

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090518\
 Data File : VX004364.D
 Acq On : 05 Sep 2018 11:49
 Operator : JC/MD
 Sample : J4699-04ME
 Misc : 6.27g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CG-SOIL-2

Quant Time: Sep 05 14:06:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	254129	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	406635	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	375614	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	250675	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	176280	53.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.44%	
35) Dibromofluoromethane	5.50	113	148657	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
50) Toluene-d8	8.71	98	579267	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
62) 4-Bromofluorobenzene	11.14	95	226772	53.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.46%	

Target Compounds

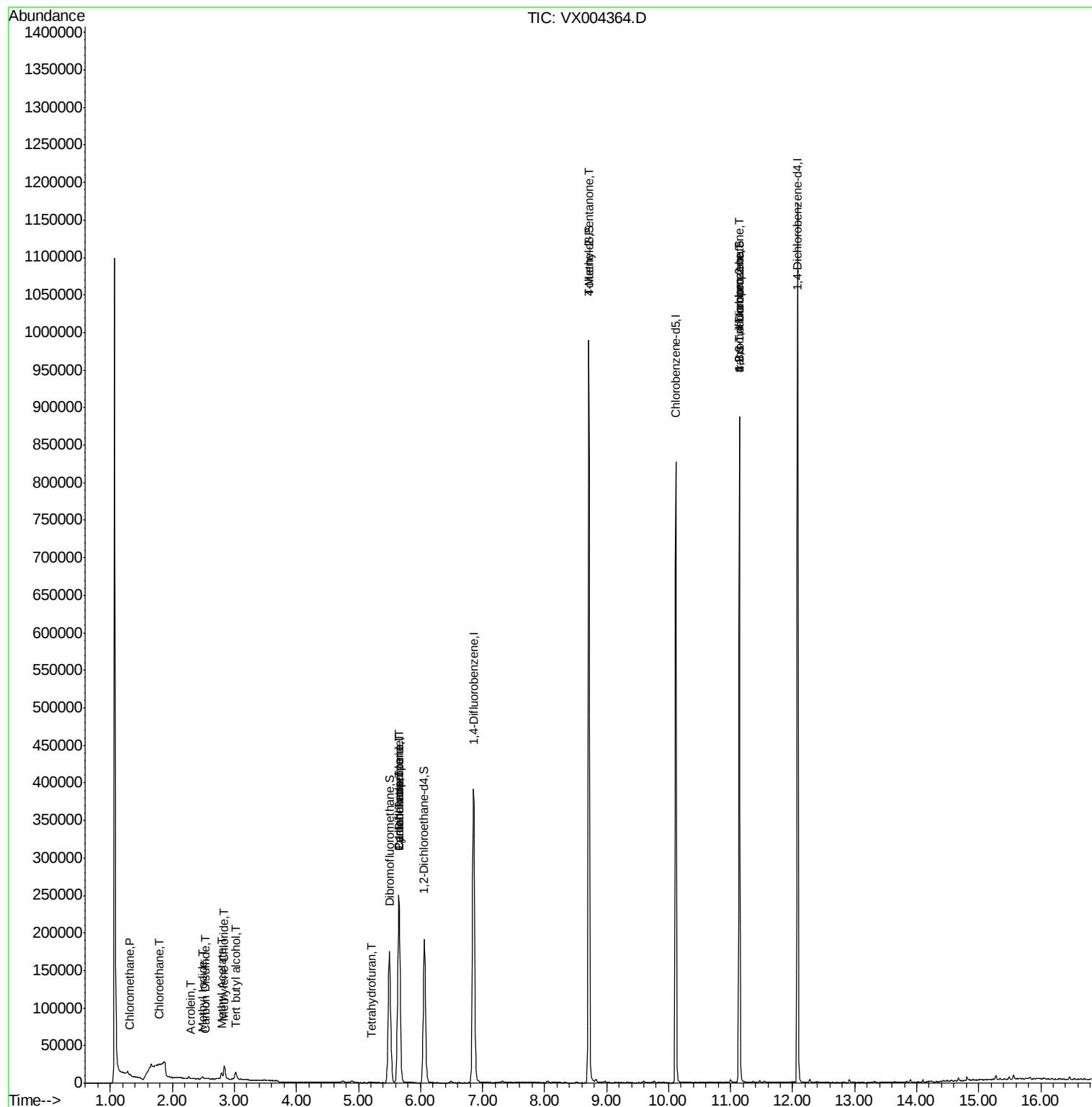
						Qvalue
3) Chloromethane	1.32	50	1095	0.62	ug/l	92
5) Bromomethane	1.64	94	1243	Below	Cal	89
6) Chloroethane	1.78	64	92	1.00	ug/l #	65
10) Methyl Iodide	2.48	142	1038	4.56	ug/l	98
11) Tert butyl alcohol	3.02	59	6733	9.54	ug/l #	77
13) Acrolein	2.30	56	189	1.11	ug/l #	60
16) Acetone	2.48	43	2154	Below	Cal	91
17) Carbon Disulfide	2.53	76	737	0.89	ug/l #	90
18) Methyl Acetate	2.79	43	10170	2.07	ug/l	100
20) Methylene Chloride	2.84	84	9219	2.89	ug/l	97
25) 2-Butanone	4.74	43	3871	Below	Cal	99
29) Tetrahydrofuran	5.20	42	787	0.55	ug/l #	66
31) Cyclohexane	5.65	56	4487	0.97	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	16955	3.71	ug/l #	49
38) Carbon Tetrachloride	5.65	117	21904	5.09	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	2827	0.56	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	106530	20.90	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	106530	67.80	ug/l #	10
94) Hexachlorobutadiene	13.79	225	132	Below	Cal	71

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.01 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampleId :

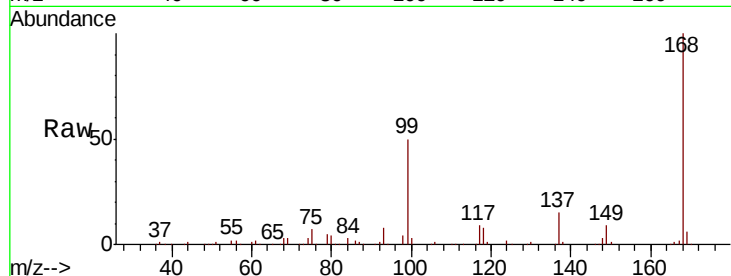
CG-SOIL-2

Tot Ion:168 Resp: 254129

Ion Ratio Lower Upper

168 100

99 50.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

100000

80000

60000

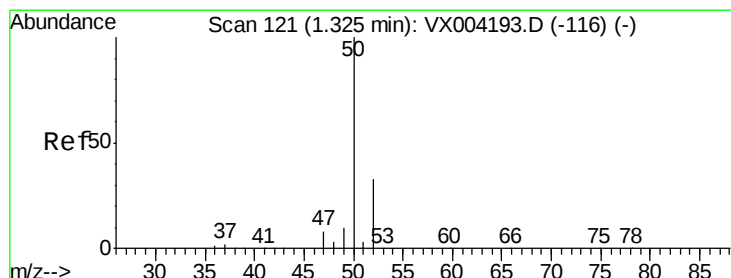
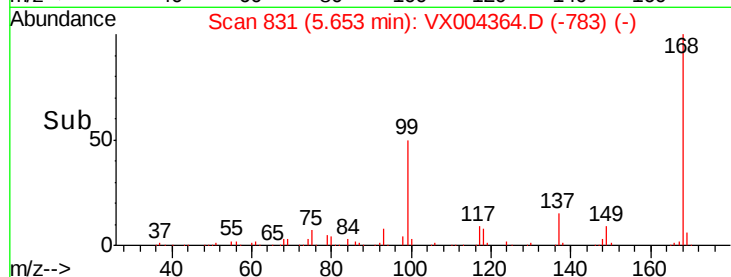
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.62 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004364.D

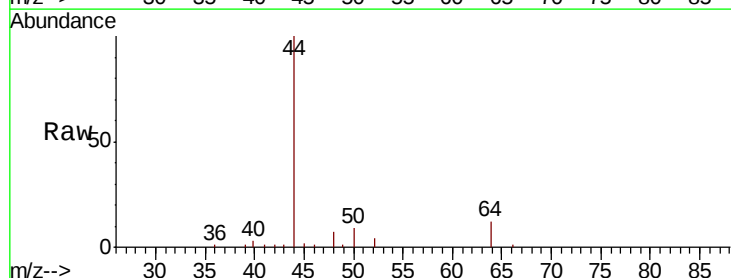
Acq: 05 Sep 2018 11:49

Tgt Ion: 50 Resp: 1095

Ion Ratio Lower Upper

50 100

52 37.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

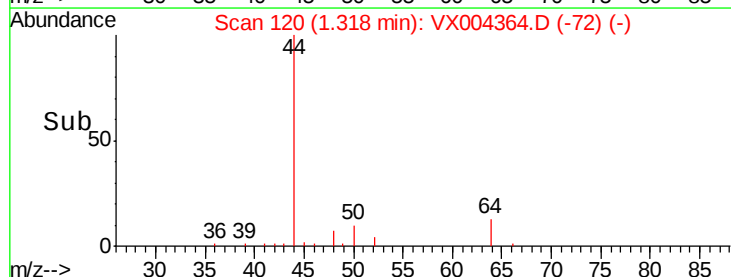
400

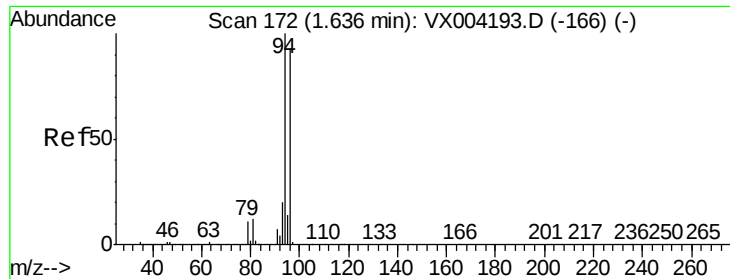
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampled :

