

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062519\
 Data File : VD062896.D
 Acq On : 26 Jun 2019 1:41
 Operator : VA/AP
 Sample : K3518-03
 Misc : 5.03g/5ml/MSVOA D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CP-S3-SOIL

Quant Time: Jun 26 05:38:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	755811	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1049743	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	752932	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	328318	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	434585	52.90	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	105.80%	
35) Dibromofluoromethane	6.93	113	458246	51.77	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.54%	
50) Toluene-d8	10.41	98	815994	42.36	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	84.72%	
62) 4-Bromofluorobenzene	13.55	95	337294	38.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	77.00%	

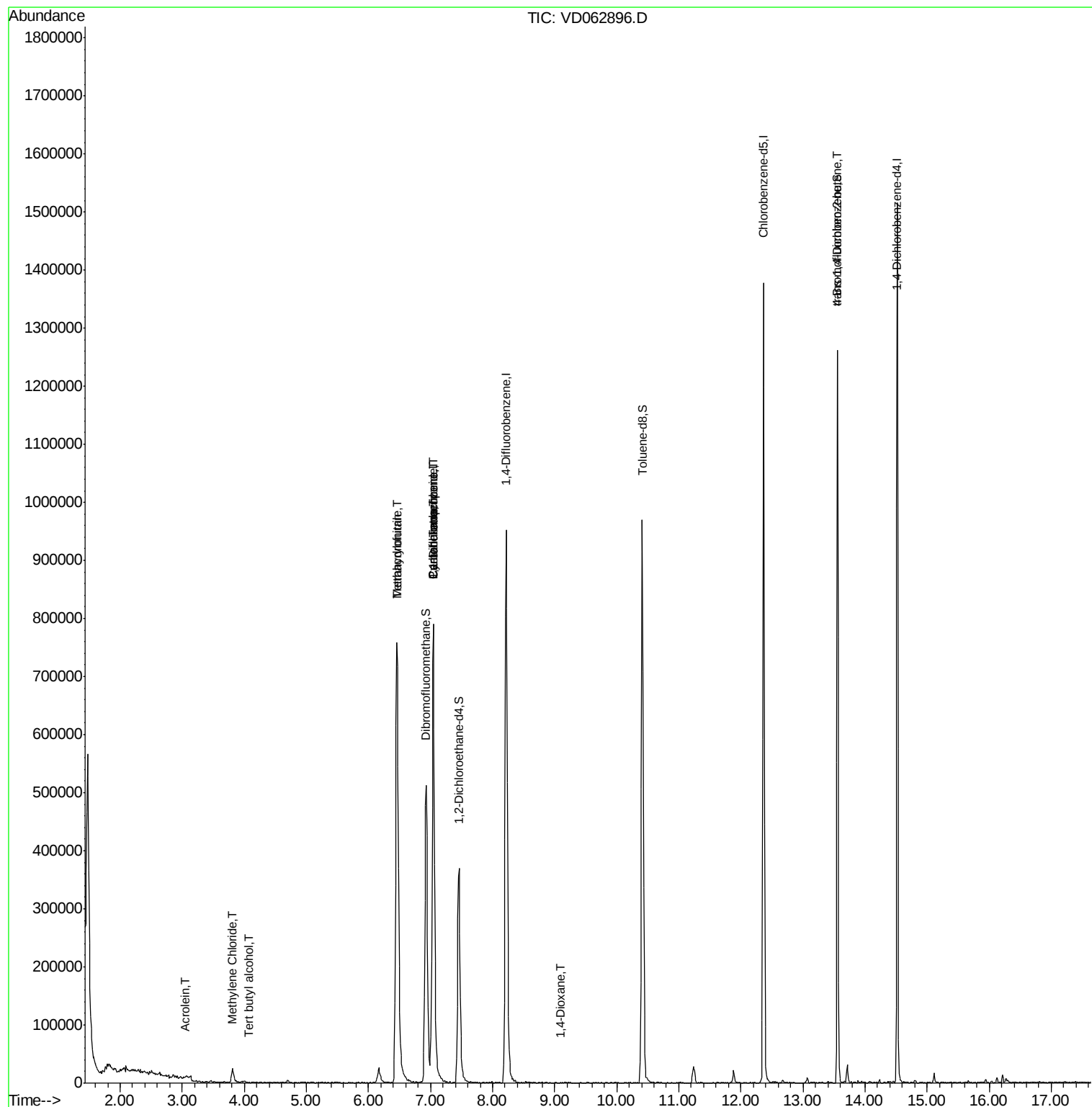
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.06	59	680	1.817	ug/l #	77
13) Acrolein	3.05	56	431	1.128	ug/l #	62
16) Acetone	3.23	43	2513	Below Cal	#	64
20) Methylene Chloride	3.81	84	13595	2.170	ug/l	94
29) Tetrahydrofuran	6.46	42	656052	902.404	ug/l	98
31) Cyclohexane	7.04	56	15568	2.018	ug/l #	2
36) 1,1-Dichloropropene	7.05	75	59423	5.980	ug/l #	56
37) Ethyl Acetate	6.21	43	213	Below Cal	#	69
38) Carbon Tetrachloride	7.05	117	74190	4.964	ug/l #	16
41) Methacrylonitrile	6.46	41	481426	91.866	ug/l #	76
49) 1,4-Dioxane	9.09	88	178	5.779	ug/l #	29
81) trans-1,4-Dichloro-2-buten	13.55	75	155057	156.095	ug/l #	2

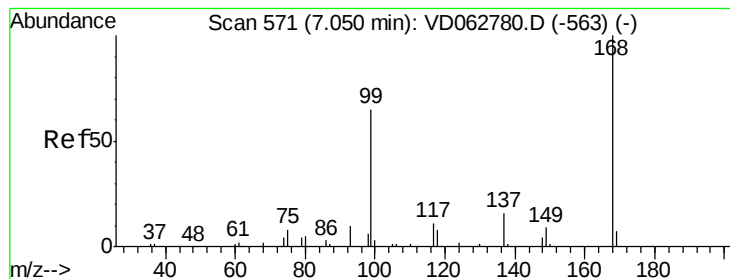
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

Instrument :

MSVOA_D

ClientSampleId :

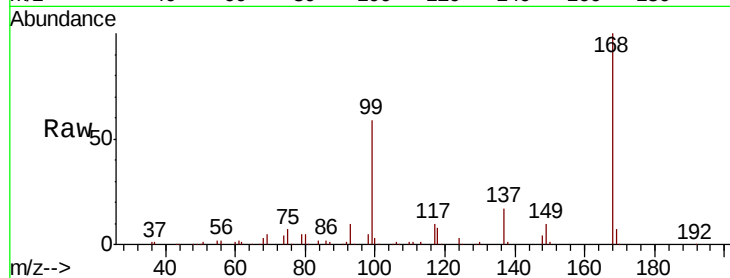
CP-S3-SOIL

Tot Ion:168 Resp: 755811

Ion Ratio Lower Upper

168 100

99 58.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

250000

200000

150000

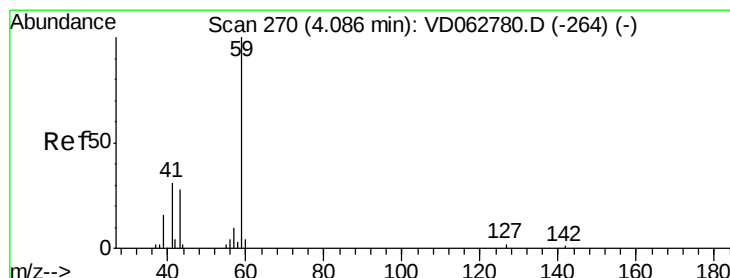
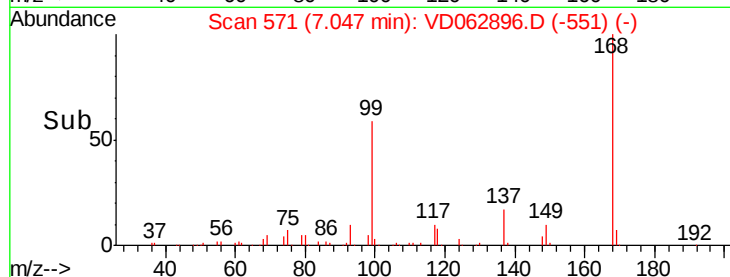
100000

