

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
 Data File : VX013018.D
 Acq On : 11 Oct 2019 15:57
 Operator : JC/SP
 Sample : K5266-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 20190883-FIELD-BLANK

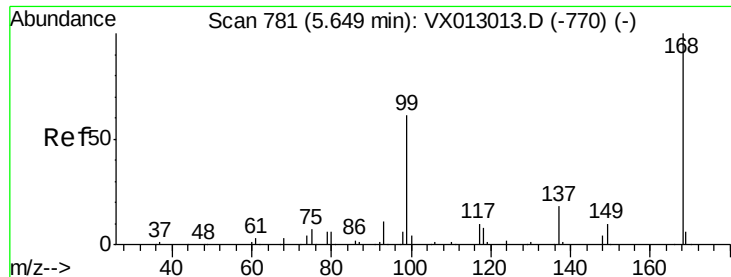
Quant Time: Oct 11 23:27:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	176722	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	290127	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240970	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	91767	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	110477	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
35) Dibromofluoromethane	5.49	113	84644	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
50) Toluene-d8	8.71	98	338484	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.14	95	109457	43.37	ug/l	0.00
Spiked Amount			Recovery	=	86.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	292	0.347	ug/l #	60
6) Chloroethane	1.66	64	405	0.693	ug/l #	80
10) Methyl Iodide	2.50	142	261	5.199	ug/l #	40
11) Tert butyl alcohol	3.03	59	749	1.279	ug/l #	72
16) Acetone	2.43	43	9445	8.112	ug/l	98
20) Methylene Chloride	2.85	84	1507	0.704	ug/l #	72
25) 2-Butanone	4.67	43	2162	1.338	ug/l	93
29) Tetrahydrofuran	5.14	42	1962	1.974	ug/l	94
31) Cyclohexane	5.65	56	3689	1.151	ug/l #	15
36) 1,1-Dichloropropene	5.65	75	13634	5.345	ug/l #	51
37) Ethyl Acetate	4.67	43	2162	0.758	ug/l #	67
38) Carbon Tetrachloride	5.65	117	17442	7.025	ug/l #	18
41) Methacrylonitrile	5.13	41	1188	0.758	ug/l #	37
71) Bromoform	11.12	173	31	3.153	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	56088	27.556	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	56088	69.157	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

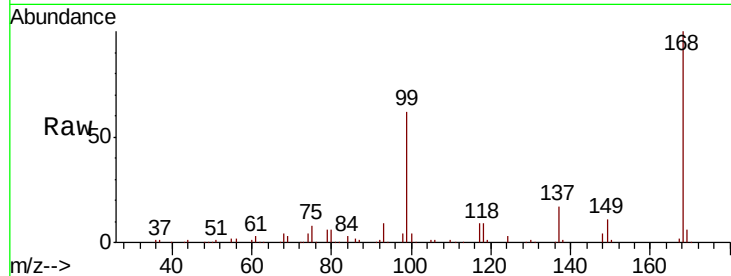
20190883-FIELD-BLANK

Tot Ion:168 Resp: 176722

Ion Ratio Lower Upper

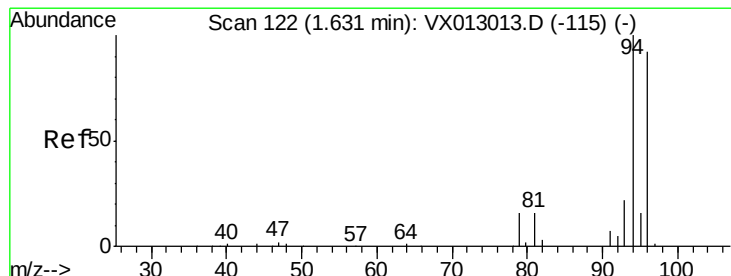
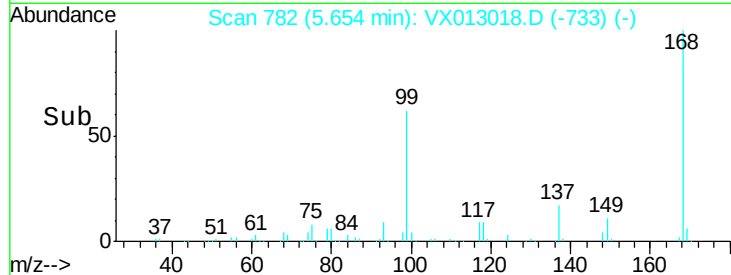
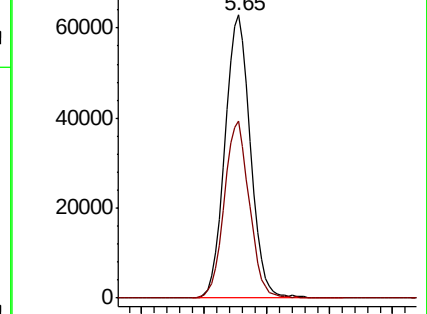
168 100

