

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090418\
 Data File : VX004343.D
 Acq On : 04 Sep 2018 13:31
 Operator : JC/MD
 Sample : J4762-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE BLANK-SOILREF-6

Quant Time: Sep 05 06:38:54 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	5.66	168	264297	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	418882	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	392479	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	212439	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	184283	53.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.00%	
35) Dibromofluoromethane	5.50	113	163441	52.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.90%	
50) Toluene-d8	8.71	98	605494	51.48	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.14	95	212730	48.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1232	0.65	ug/l	# 85
5) Bromomethane	1.64	94	1638	Below	Cal	84
6) Chloroethane	1.76	64	6946	3.46	ug/l	# 44
10) Methyl Iodide	2.51	142	1594	4.70	ug/l	97
11) Tert butyl alcohol	3.07	59	295	0.40	ug/l	95
13) Acrolein	2.30	56	258	1.46	ug/l	# 51
15) Acrylonitrile	3.15	53	730	0.40	ug/l	# 79
16) Acetone	2.45	43	4691	Below	Cal	90
17) Carbon Disulfide	2.57	76	2108	1.06	ug/l	# 88
20) Methylene Chloride	2.85	84	3000	0.90	ug/l	91
25) 2-Butanone	4.70	43	254	Below	Cal	# 47
29) Tetrahydrofuran	5.17	42	702	0.47	ug/l	# 60
38) Carbon Tetrachloride	5.66	117	22886	5.17	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	99653	23.06	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	99653	74.83	ug/l	# 10
93) 1,2,4-Trichlorobenzene	13.65	180	1295	0.26	ug/l	91
96) 1,2,3-Trichlorobenzene	14.02	180	1099	0.21	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004343.D

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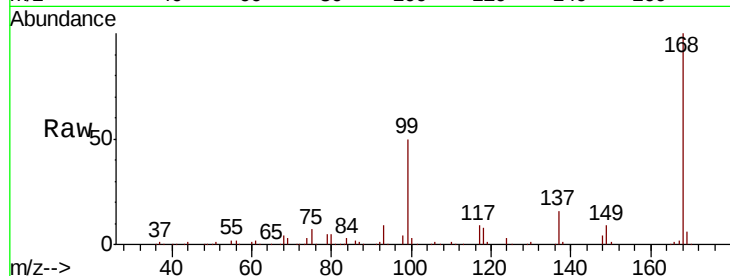
STORAGEBLANK-SOILREF-6

Tot Ion:168 Resp: 264297

Ion Ratio Lower Upper

168 100

99 49.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

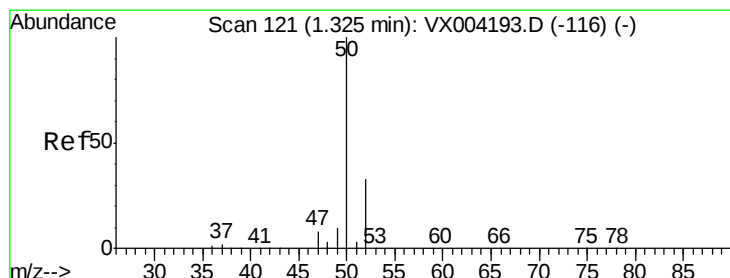
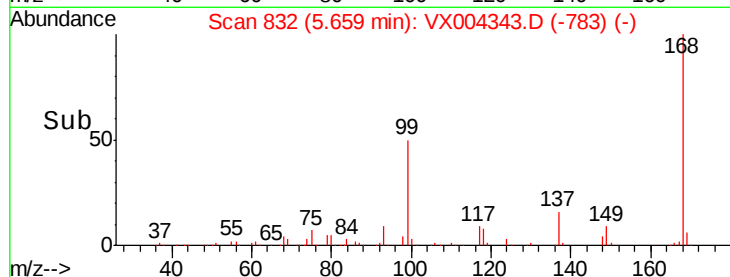
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.65 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004343.D

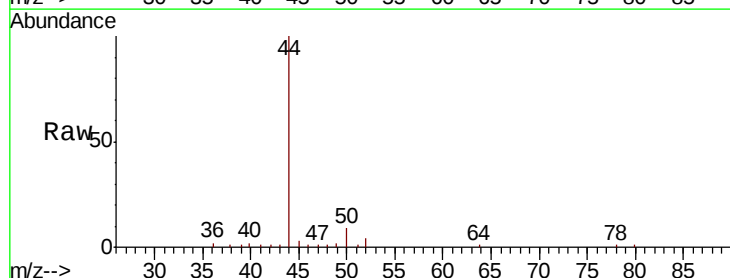
Acq: 04 Sep 2018 13:31

Tgt Ion: 50 Resp: 1232

Ion Ratio Lower Upper

50 100

52 41.3 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

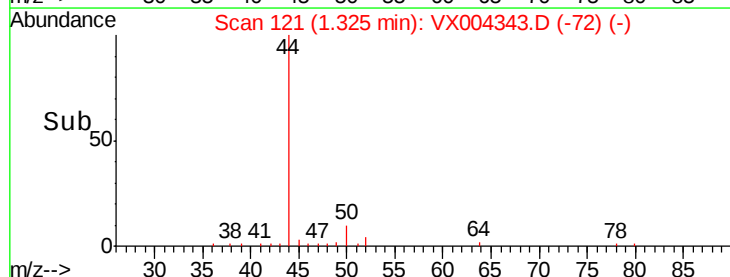
600

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: VX004343.D

Acq: 04 Sep 2018 13:31

Instrument :

MSVOA_X

ClientSampleId :

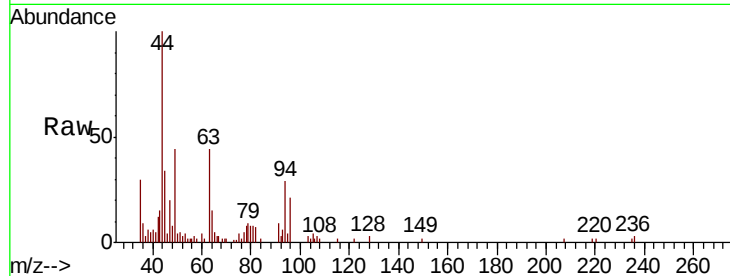
STORAGEBLANK-SOILREF-6

Tot Ion: 94 Resp: 1638

Ion Ratio Lower Upper

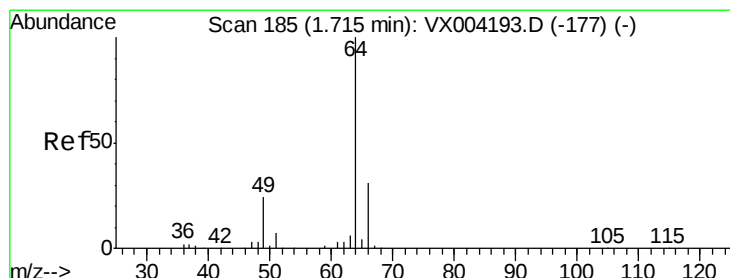
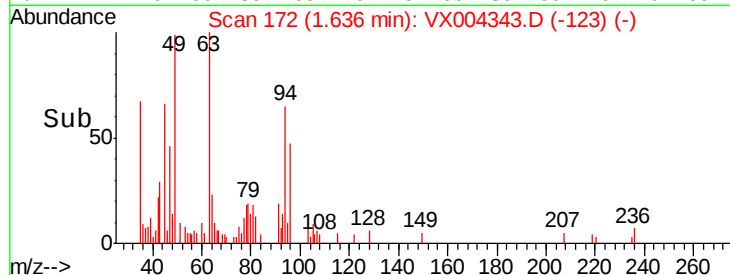
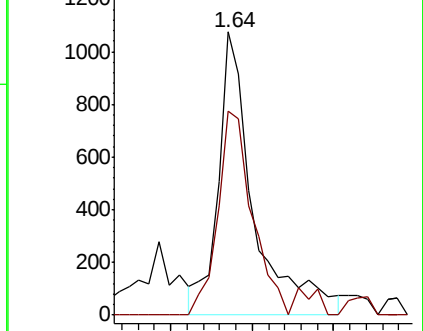
94 100