50000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#11

Tert butyl alcohol

Concen: 1.817 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD062896.D

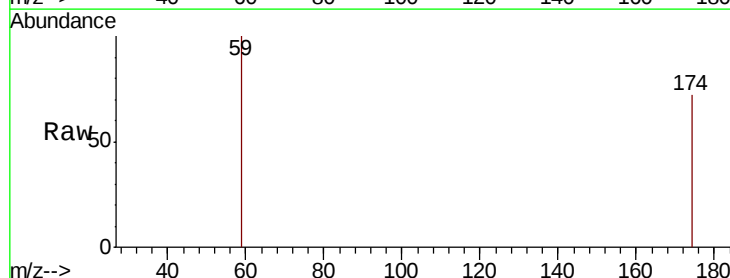
Acq: 26 Jun 2019 1:41

Tgt Ion: 59 Resp: 680

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.06

500

400

300

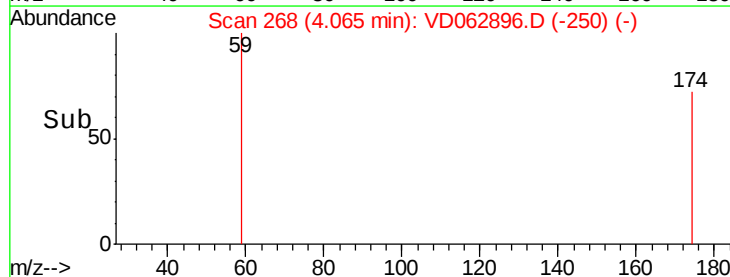
200

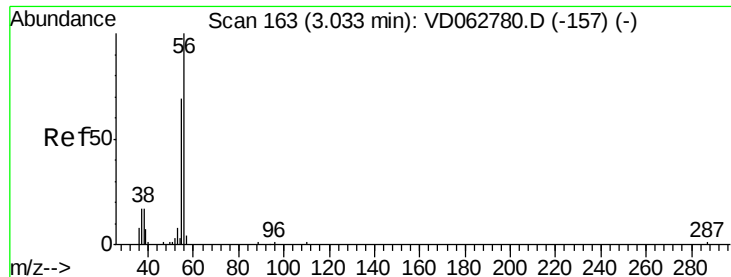
100

0

Time-->

4.05 4.10





#13

Acrolein

Concen: 1.128 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.02 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

Instrument :

MSVOA_D

ClientSampleId :

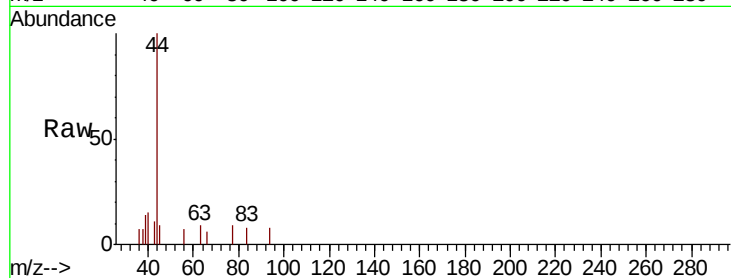
CP-S3-SOIL

Tot Ion: 56 Resp: 431

Ion Ratio Lower Upper

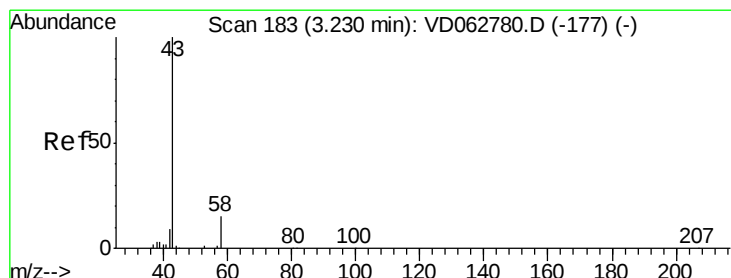
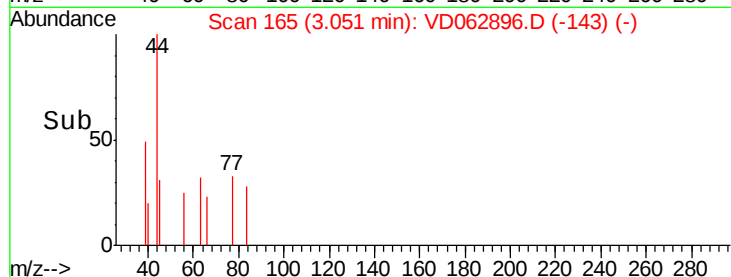
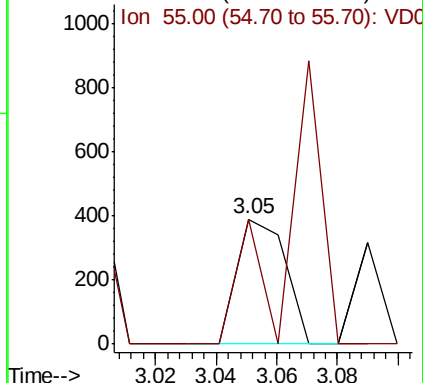
56 100

55 100.0 55.4 83.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: Below Cal

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD062896.D

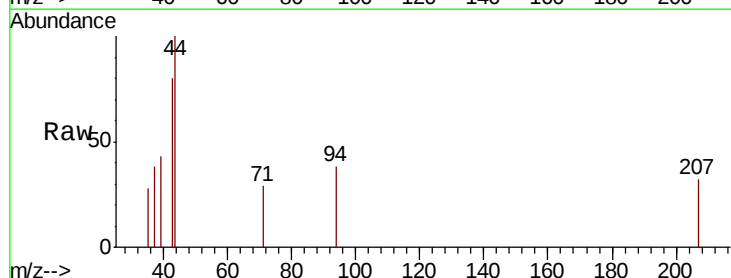
Acq: 26 Jun 2019 1:41

Tgt Ion: 43 Resp: 2513

Ion Ratio Lower Upper

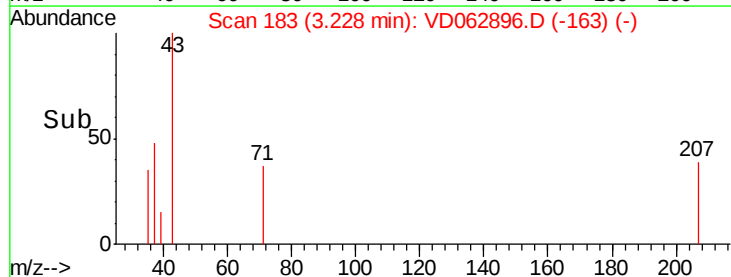
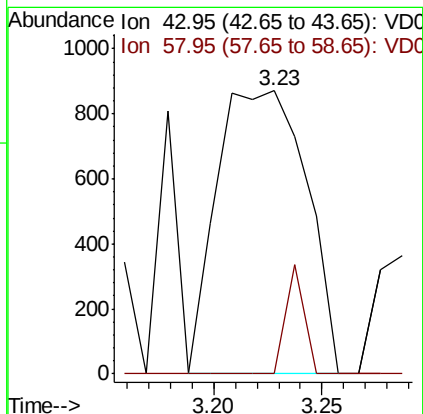
43 100