99 62.5 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.347 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013018.D

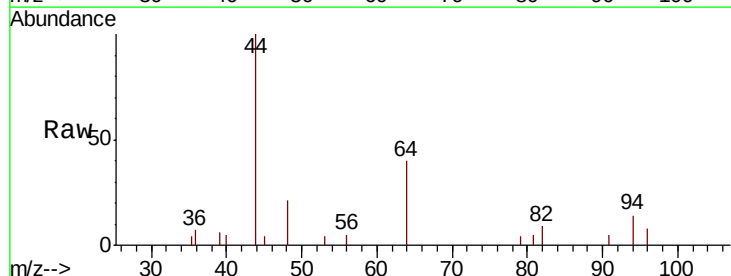
Acq: 11 Oct 2019 15:57

Tgt Ion: 94 Resp: 292

Ion Ratio Lower Upper

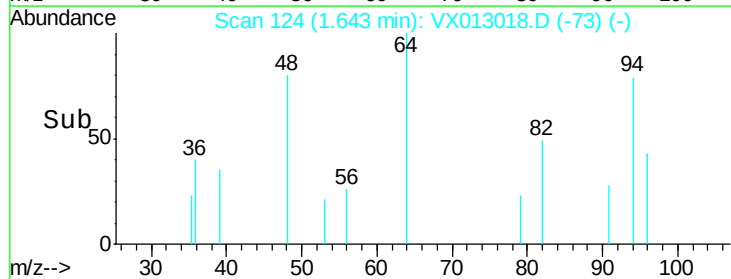
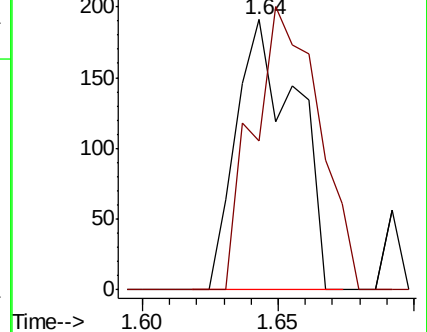
94 100

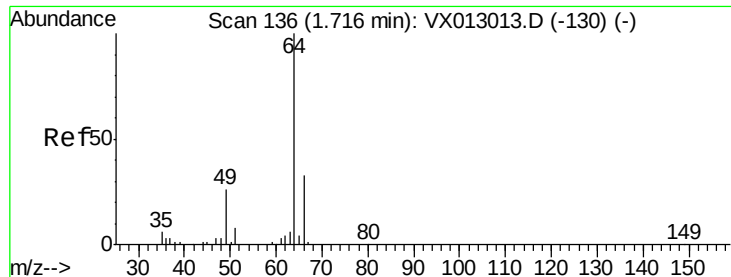
96 55.0 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.693 ug/l

