

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063185.D
 Acq On : 22 Jul 2019 19:01
 Operator : VA/AP
 Sample : K3900-01
 Misc : 5.80µl/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-COMP

Quant Time: Jul 23 07:51:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	881358	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.23	114	1303537	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	1098503	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	568360	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	688101	62.67	ug/l	0.02
Spiked Amount			Recovery	=	125.34%	
35) Dibromofluoromethane	6.93	113	755777	58.21	ug/l	0.02
Spiked Amount			Recovery	=	116.42%	
50) Toluene-d8	10.42	98	1603860	57.51	ug/l	0.02
Spiked Amount			Recovery	=	115.02%	
62) 4-Bromofluorobenzene	13.56	95	661064	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	

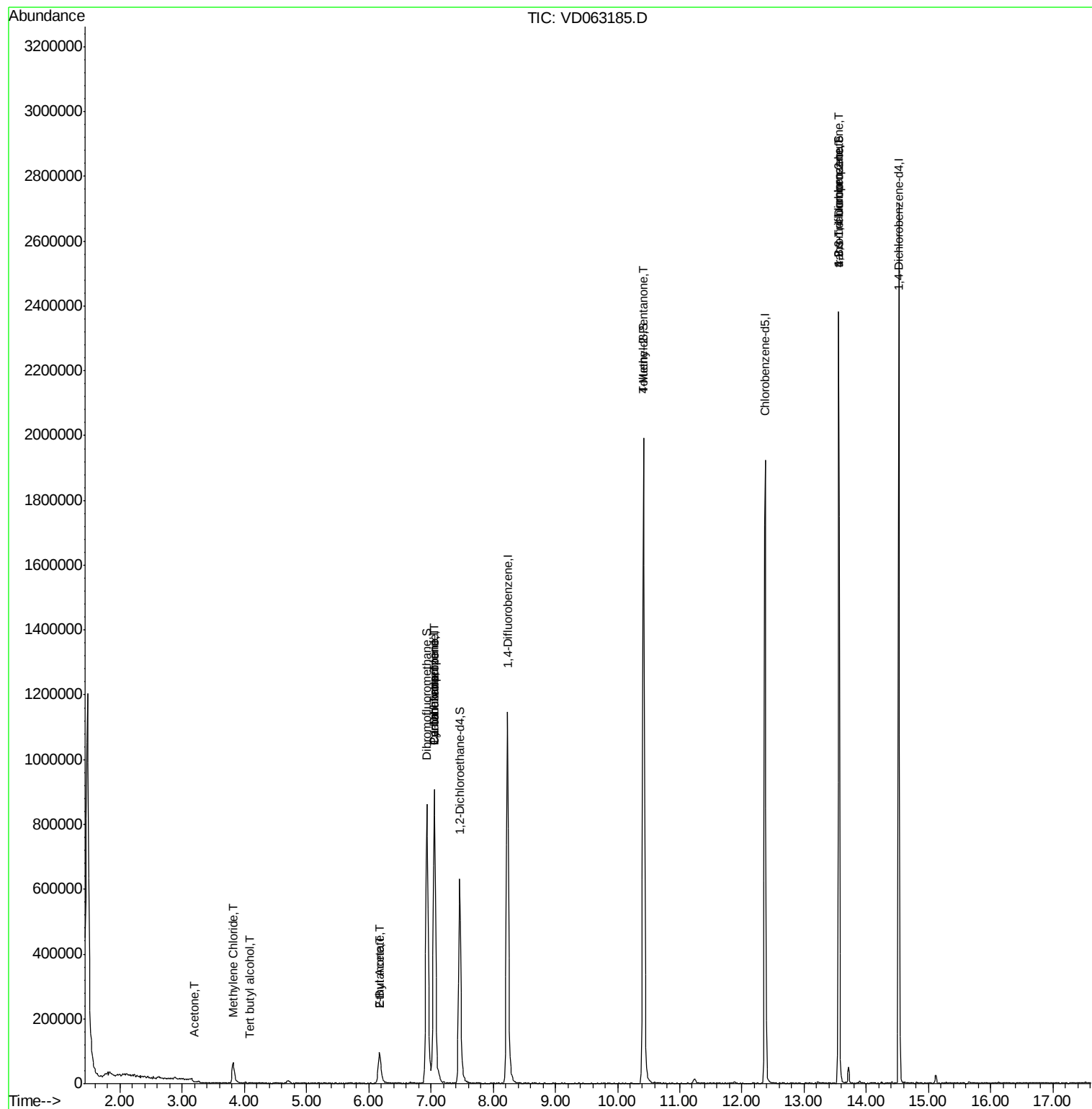
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	1084	Below Cal	#	43
3) Chloromethane	1.75	50	243	Below Cal	#	48
5) Bromomethane	2.13	94	382	Below Cal	#	41
11) Tert butyl alcohol	4.09	59	1733	2.735	ug/l #	77
16) Acetone	3.21	43	3412	1.287	ug/l #	62
18) Methyl Acetate	3.66	43	954	Below Cal	#	63
20) Methylene Chloride	3.82	84	41459	4.138	ug/l	97
25) 2-Butanone	6.17	43	6984	2.758	ug/l	96
31) Cyclohexane	7.06	56	19607	1.876	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	65308	4.455	ug/l #	49
37) Ethyl Acetate	6.17	43	6984	1.113	ug/l #	37
38) Carbon Tetrachloride	7.05	117	83191	3.734	ug/l #	13
51) 4-Methyl-2-Pentanone	10.42	43	9779	1.639	ug/l #	1
76) 1,2,3-Trichloropropane	13.56	75	235778	26.968	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	305100	132.516	ug/l #	1

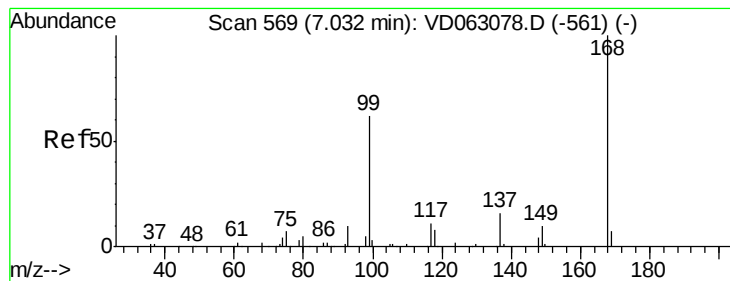
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072219\
Data File : VD063185.D
Acq On : 22 Jul 2019 19:01
Operator : VA/AP
Sample : K3900-01
Misc : 5.80µl/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMP