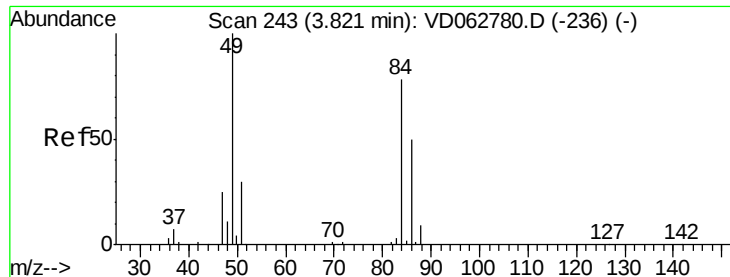
58 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

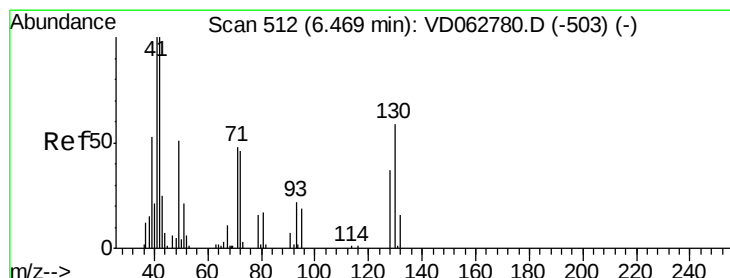
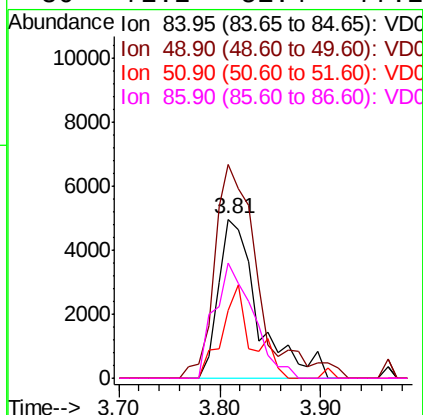
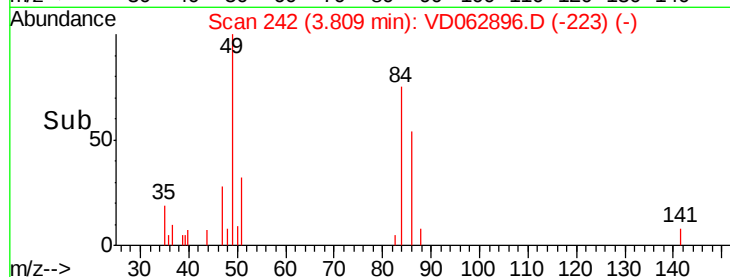
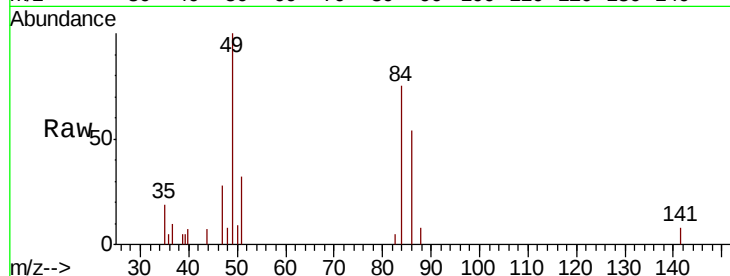




#20
Methylene Chloride
Concen: 2.170 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD062896.D
Acq: 26 Jun 2019 1:41

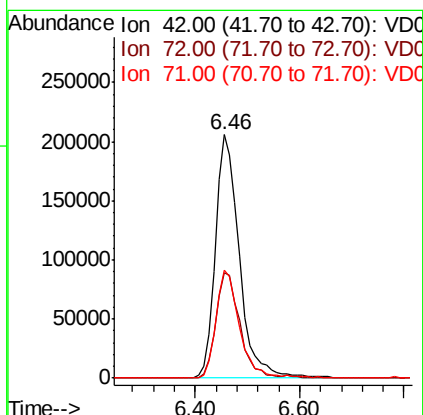
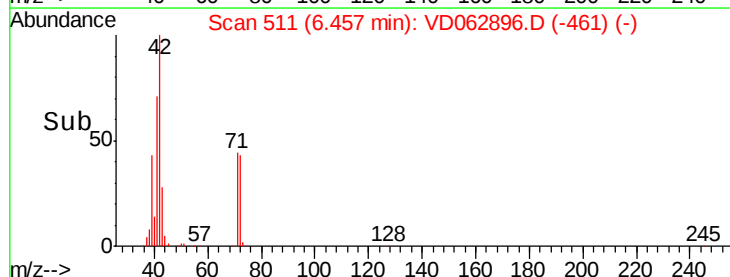
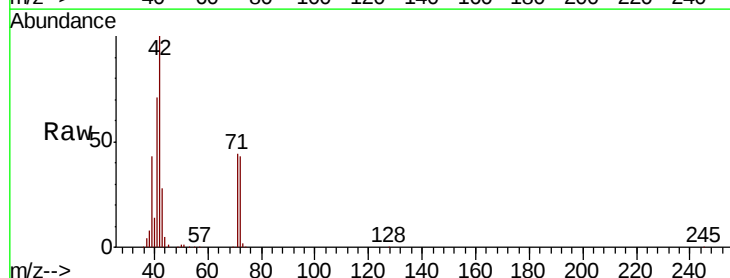
Instrument :
MSVOA_D
ClientSampleId :
CP-S3-SOIL

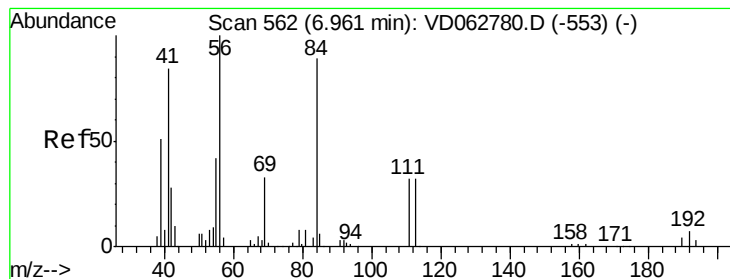
Tot Ion: 84 Resp: 13595
Ion Ratio Lower Upper
84 100
49 134.1 102.9 154.3
51 42.4 31.2 46.8
86 72.2 51.4 77.2



#29
Tetrahydrofuran
Concen: 902.404 ug/l
RT: 6.46 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD062896.D
Acq: 26 Jun 2019 1:41

Tgt Ion: 42 Resp: 656052
Ion Ratio Lower Upper
42 100
72 43.7 35.0 52.6
71 43.9 33.3 49.9





#31

Cyclohexane

Concen: 2.018 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.08 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

Instrument :