96 77.7 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: 3.46 ug/l

RT: 1.76 min Scan# 192

Delta R.T. 0.04 min

Lab File: VX004343.D

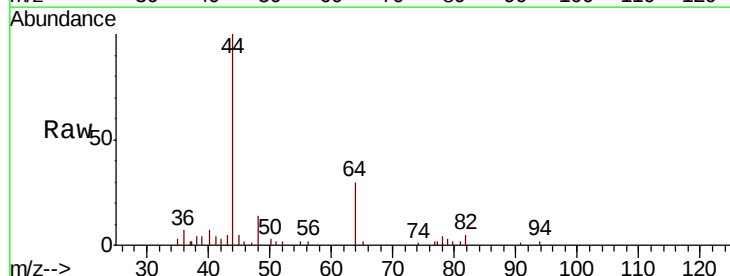
Acq: 04 Sep 2018 13:31

Tgt Ion: 64 Resp: 6946

Ion Ratio Lower Upper

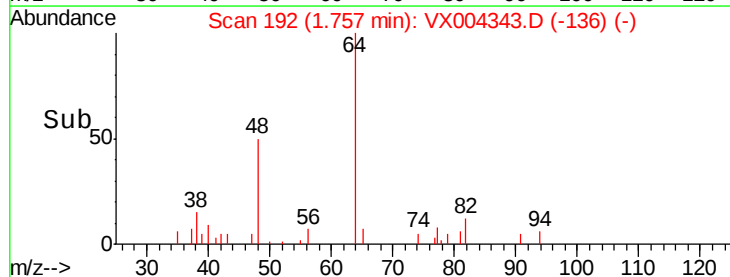
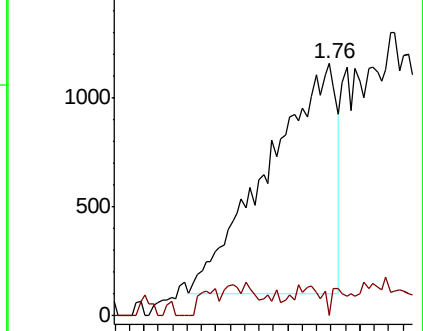
64 100

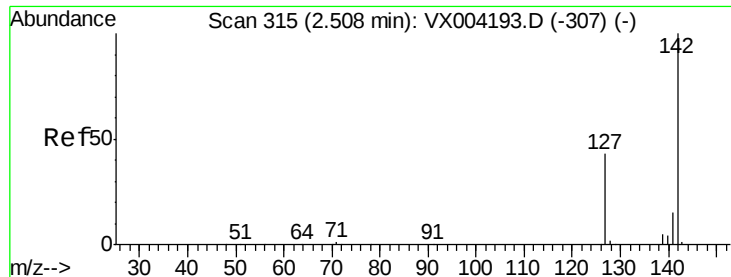
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

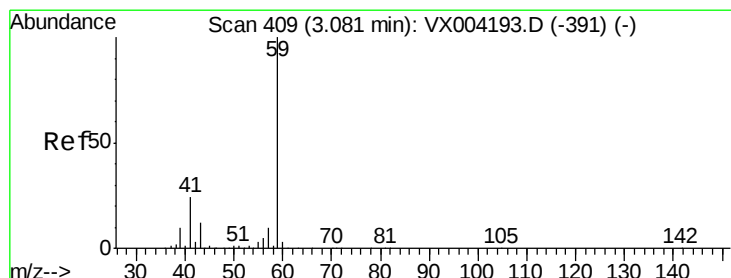
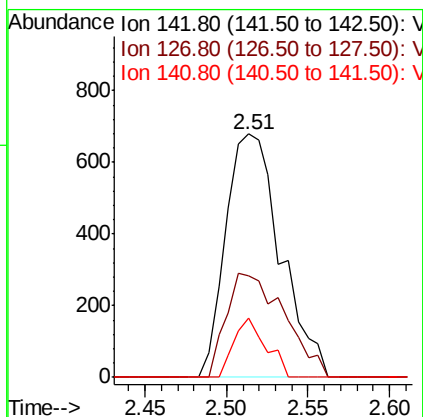
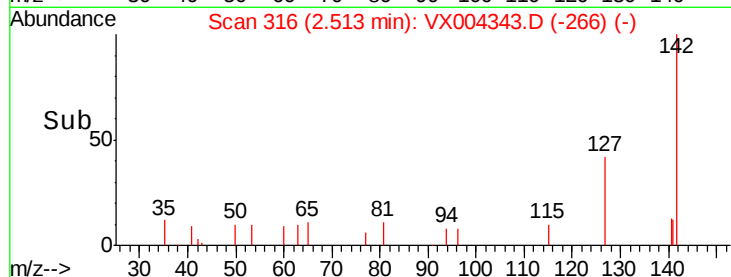
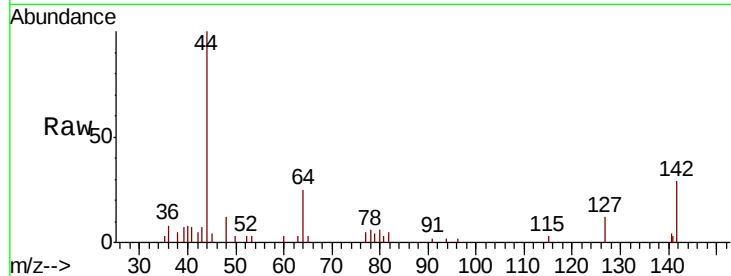




#10
Methyl Iodide
Concen: 4.70 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004343.D
Acq: 04 Sep 2018 13:31

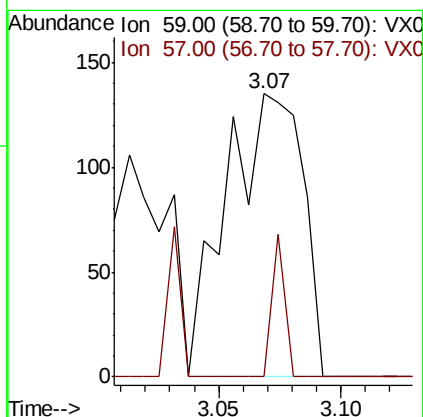
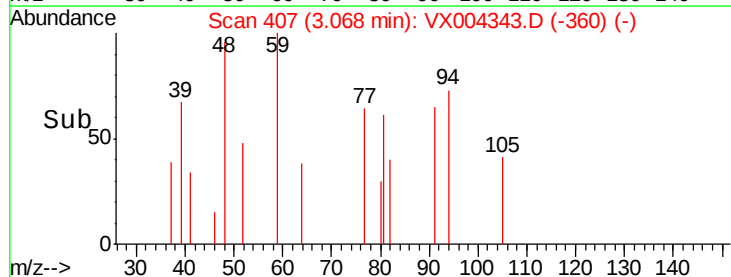
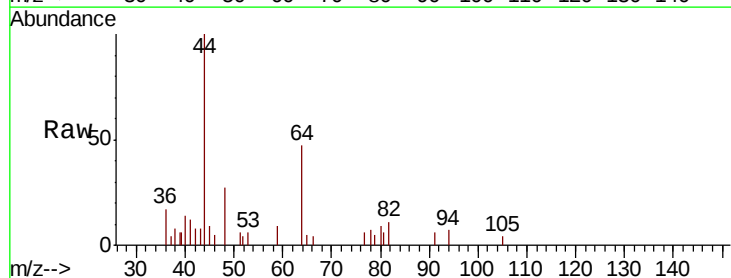
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

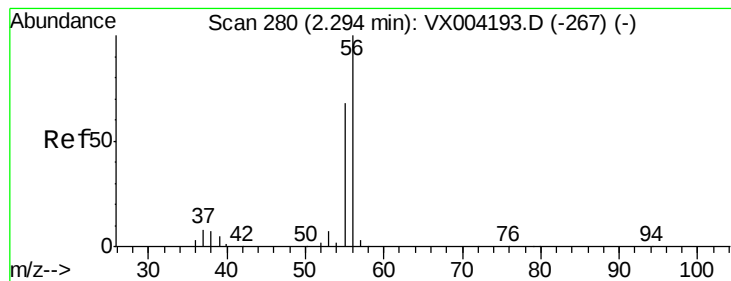
Tot Ion:142 Resp: 1594
Ion Ratio Lower Upper
142 100
127 45.0 33.8 50.6
141 14.1 11.4 17.0



#11
Tert butyl alcohol
Concen: 0.40 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004343.D
Acq: 04 Sep 2018 13:31

Tgt Ion: 59 Resp: 295
Ion Ratio Lower Upper
59 100
57 8.5 8.2 12.4





#13

Acrolein

Concen: 1.46 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

Instrument :

MSVOA_X

ClientSampleId :

