

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061719\
 Data File : VD062731.D
 Acq On : 17 Jun 2019 17:18
 Operator : VA/AP
 Sample : K3389-01RE
 Misc : 6.20g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 GS-SOIL-PILERE

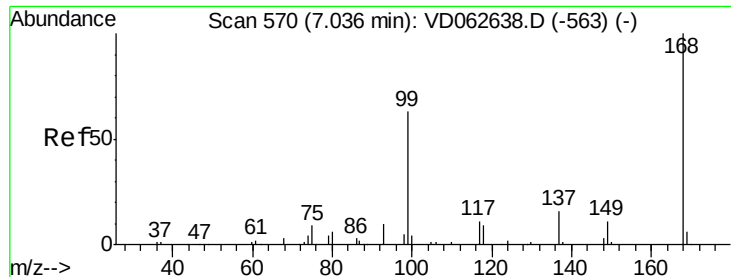
Quant Time: Jun 18 06:24:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	388757	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	485013	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	359046	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	142768	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	137804	24.57	ug/l	0.00
Spiked Amount			Recovery	=	49.14%	
35) Dibromofluoromethane	6.93	113	149307	29.19	ug/l	0.01
Spiked Amount			Recovery	=	58.38%	
50) Toluene-d8	10.42	98	306027	28.44	ug/l	0.00
Spiked Amount			Recovery	=	56.88%	
62) 4-Bromofluorobenzene	13.57	95	118517	23.61	ug/l	0.01
Spiked Amount			Recovery	=	47.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	416	Below Cal	#	42
10) Methyl Iodide	3.31	142	439	4.067	ug/l #	24
13) Acrolein	3.02	56	217	2.926	ug/l #	12
16) Acetone	3.22	43	188220	183.230	ug/l #	90
18) Methyl Acetate	3.63	43	2951	1.748	ug/l #	64
20) Methylene Chloride	3.81	84	11105	2.441	ug/l #	69
25) 2-Butanone	6.06	43	19592	19.550	ug/l	97
31) Cyclohexane	7.05	56	7495	1.693	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	31086	5.600	ug/l #	51
37) Ethyl Acetate	6.21	43	836	1.546	ug/l #	74
38) Carbon Tetrachloride	7.05	117	41475	4.727	ug/l #	14
76) 1,2,3-Trichloropropane	13.57	75	53659	27.719	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.57	75	54644	91.667	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.96	180	228	3.626	ug/l #	79
95) Naphthalene	16.14	128	3395	4.060	ug/l #	72

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062731.D

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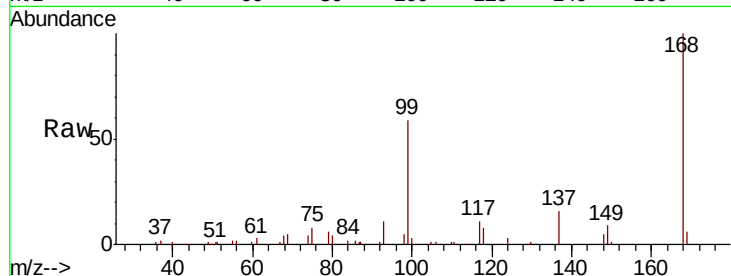
GS-SOIL-PILERE

Tot Ion:168 Resp: 388757

Ion Ratio Lower Upper

168 100

99 58.7 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

150000

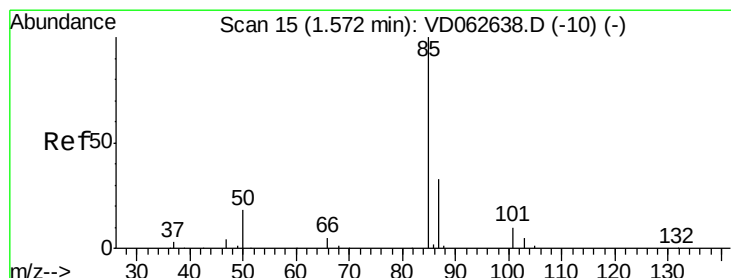
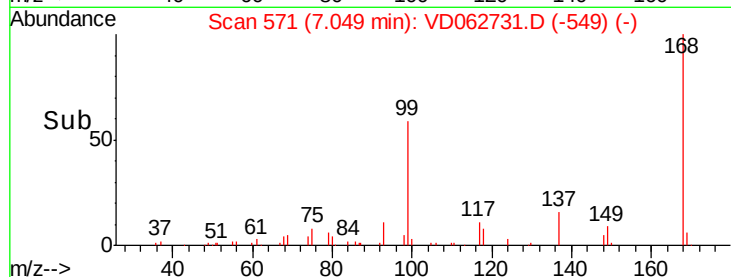
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.59 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062731.D