MSVOA_D

ClientSampleId :

CP-S3-SOIL

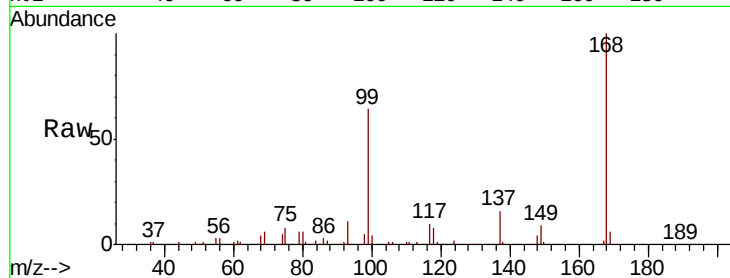
Tot Ion: 56 Resp: 15568

Ion Ratio Lower Upper

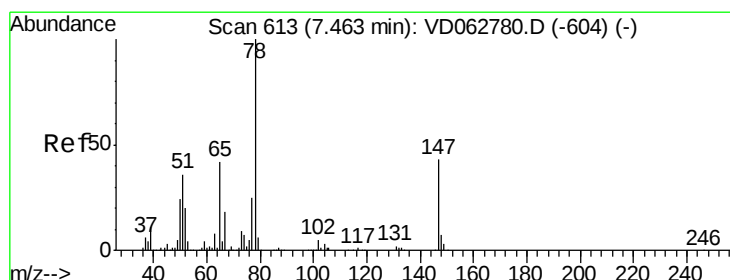
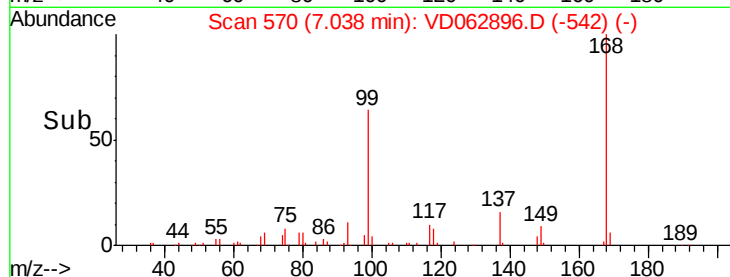
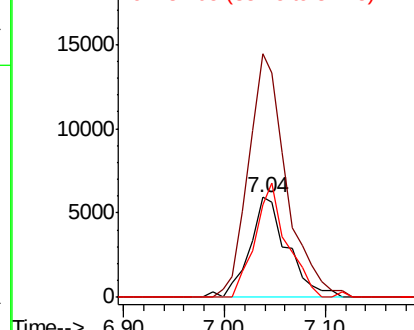
56 100

69 243.8 26.6 39.8#

84 92.0 75.5 113.3



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: 52.898 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062896.D

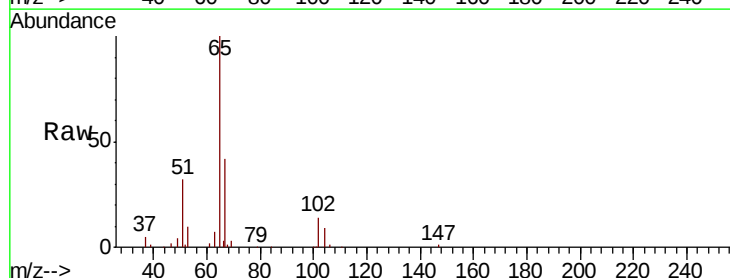
Acq: 26 Jun 2019 1:41

Tgt Ion: 65 Resp: 434585

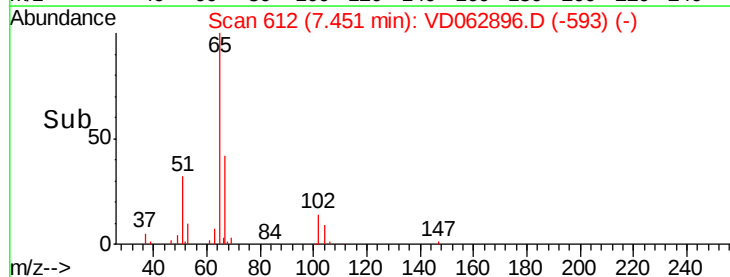
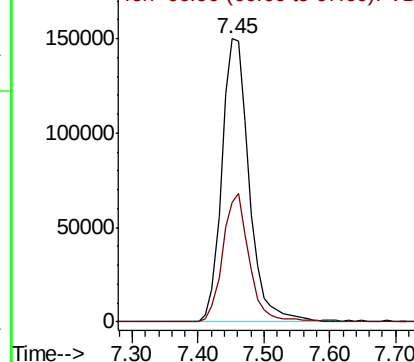
Ion Ratio Lower Upper

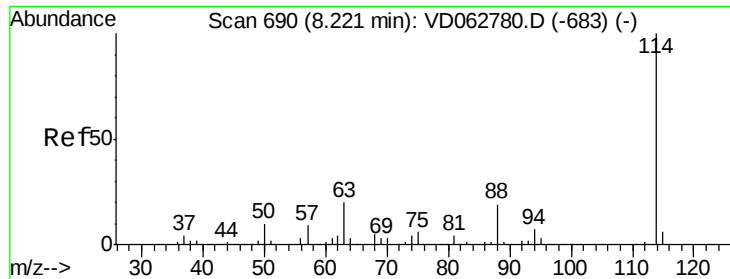
65 100

67 42.0 0.0 87.4



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

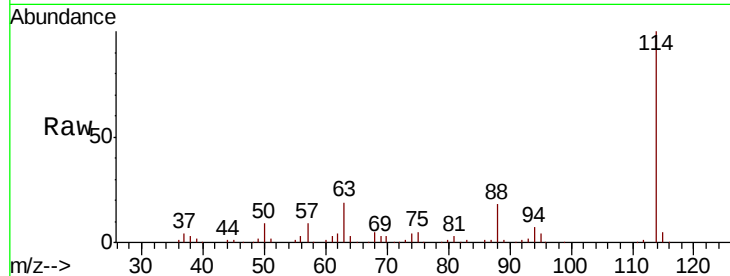




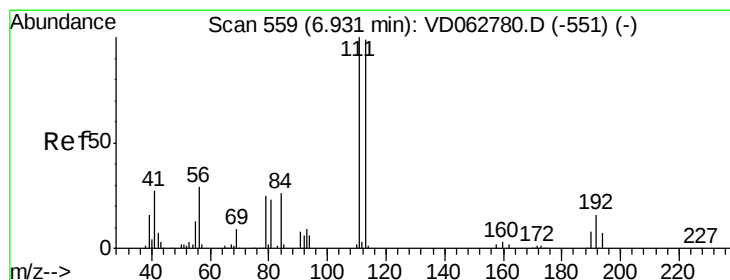
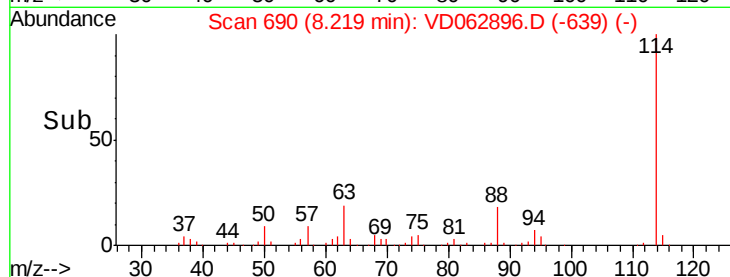
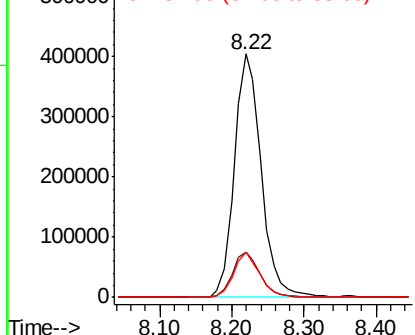
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD062896.D
 Acq: 26 Jun 2019 1:41