RT: 1.66 min Scan# 127

Delta R.T. -0.05 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

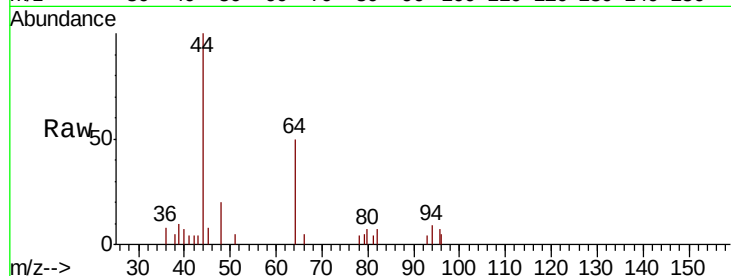
20190883-FIELD-BLANK

Tot Ion: 64 Resp: 405

Ion Ratio Lower Upper

64 100

66 20.8 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.66

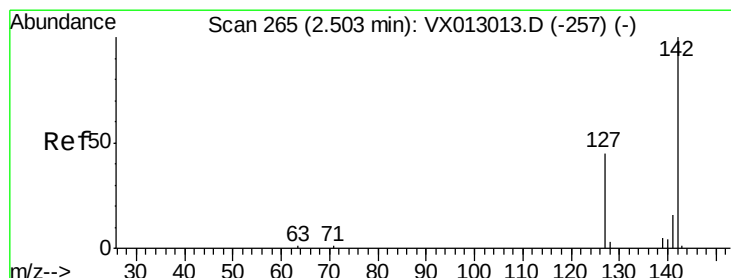
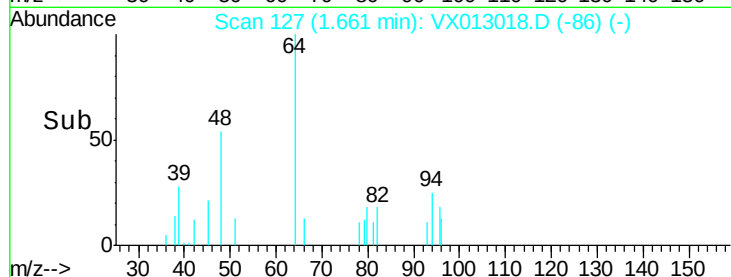
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 5.199 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

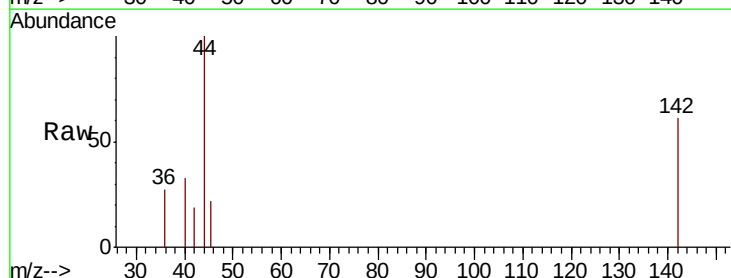
Tgt Ion: 142 Resp: 261

Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

141 0.0 11.6 17.4#



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

250

200

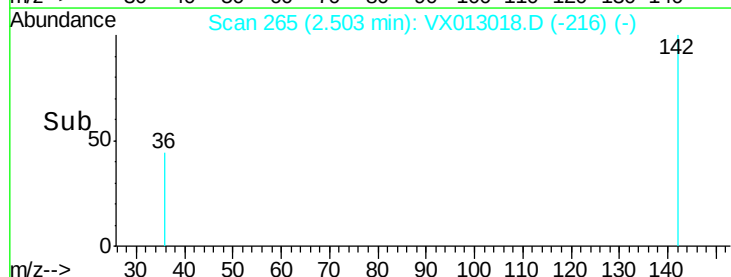
150

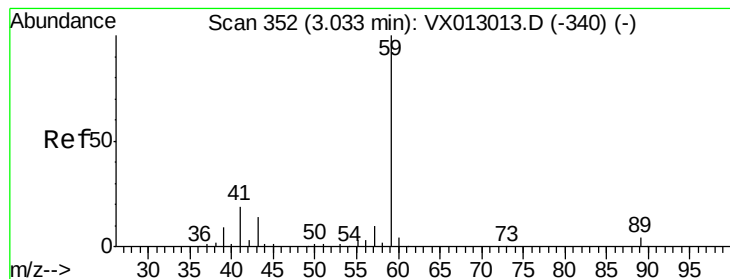
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 1.279 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

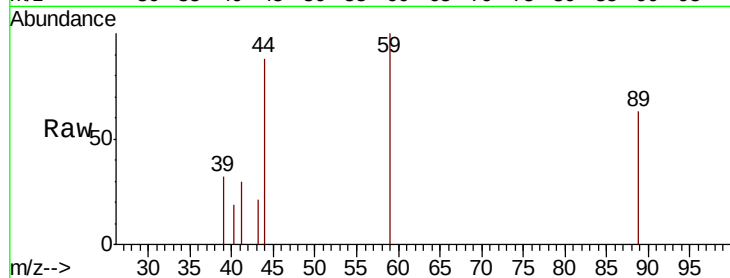
20190883-FIELD-BLANK

Tot Ion: 59 Resp: 749

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

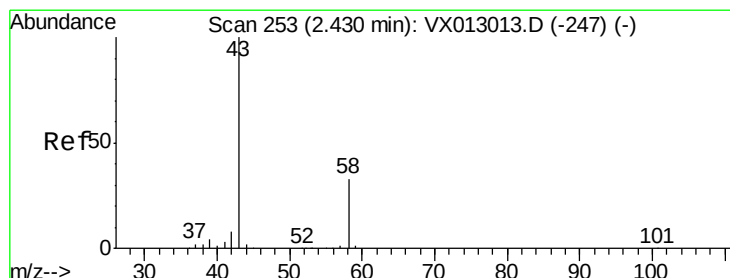
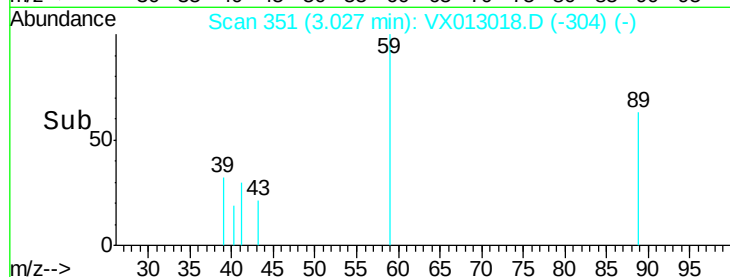
300