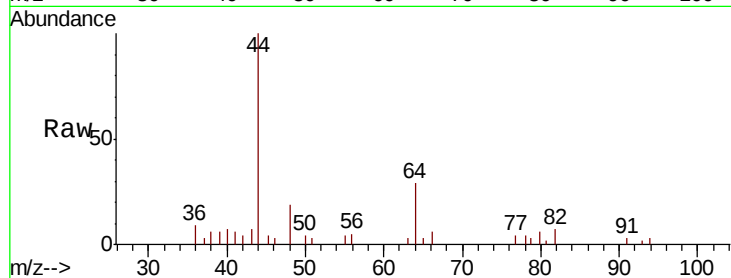
STORAGEBLANK-SOILREF-6

Tot Ion: 56 Resp: 258

Ion Ratio Lower Upper

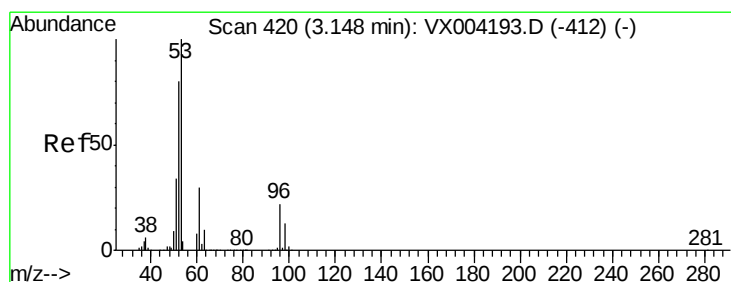
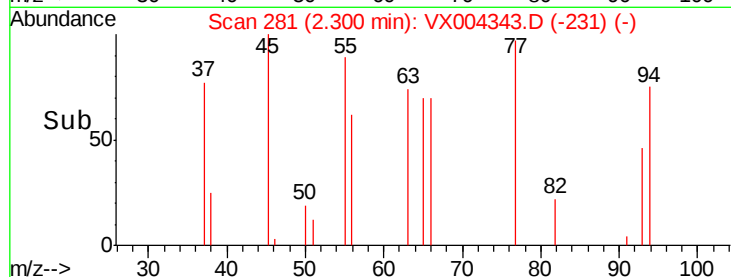
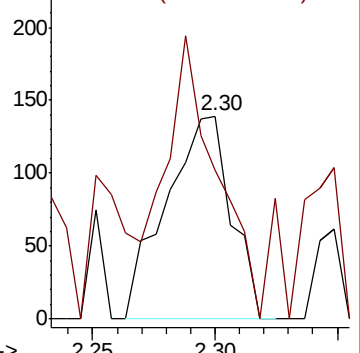
56 100

55 107.8 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.40 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.00 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

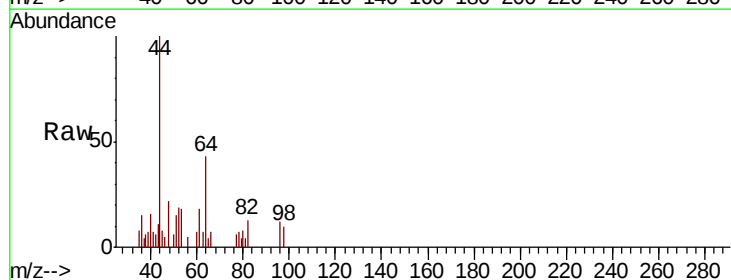
Tgt Ion: 53 Resp: 730

Ion Ratio Lower Upper

53 100

52 95.6 65.2 97.8

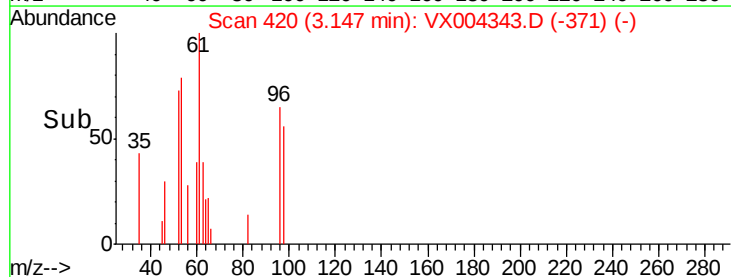
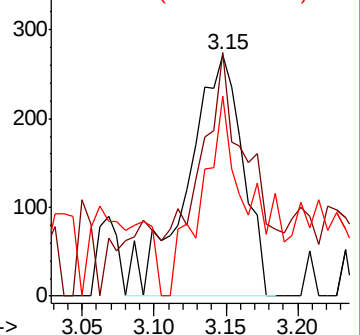
51 54.5 28.2 42.2#

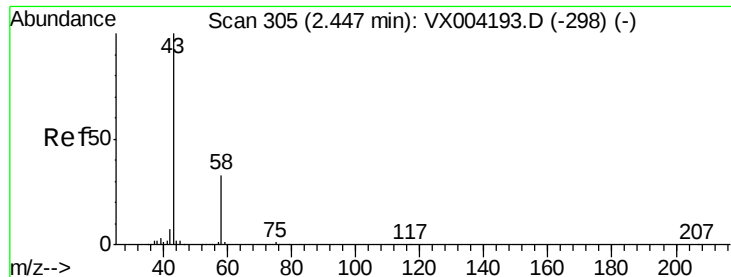


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

Instrument :

MSVOA_X

ClientSampleId :

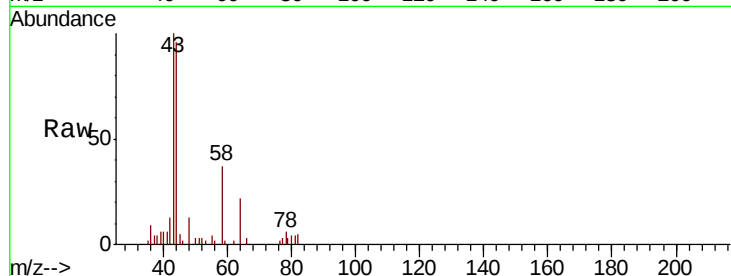
STORAGEBLANK-SOILREF-6

Tot Ion: 43 Resp: 4691

Ion Ratio Lower Upper

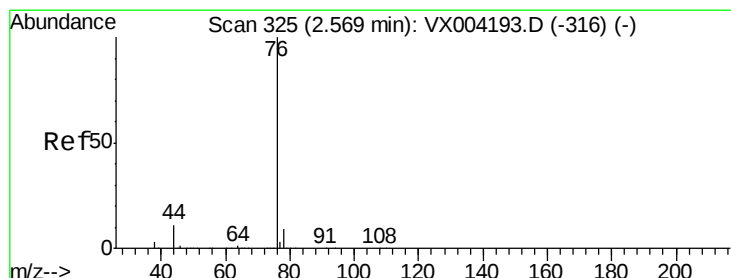
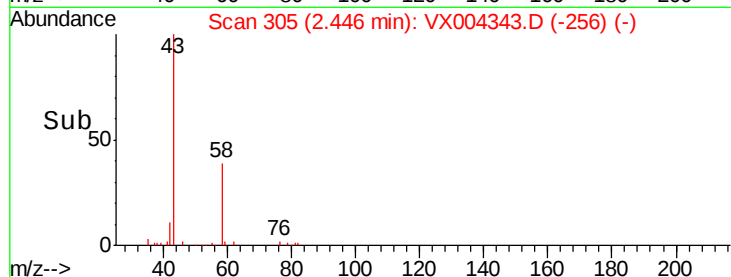
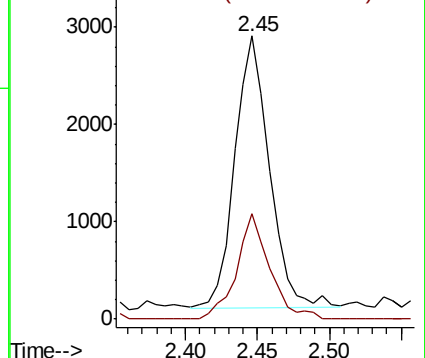
43 100

58 38.7 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: 1.06 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004343.D