Instrument :
 MSVOA_D
 ClientSampleId :
 CP-S3-SOIL

Tot Ion:114 Resp: 1049743
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 40.0
 88 18.3 0.0 38.8

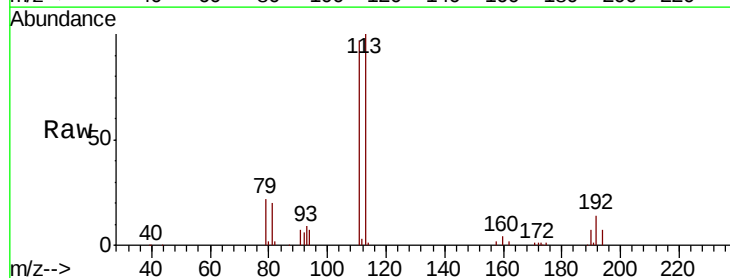


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

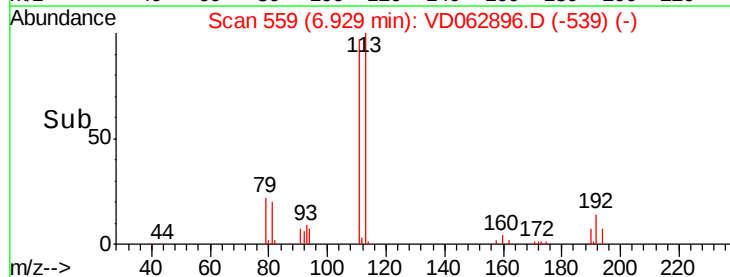
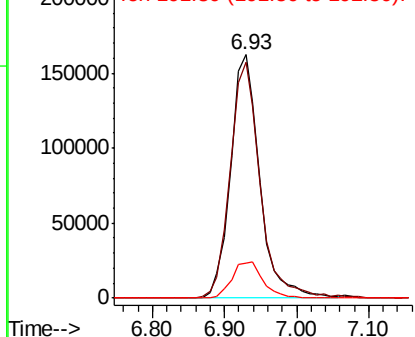


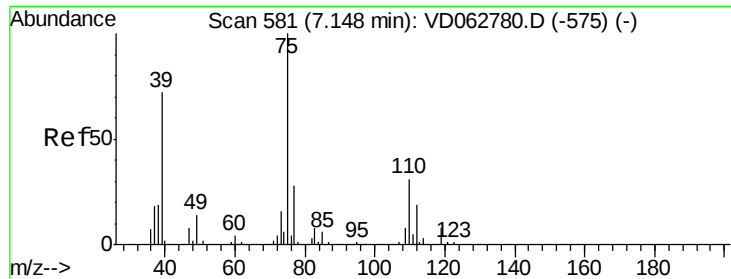
#35
 Dibromofluoromethane
 Concen: 51.771 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.00 min
 Lab File: VD062896.D
 Acq: 26 Jun 2019 1:41

Tgt Ion:113 Resp: 458246
 Ion Ratio Lower Upper
 113 100
 111 97.1 81.2 121.8
 192 14.2 12.9 19.3



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

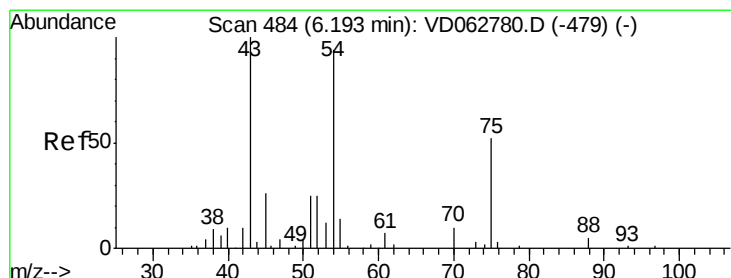
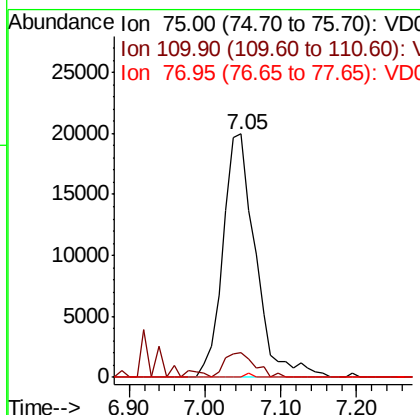
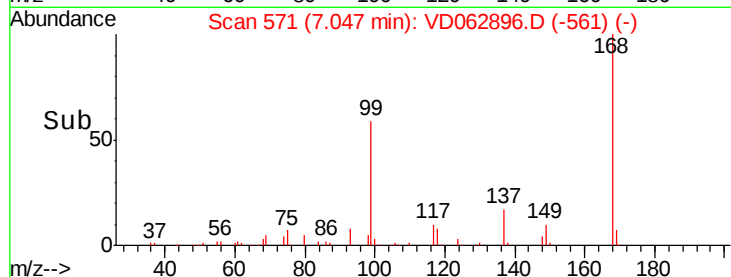
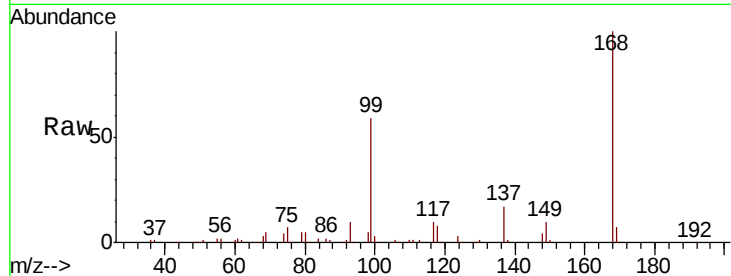




#36
 1,1-Dichloropropene
 Concen: 5.980 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD062896.D
 Acq: 26 Jun 2019 1:41