Quant Time: Jul 23 07:51:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

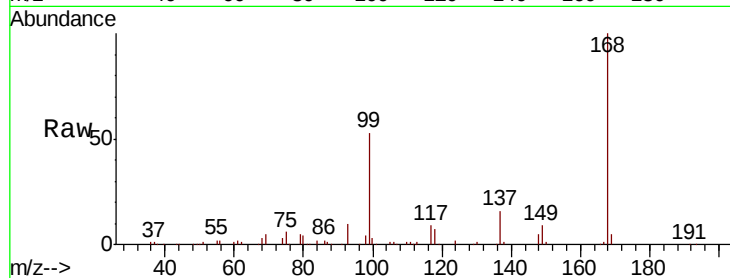
SOIL-COMP

Tot Ion:168 Resp: 881358

Ion Ratio Lower Upper

168 100

99 53.4 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

300000

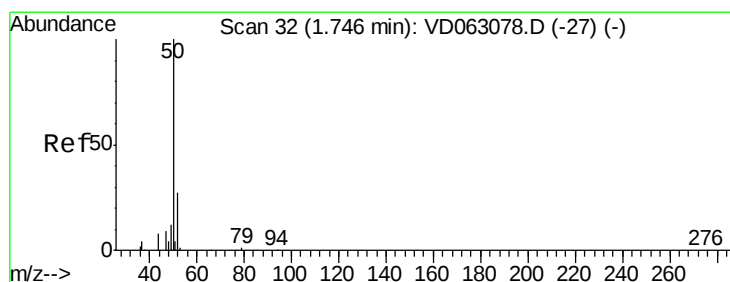
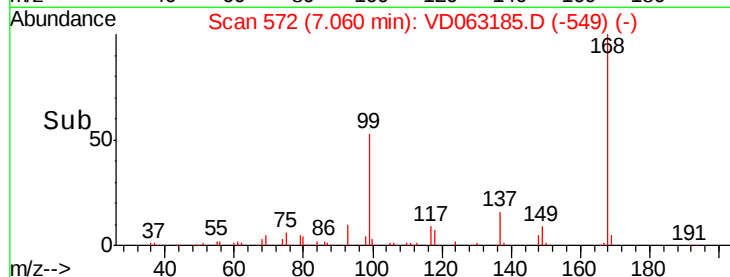
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063185.D

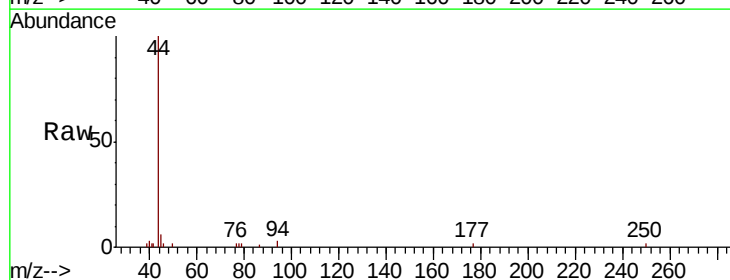
Acq: 22 Jul 2019 19:01

Tgt Ion: 50 Resp: 243

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.75

400

300

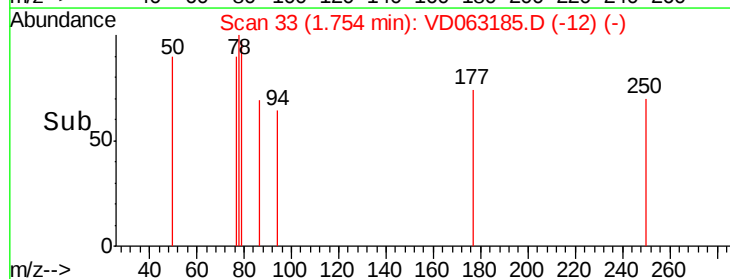
200

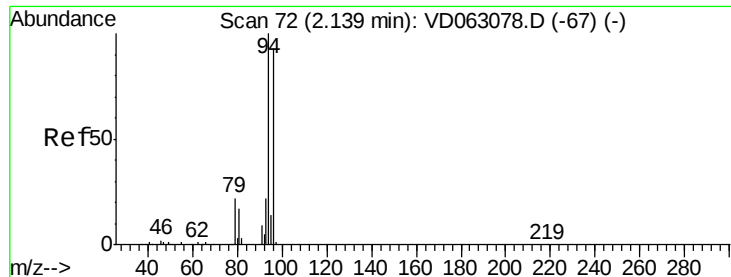
100

0

Time-->

1.72 1.74 1.76 1.78





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 71

Delta R.T. -0.01 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

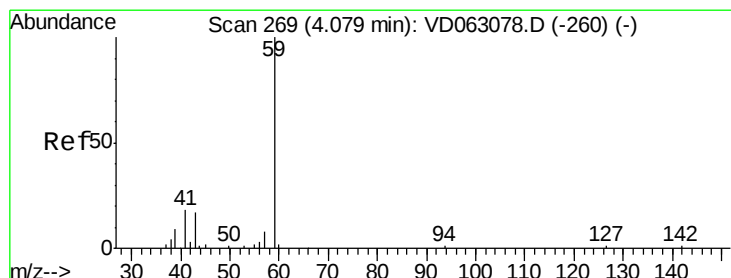
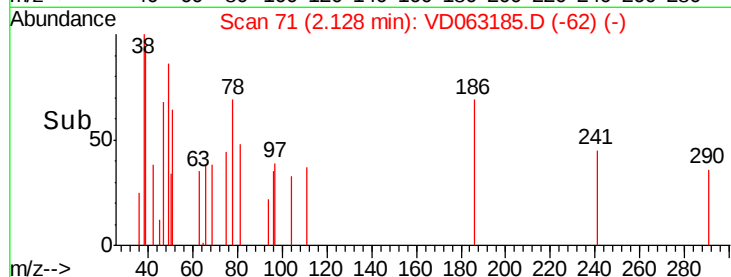
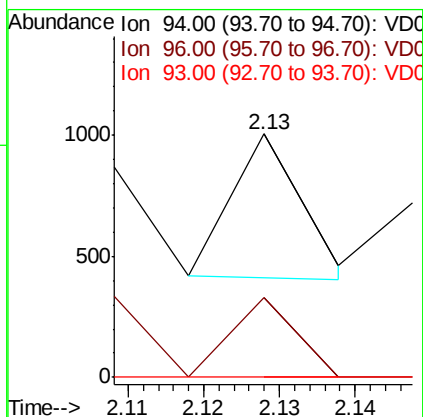
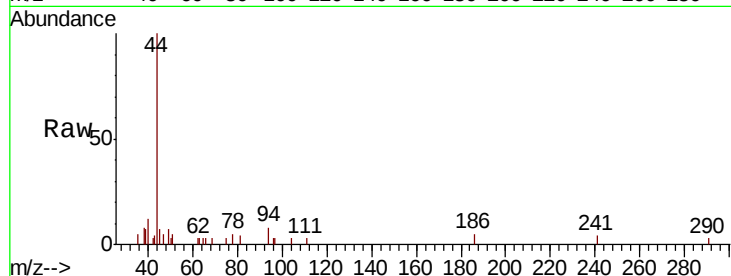
Tot Ion: 94 Resp: 382