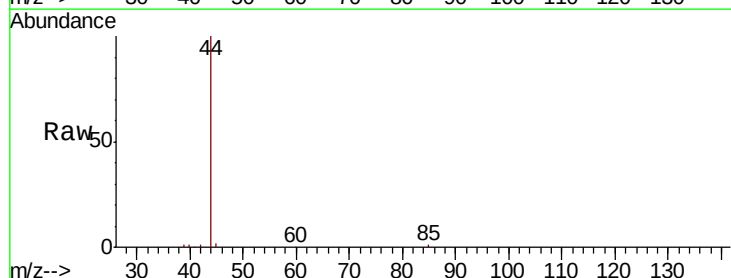
Acq: 17 Jun 2019 17:18

Tgt Ion: 85 Resp: 416

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

1.59

800

600

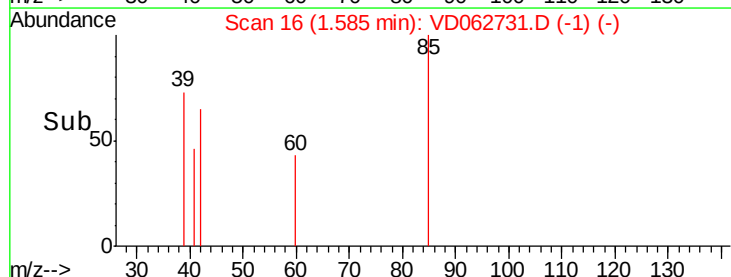
400

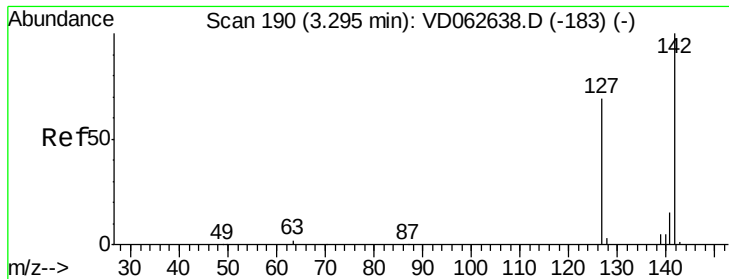
200

0

Time-->

1.56 1.58 1.60

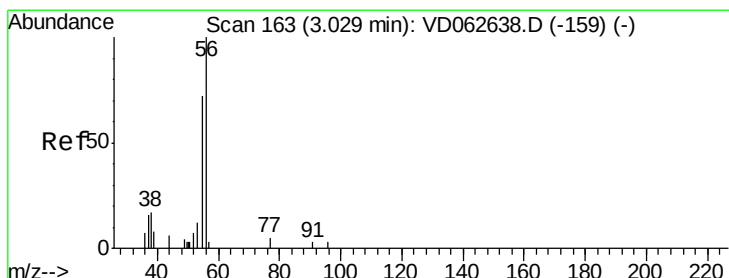
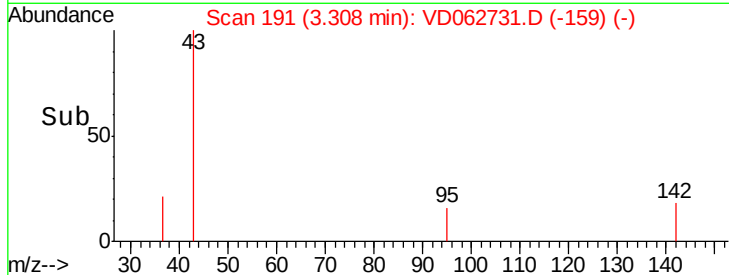
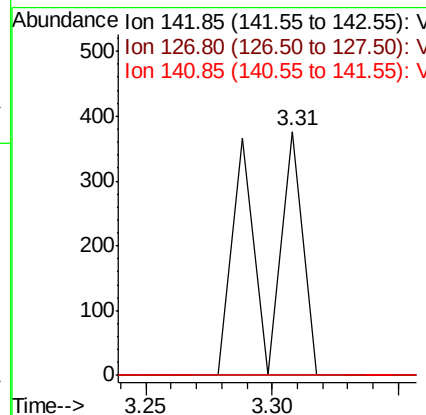
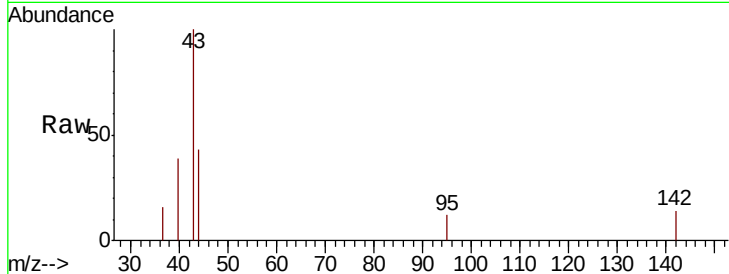




#10
Methvl Iodide
Concen: 4.067 ug/l
RT: 3.31 min Scan# 191
Delta R.T. 0.01 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

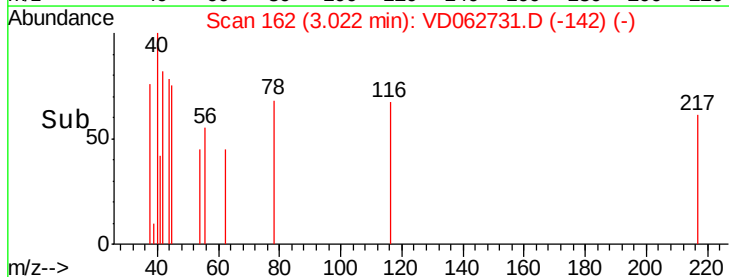
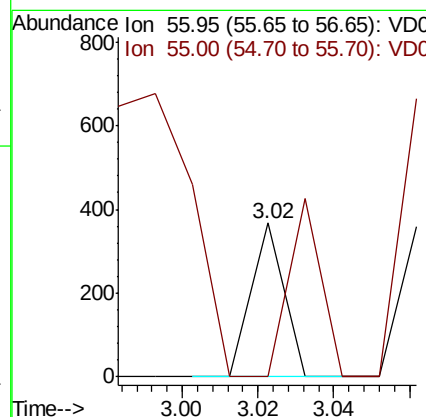
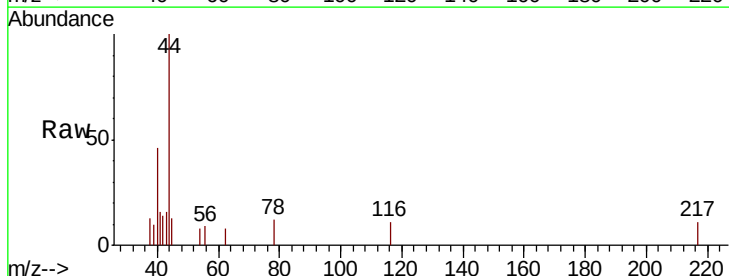
Instrument :
MSVOA_D
ClientSampleId :
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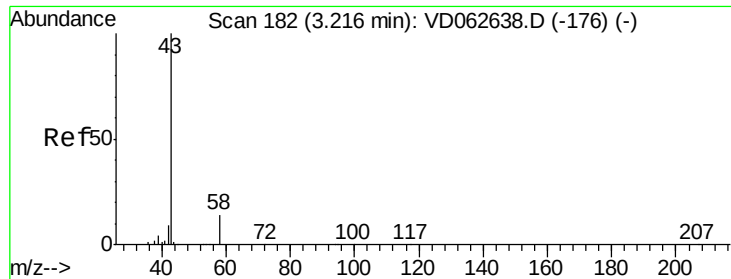
Tot Ion:142 Resp: 439
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#13
Acrolein
Concen: 2.926 ug/l
RT: 3.02 min Scan# 162
Delta R.T. -0.01 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

Tgt Ion: 56 Resp: 217
Ion Ratio Lower Upper
56 100
55 0.0 59.4 89.0#

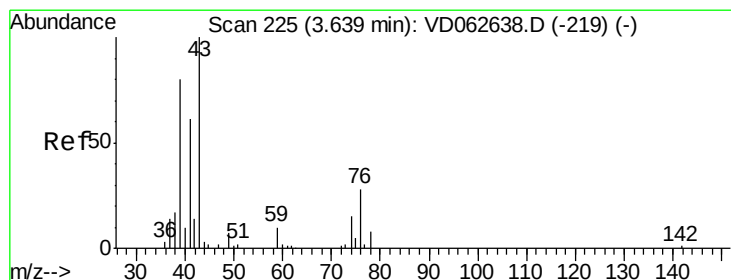
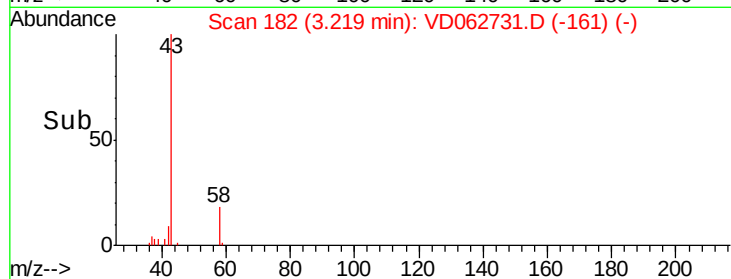
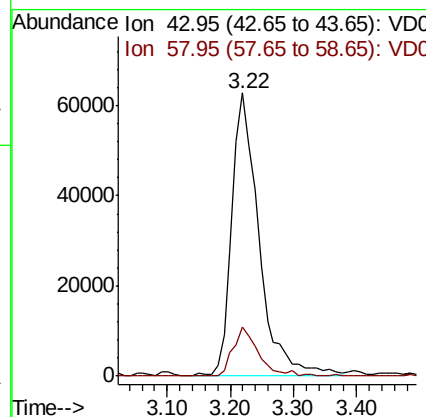
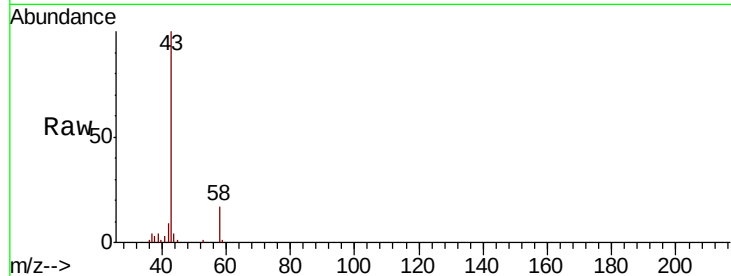




#16
Acetone
Concen: 183.230 ug/l
RT: 3.22 min Scan# 182
Delta R.T. 0.00 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