200

100

0

Time--> 2.95 3.00 3.05



#16

Acetone

Concen: 8.112 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013018.D

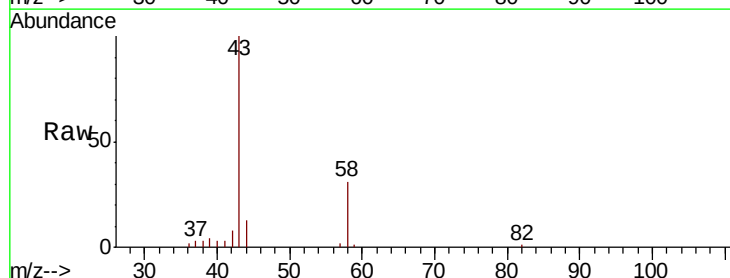
Acq: 11 Oct 2019 15:57

Tgt Ion: 43 Resp: 9445

Ion Ratio Lower Upper

43 100

58 30.5 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

6000

5000

4000

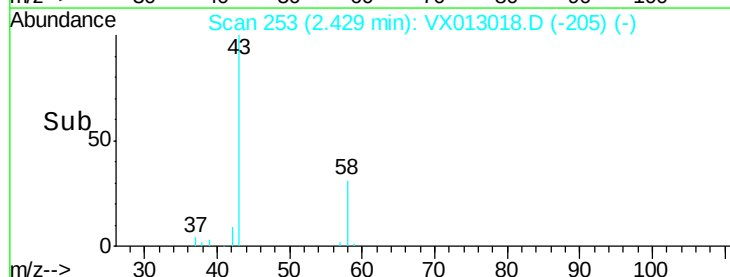
3000

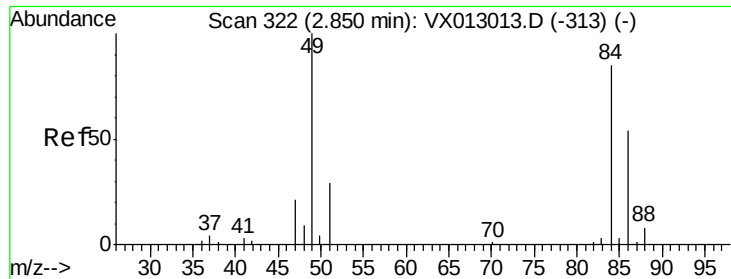
2000

1000

0

Time--> 2.35 2.40 2.45 2.50

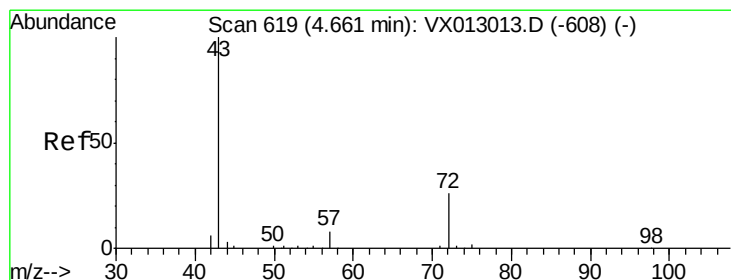
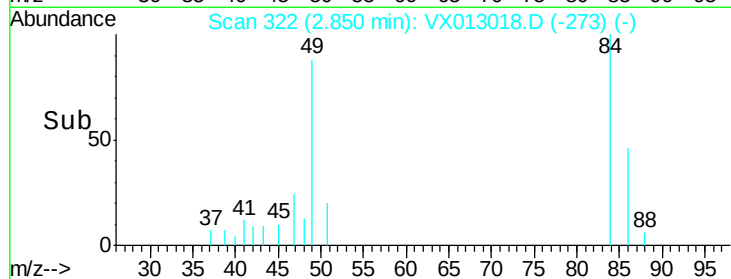
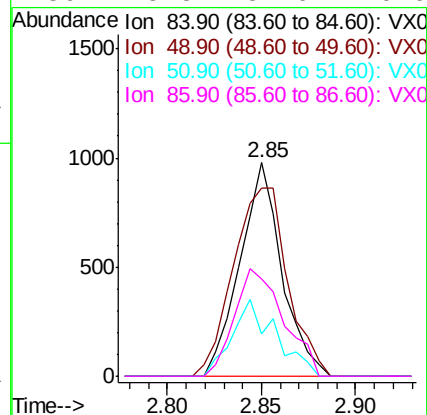
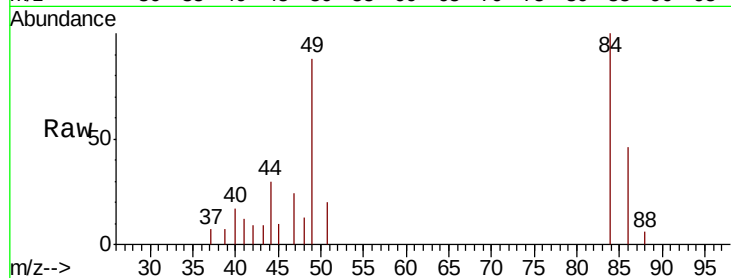