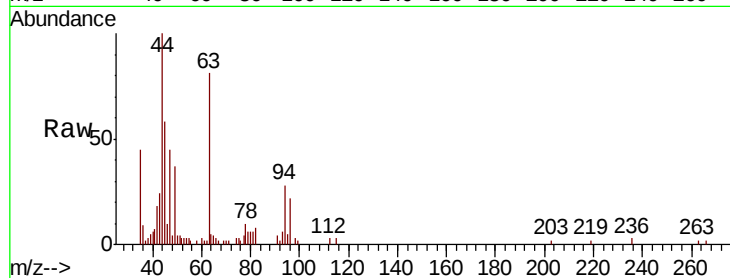
CG-SOIL-2

Tot Ion: 94 Resp: 1243

Ion Ratio Lower Upper

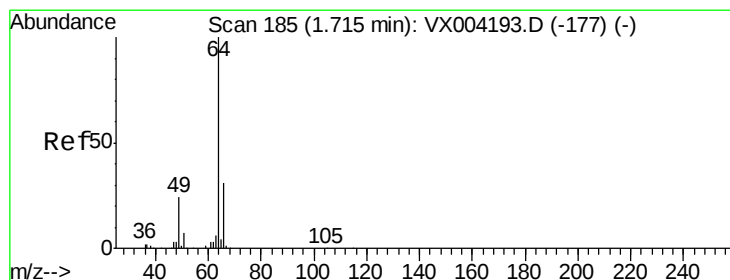
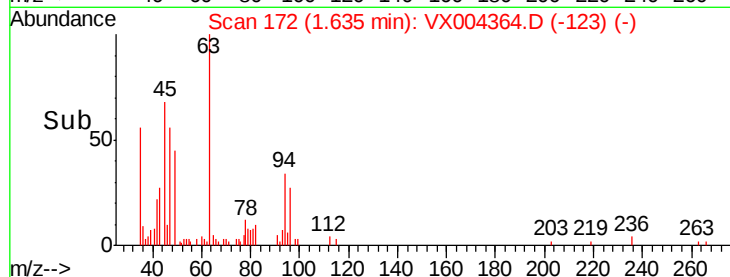
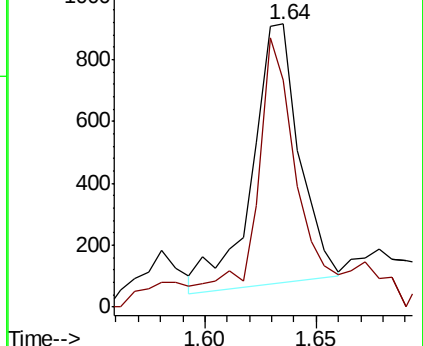
94 100

96 82.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.00 ug/l

RT: 1.78 min Scan# 196

Delta R.T. 0.07 min

Lab File: VX004364.D

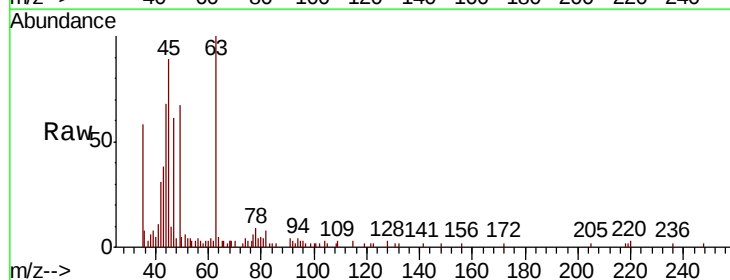
Acq: 05 Sep 2018 11:49

Tgt Ion: 64 Resp: 92

Ion Ratio Lower Upper

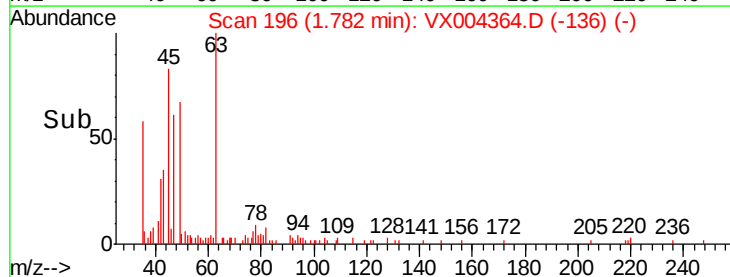
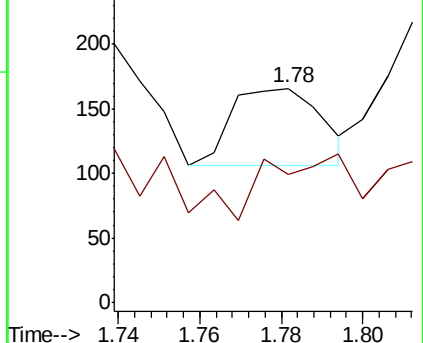
64 100

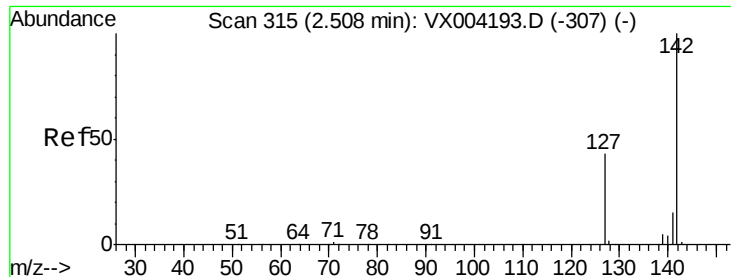
66 50.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

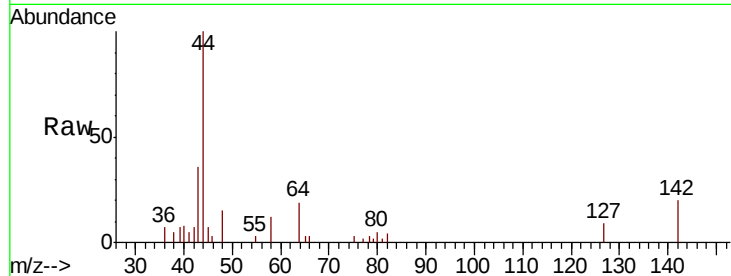




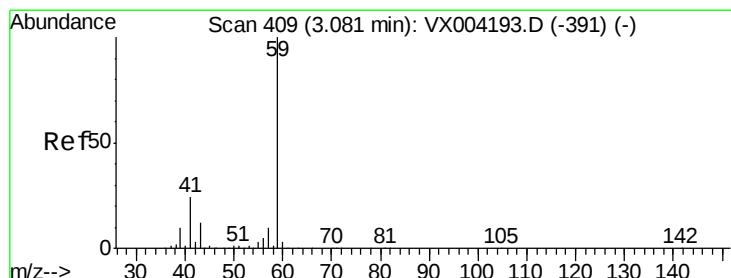
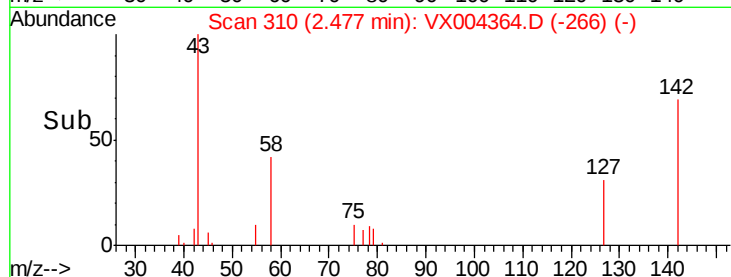
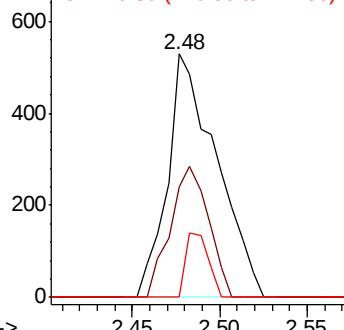
#10
Methyl Iodide
Concen: 4.56 ug/l
RT: 2.48 min Scan# 310
Delta R.T. -0.03 min
Lab File: VX004364.D
Acq: 05 Sep 2018 11:49

Instrument :
MSVOA_X
ClientSampleId :
CG-SOIL-2

Tot Ion:142 Resp: 1038
Ion Ratio Lower Upper
142 100
127 41.8 33.8 50.6
141 12.0 11.4 17.0