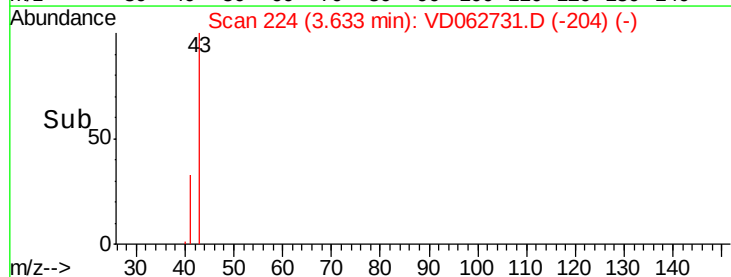
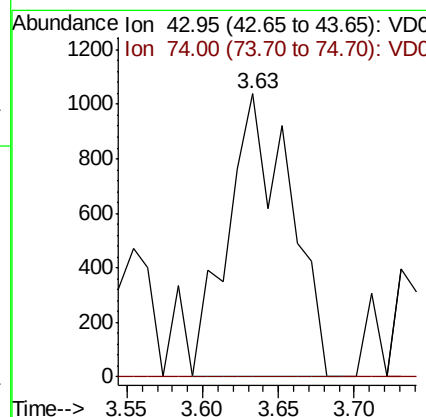
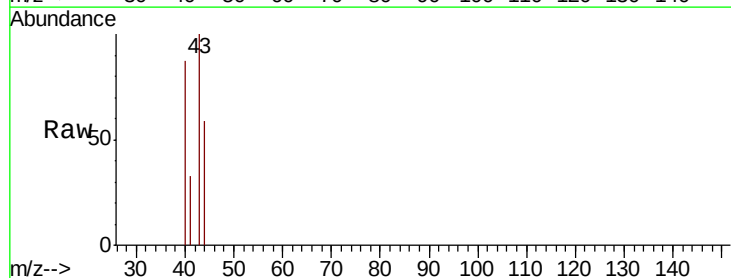
Instrument :
MSVOA_D
ClientSampleId :
GS-SOIL-PILERE

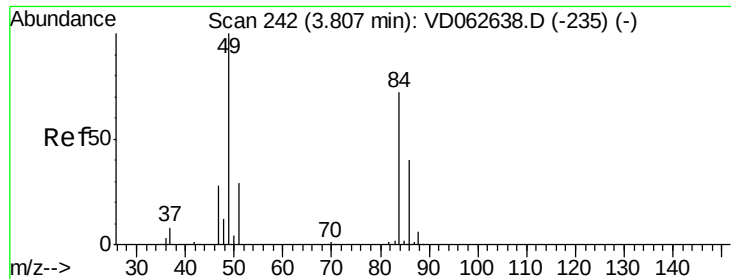
Tot Ion: 43 Resp: 188220
Ion Ratio Lower Upper
43 100
58 17.4 10.8 16.2#



#18
Methyl Acetate
Concen: 1.748 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

Tgt Ion: 43 Resp: 2951
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#

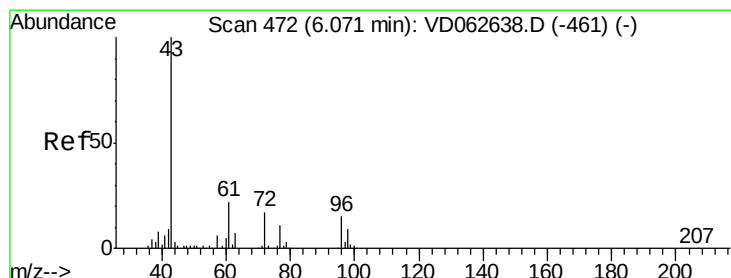
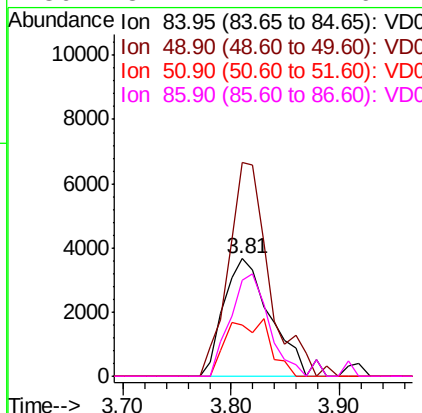
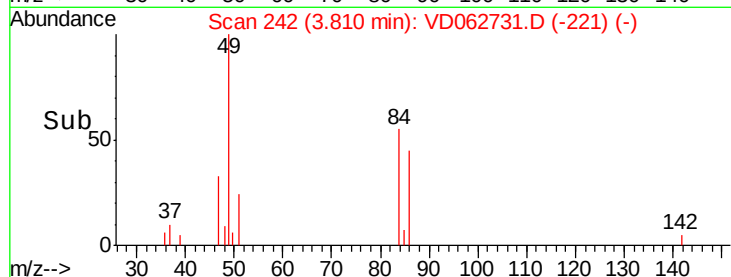
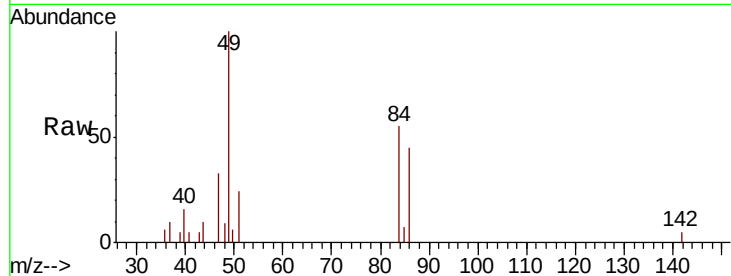




#20
Methvlene Chloride
Concen: 2.441 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

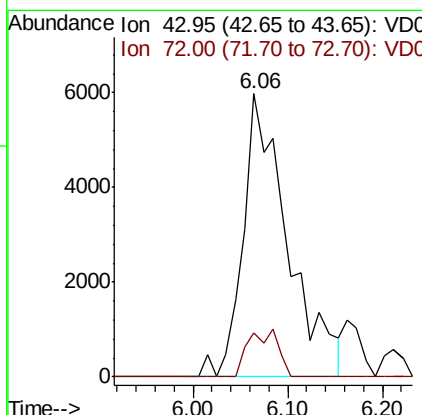
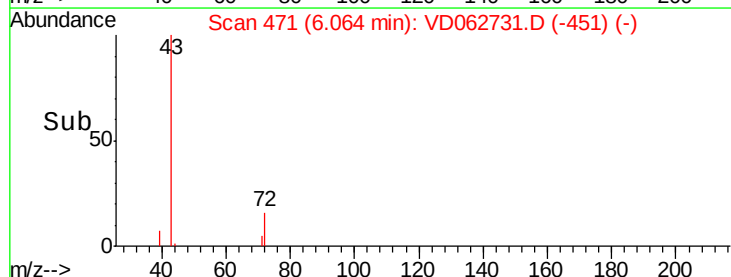
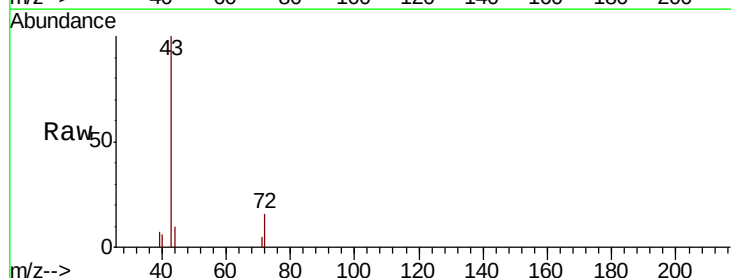
Instrument :
MSVOA_D
ClientSampleId :
GS-SOIL-PILERE

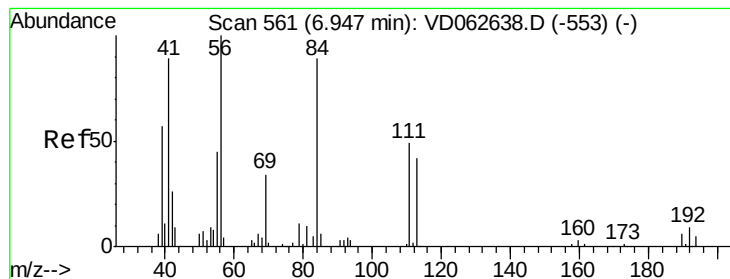
Tot Ion: 84 Resp: 11105
Ion Ratio Lower Upper
84 100
49 182.3 111.2 166.8#
51 43.3 31.9 47.9
86 82.4 44.7 67.1#



#25
2-Butanone
Concen: 19.550 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.01 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