#20
Methvlene Chloride
Concen: 0.704 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013018.D
Acq: 11 Oct 2019 15:57

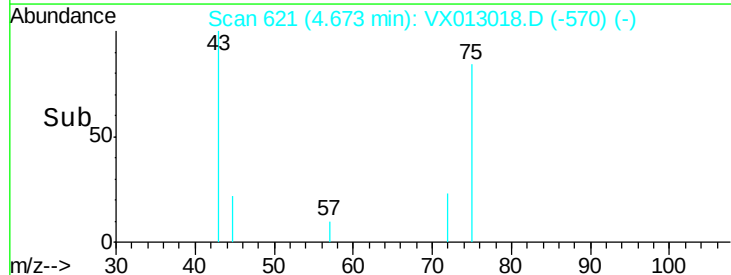
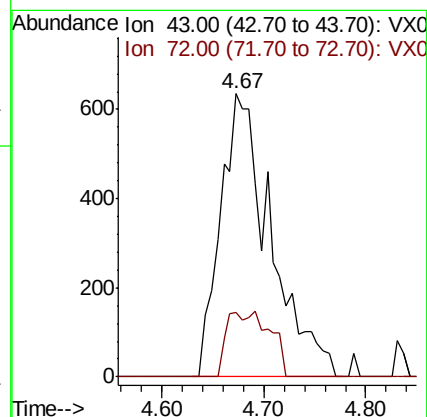
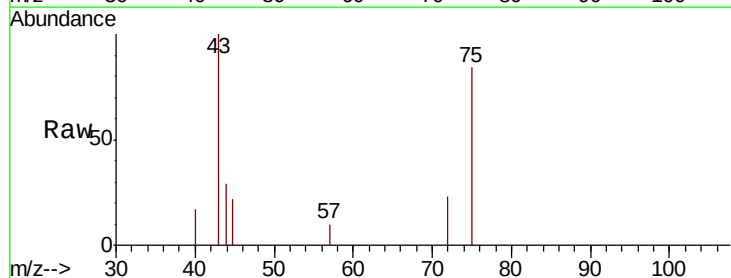
Instrument :
MSVOA_X
ClientSampleId :
20190883-FIELD-BLANK

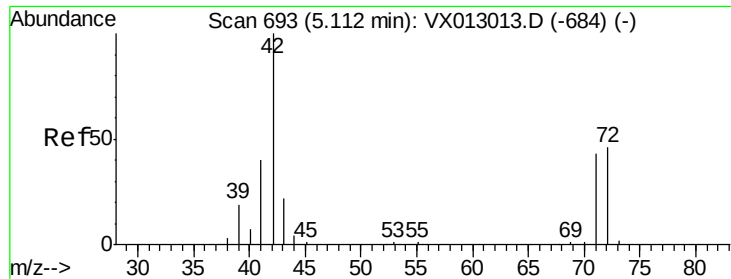
Tot Ion: 84 Resp: 1507
Ion Ratio Lower Upper
84 100
49 88.0 96.6 144.8#
51 19.8 30.7 46.1#
86 45.8 51.0 76.6#



#25
2-Butanone
Concen: 1.338 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX013018.D
Acq: 11 Oct 2019 15:57

Tgt Ion: 43 Resp: 2162
Ion Ratio Lower Upper
43 100
72 22.8 21.0 31.6





#29

Tetrahydrofuran

Concen: 1.974 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.02 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