Ion Ratio Lower Upper

94 100

96 32.7 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 2.735 ug/l

RT: 4.09 min Scan# 270

Delta R.T. 0.01 min

Lab File: VD063185.D

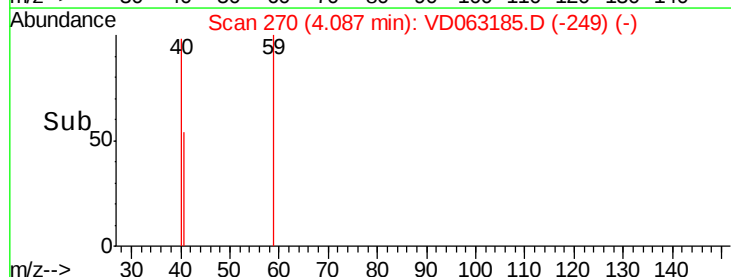
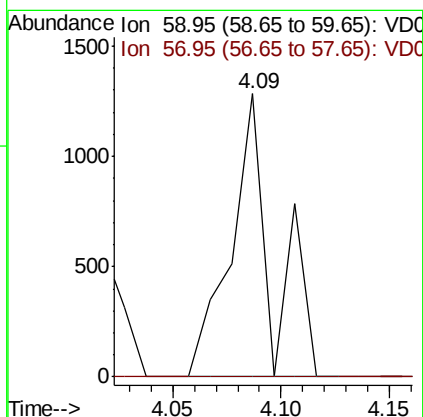
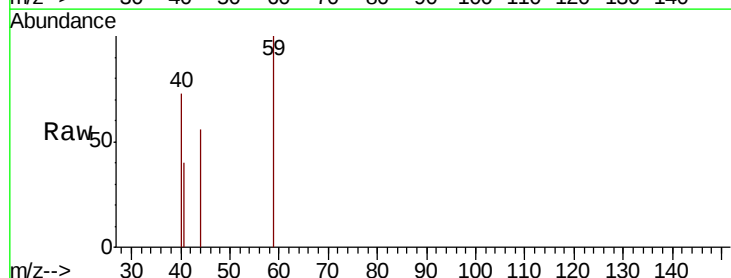
Acq: 22 Jul 2019 19:01

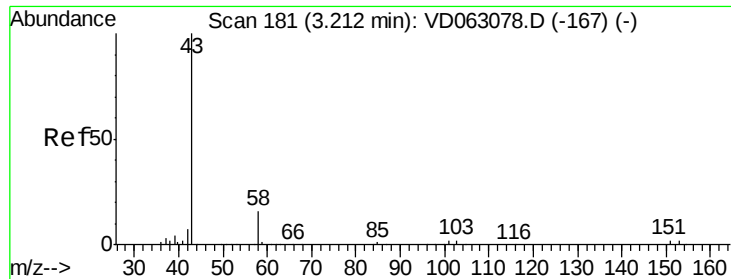
Tgt Ion: 59 Resp: 1733

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#16

Acetone

Concen: 1.287 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.00 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampled :

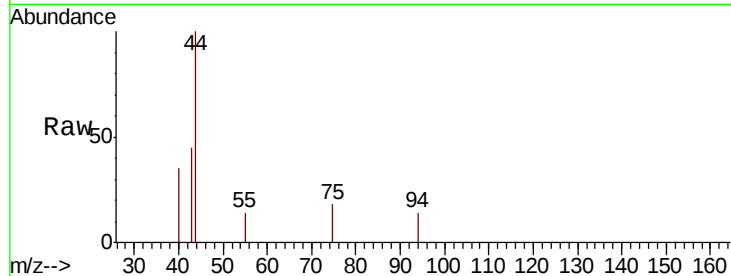
SOIL-COMP

Tot Ion: 43 Resp: 3412

Ion Ratio Lower Upper

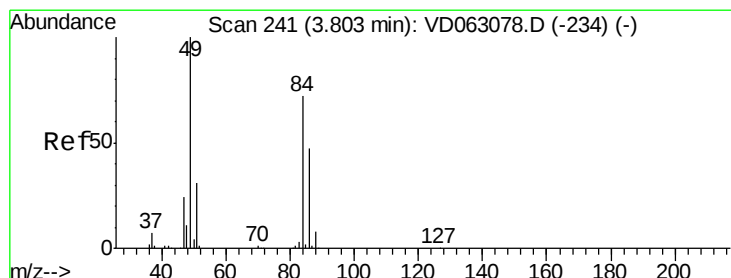
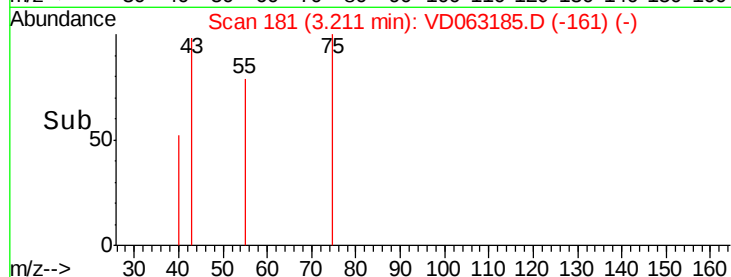
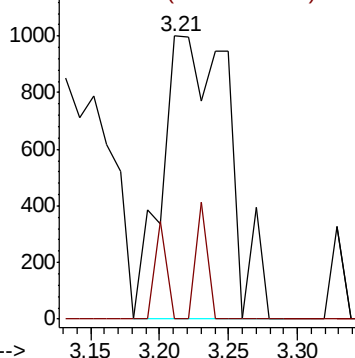
43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.138 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Tgt Ion: 84 Resp: 41459

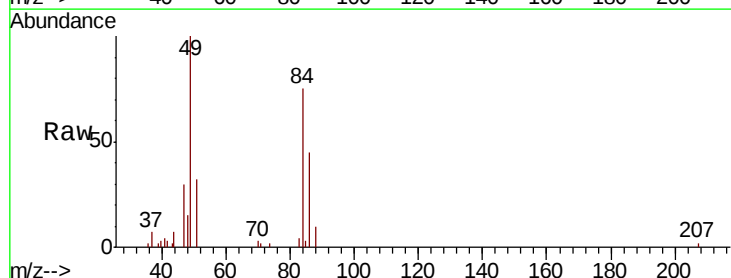
Ion Ratio Lower Upper

84 100

49 134.1 110.5 165.7

51 43.2 34.6 51.8

86 60.1 51.6 77.4

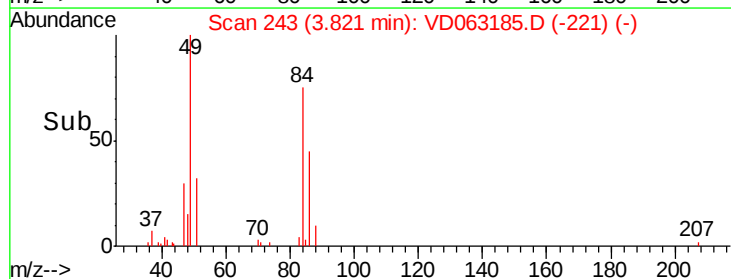
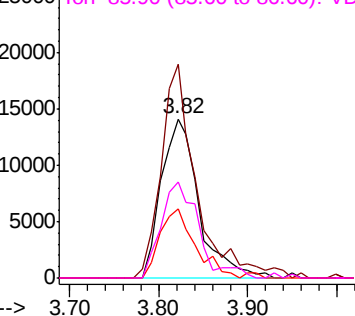


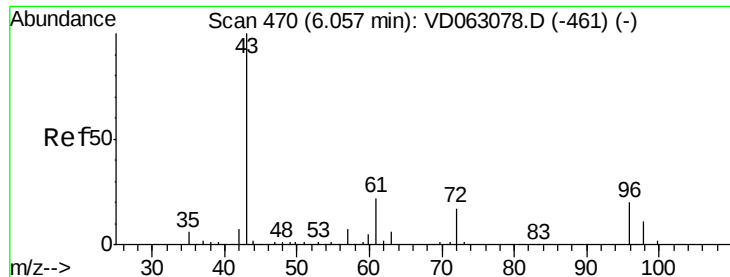
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 2.758 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.12 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