Tgt Ion: 43 Resp: 19592
Ion Ratio Lower Upper
43 100
72 15.7 13.5 20.3





#31

Cyclohexane

Concen: 1.693 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.10 min

Lab File: VD062731.D

Acq: 17 Jun 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

GS-SOIL-PILERE

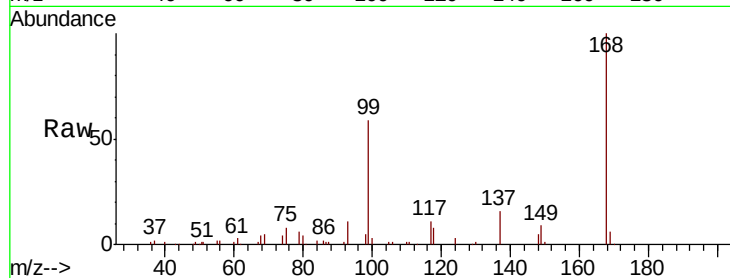
Tot Ion: 56 Resp: 7495

Ion Ratio Lower Upper

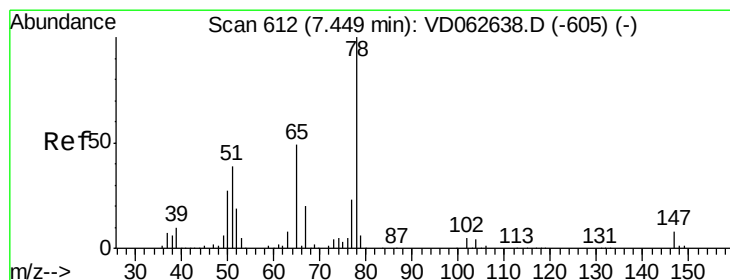
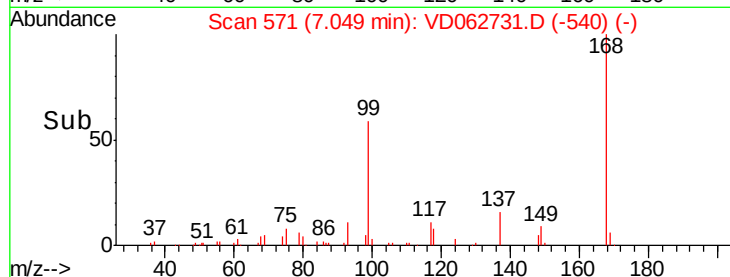
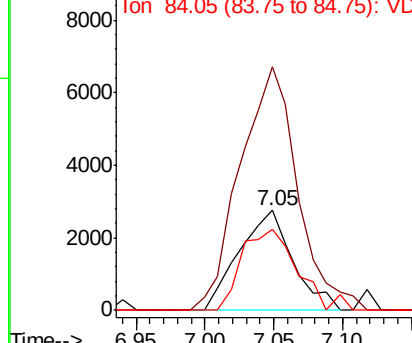
56 100

69 243.3 26.8 40.2#

84 81.0 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: 24.565 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD062731.D

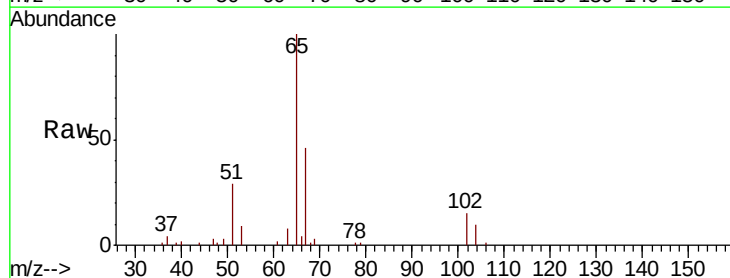
Acq: 17 Jun 2019 17:18

Tgt Ion: 65 Resp: 137804

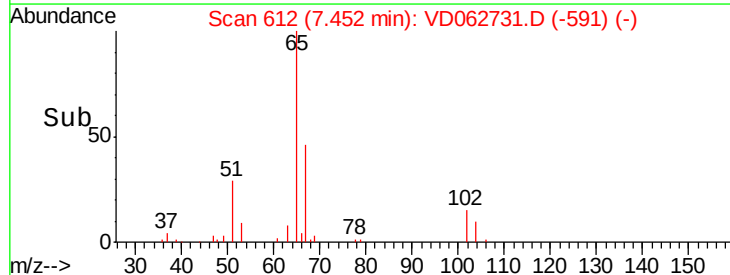
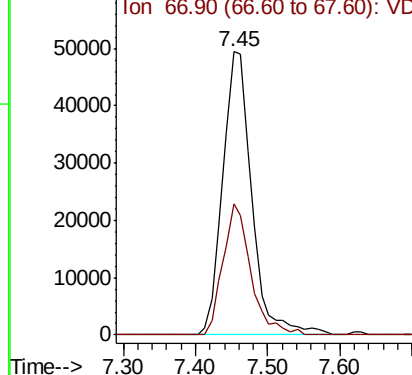
Ion Ratio Lower Upper

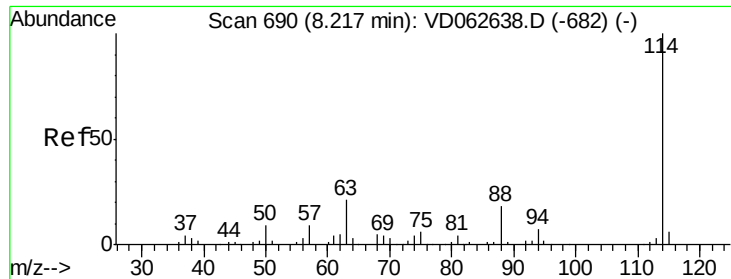
65 100

67 46.1 0.0 81.8



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

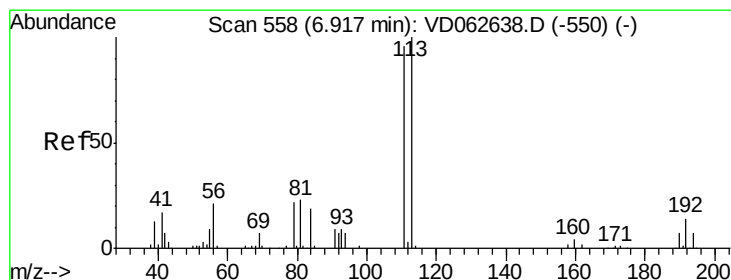
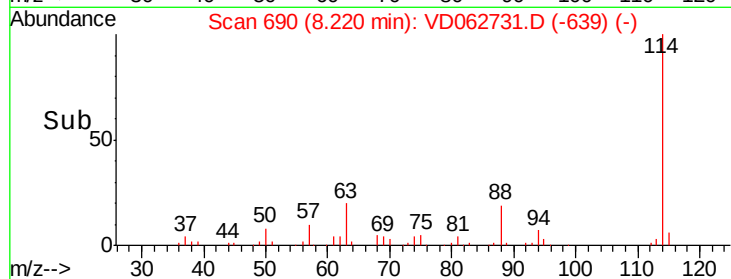
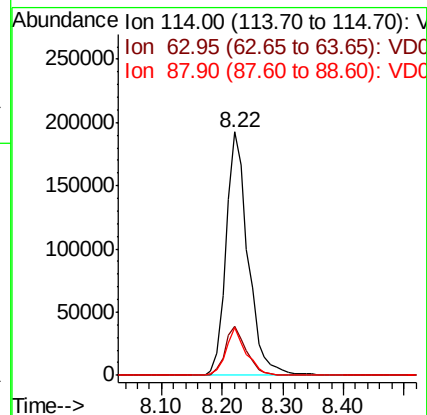
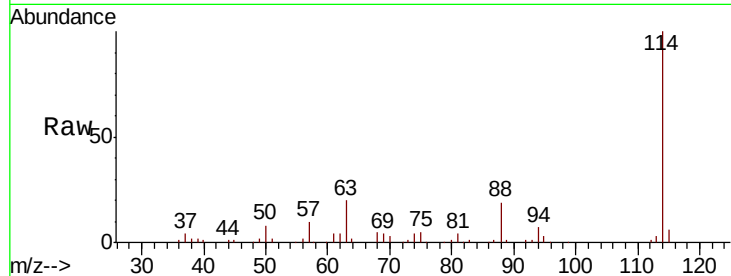