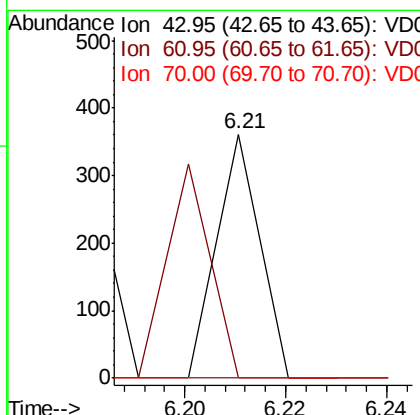
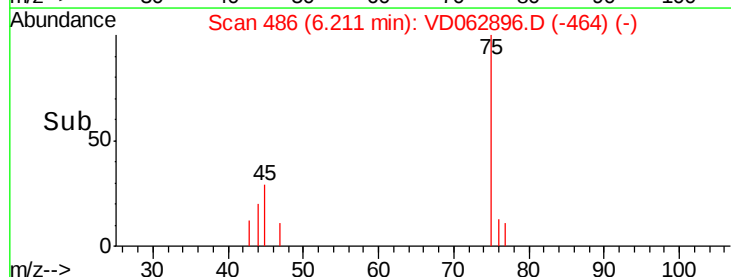
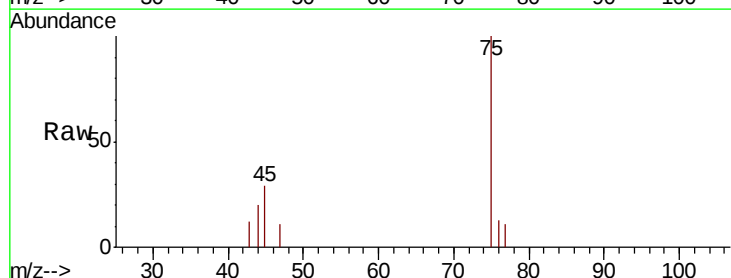
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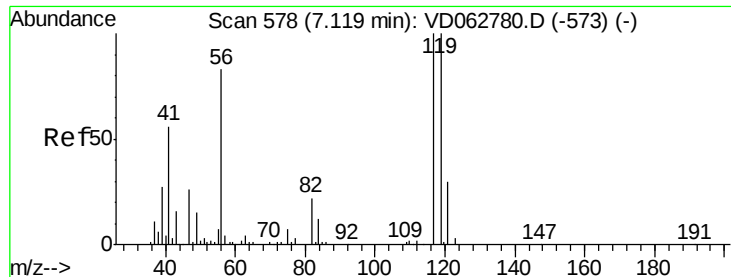
Tot Ion: 75 Resp: 59423
 Ion Ratio Lower Upper
 75 100
 110 10.2 15.0 45.1#
 77 0.0 22.2 33.2#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.21 min Scan# 486
 Delta R.T. 0.02 min
 Lab File: VD062896.D
 Acq: 26 Jun 2019 1:41

Tgt Ion: 43 Resp: 213
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.6 17.4#
 70 0.0 6.4 9.6#





#38

Carbon Tetrachloride

Concen: 4.964 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

Instrument :

MSVOA_D

ClientSampleId :

CP-S3-SOIL

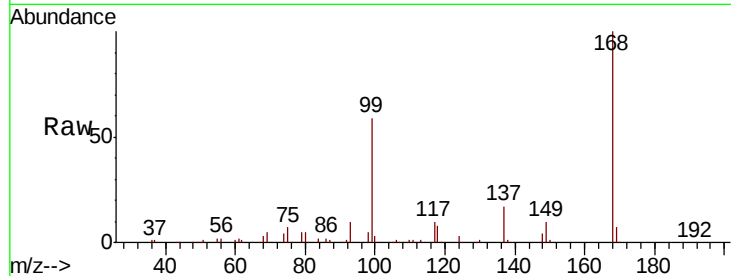
Tot Ion:117 Resp: 74190

Ion Ratio Lower Upper

117 100

119 4.7 75.4 113.2#

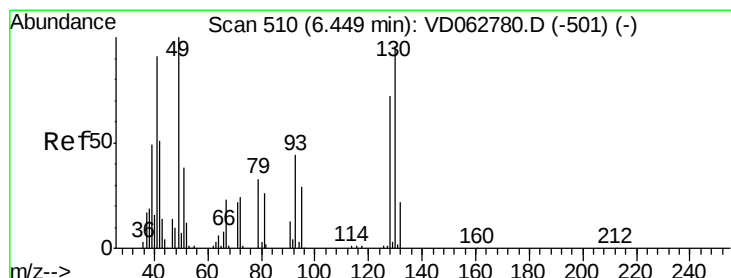
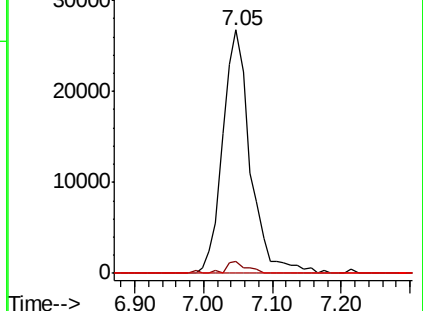
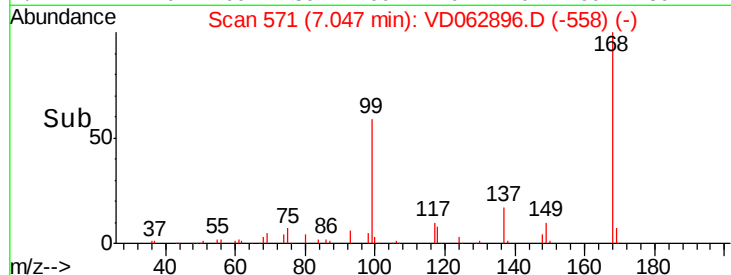
121 0.0 22.3 33.5#



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



#41

Methacrylonitrile

Concen: 91.866 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

Tgt Ion: 41 Resp: 481426

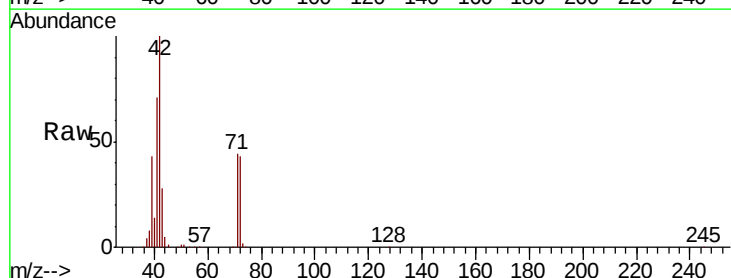
Ion Ratio Lower Upper

41 100

39 60.8 43.2 64.8

67 0.0 19.9 29.9#

52 0.0 10.2 15.4#

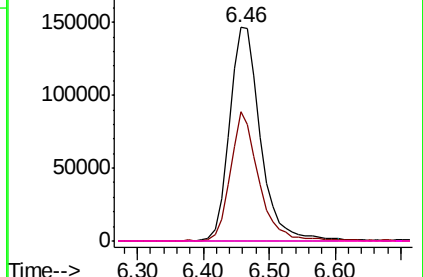
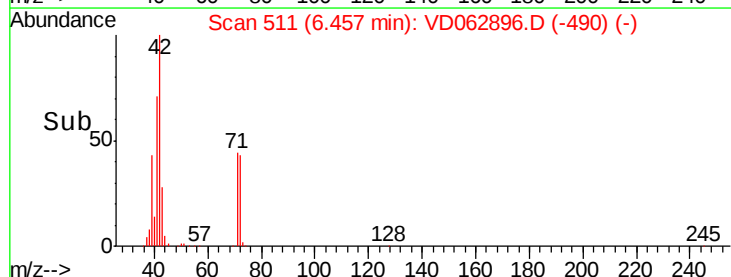


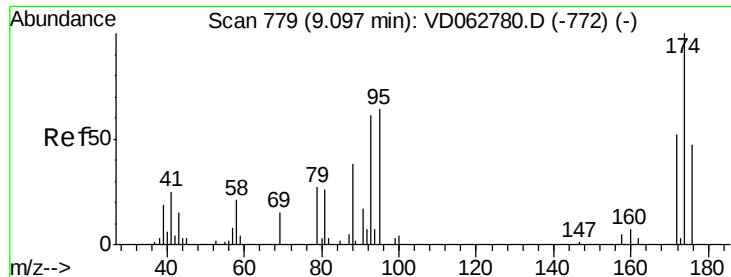
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