20190883-FIELD-BLANK

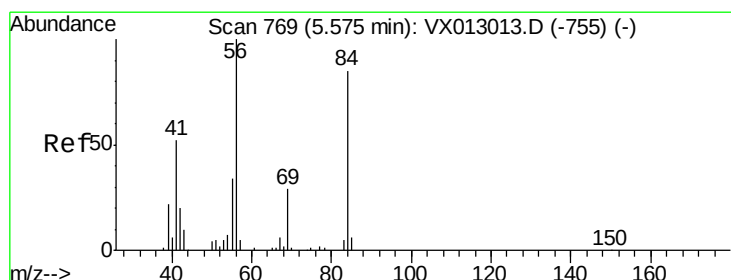
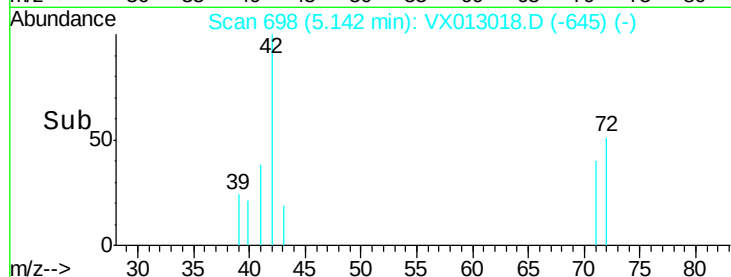
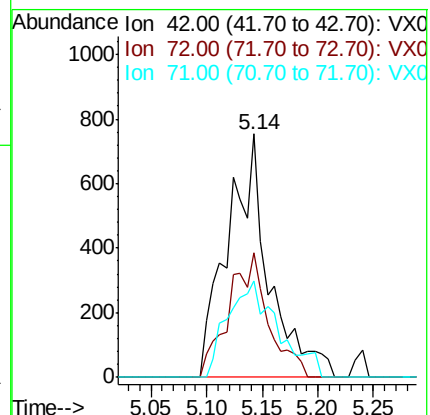
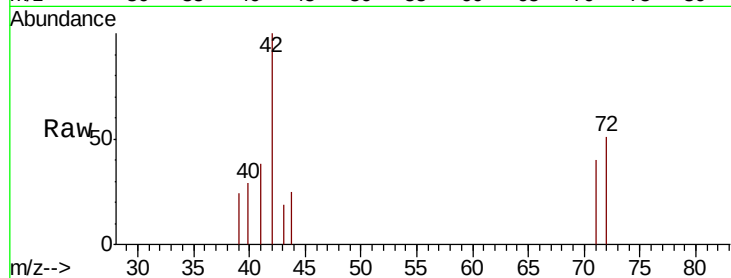
Tot Ion: 42 Resp: 1962

Ion Ratio Lower Upper

42 100

72 48.5 36.9 55.3

71 47.5 33.5 50.3



#31

Cyclohexane

Concen: 1.151 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

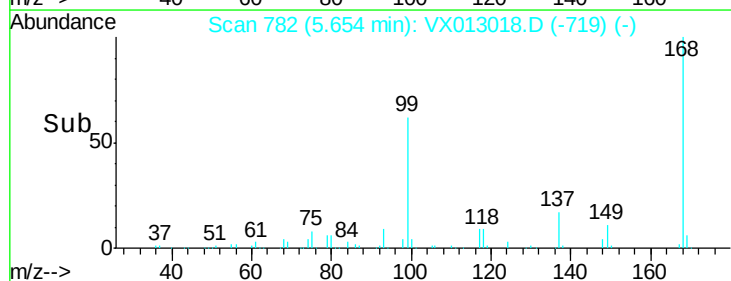
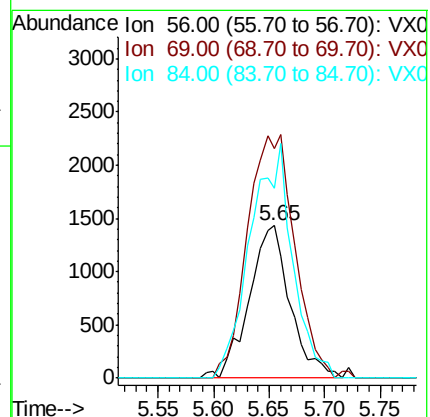
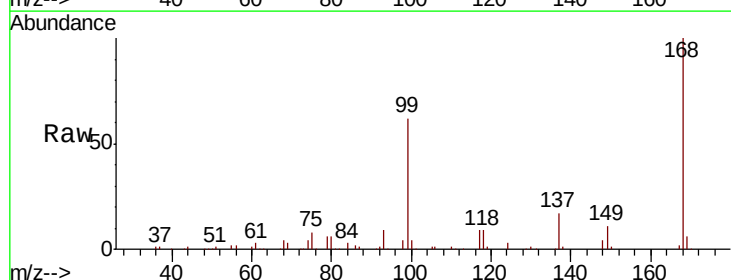
Tgt Ion: 56 Resp: 3689