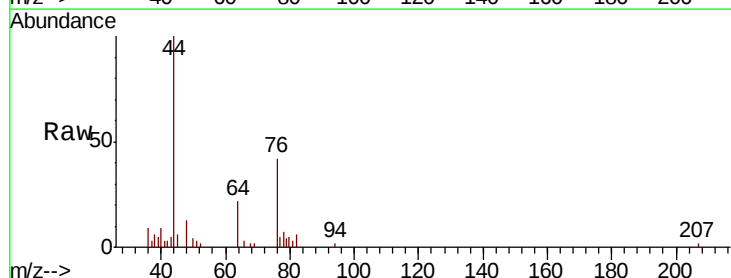
Acq: 04 Sep 2018 13:31

Tgt Ion: 76 Resp: 2108

Ion Ratio Lower Upper

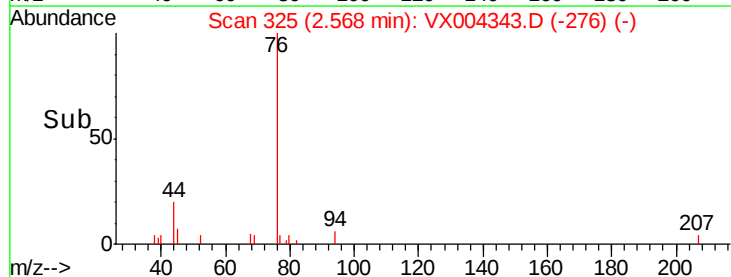
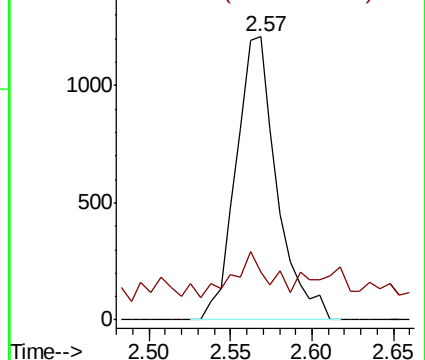
76 100

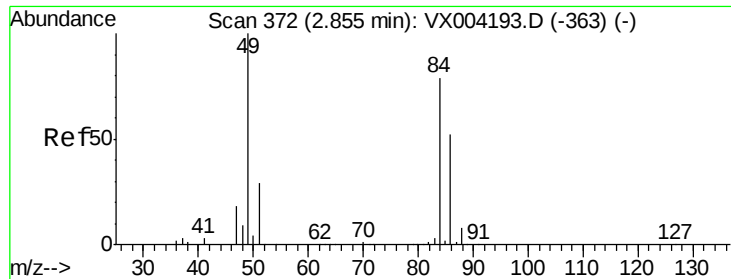
78 4.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

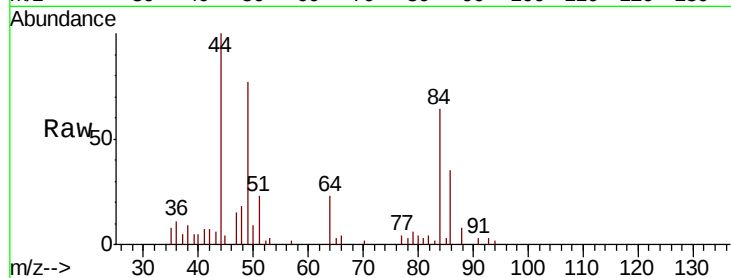




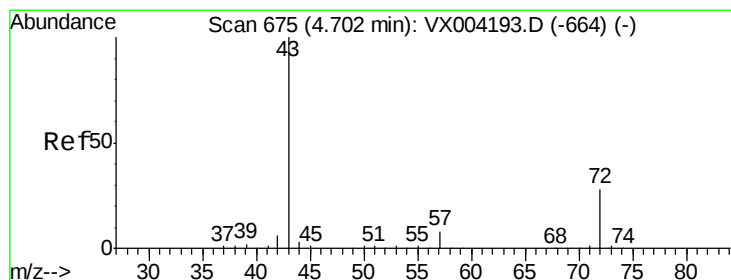
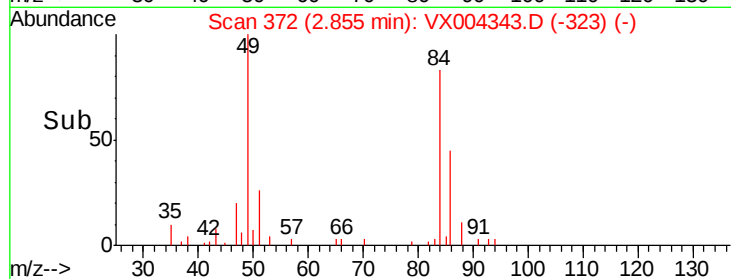
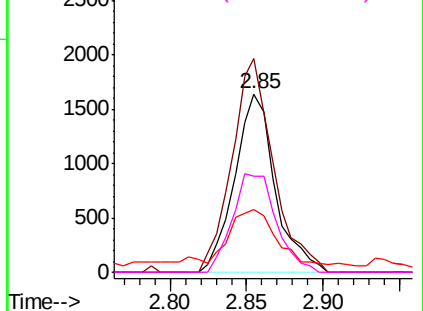
#20
Methvlene Chloride
Concen: 0.90 ua/l
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX004343.D
Acq: 04 Sep 2018 13:31

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

Tot Ion:	84	Resp:	3000
Ion	Ratio	Lower	Upper
84	100		
49	120.0	101.2	151.8
51	30.7	29.5	44.3
86	54.3	52.3	78.5

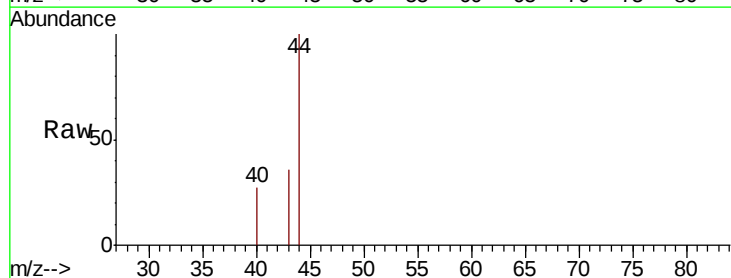


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

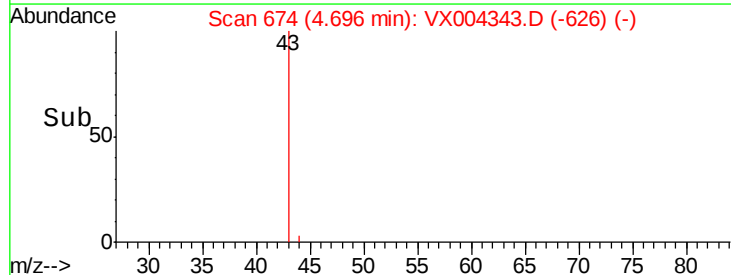
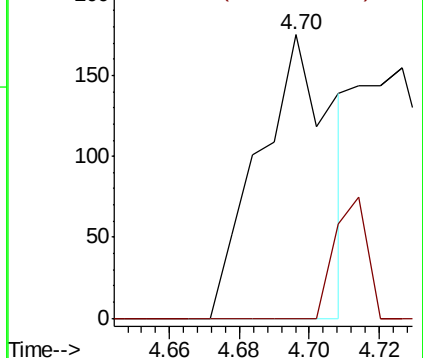


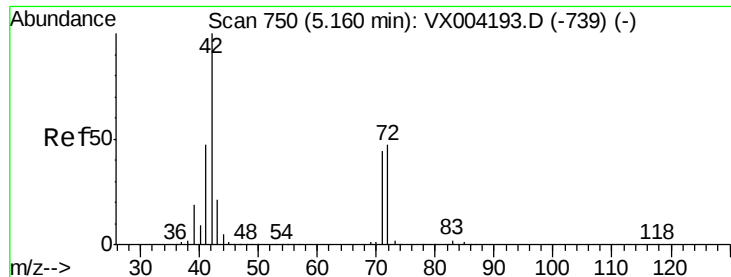
#25
2-Butanone
Concen: Below Cal
RT: 4.70 min Scan# 674
Delta R.T. -0.01 min
Lab File: VX004343.D
Acq: 04 Sep 2018 13:31

Tgt Ion:	43	Resp:	254
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.0	33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