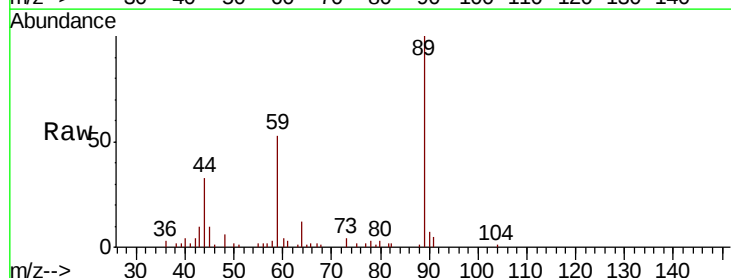


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

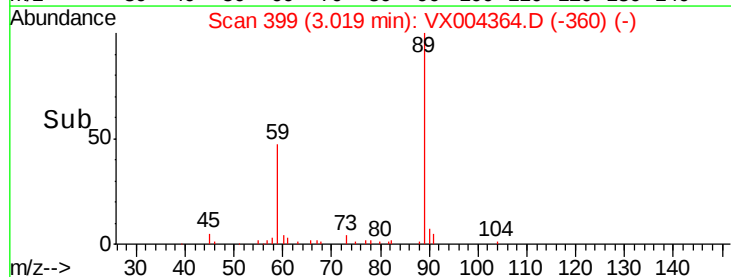
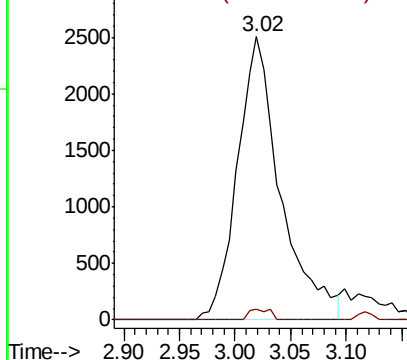


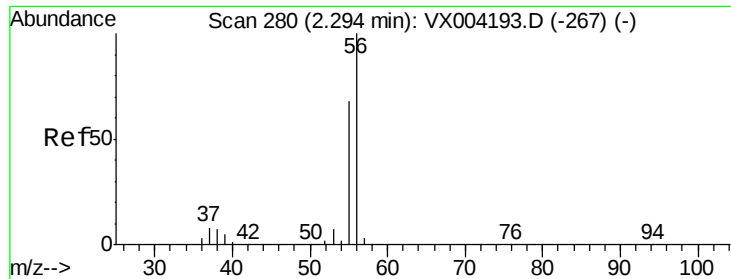
#11
Tert butyl alcohol
Concen: 9.54 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX004364.D
Acq: 05 Sep 2018 11:49

Tgt Ion: 59 Resp: 6733
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.11 ua/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampleId :

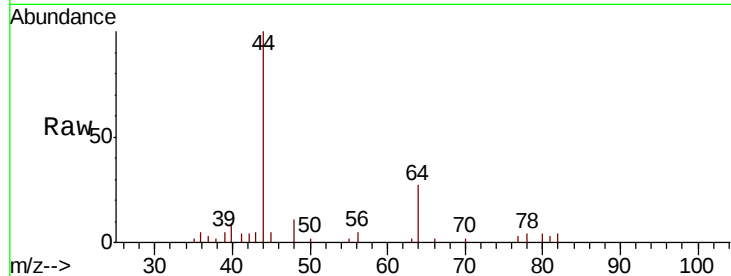
CG-SOIL-2

Tot Ion: 56 Resp: 189

Ion Ratio Lower Upper

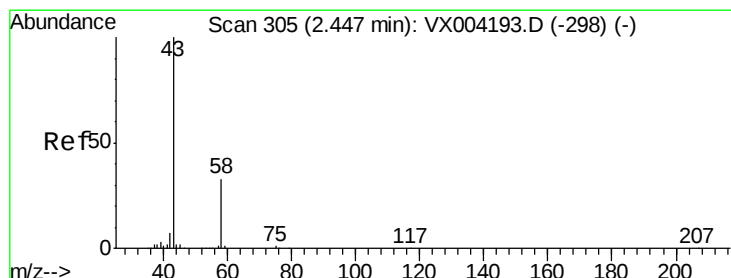
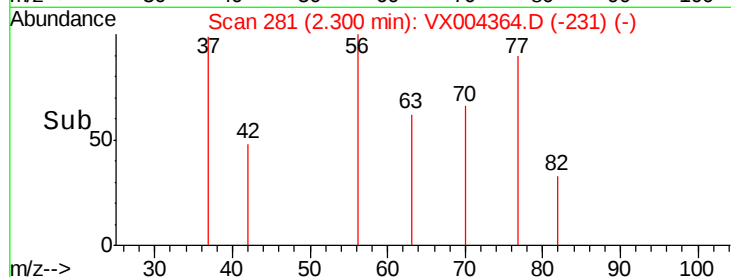
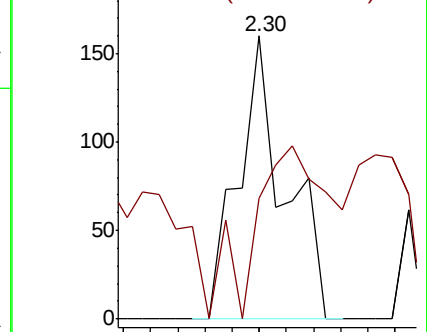
56 100

55 101.1 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.48 min Scan# 310

Delta R.T. 0.03 min

Lab File: VX004364.D

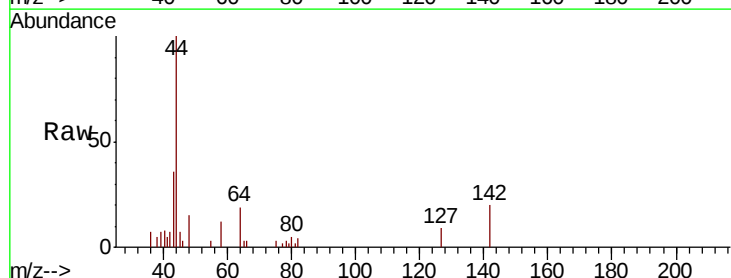
Acq: 05 Sep 2018 11:49

Tgt Ion: 43 Resp: 2154

Ion Ratio Lower Upper

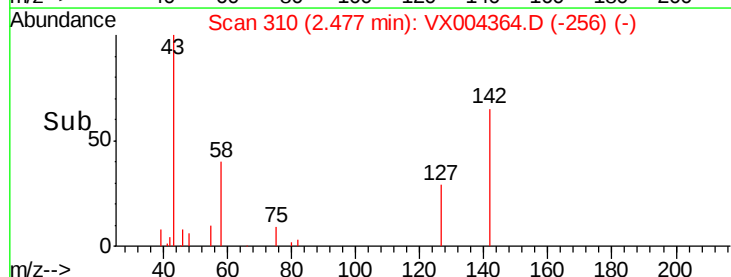
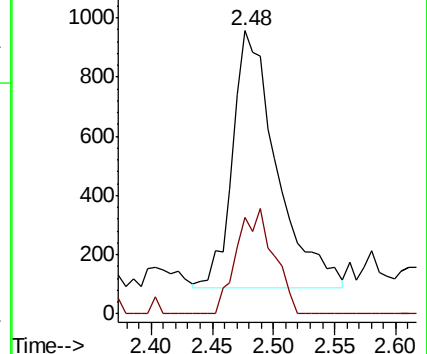
43 100

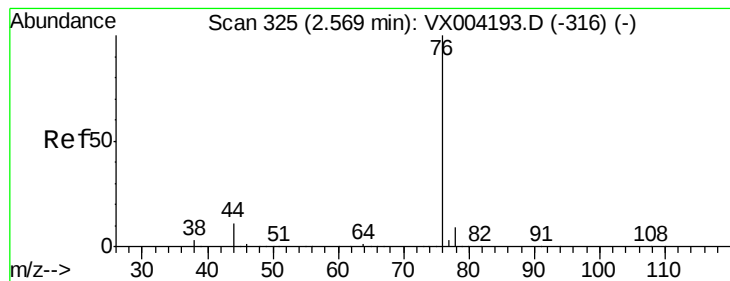
58 37.9 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.89 ug/l

RT: 2.53 min Scan# 319

Delta R.T. -0.04 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampled :

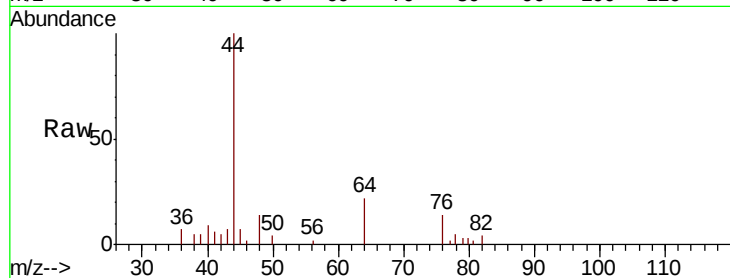
CG-SOIL-2

Tot Ion: 76 Resp: 737

Ion Ratio Lower Upper

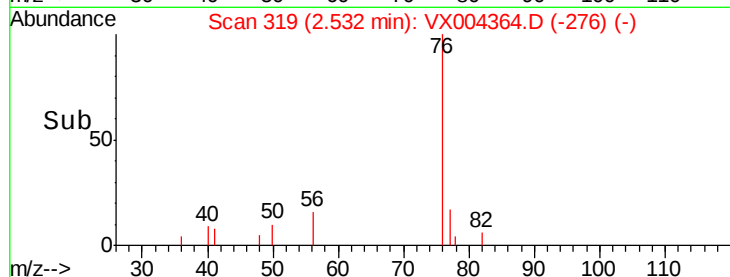
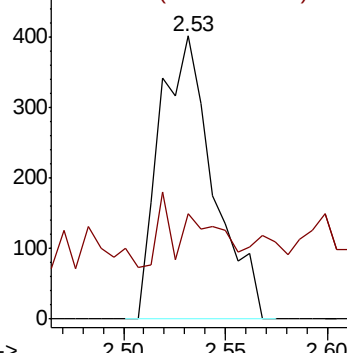
76 100