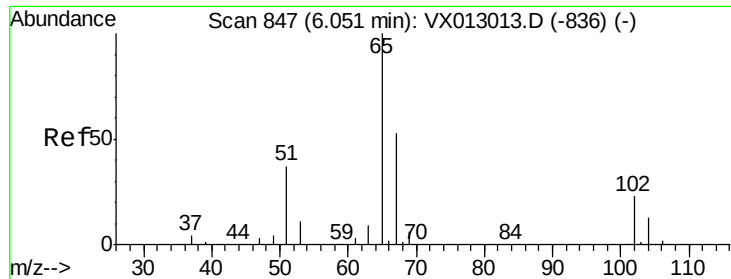
Ion Ratio Lower Upper

56 100

69 151.0 25.2 37.8#

84 124.9 71.3 106.9#

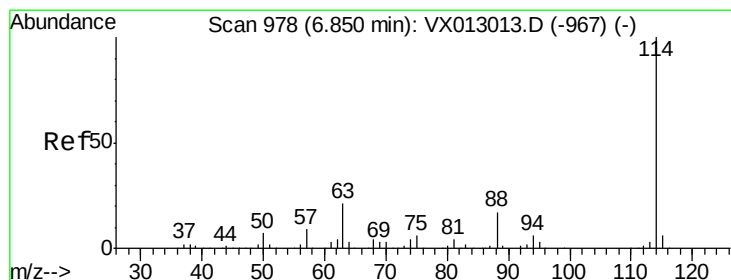
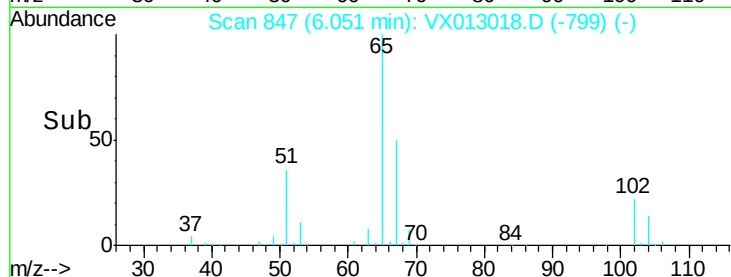
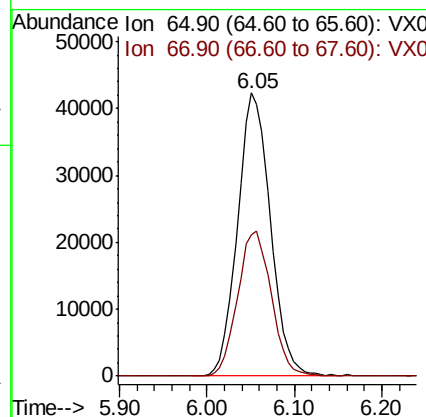
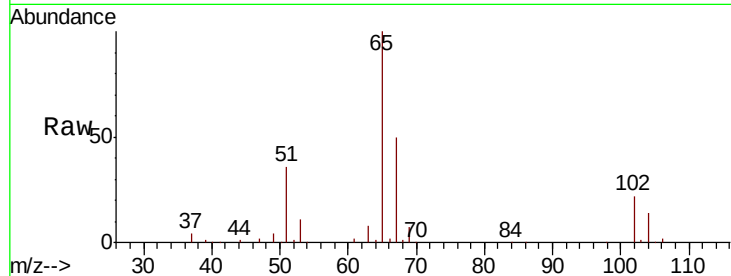




#33
 1,2-Dichloroethane-d4
 Concen: 50.017 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013018.D
 Acq: 11 Oct 2019 15:57

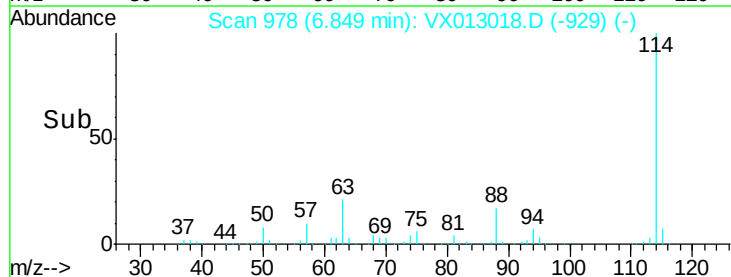
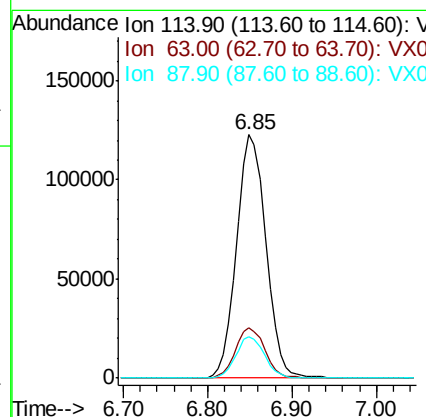
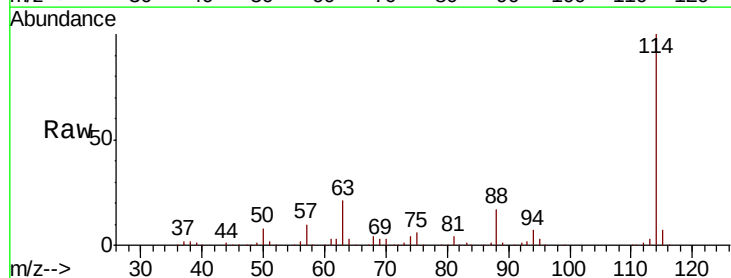
Instrument :
 MSVOA_X
 ClientSampleId :
 20190883-FIELD-BLANK