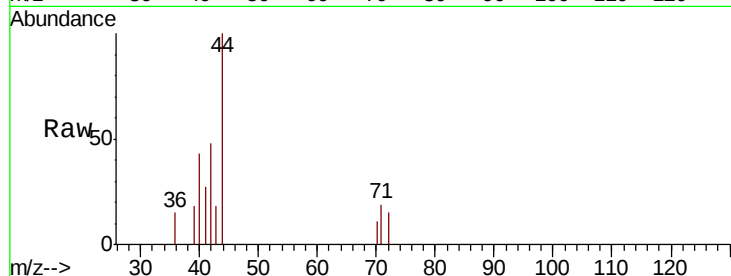
Tot Ion: 42 Resp: 702

Ion Ratio Lower Upper

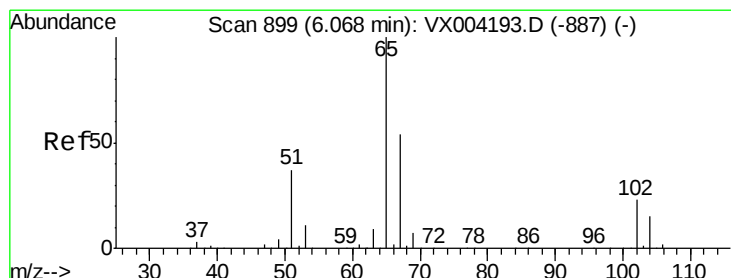
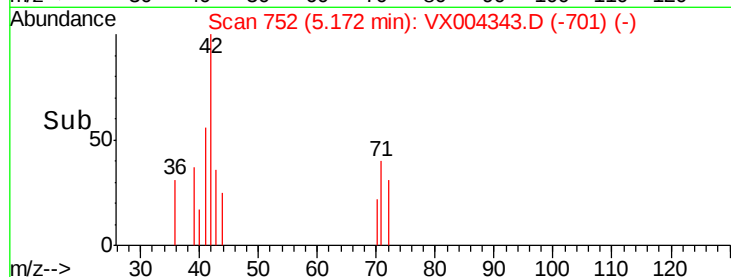
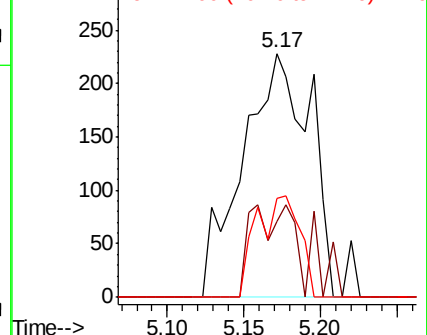
42 100

72 11.4 37.4 56.0#

71 26.5 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.50 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004343.D

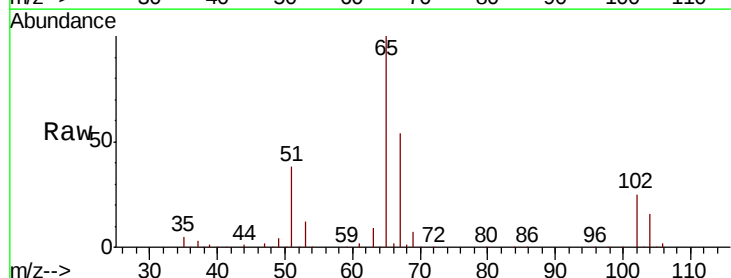
Acq: 04 Sep 2018 13:31

Tgt Ion: 65 Resp: 184283

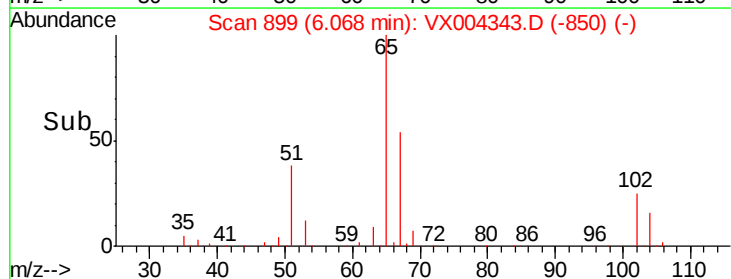
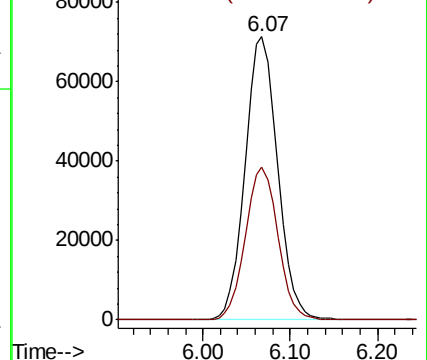
Ion Ratio Lower Upper

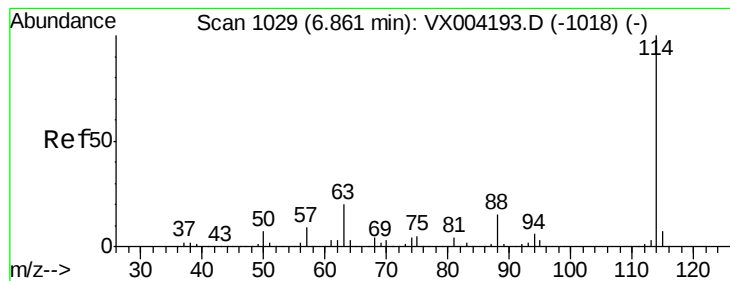
65 100

67 54.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

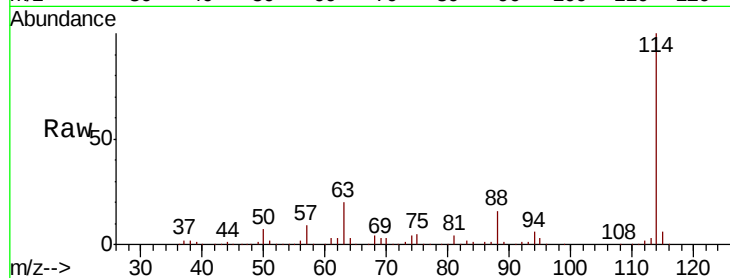
Tot Ion:114 Resp: 418882

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

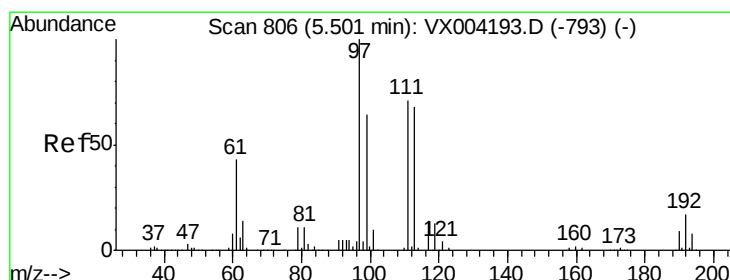
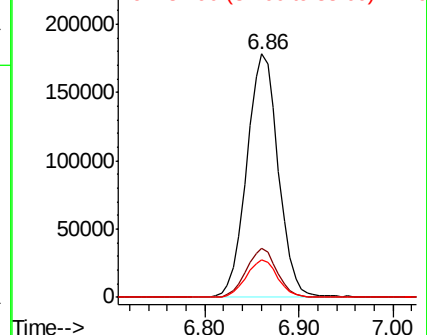
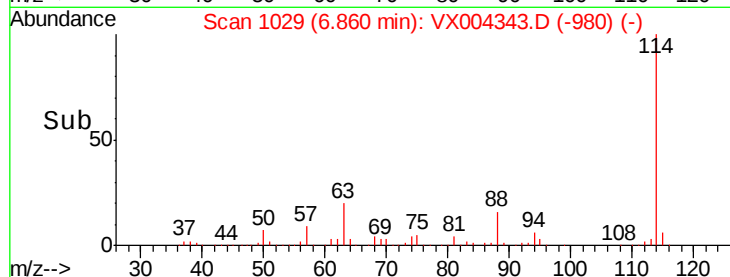
88 15.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.45 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

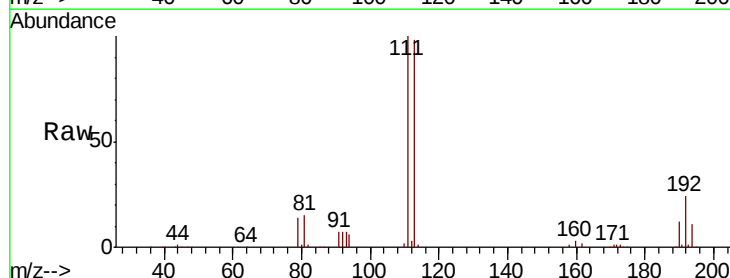
Tgt Ion:113 Resp: 163441

Ion Ratio Lower Upper

113 100

111 104.0 82.4 123.6

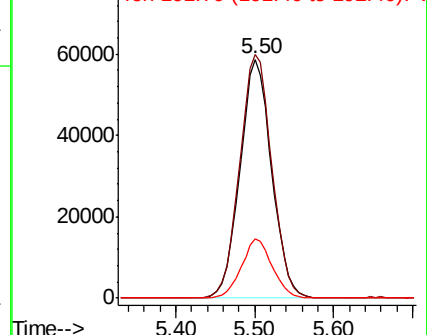
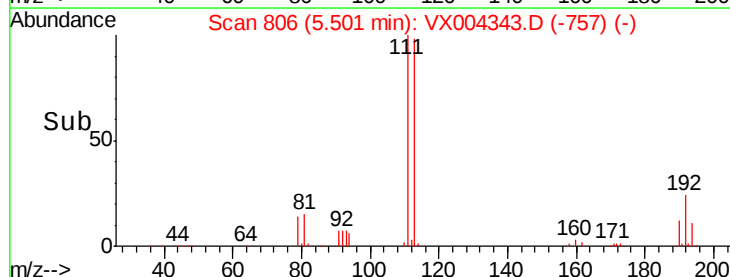
192 24.2 19.4 29.2