78 12.2 7.0 10.6#

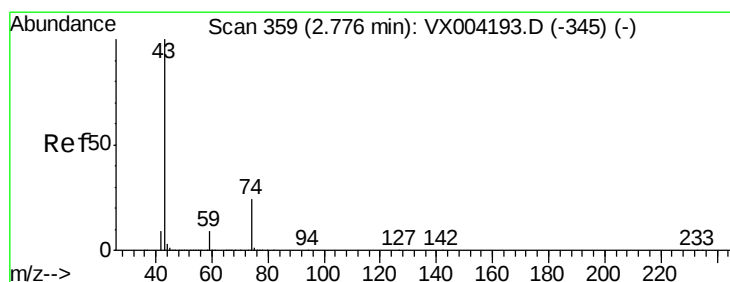


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#18

Methyl Acetate

Concen: 2.07 ug/l

RT: 2.79 min Scan# 362

Delta R.T. 0.02 min

Lab File: VX004364.D

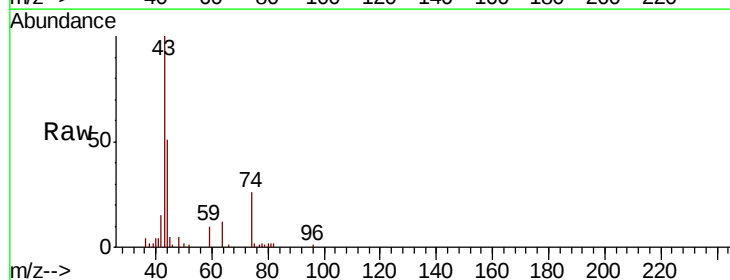
Acq: 05 Sep 2018 11:49

Tgt Ion: 43 Resp: 10170

Ion Ratio Lower Upper

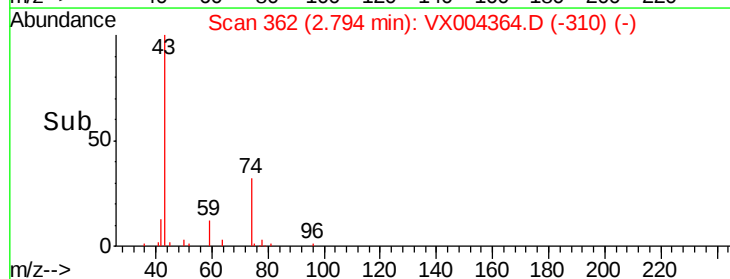
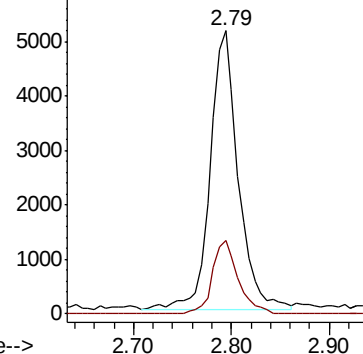
43 100

74 24.5 19.4 29.2

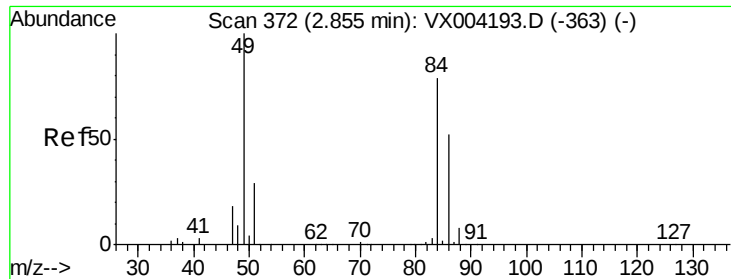


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



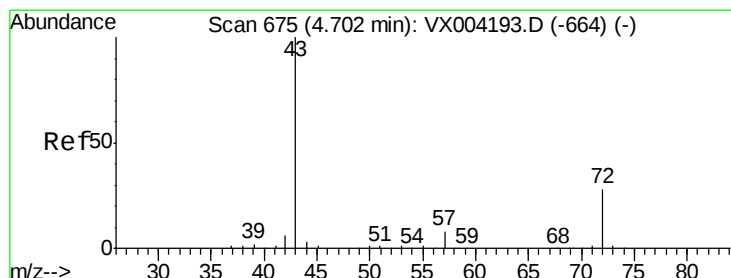
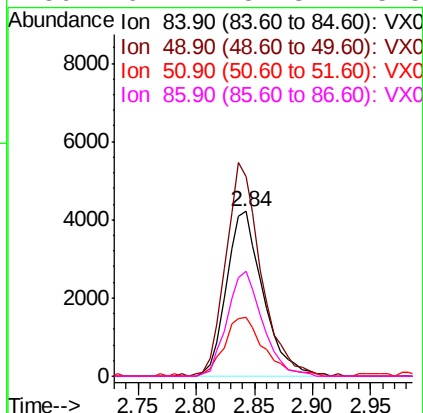
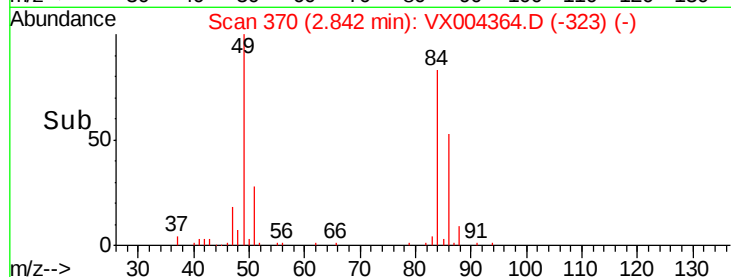
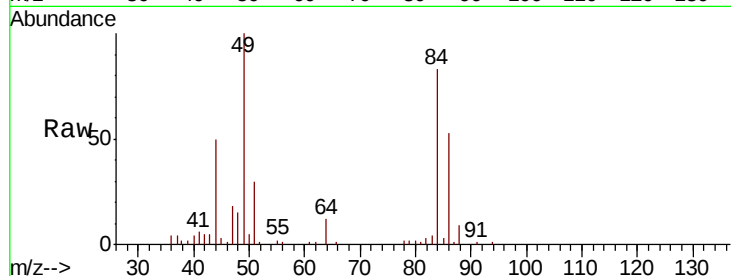
Time-->



#20
Methvlene Chloride
Concen: 2.89 ua/l
RT: 2.84 min Scan# 370
Delta R.T. -0.01 min
Lab File: VX004364.D
Acq: 05 Sep 2018 11:49

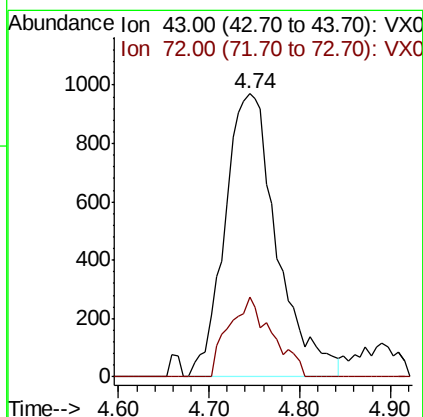
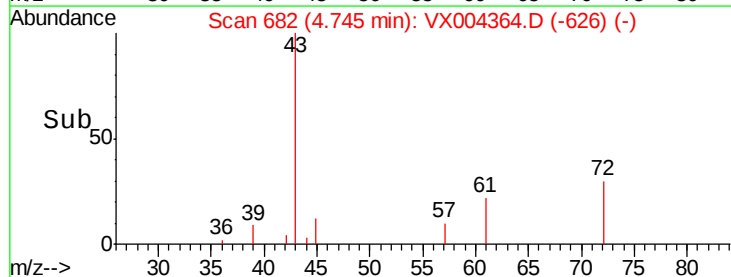
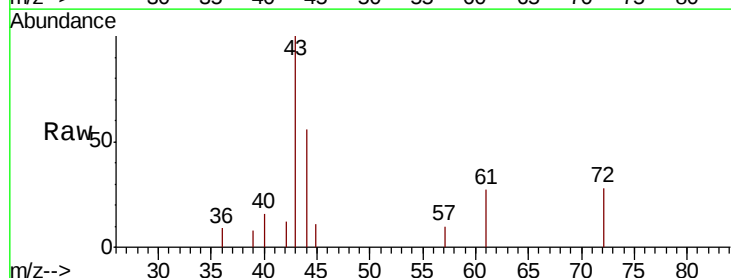
Instrument :
MSVOA_X
ClientSampled :
CG-SOIL-2

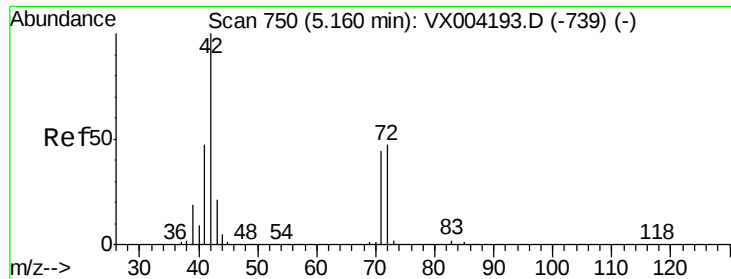
Tot Ion: 84 Resp: 9219
Ion Ratio Lower Upper
84 100
49 121.0 101.2 151.8
51 35.8 29.5 44.3
86 64.1 52.3 78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.74 min Scan# 682
Delta R.T. 0.04 min
Lab File: VX004364.D
Acq: 05 Sep 2018 11:49

