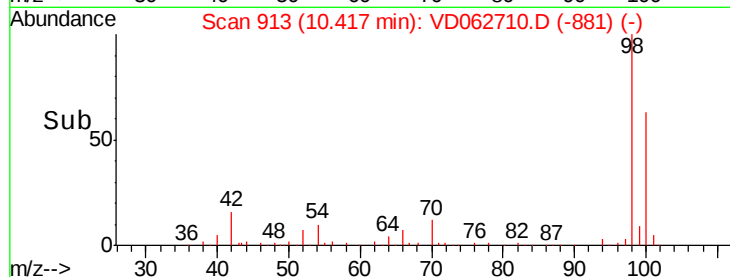
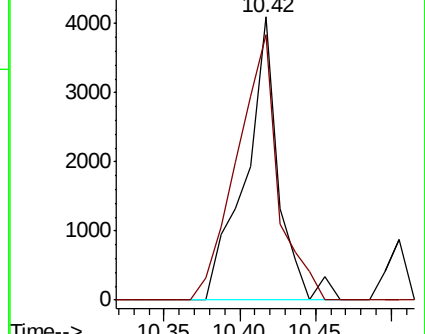
43 100

58 93.9 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 2.010 ug/l

RT: 10.51 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD062710.D

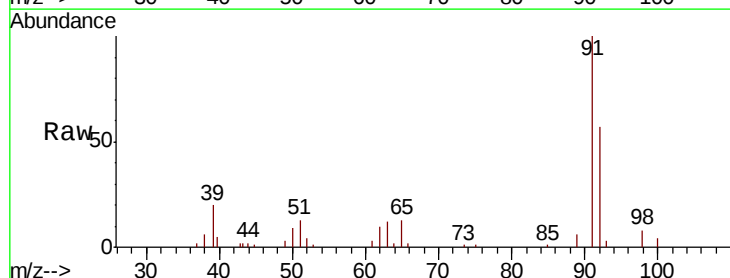
Acq: 14 Jun 2019 14:50

Tgt Ion: 92 Resp: 35720

Ion Ratio Lower Upper

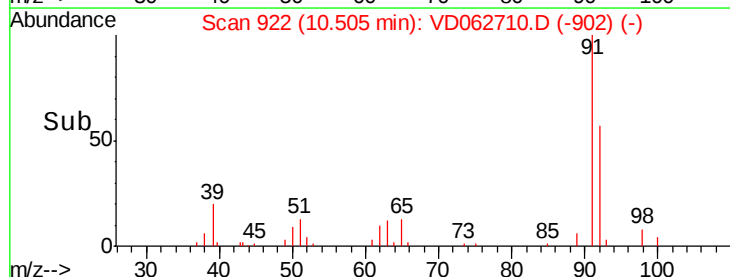
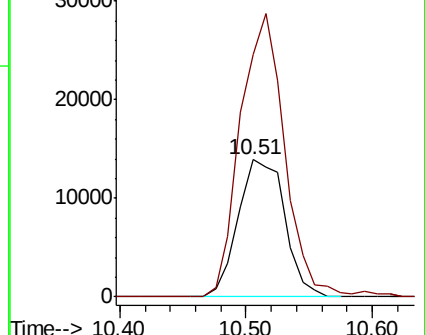
92 100

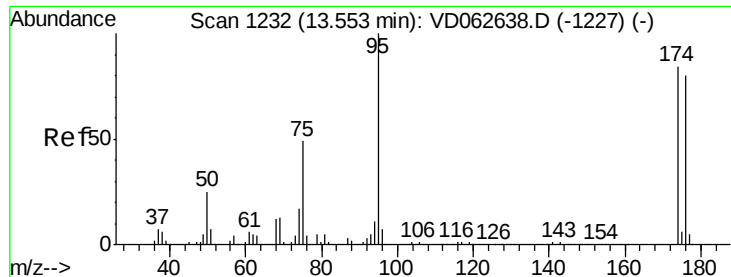
91 176.6 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: 25.709 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