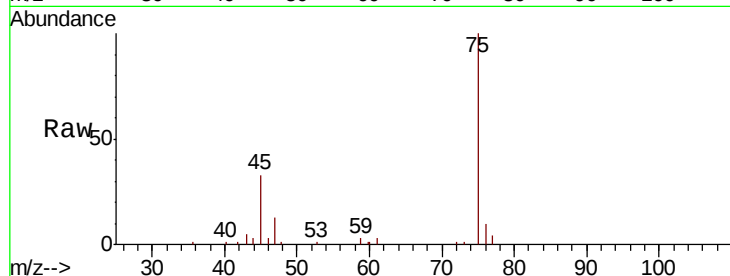
SOIL-COMP

Tot Ion: 43 Resp: 6984

Ion Ratio Lower Upper

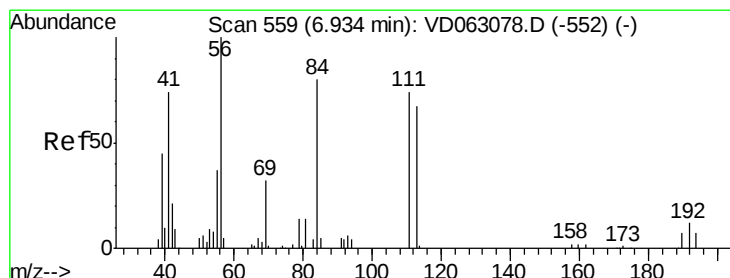
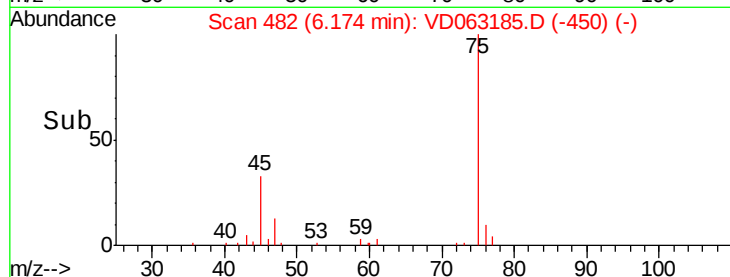
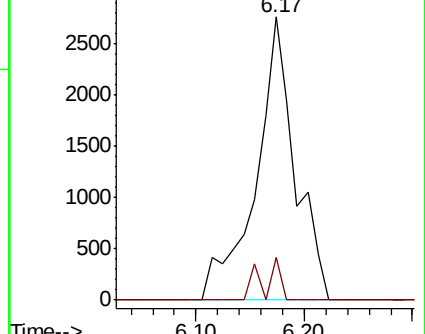
43 100

72 15.0 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.876 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.13 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

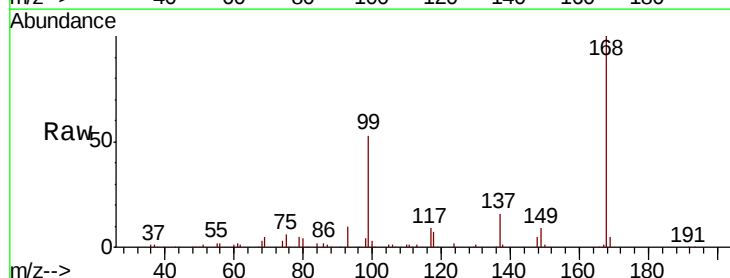
Tgt Ion: 56 Resp: 19607

Ion Ratio Lower Upper

56 100

69 212.3 25.3 37.9#

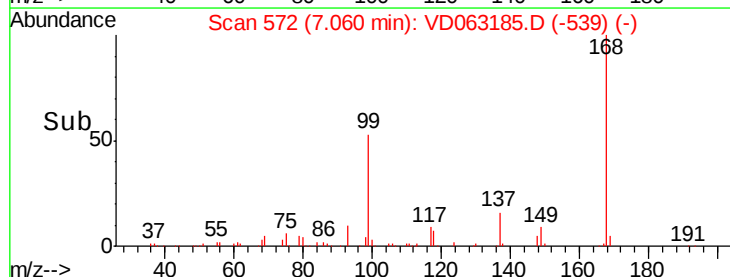
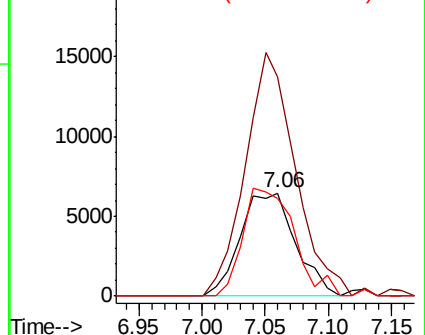
84 94.9 64.2 96.4

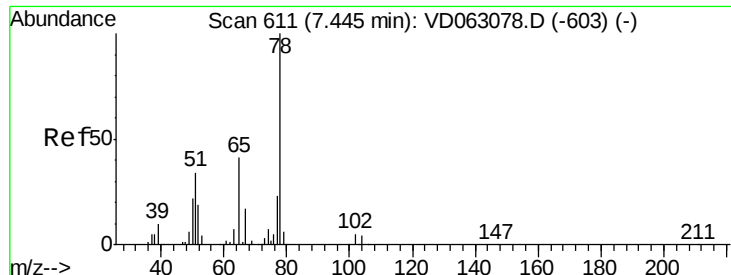


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 62.674 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

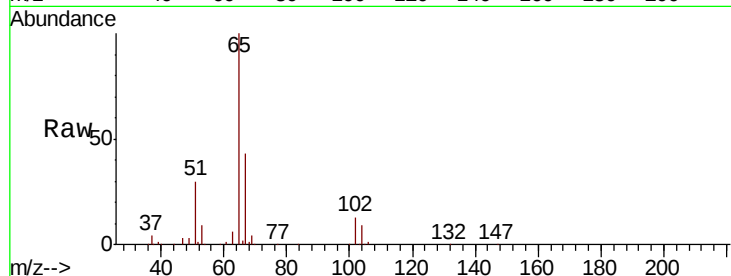
SOIL-COMP

Tot Ion: 65 Resp: 688101

Ion Ratio Lower Upper

65 100

67 43.2 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

250000

200000

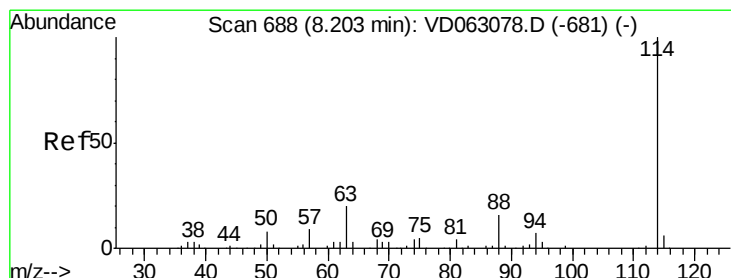
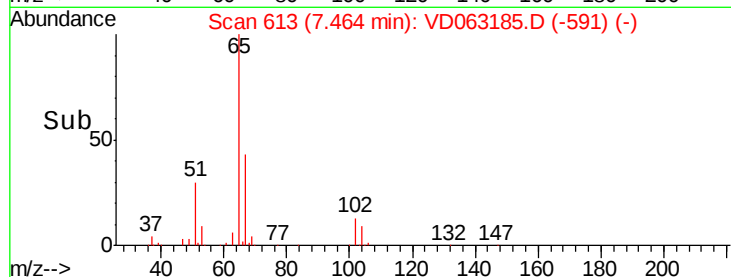
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60 7.70