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.00 min
 Lab File: VD062731.D
 Acq: 17 Jun 2019 17:18

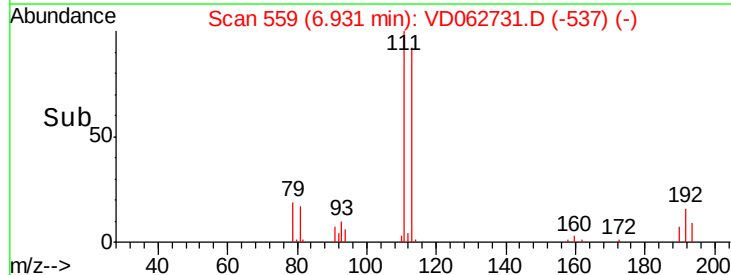
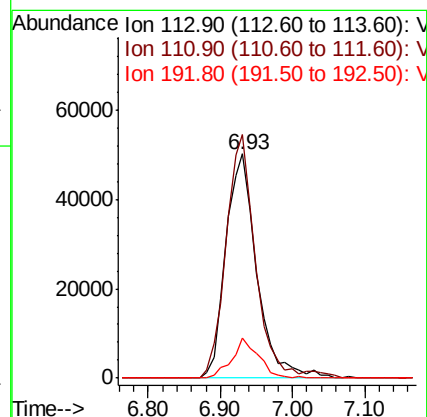
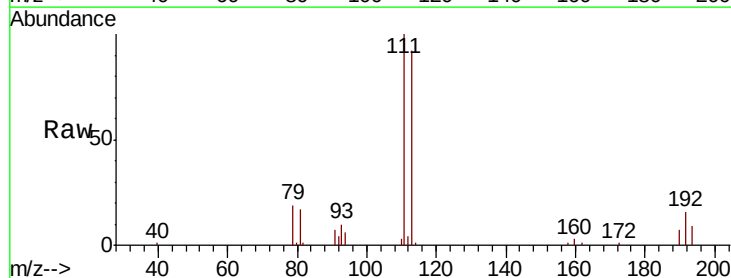
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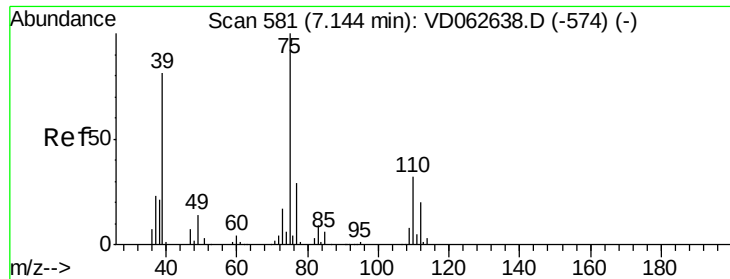
Tot Ion:114 Resp: 485013
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.4
 88 19.4 0.0 36.8



#35
 Dibromofluoromethane
 Concen: 29.189 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD062731.D
 Acq: 17 Jun 2019 17:18

Tgt Ion:113 Resp: 149307
 Ion Ratio Lower Upper
 113 100
 111 108.8 76.4 114.6
 192 17.8 11.4 17.0#

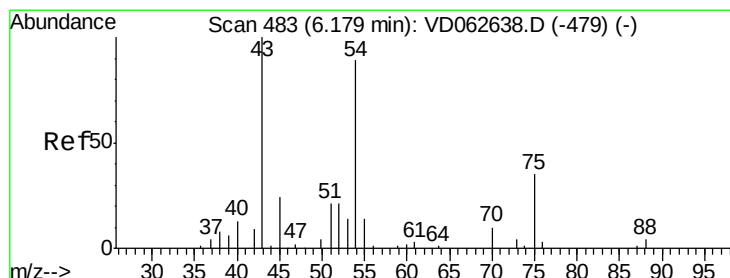
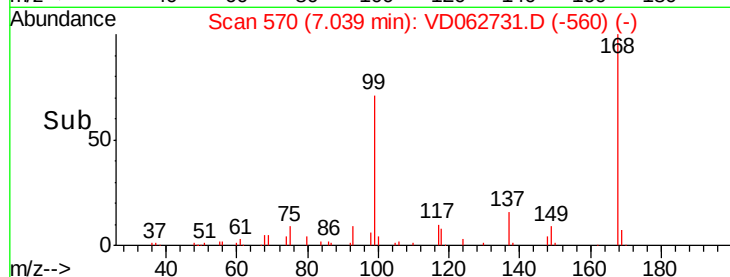
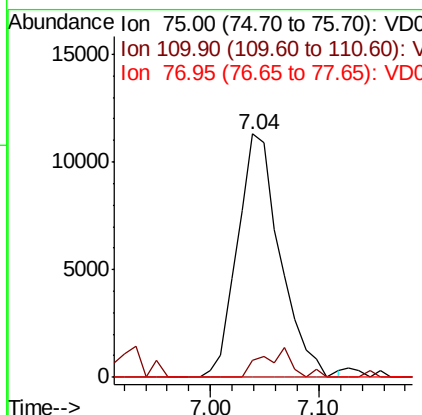
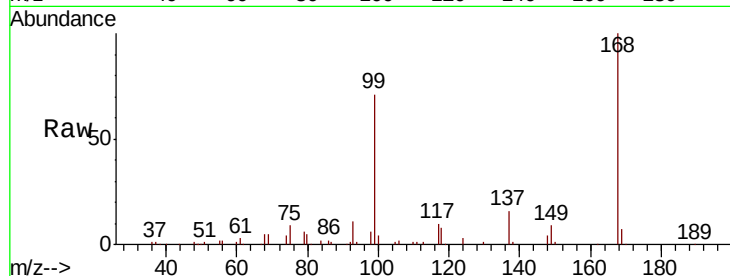




#36
 1,1-Dichloropropene
 Concen: 5.600 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD062731.D
 Acq: 17 Jun 2019 17:18

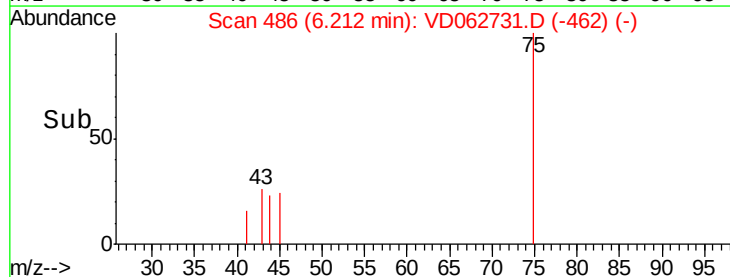
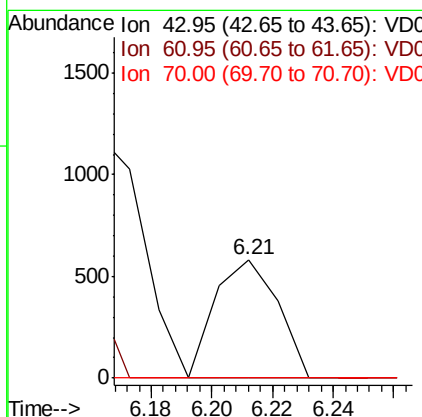
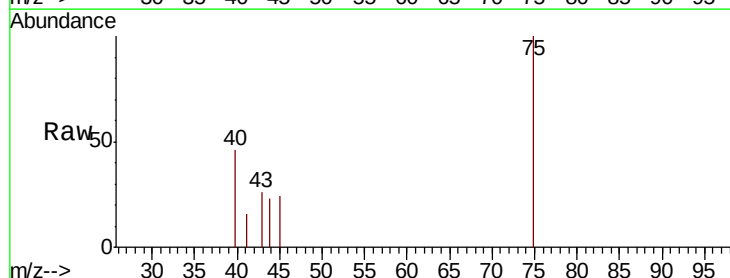
Instrument :
 MSVOA_D
 ClientSampleId :
 GS-SOIL-PILERE