Z-3-SOIL-3RE

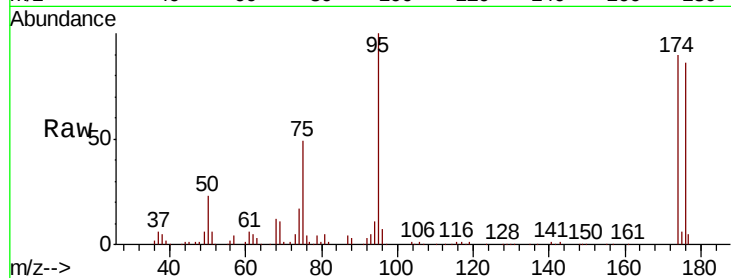
Tot Ion: 95 Resp: 314700

Ion Ratio Lower Upper

95 100

174 89.6 0.0 167.0

176 86.2 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

300000

250000

200000

150000

100000

50000

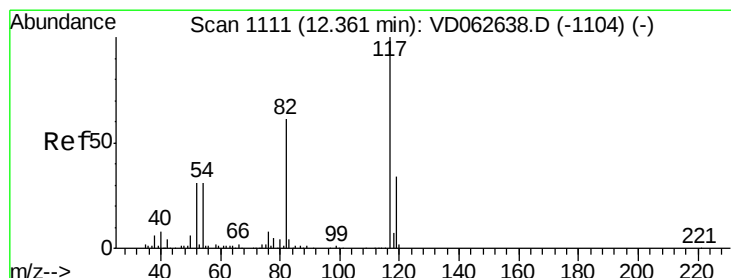
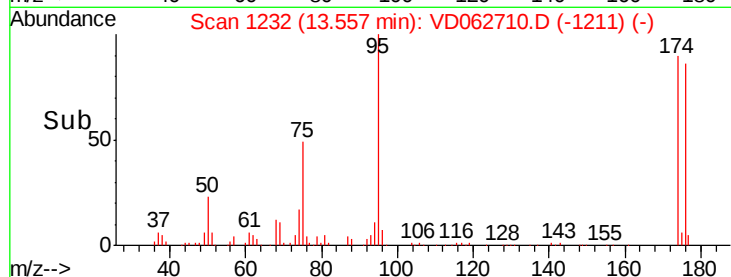
0