Tgt Ion: 43 Resp: 3871
Ion Ratio Lower Upper
43 100
72 28.1 22.0 33.0

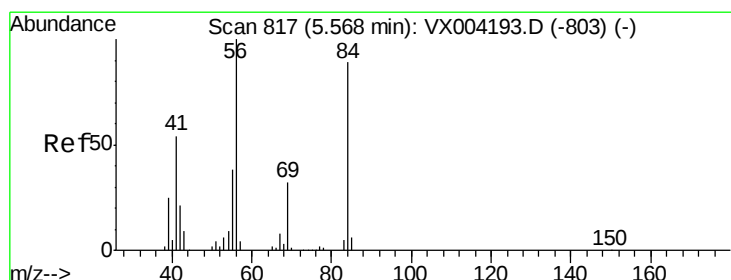
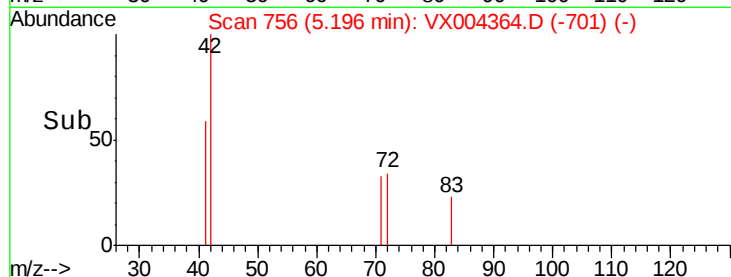
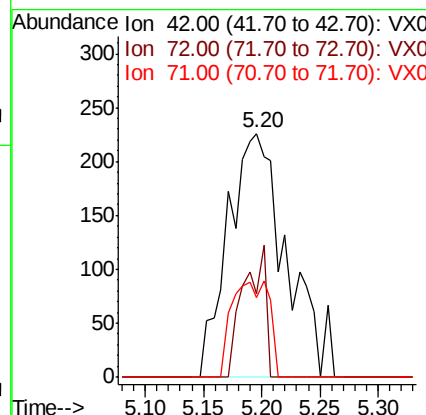
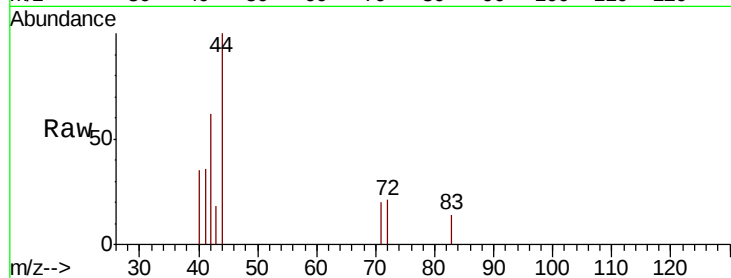




#29
Tetrahydrofuran
Concen: 0.55 ug/l
RT: 5.20 min Scan# 756
Delta R.T. 0.04 min
Lab File: VX004364.D
Acq: 05 Sep 2018 11:49

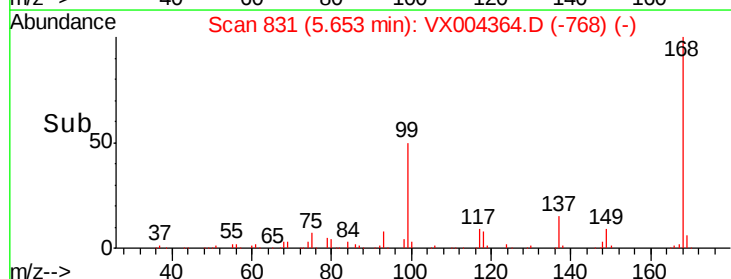
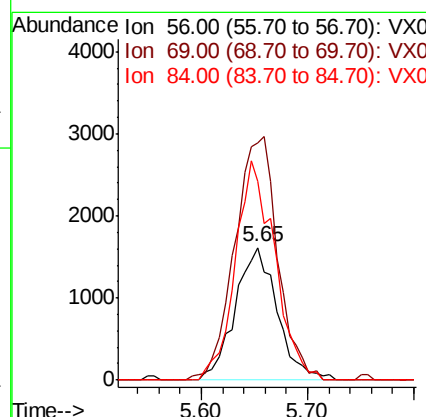
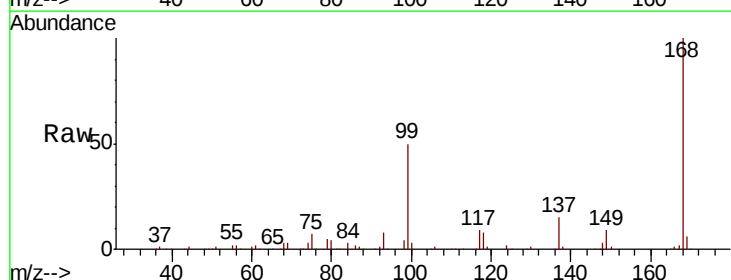
Instrument :
MSVOA_X
ClientSampleId :
CG-SOIL-2

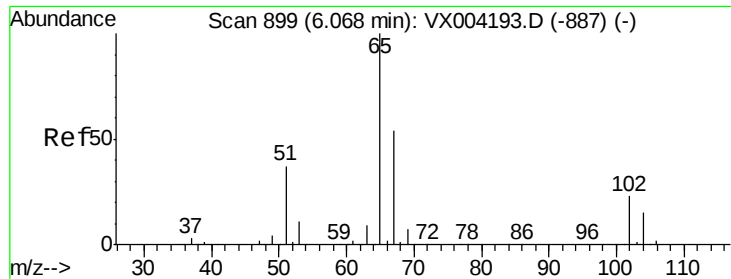
Tot Ion: 42 Resp: 787
Ion Ratio Lower Upper
42 100
72 20.6 37.4 56.0#
71 25.3 34.5 51.7#



#31
Cyclohexane
Concen: 0.97 ug/l
RT: 5.65 min Scan# 831
Delta R.T. 0.08 min
Lab File: VX004364.D
Acq: 05 Sep 2018 11:49

Tgt Ion: 56 Resp: 4487
Ion Ratio Lower Upper
56 100
69 179.7 25.4 38.2#
84 150.2 71.4 107.2#

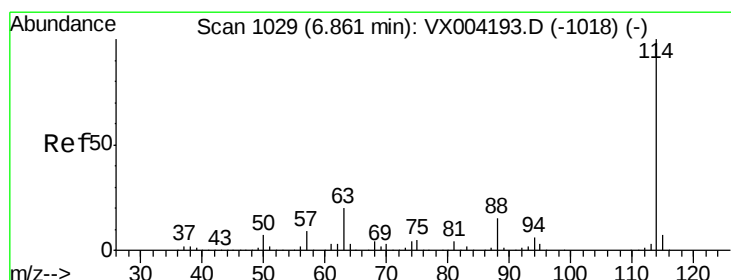
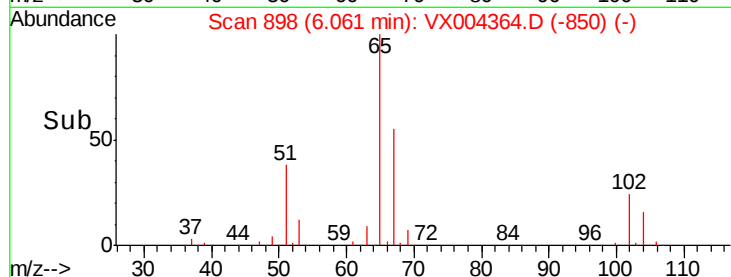
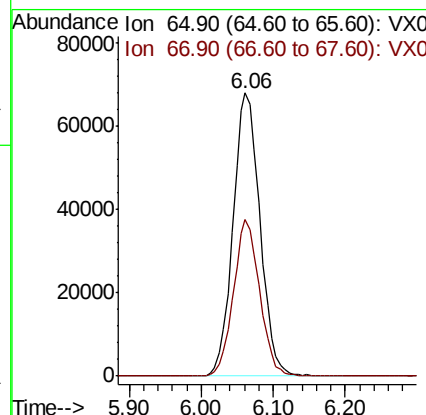
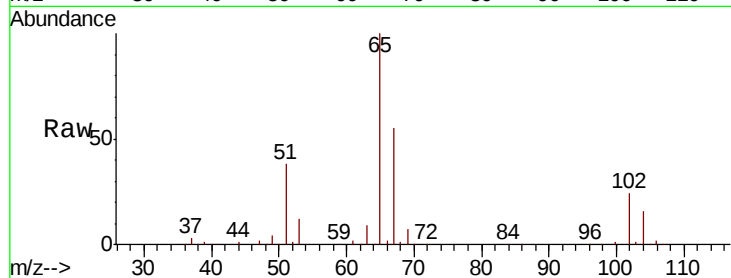




#33
 1,2-Dichloroethane-d4
 Concen: 53.22 ug/l
 RT: 6.06 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VX004364.D
 Acq: 05 Sep 2018 11:49