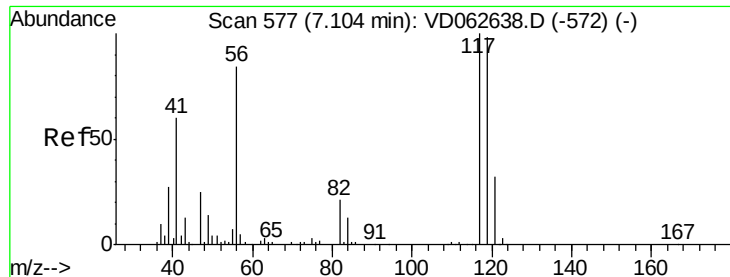
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.8	15.9	47.7#
77	0.0	23.3	34.9#



#37
 Ethyl Acetate
 Concen: 1.546 ug/l
 RT: 6.21 min Scan# 486
 Delta R.T. 0.03 min
 Lab File: VD062731.D
 Acq: 17 Jun 2019 17:18

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	8.7	13.1#
70	0.0	6.5	9.7#

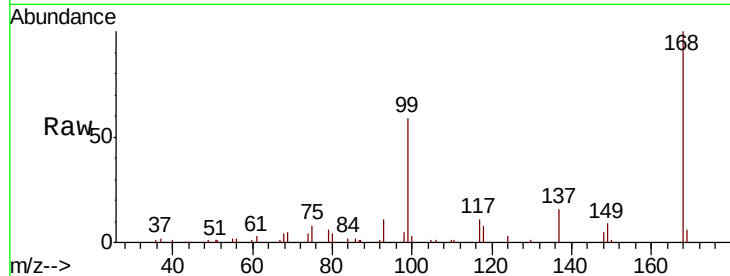




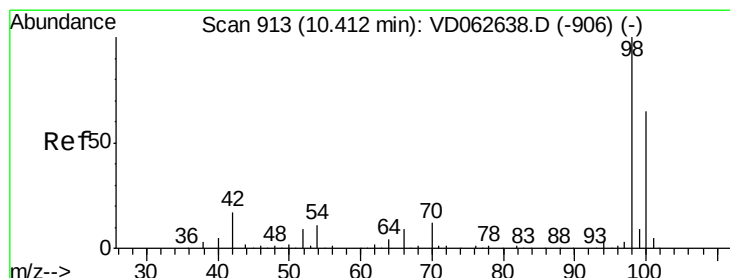
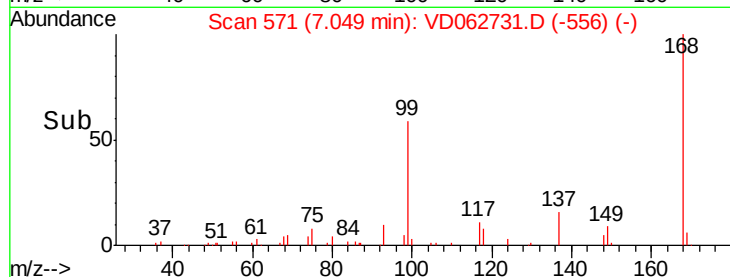
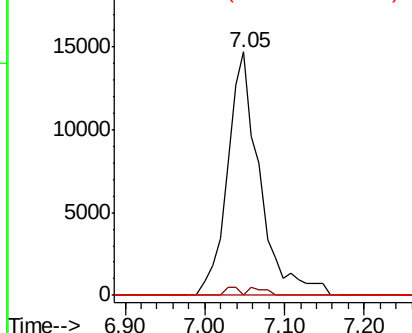
#38
Carbon Tetrachloride
Concen: 4.727 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

Instrument :
MSVOA_D
ClientSampleId :
GS-SOIL-PILERE

Tot Ion:117 Resp: 41475
Ion Ratio Lower Upper
117 100
119 0.0 73.5 110.3#
121 0.0 24.2 36.4#

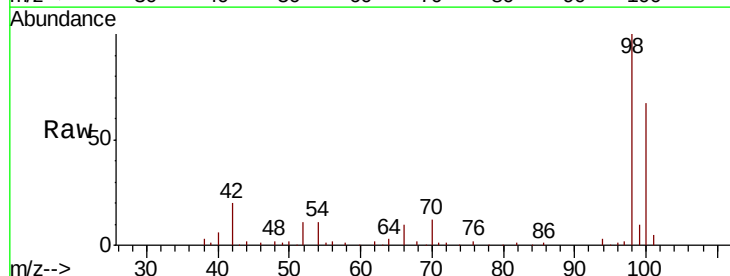


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

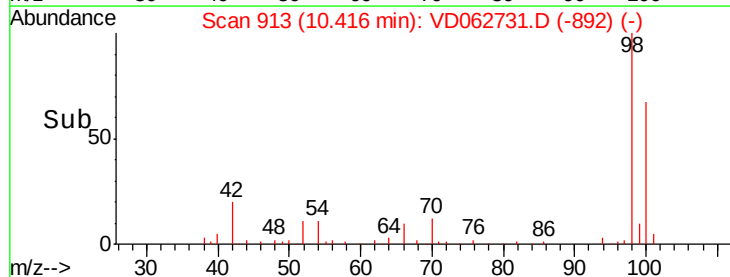
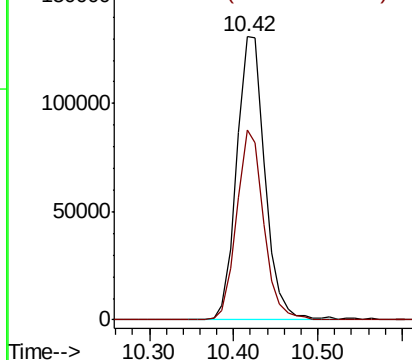


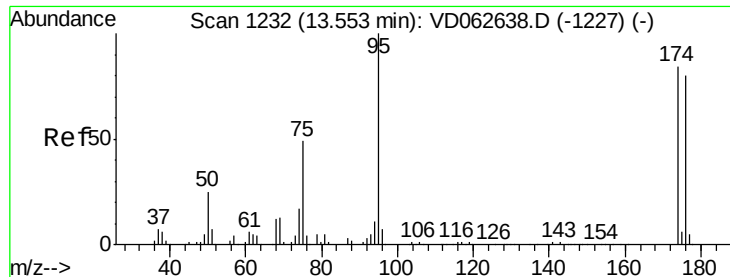
#50
Toluene-d8
Concen: 28.440 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062731.D
Acq: 17 Jun 2019 17:18

Tgt Ion: 98 Resp: 306027
Ion Ratio Lower Upper
98 100
100 67.3 52.1 78.1



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





#62

4-Bromofluorobenzene

Concen: 23.609 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062731.D

Acq: 17 Jun 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

GS-SOIL-PILERE

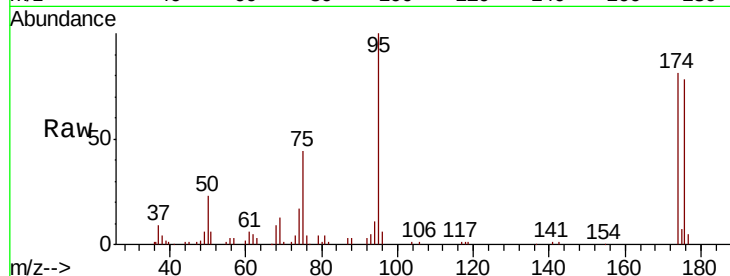
Tot Ion: 95 Resp: 118517

Ion Ratio Lower Upper

95 100

174 80.6 0.0 167.0

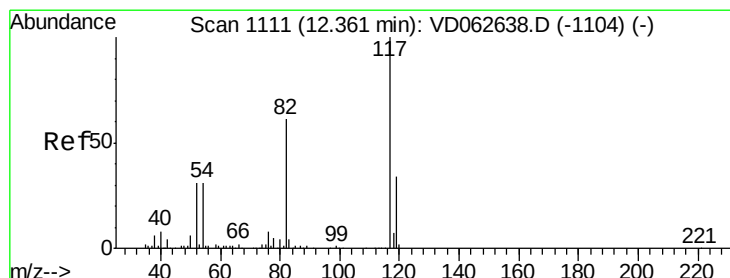
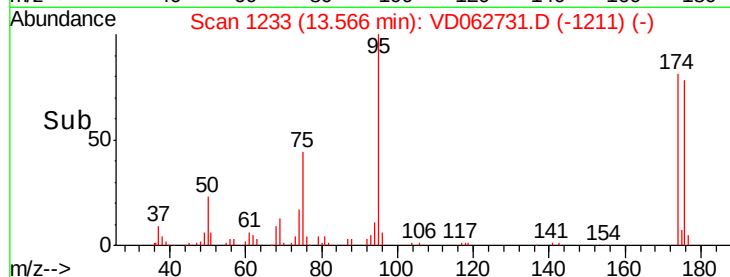
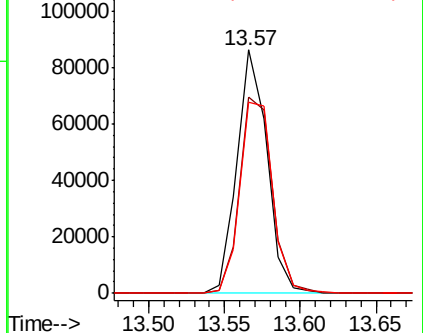
176 78.3 0.0 159.2