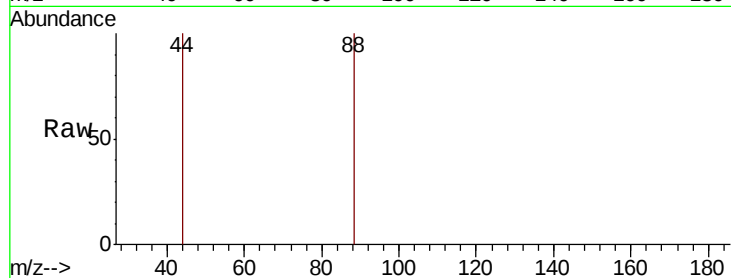




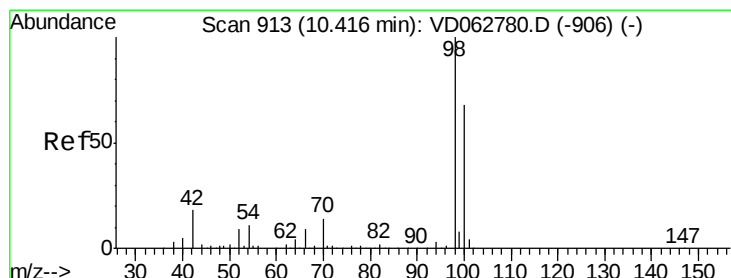
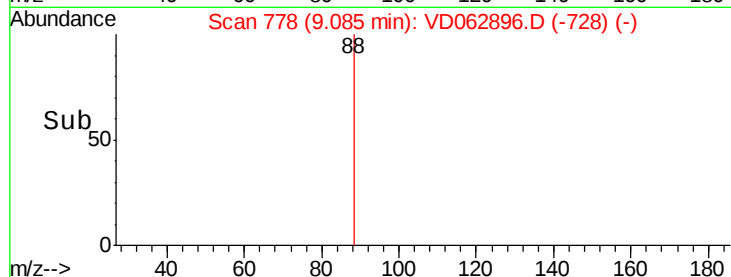
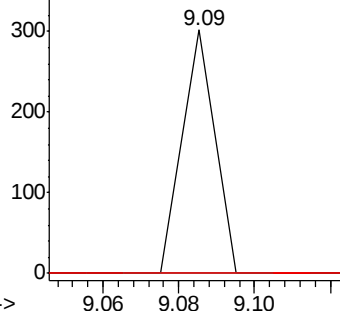
#49
1,4-Dioxane
Concen: 5.779 ug/l
RT: 9.09 min Scan# 778
Delta R.T. -0.01 min
Lab File: VD062896.D
Acq: 26 Jun 2019 1:41

Instrument :
MSVOA_D
ClientSampleId :
CP-S3-SOIL

Tot Ion: 88 Resp: 178
Ion Ratio Lower Upper
88 100
43 0.0 32.1 48.1#
58 0.0 44.1 66.1#

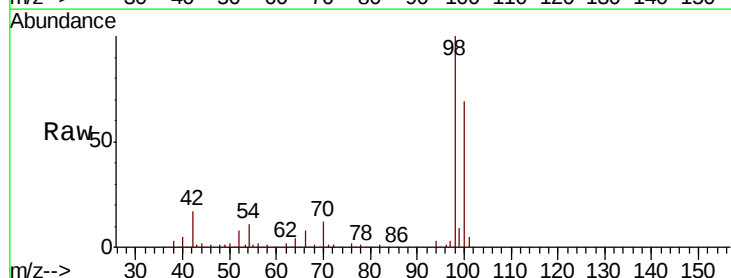


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

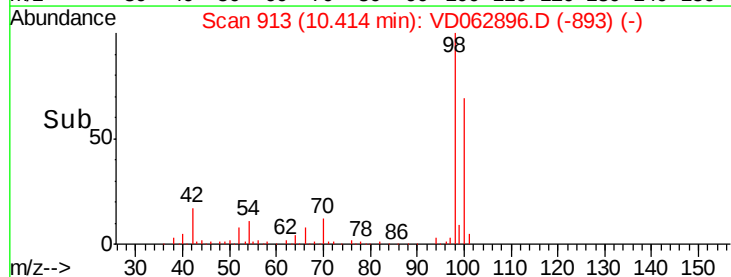
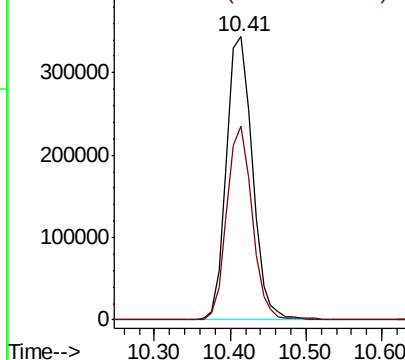


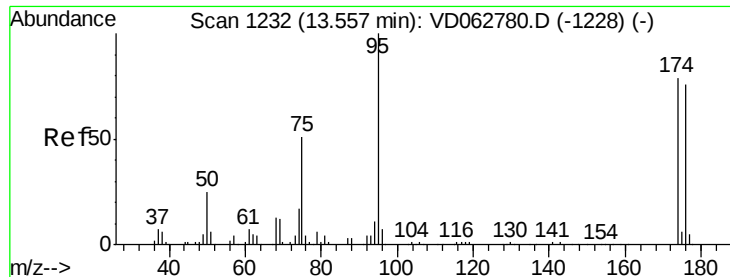
#50
Toluene-d8
Concen: 42.357 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062896.D
Acq: 26 Jun 2019 1:41

Tgt Ion: 98 Resp: 815994
Ion Ratio Lower Upper
98 100
100 68.6 54.7 82.1



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





#62

4-Bromofluorobenzene

Concen: 38.505 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

Instrument :

MSVOA_D

ClientSampleId :

CP-S3-SOIL

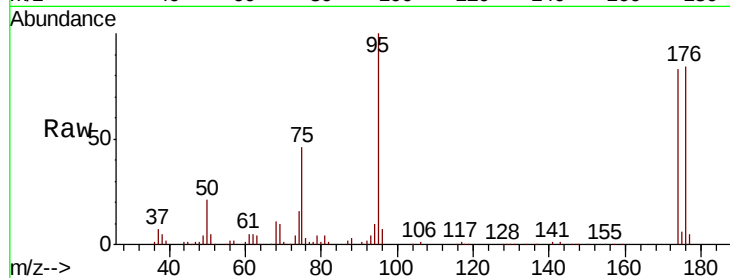
Tot Ion: 95 Resp: 337294

Ion Ratio Lower Upper

95 100

174 82.5 0.0 158.0

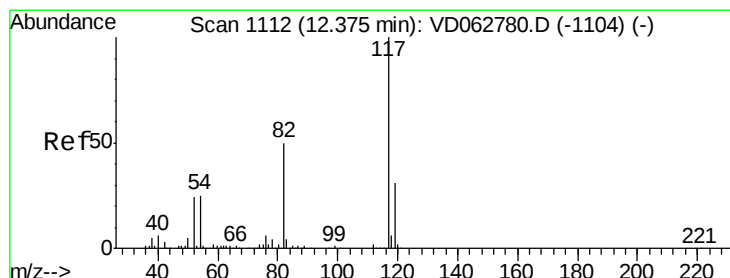
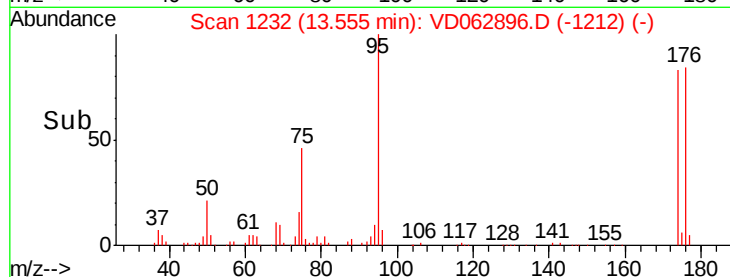
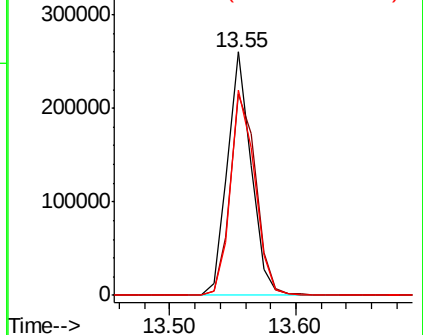
176 84.3 0.0 151.6