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

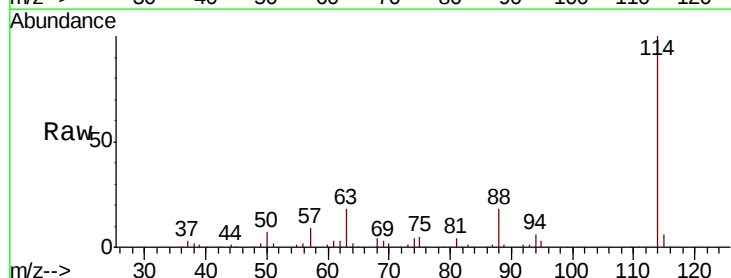
Tgt Ion: 114 Resp: 1303537

Ion Ratio Lower Upper

114 100

63 17.6 0.0 40.6

88 17.6 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.23

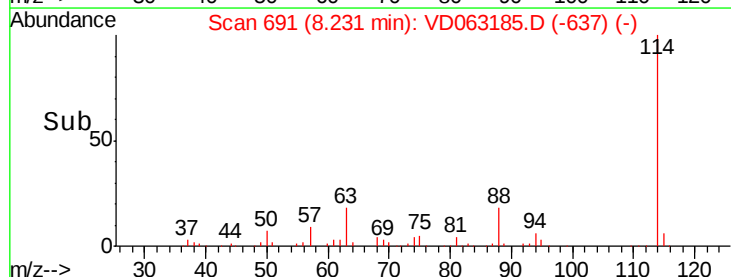
600000

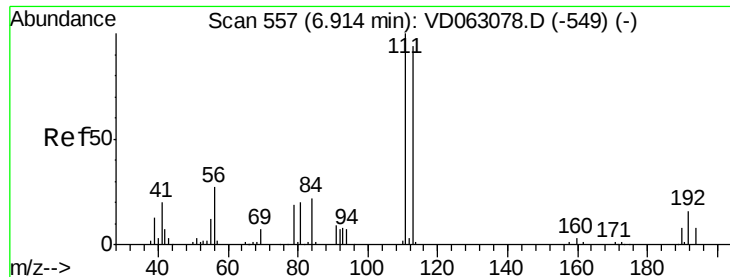
400000

200000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 58.210 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

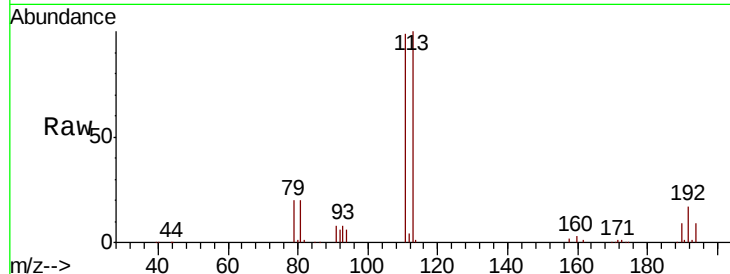
Tot Ion:113 Resp: 755777

Ion Ratio Lower Upper

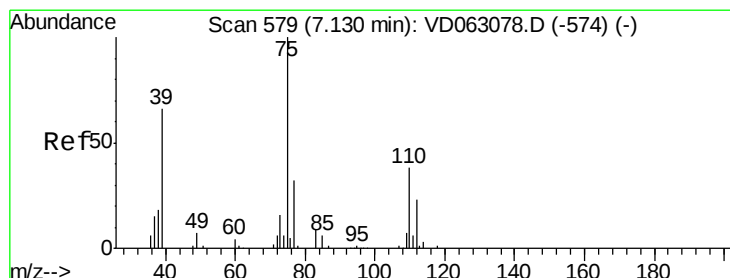
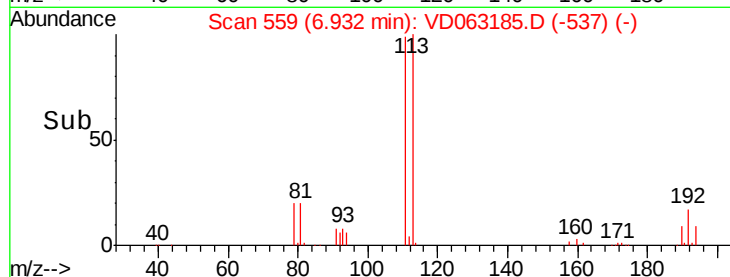
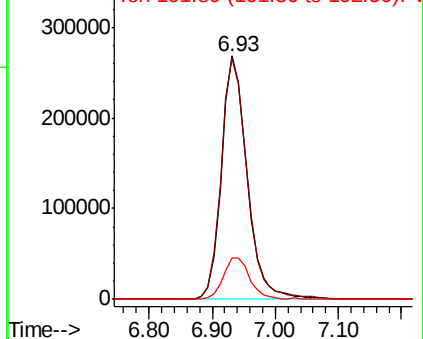
113 100

111 99.0 84.8 127.2

192 16.8 13.4 20.0



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.455 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

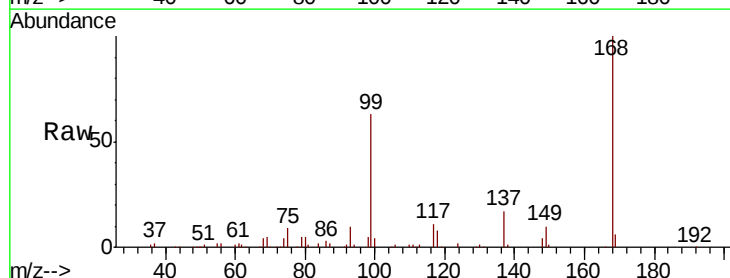
Tgt Ion: 75 Resp: 65308

Ion Ratio Lower Upper

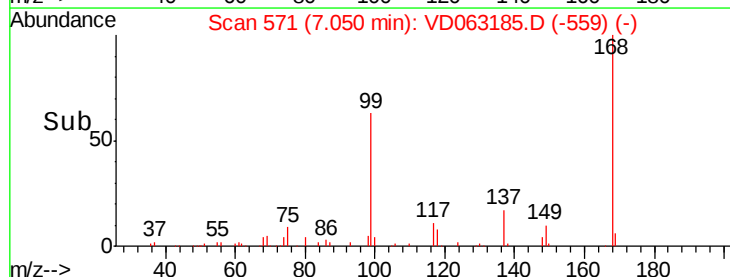
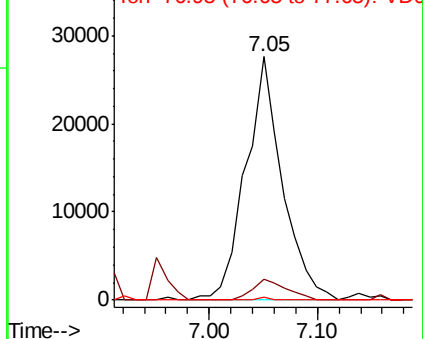
75 100