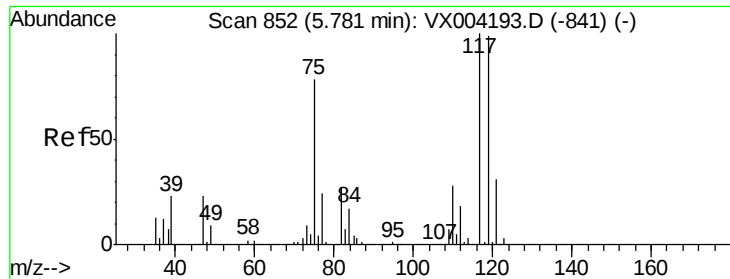


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.17 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

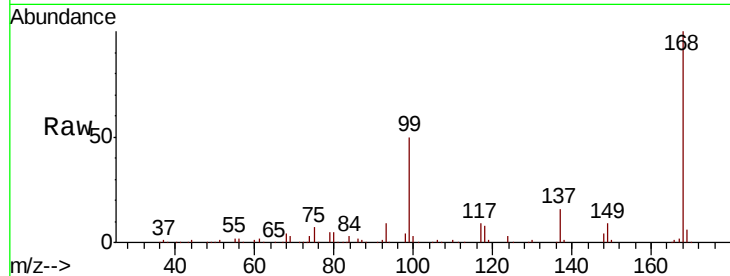
Tot Ion:117 Resp: 22886

Ion Ratio Lower Upper

117 100

119 6.5 78.8 118.2#

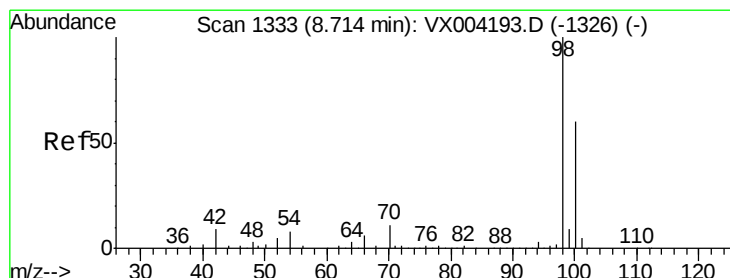
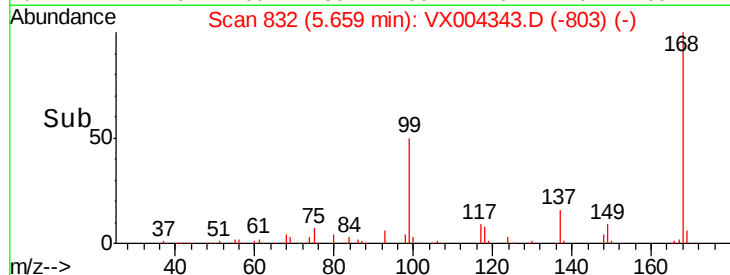
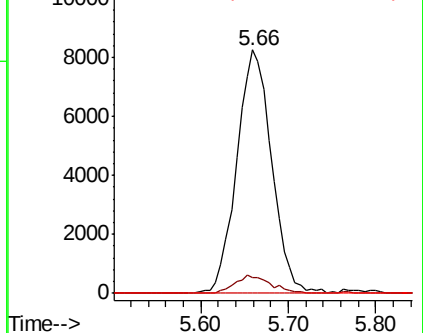
121 0.0 24.9 37.3#



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: 51.48 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004343.D

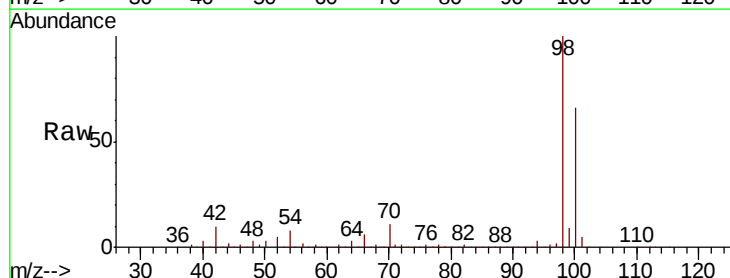
Acq: 04 Sep 2018 13:31

Tgt Ion: 98 Resp: 605494

Ion Ratio Lower Upper

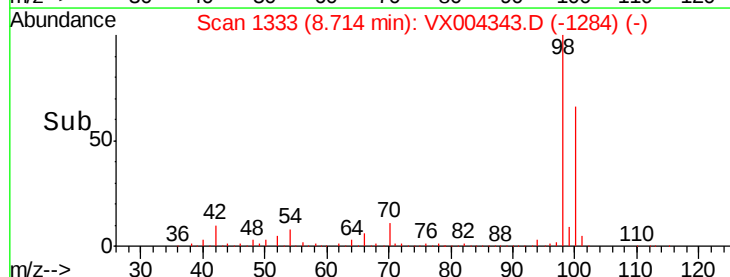
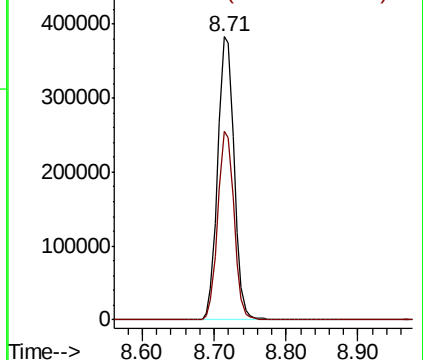
98 100

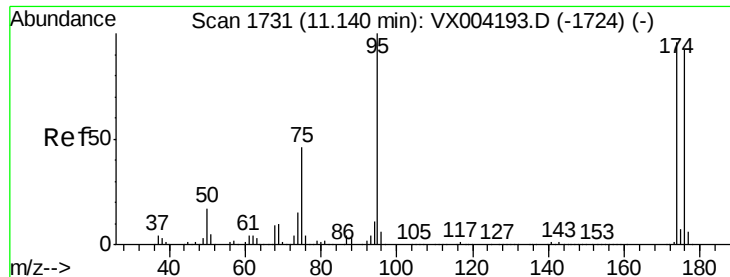
100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

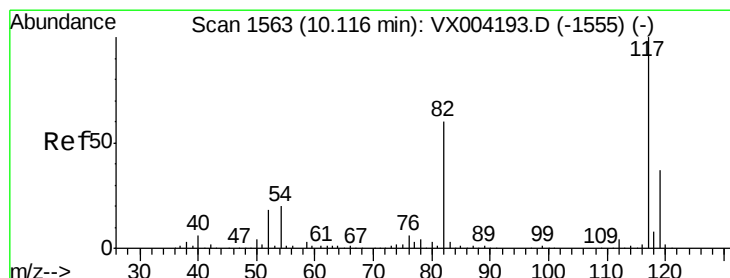
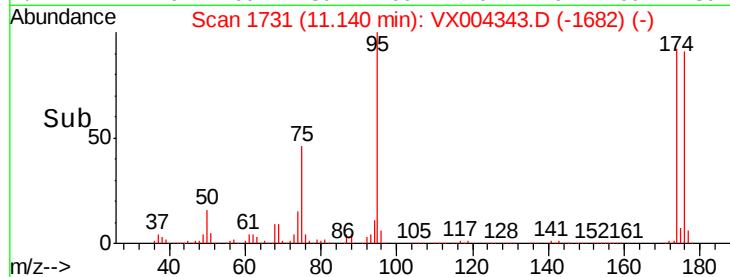
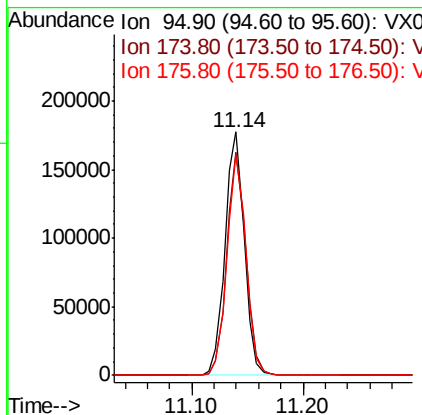
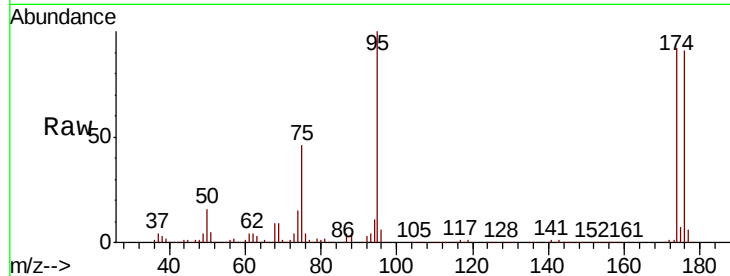