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. -0.01 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

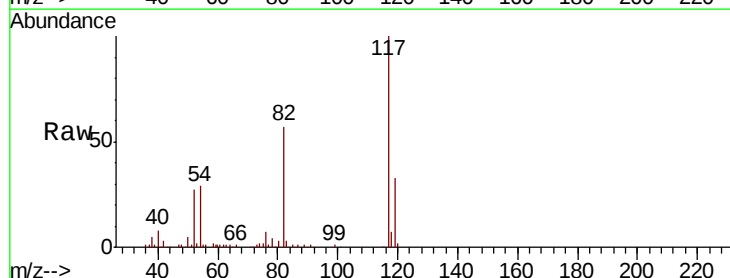
Tgt Ion: 117 Resp: 752932

Ion Ratio Lower Upper

117 100

82 57.2 40.4 60.6

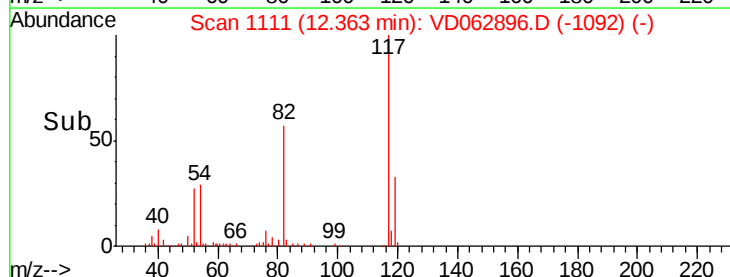
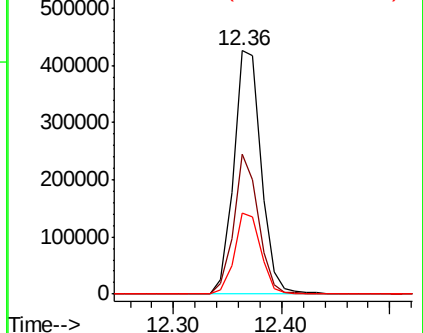
119 33.5 25.2 37.8

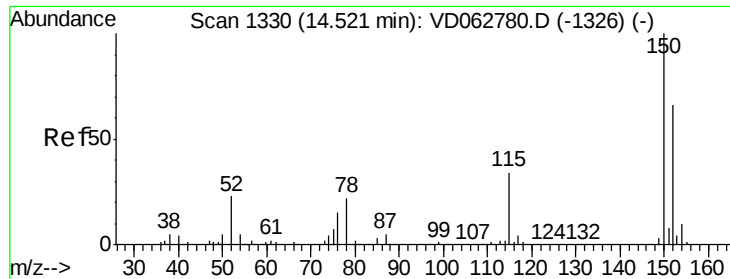


Abundance Ion 116.95 (116.65 to 117.65): V

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. -0.00 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

Instrument :

MSVOA_D

ClientSampled :

CP-S3-SOIL

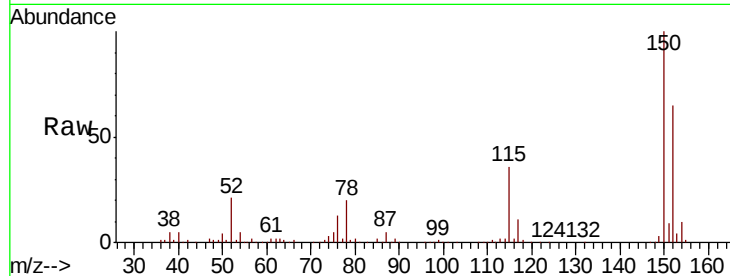
Tot Ion:152 Resp: 328318

Ion Ratio Lower Upper

152 100

115 54.6 29.2 87.6

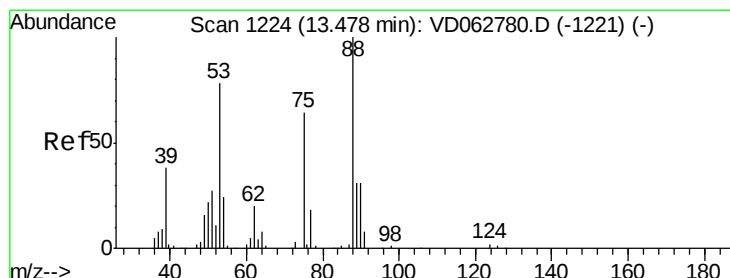
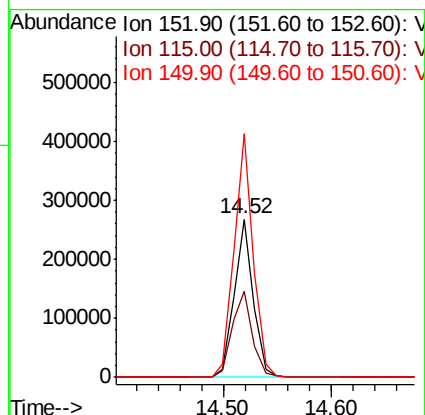
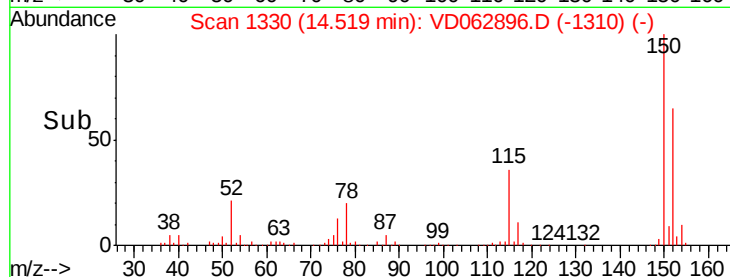
150 153.9 0.0 305.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 156.095 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062896.D

Acq: 26 Jun 2019 1:41

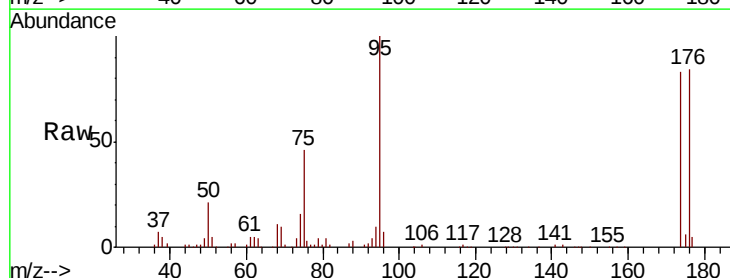
Tgt Ion: 75 Resp: 155057

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#



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