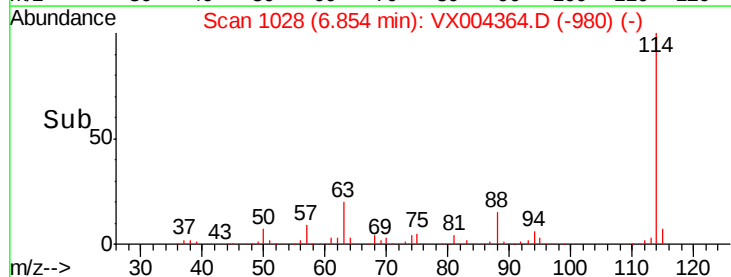
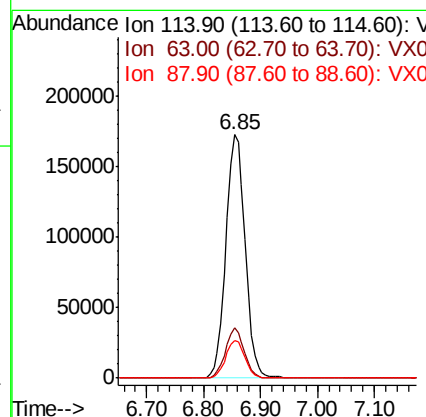
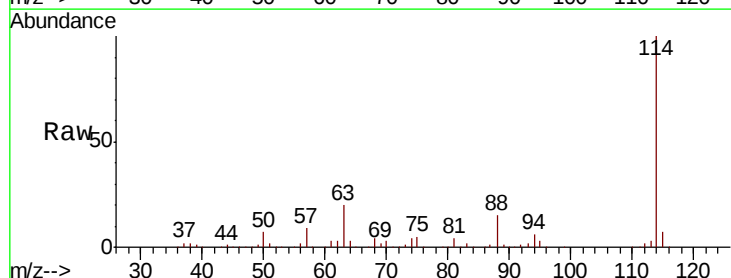
Instrument :
 MSVOA_X
 ClientSampleId :
 CG-SOIL-2

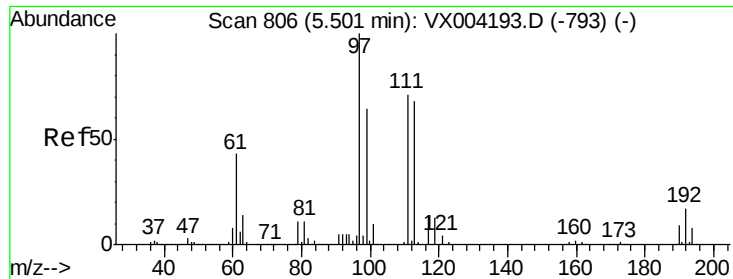
Tot Ion: 65 Resp: 176280
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: VX004364.D
 Acq: 05 Sep 2018 11:49

Tgt Ion: 114 Resp: 406635
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.0
 88 15.4 0.0 30.4

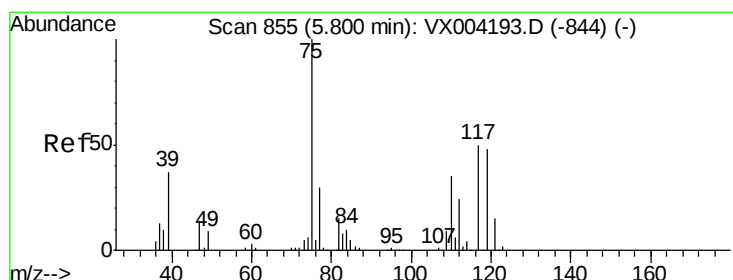
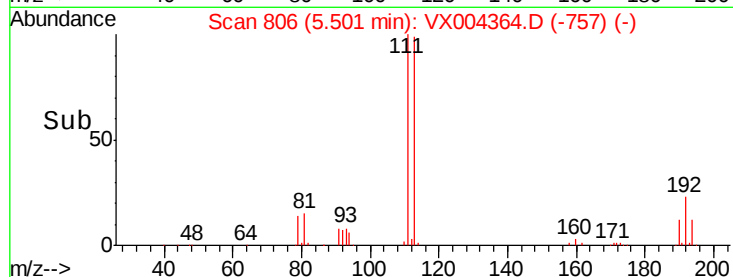
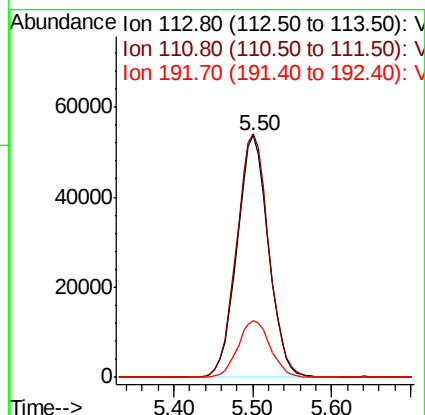
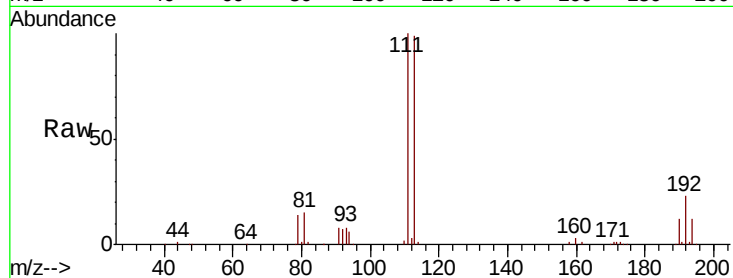




#35
 Dibromofluoromethane
 Concen: 49.14 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004364.D
 Acq: 05 Sep 2018 11:49

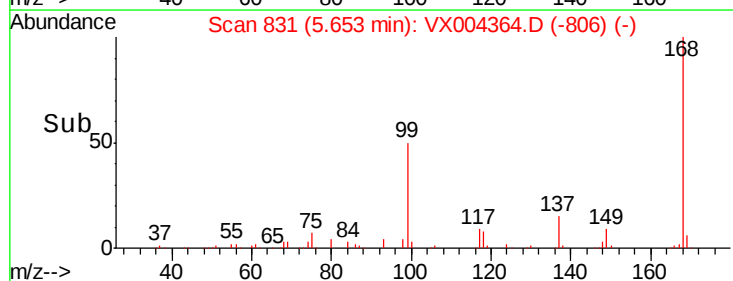
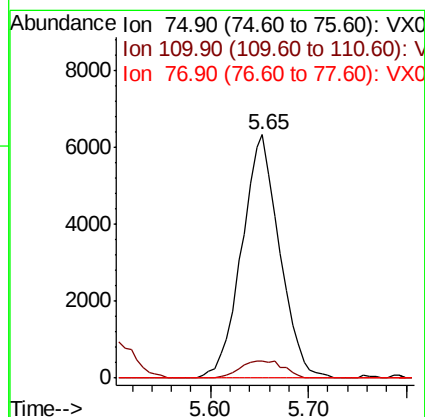
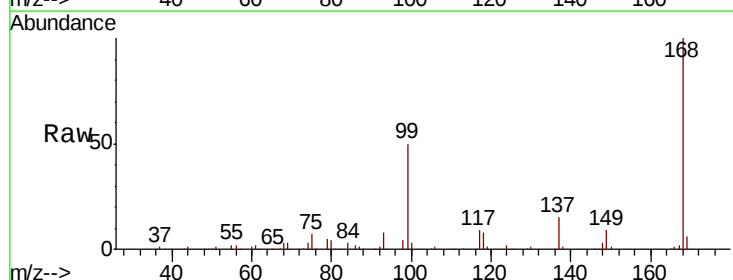
Instrument :
 MSVOA_X
 ClientSampleId :
 CG-SOIL-2

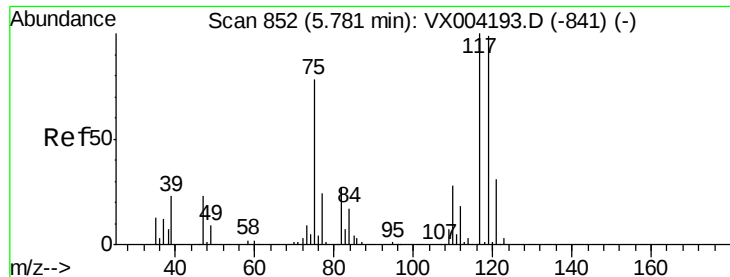
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	24.1	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 5.65 min Scan# 831
 Delta R.T. -0.15 min
 Lab File: VX004364.D
 Acq: 05 Sep 2018 11:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.0	54.0#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.09 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.13 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampled :