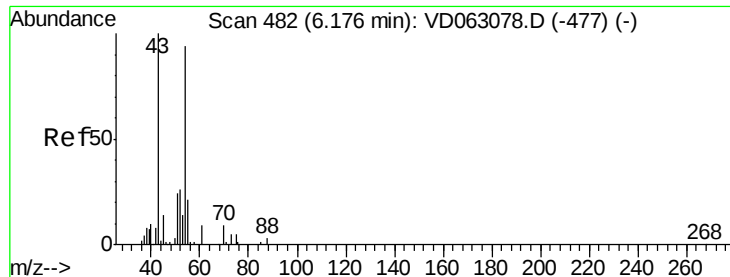
110 8.4 18.9 56.5#

77 1.3 25.2 37.8#



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

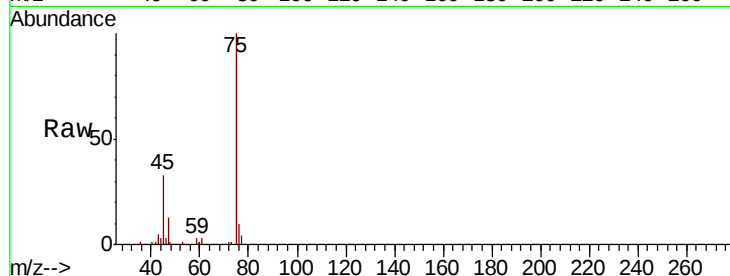




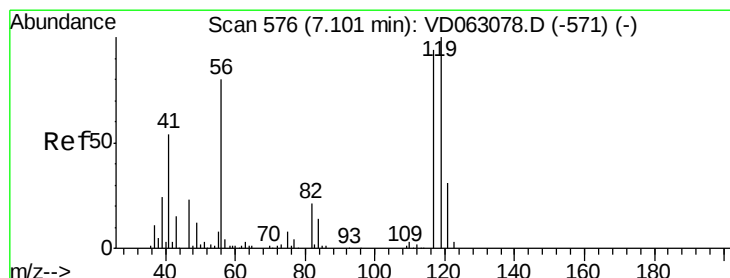
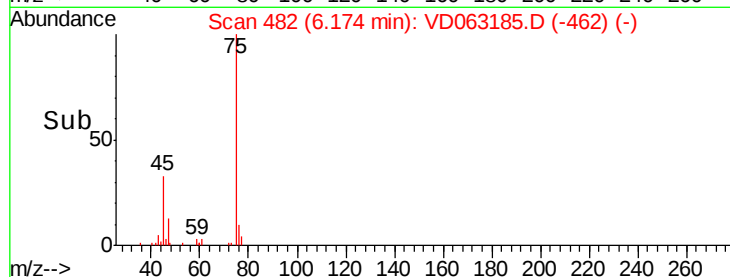
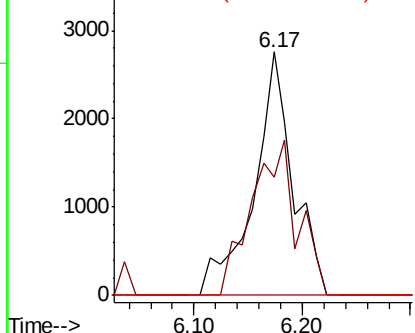
#37
Ethyl Acetate
Concen: 1.113 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.00 min
Lab File: VD063185.D
Acq: 22 Jul 2019 19:01

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMP

Tot Ion: 43 Resp: 6984
Ion Ratio Lower Upper
43 100
61 48.5 10.6 16.0#
70 0.0 6.6 9.8#

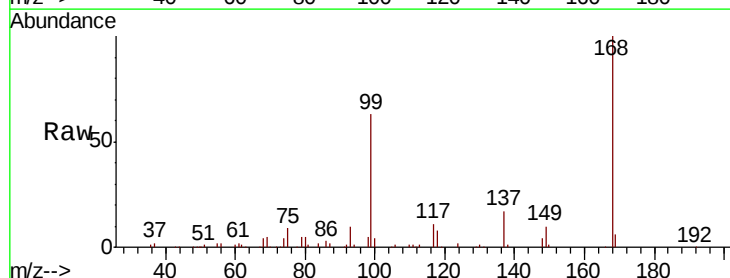


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

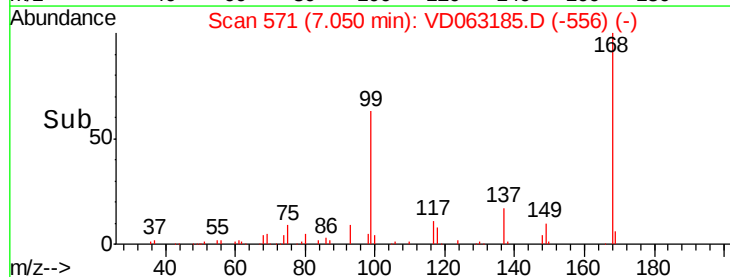
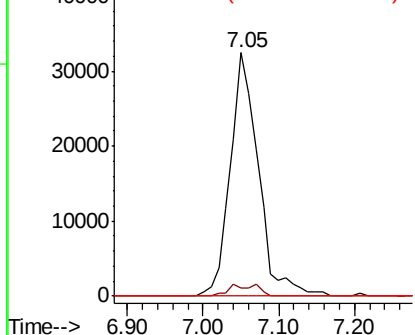


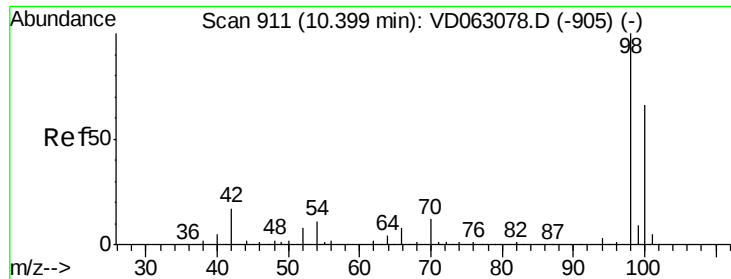
#38
Carbon Tetrachloride
Concen: 3.734 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD063185.D
Acq: 22 Jul 2019 19:01

Tgt Ion: 117 Resp: 83191
Ion Ratio Lower Upper
117 100
119 3.2 80.0 120.0#
121 0.0 25.0 37.4#



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

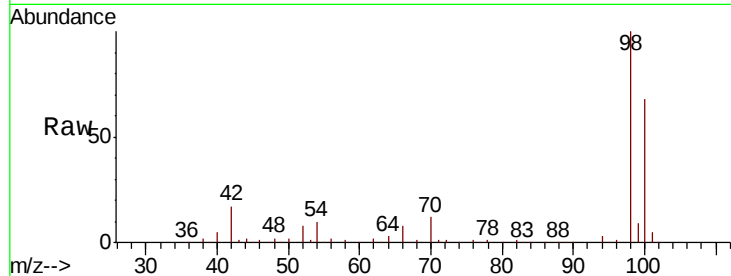




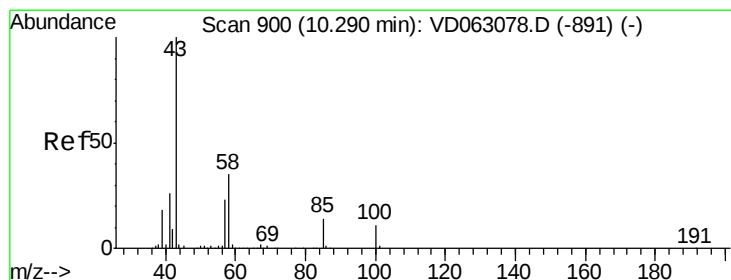
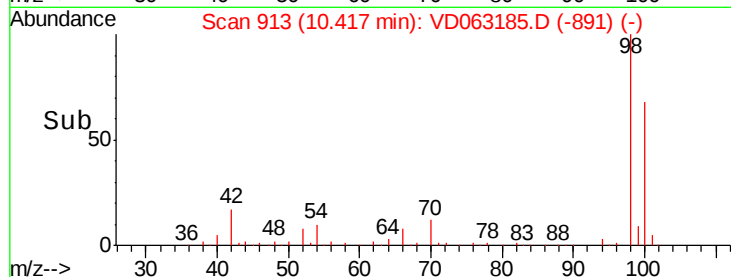
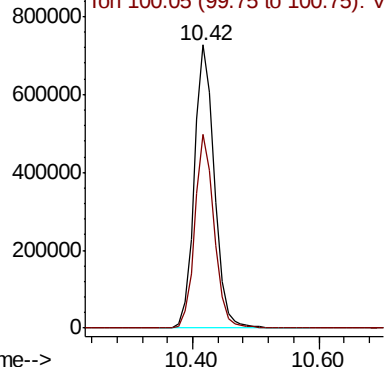
#50
Toluene-d8
Concen: 57.509 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD063185.D
Acq: 22 Jul 2019 19:01