13.56

13.50

13.60

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

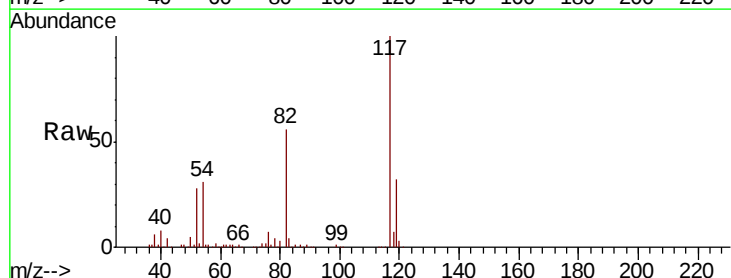
Tgt Ion: 117 Resp: 983796

Ion Ratio Lower Upper

117 100

82 55.8 48.7 73.1

119 32.2 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

600000

400000

200000

0

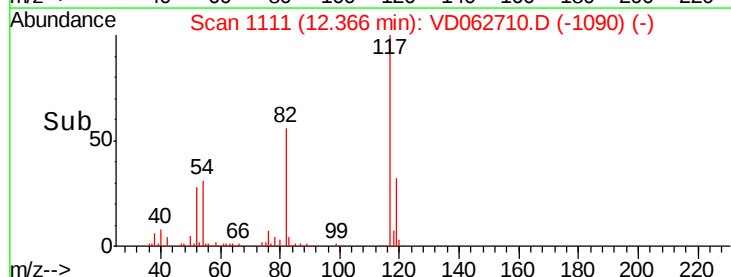
12.37

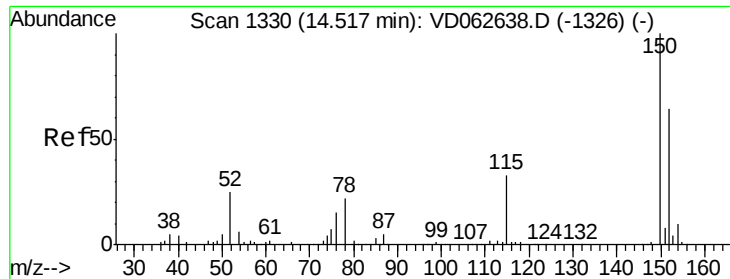
12.30

12.40

12.50

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

Z-3-SOIL-3RE

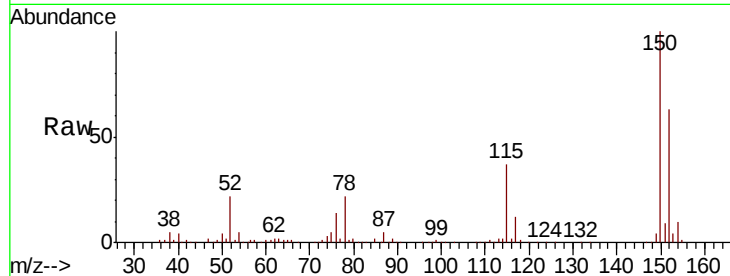
Tot Ion:152 Resp: 458420

Ion Ratio Lower Upper

152 100

115 57.9 30.1 90.5

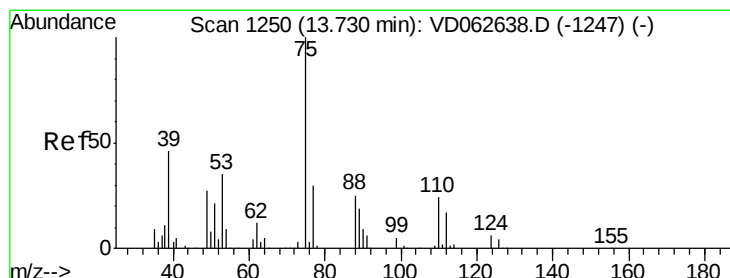
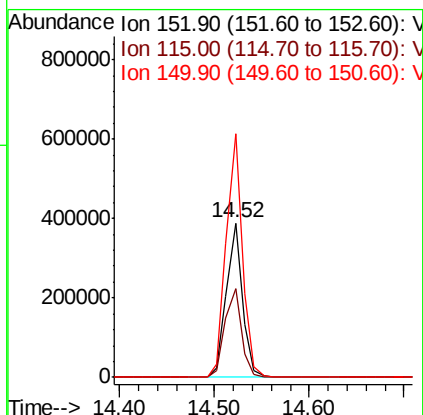
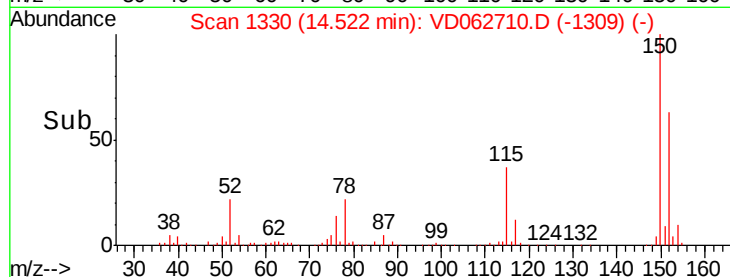
150 157.8 0.0 314.0