CG-SOIL-2

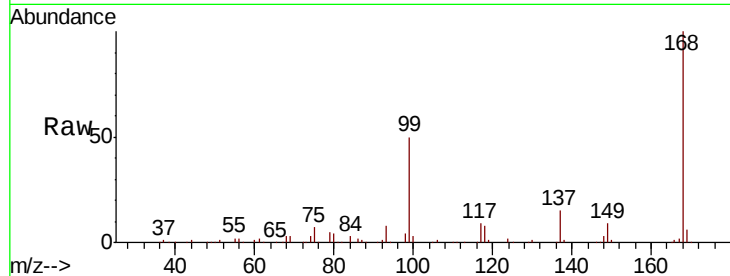
Tot Ion:117 Resp: 21904

Ion Ratio Lower Upper

117 100

119 6.5 78.8 118.2#

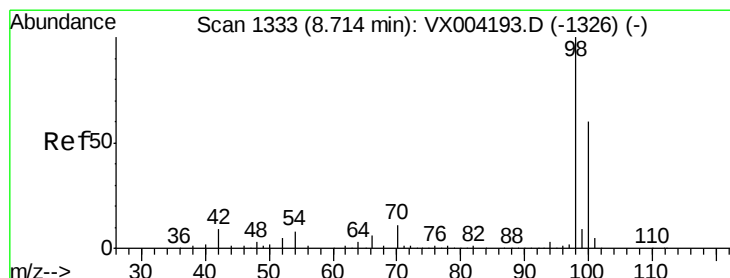
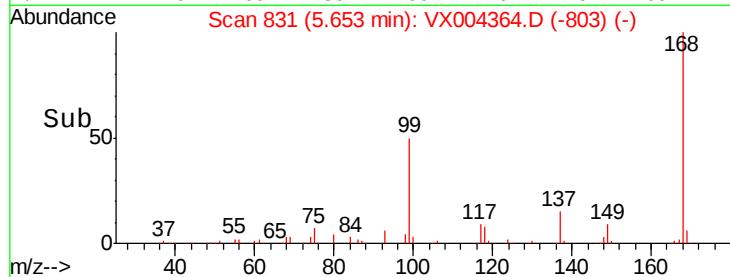
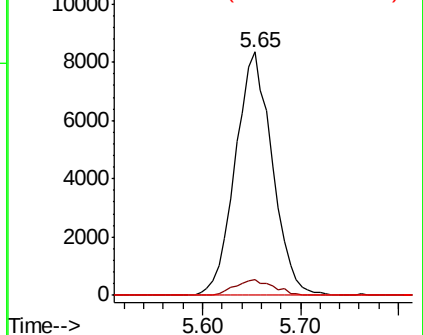
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.73 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004364.D

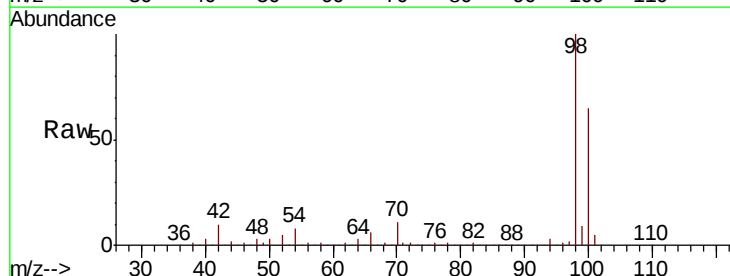
Acq: 05 Sep 2018 11:49

Tgt Ion: 98 Resp: 579267

Ion Ratio Lower Upper

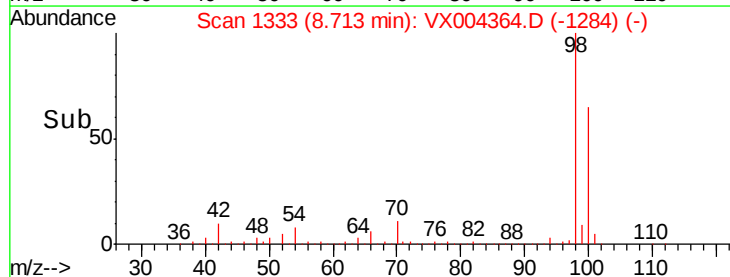
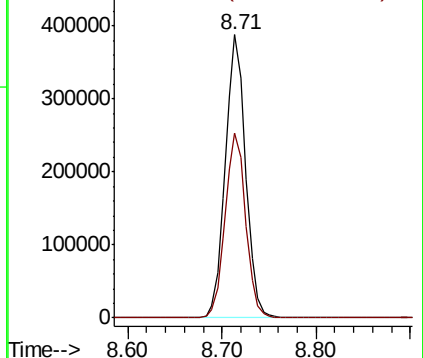
98 100

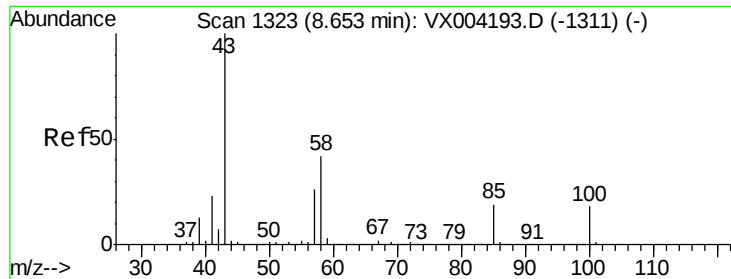
100 66.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.56 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampled :

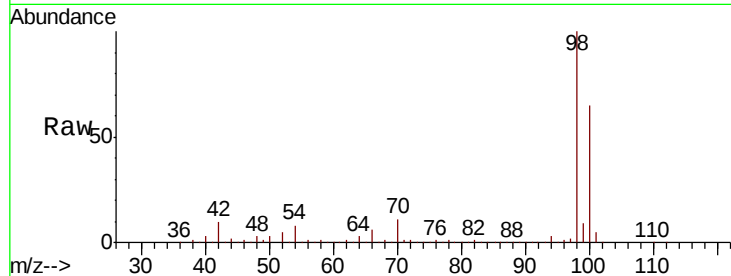
CG-SOIL-2

Tot Ion: 43 Resp: 2827

Ion Ratio Lower Upper

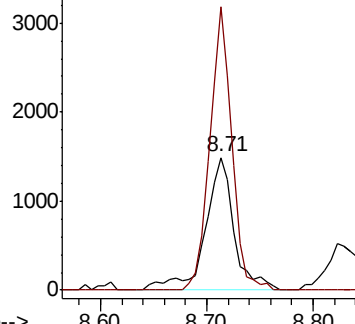
43 100

58 162.8 33.1 49.7#

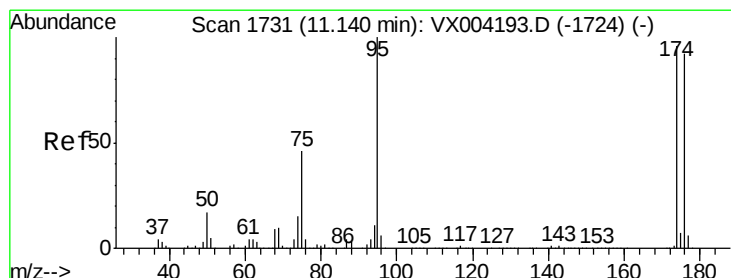
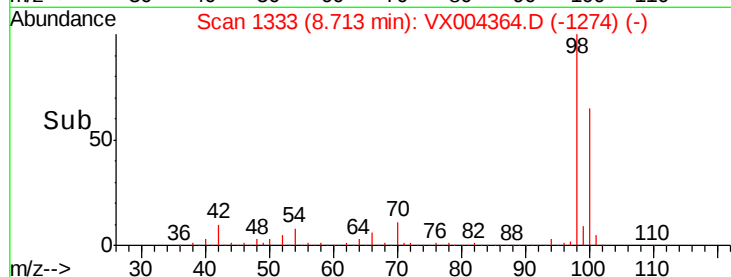


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#62

4-Bromofluorobenzene

Concen: 53.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

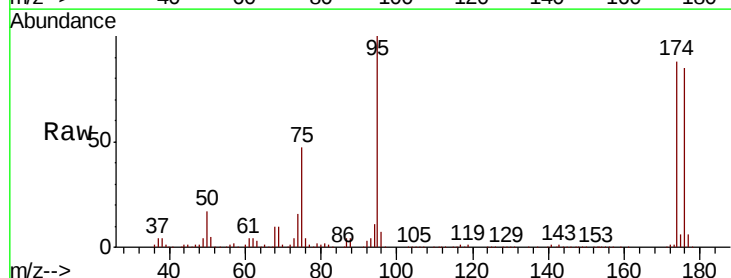
Tgt Ion: 95 Resp: 226772

Ion Ratio Lower Upper

95 100

174 91.6 0.0 185.2

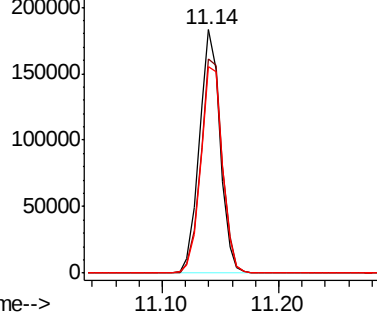
176 88.6 0.0 178.6



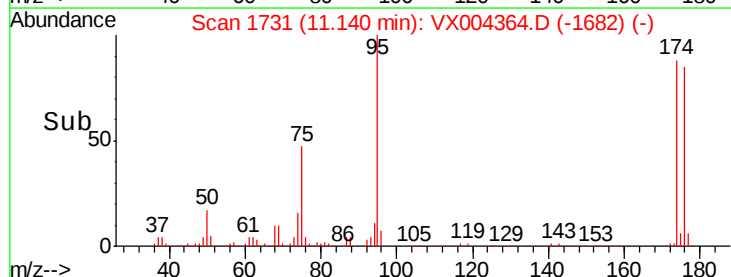
Abundance Ion 94.90 (94.60 to 95.60): VX0