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD062731.D

Acq: 17 Jun 2019 17:18

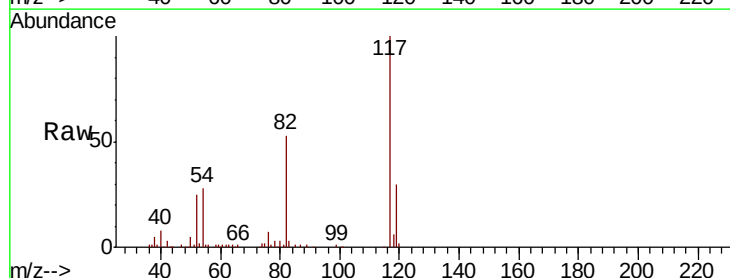
Tgt Ion: 117 Resp: 359046

Ion Ratio Lower Upper

117 100

82 53.4 48.7 73.1

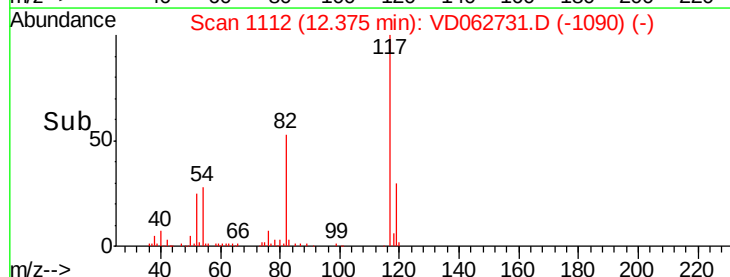
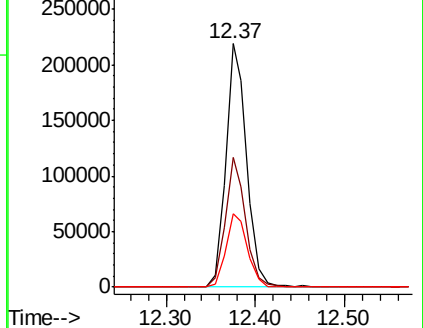
119 30.2 27.0 40.6

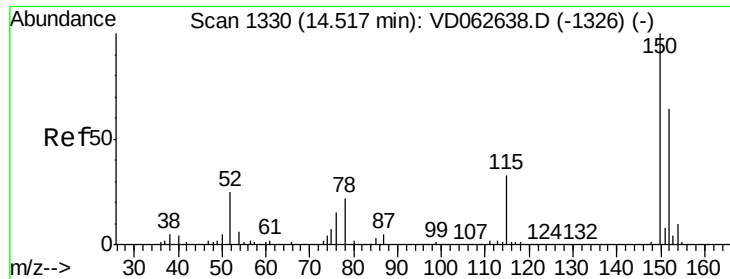


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062731.D

Acq: 17 Jun 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

GS-SOIL-PILERE

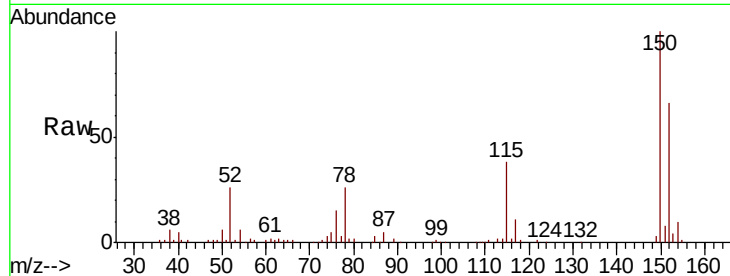
Tot Ion:152 Resp: 142768

Ion Ratio Lower Upper

152 100

115 57.5 30.1 90.5

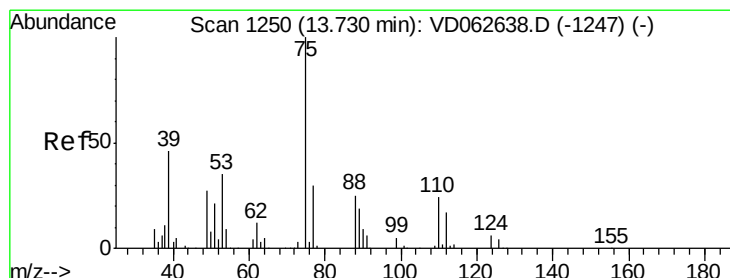
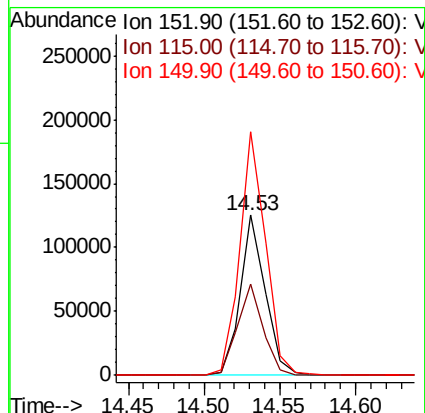
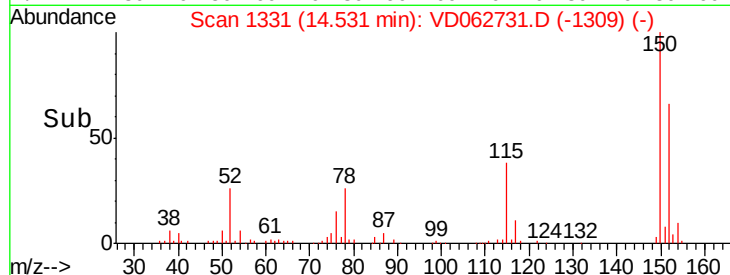
150 152.4 0.0 314.0



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: 27.719 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD062731.D

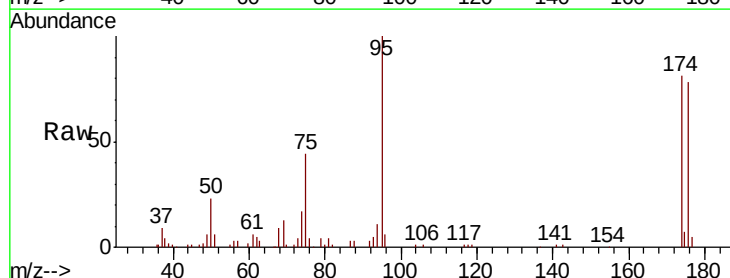
Acq: 17 Jun 2019 17:18

Tgt Ion: 75 Resp: 53659

Ion Ratio Lower Upper

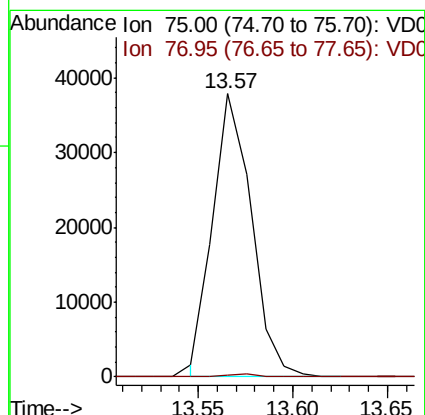
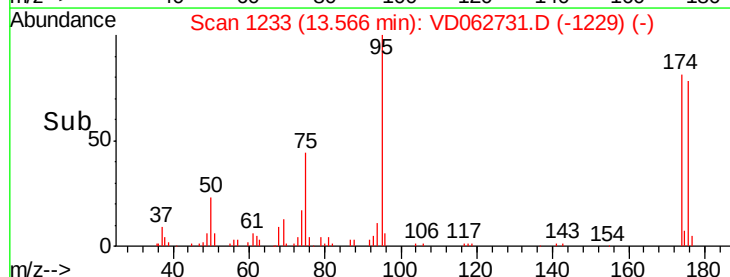
75 100