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMP

Tot Ion: 98 Resp: 1603860
Ion Ratio Lower Upper
98 100
100 68.4 53.5 80.3

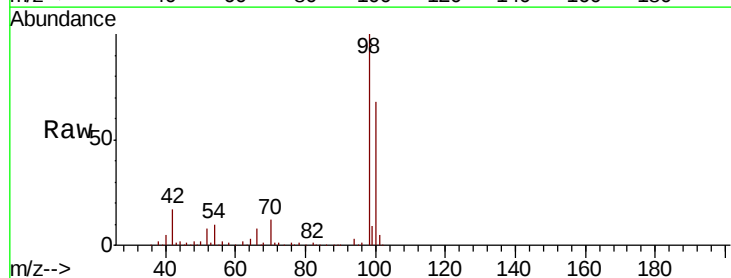


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

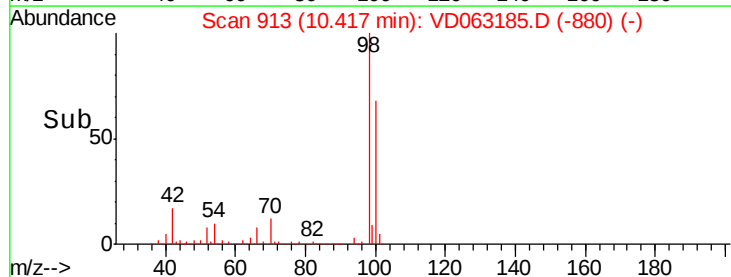
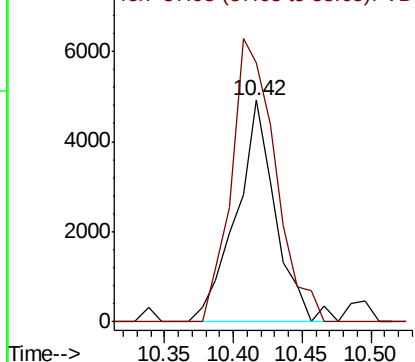


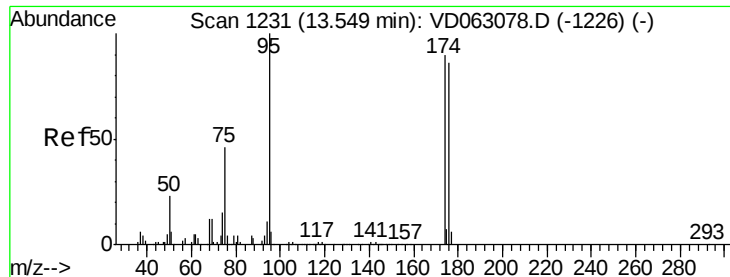
#51
4-Methyl-2-Pentanone
Concen: 1.639 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.13 min
Lab File: VD063185.D
Acq: 22 Jul 2019 19:01

Tgt Ion: 43 Resp: 9779
Ion Ratio Lower Upper
43 100
58 116.6 27.8 41.6#



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





#62

4-Bromofluorobenzene

Concen: 51.236 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

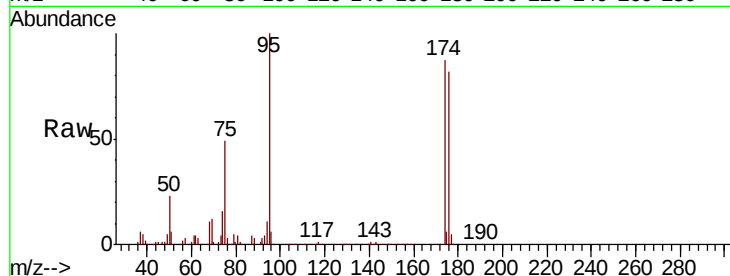
Tot Ion: 95 Resp: 661064

Ion Ratio Lower Upper

95 100

174 86.7 0.0 180.6

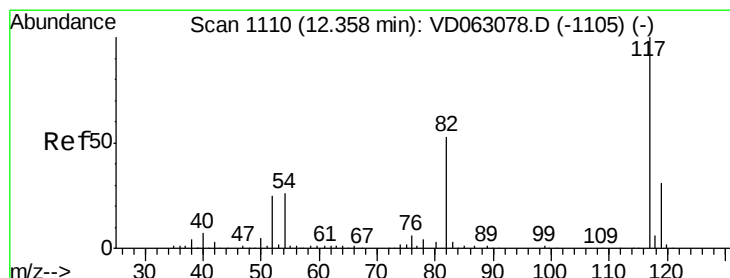
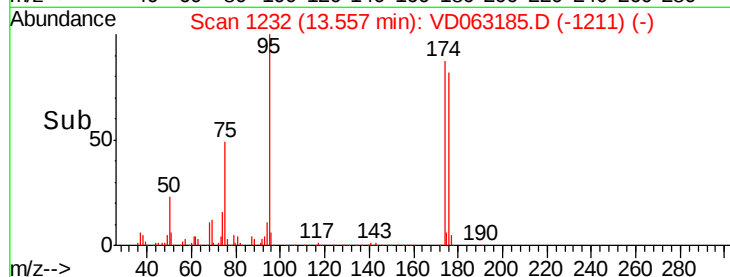
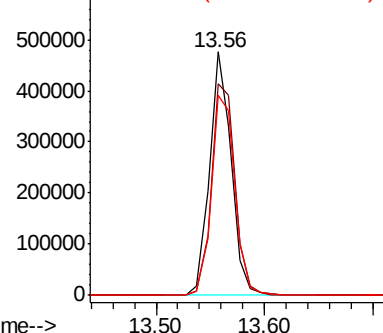
176 82.3 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