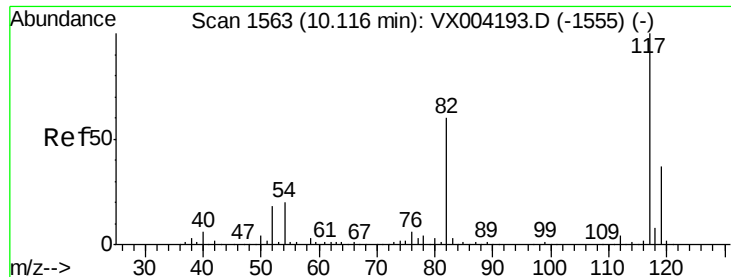
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampleId :

CG-SOIL-2

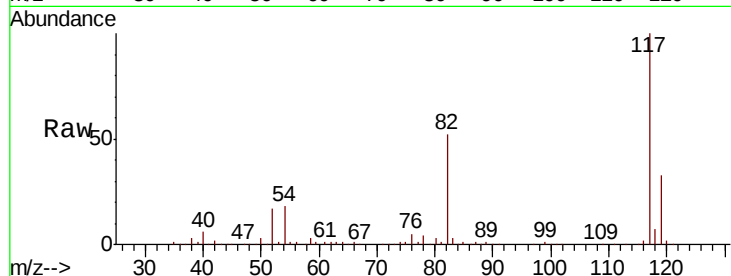
Tot Ion:117 Resp: 375614

Ion Ratio Lower Upper

117 100

82 52.5 47.8 71.6

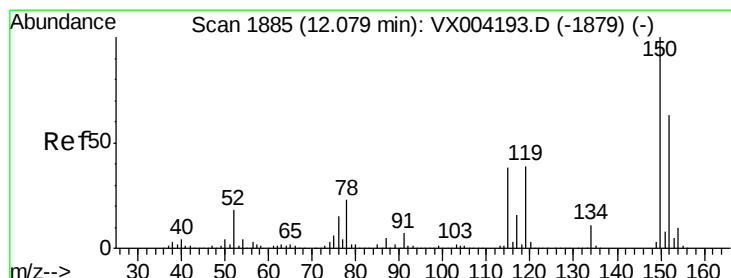
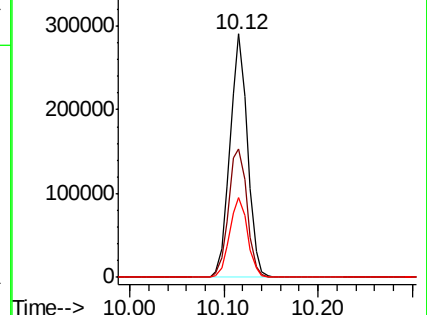
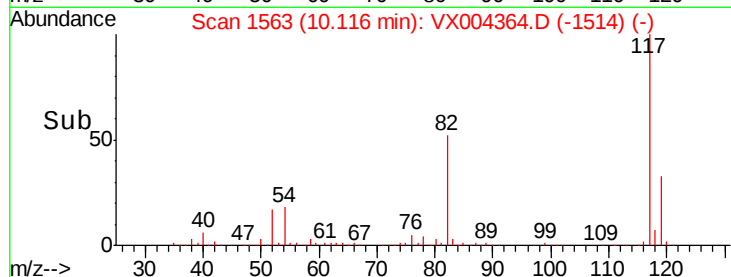
119 32.6 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

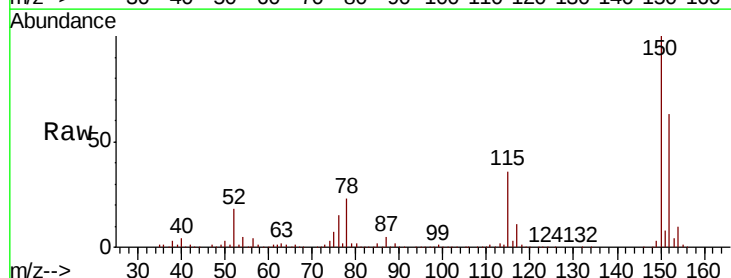
Tgt Ion:152 Resp: 250675

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

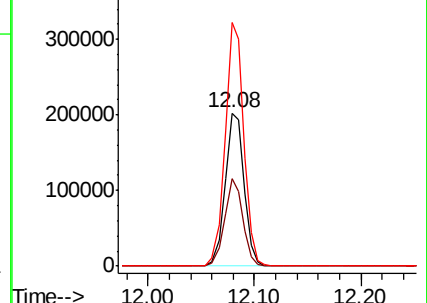
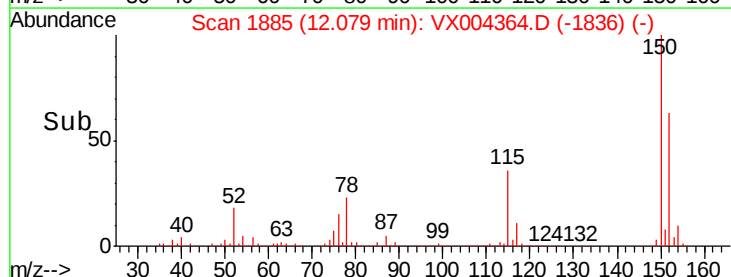
150 155.7 0.0 351.0

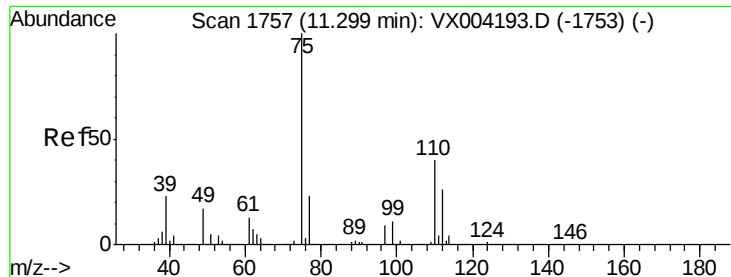


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

Instrument :

MSVOA_X

ClientSampleId :

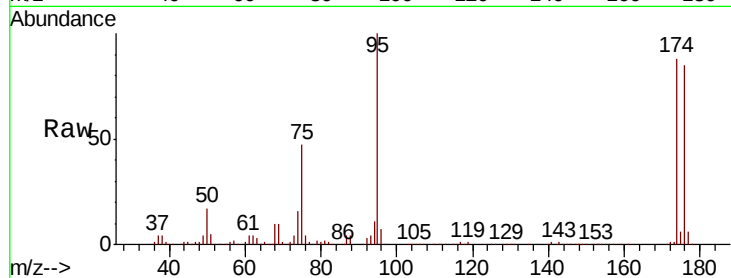
CG-SOIL-2

Tot Ion: 75 Resp: 106530

Ion Ratio Lower Upper

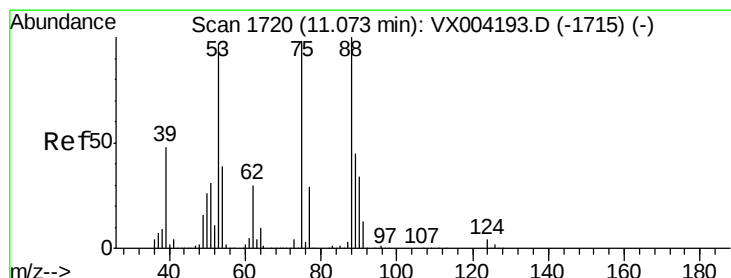
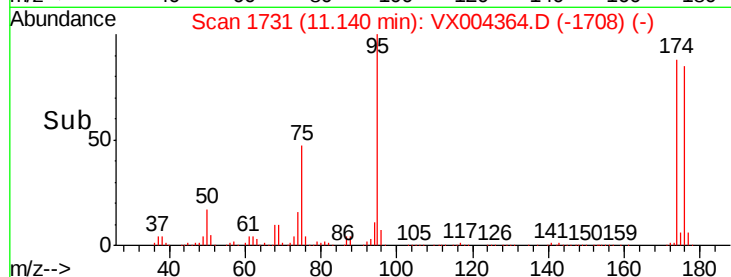
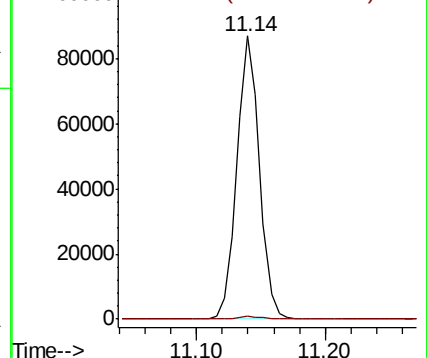
75 100

77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 67.80 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004364.D

Acq: 05 Sep 2018 11:49

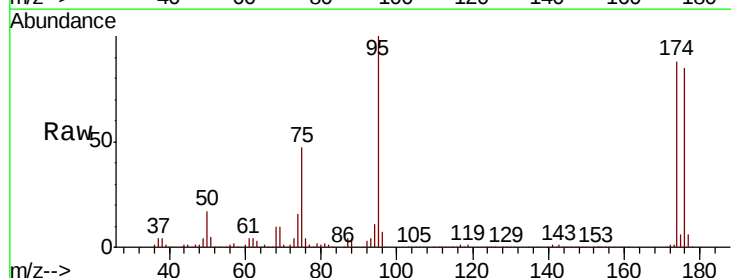
Tgt Ion: 75 Resp: 106530

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