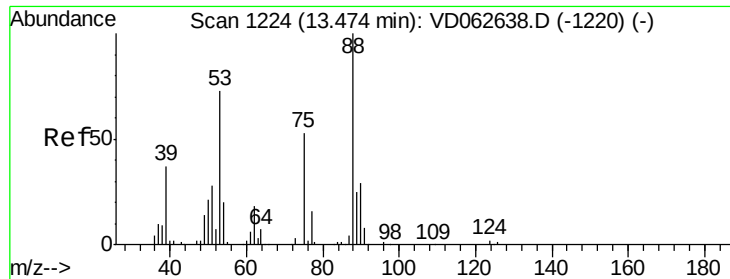
77 0.8 16.2 48.6#



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: 91.667 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062731.D

Acq: 17 Jun 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

GS-SOIL-PILERE

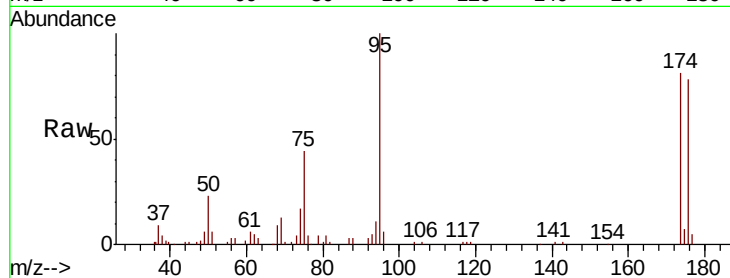
Tot Ion: 75 Resp: 54644

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

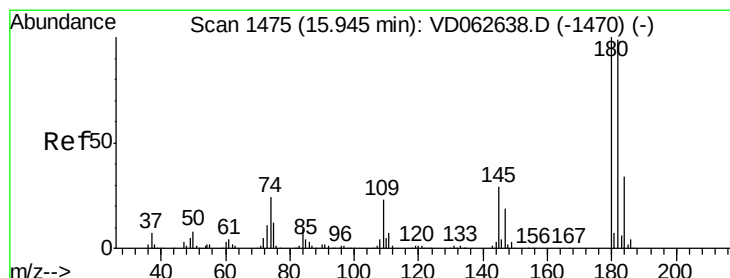
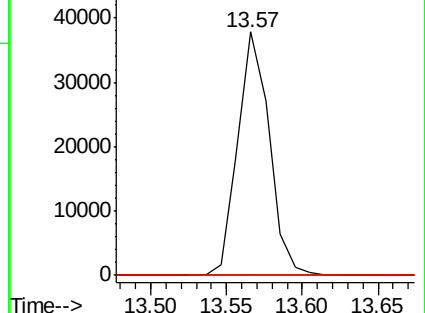
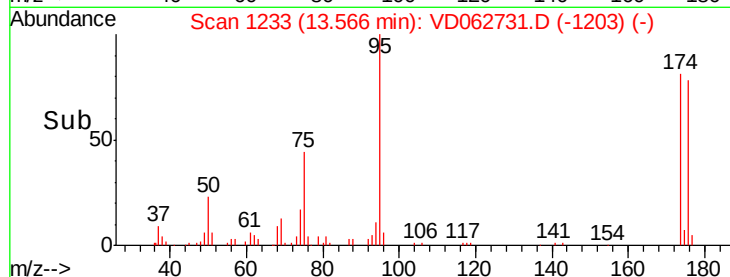
89 0.0 37.0 55.6#



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: 3.626 ug/l

RT: 15.96 min Scan# 1476

Delta R.T. 0.01 min

Lab File: VD062731.D

Acq: 17 Jun 2019 17:18

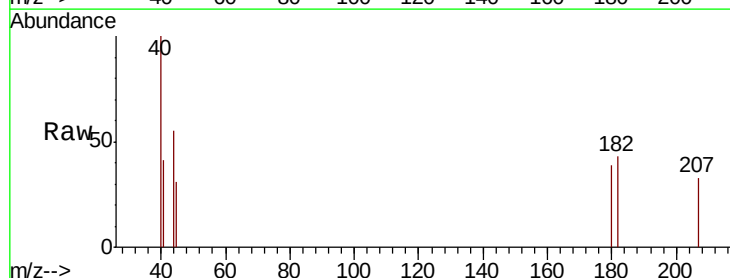
Tgt Ion: 180 Resp: 228

Ion Ratio Lower Upper

180 100

182 110.1 49.4 148.2

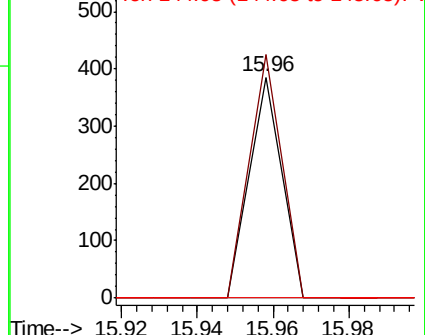
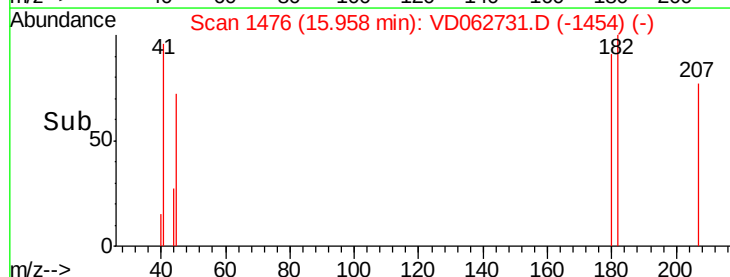
145 0.0 14.5 43.6#

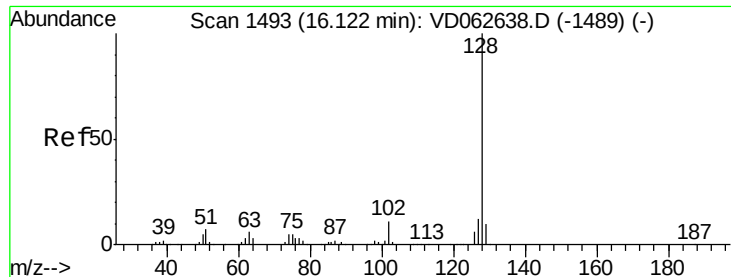


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

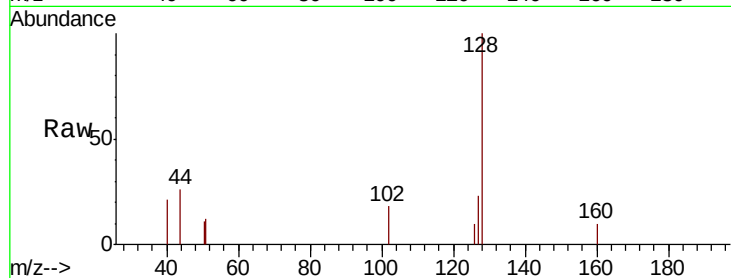




#95
 Naphthalene
 Concen: 4.060 ug/l
 RT: 16.14 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062731.D
 Acq: 17 Jun 2019 17:18

Instrument :
 MSVOA_D
 ClientSampleId :
 GS-SOIL-PILERE

Tot Ion:128 Resp: 3395
 Ion Ratio Lower Upper
 128 100
 127 23.4 9.7 14.5#
 129 0.0 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