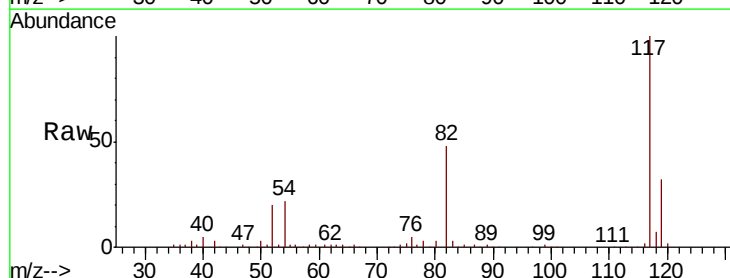
Tgt Ion: 117 Resp: 1098503

Ion Ratio Lower Upper

117 100

82 48.2 42.3 63.5

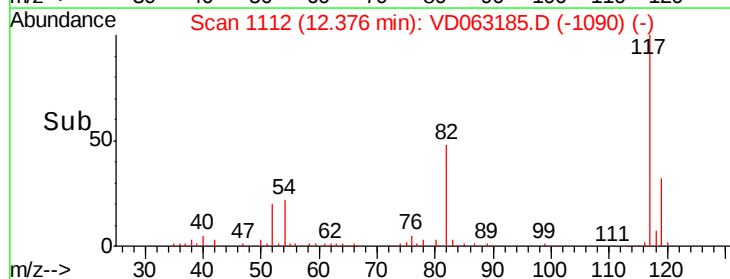
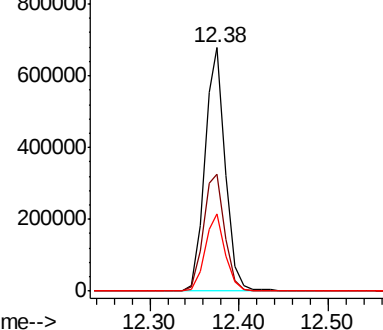
119 31.6 25.2 37.8

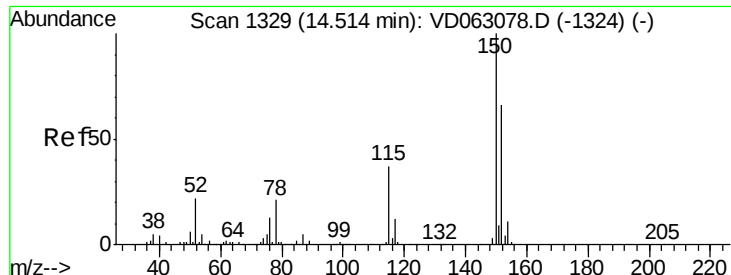


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

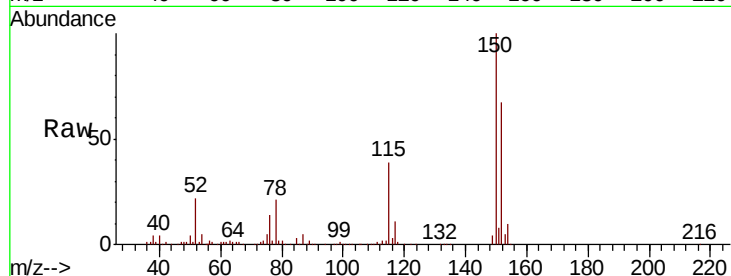
Tot Ion:152 Resp: 568360

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.8

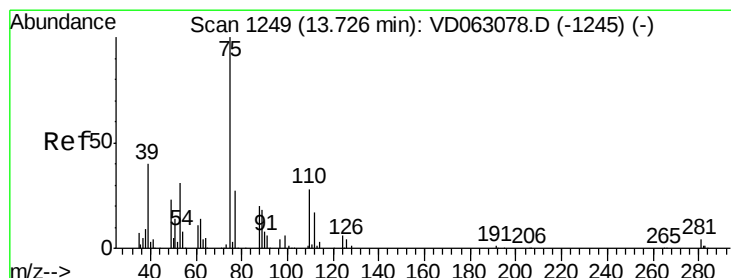
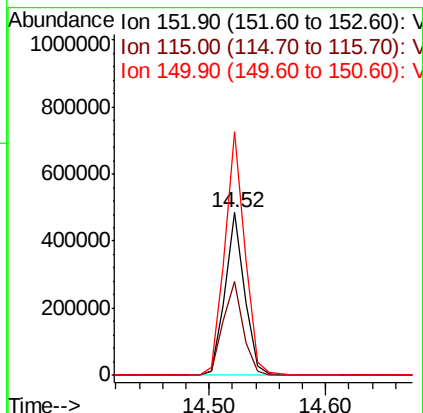
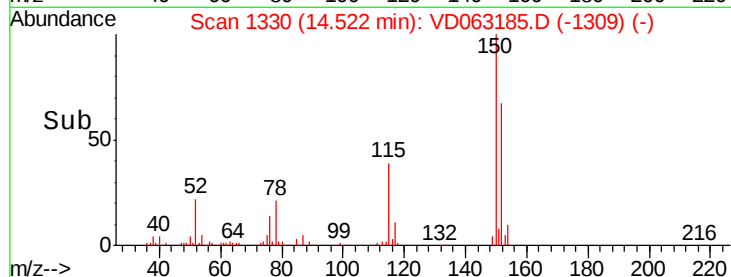
150 149.4 0.0 313.8



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



#76

1,2,3-Trichloropropane

Concen: 26.968 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063185.D

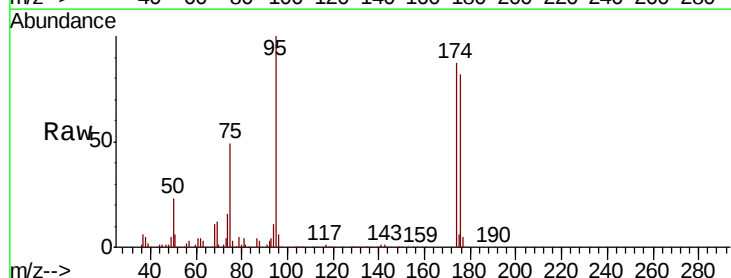
Acq: 22 Jul 2019 19:01

Tgt Ion: 75 Resp: 235778

Ion Ratio Lower Upper

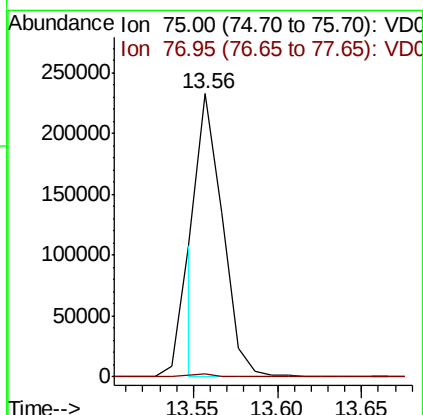
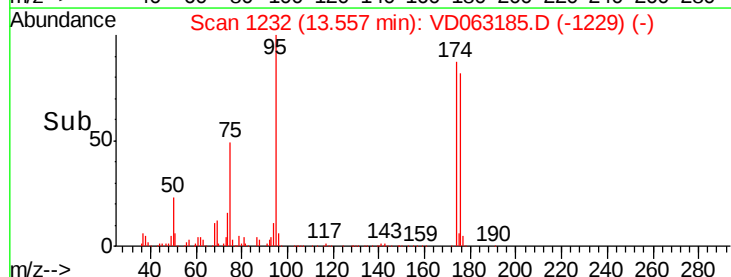
75 100

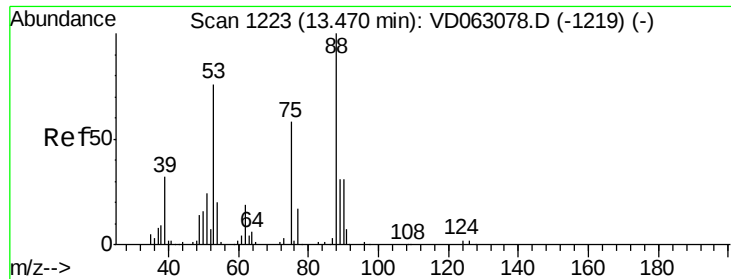
77 0.9 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 132.516 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063185.D

Acq: 22 Jul 2019 19:01

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

Tot Ion: 75 Resp: 305100

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