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



#76

1,2,3-Trichloropropane

Concen: 17.310 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062710.D

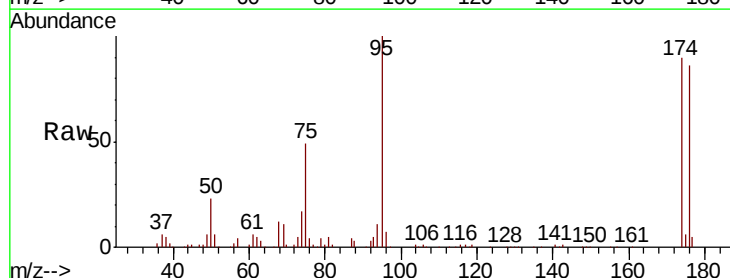
Acq: 14 Jun 2019 14:50

Tgt Ion: 75 Resp: 107596

Ion Ratio Lower Upper

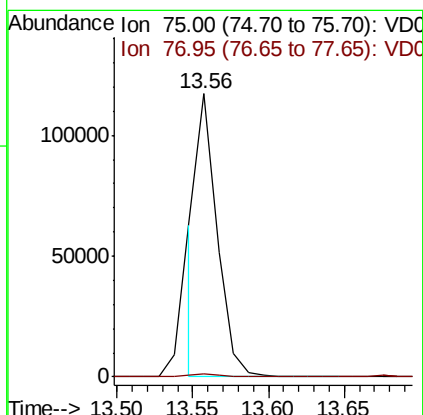
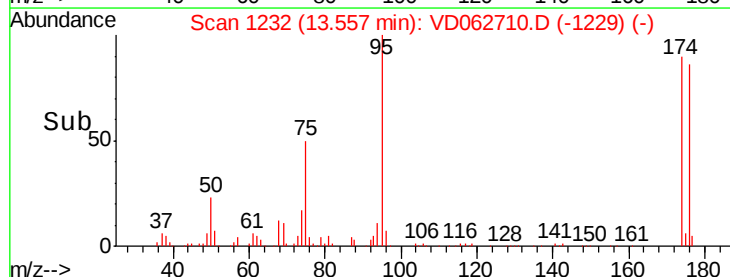
75 100

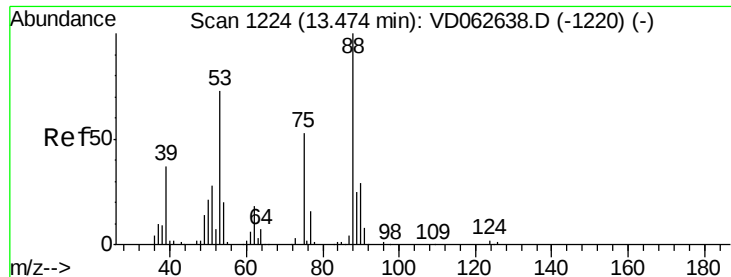
77 1.1 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 78.978 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

Z-3-SOIL-3RE

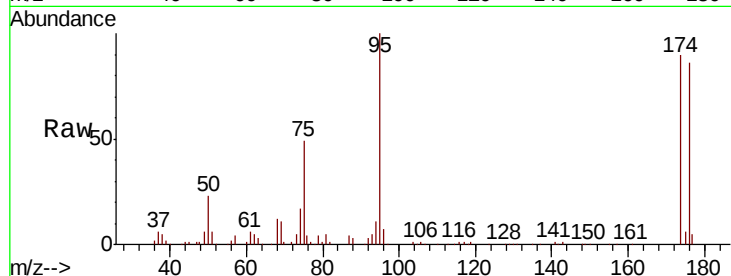
Tot Ion: 75 Resp: 150093

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

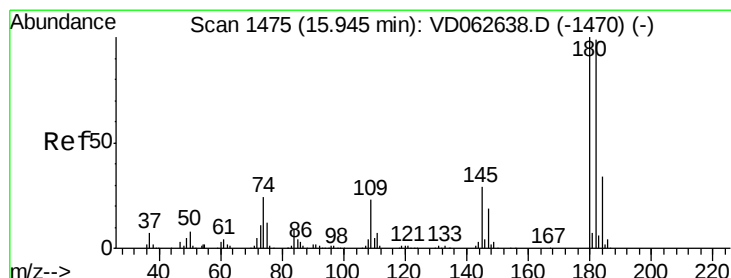
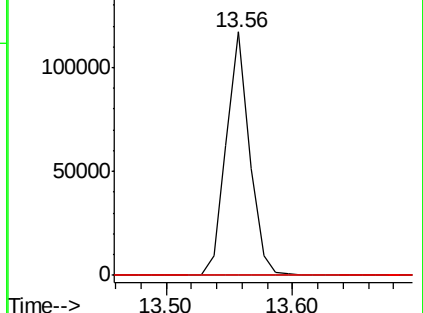
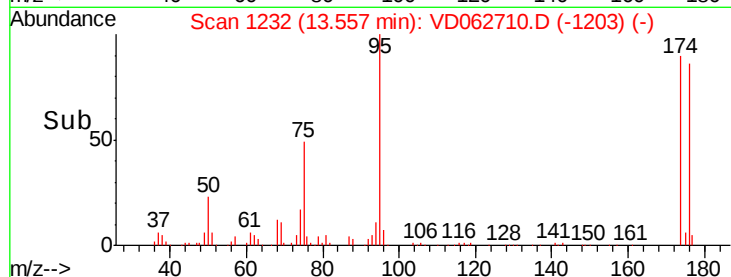
89 0.0 37.0 55.6#