#62
 4-Bromofluorobenzene
 Concen: 48.47 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX004343.D
 Acq: 04 Sep 2018 13:31

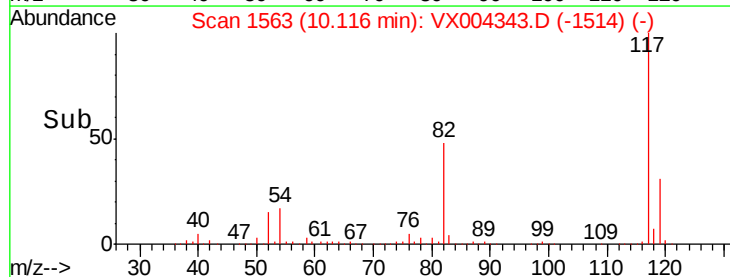
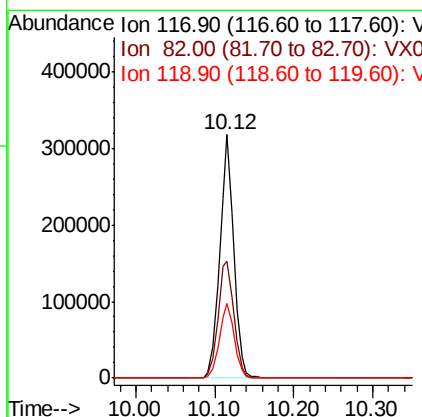
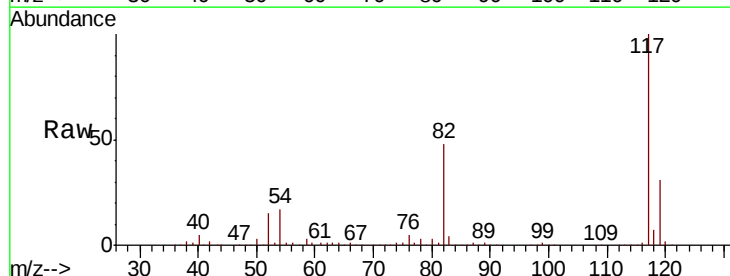
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-SOILREF-6

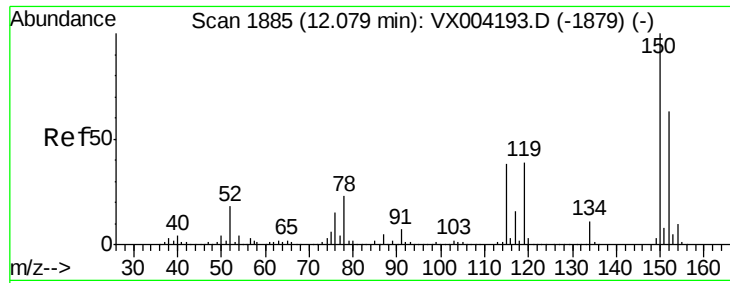
Tot Ion: 95 Resp: 212730
 Ion Ratio Lower Upper
 95 100
 174 91.0 0.0 185.2
 176 89.1 0.0 178.6



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VX004343.D
 Acq: 04 Sep 2018 13:31

Tgt Ion: 117 Resp: 392479
 Ion Ratio Lower Upper
 117 100
 82 48.2 47.8 71.6
 119 30.8 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004343.D

Acq: 04 Sep 2018 13:31

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

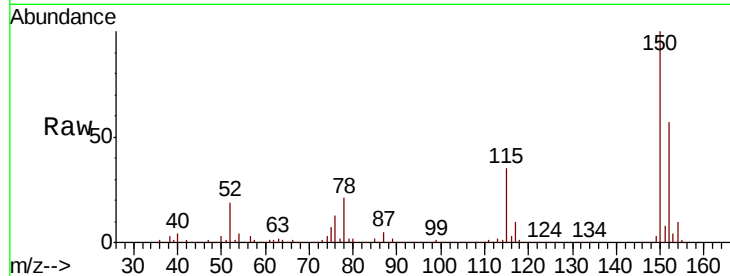
Tot Ion:152 Resp: 212439

Ion Ratio Lower Upper

152 100

115 55.2 39.0 117.0

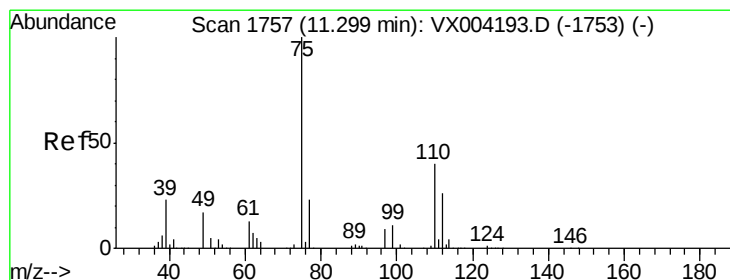
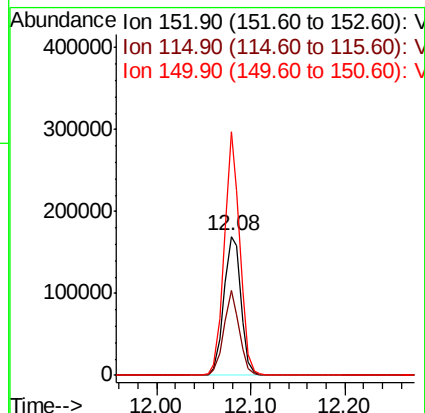
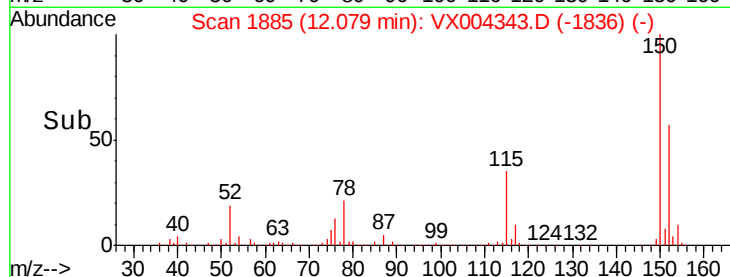
150 158.2 0.0 351.0



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: 23.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004343.D

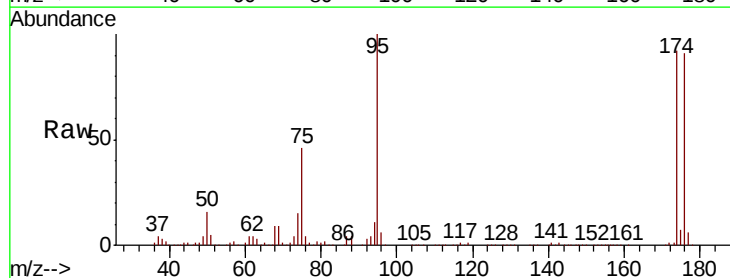
Acq: 04 Sep 2018 13:31

Tgt Ion: 75 Resp: 99653

Ion Ratio Lower Upper

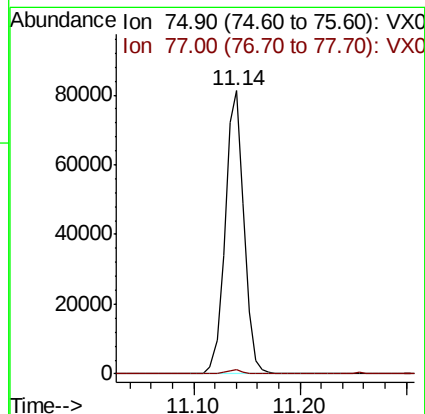
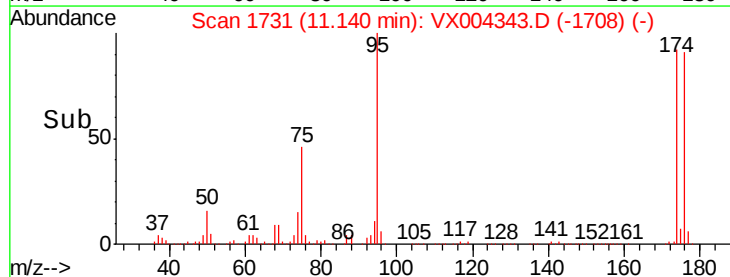
75 100