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: 3.678 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.01 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

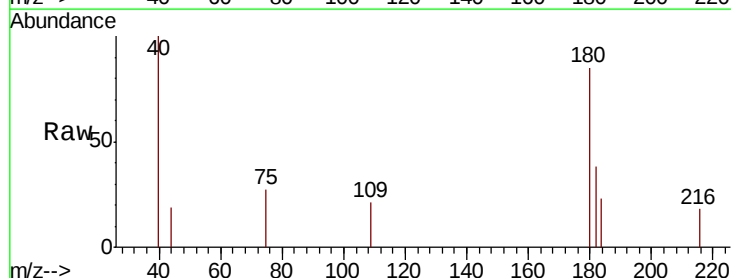
Tgt Ion:180 Resp: 1395

Ion Ratio Lower Upper

180 100

182 44.4 49.4 148.2#

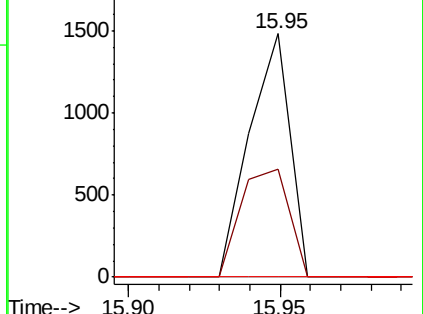
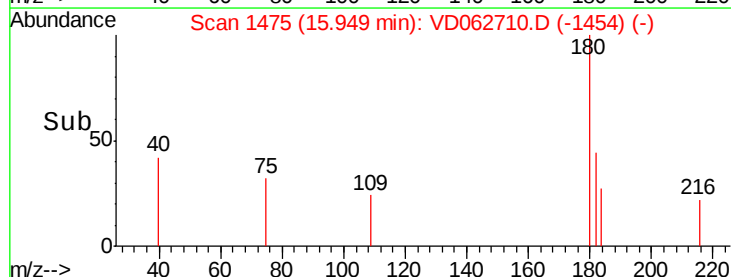
145 0.0 14.5 43.6#

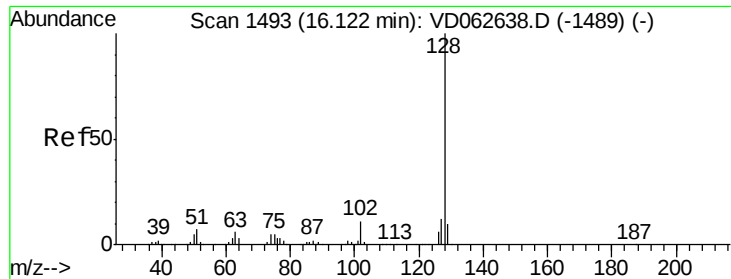


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 3.593 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VD062710.D

Acq: 14 Jun 2019 14:50

Instrument :

MSVOA_D

ClientSampleId :

Z-3-SOIL-3RE

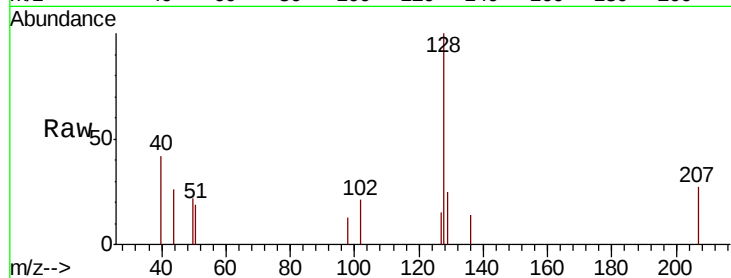
Tot Ion:128 Resp: 2562

Ion Ratio Lower Upper

128 100

127 15.2 9.7 14.5#

129 24.6 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