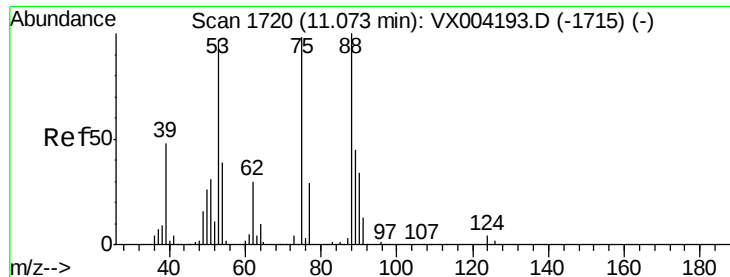
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

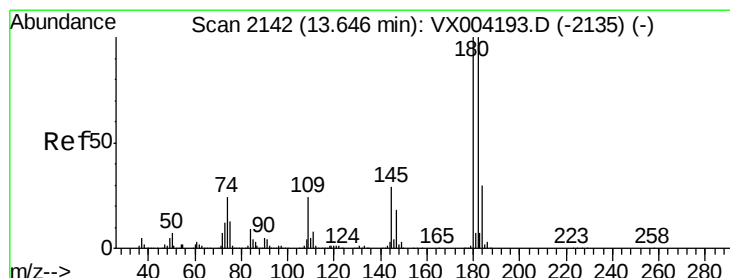
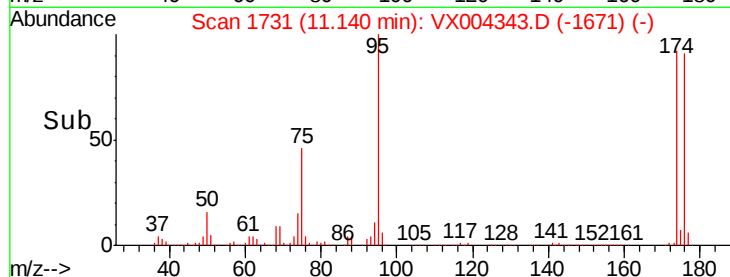
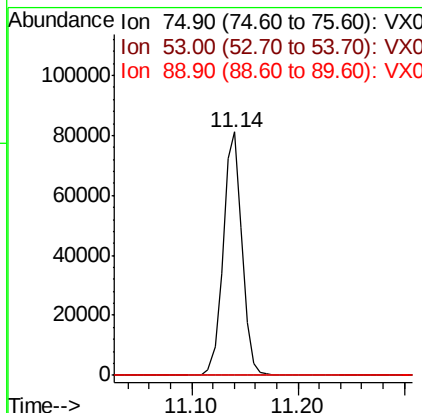
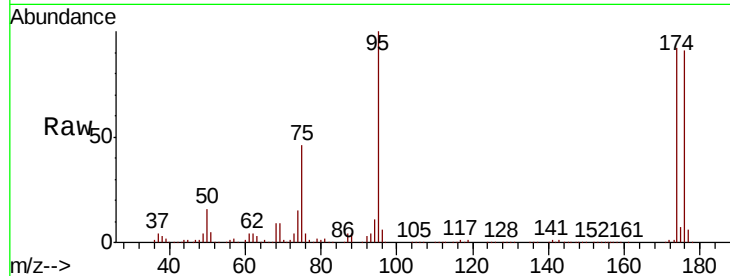




#81
trans-1,4-Dichloro-2-butene
Concen: 74.83 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.07 min
Lab File: VX004343.D
Acq: 04 Sep 2018 13:31

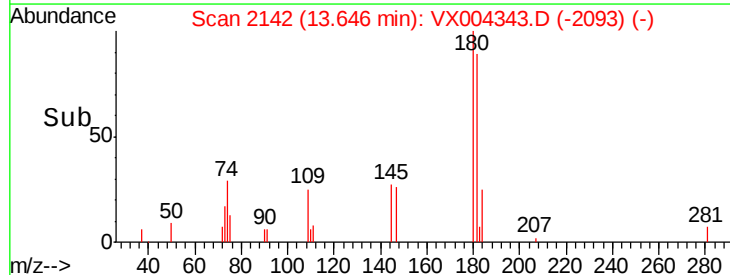
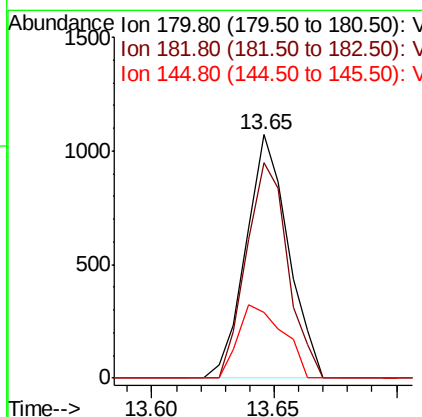
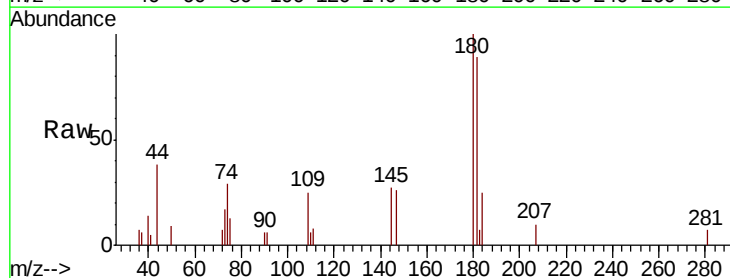
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

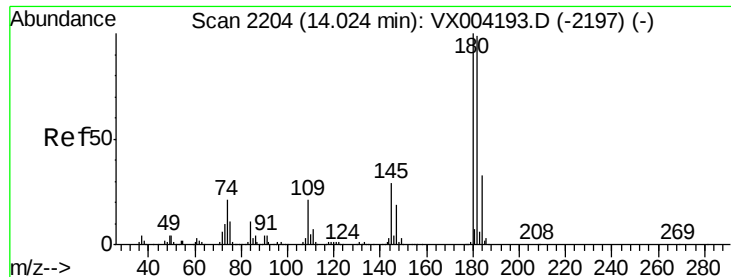
Tot Ion: 75 Resp: 99653
Ion Ratio Lower Upper
75 100
53 0.2 80.1 120.1#
89 0.0 37.2 55.8#



#93
1,2,4-Trichlorobenzene
Concen: 0.26 ug/l
RT: 13.65 min Scan# 2142
Delta R.T. -0.00 min
Lab File: VX004343.D
Acq: 04 Sep 2018 13:31

Tgt Ion:180 Resp: 1295
Ion Ratio Lower Upper
180 100
182 86.6 48.4 145.0
145 31.8 14.3 42.9

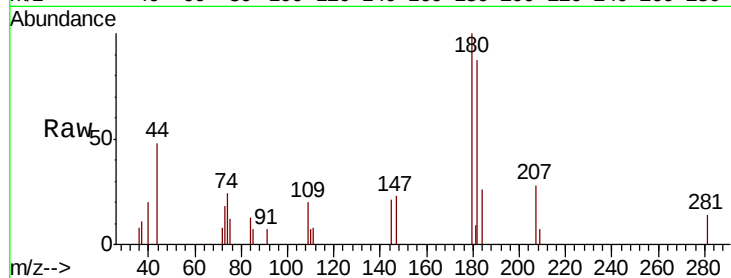




#96
 1,2,3-Trichlorobenzene
 Concen: 0.21 ug/l
 RT: 14.02 min Scan# 2203
 Delta R.T. -0.01 min
 Lab File: VX004343.D
 Acq: 04 Sep 2018 13:31

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-SOILREF-6

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.7	48.5	145.6
145	25.7	14.9	44.9



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