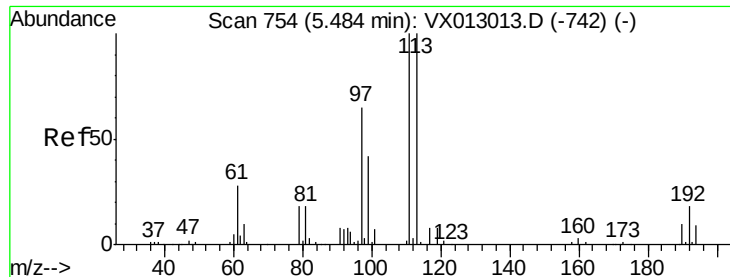
Tot Ion: 65 Resp: 110477
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013018.D
 Acq: 11 Oct 2019 15:57

Tgt Ion: 114 Resp: 290127
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 17.2 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.832 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

20190883-FIELD-BLANK

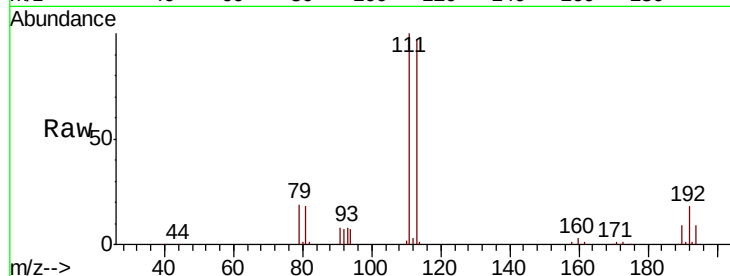
Tot Ion:113 Resp: 84644

Ion Ratio Lower Upper

113 100

111 100.5 83.2 124.8

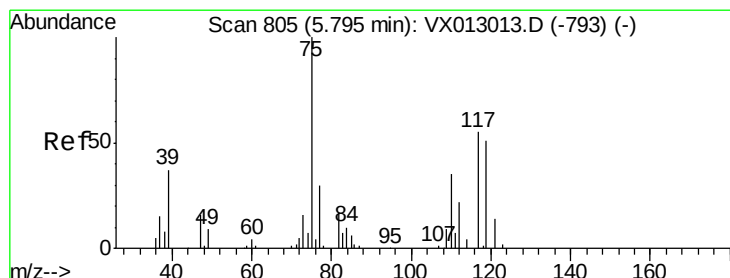
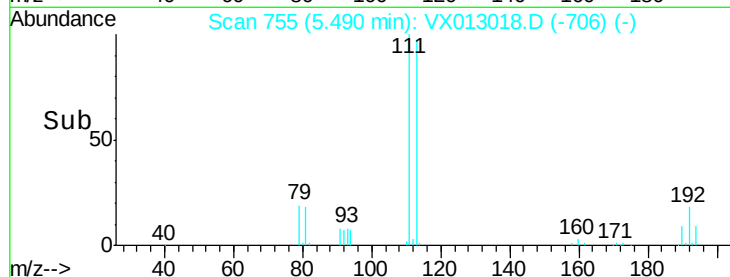
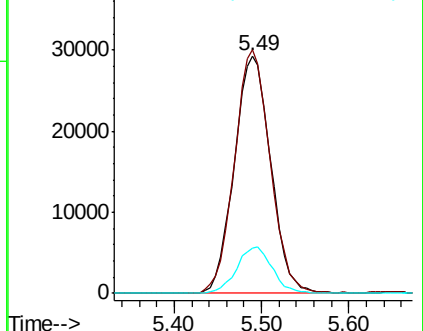
192 19.0 15.4 23.2



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



#36

1,1-Dichloropropene

Concen: 5.345 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

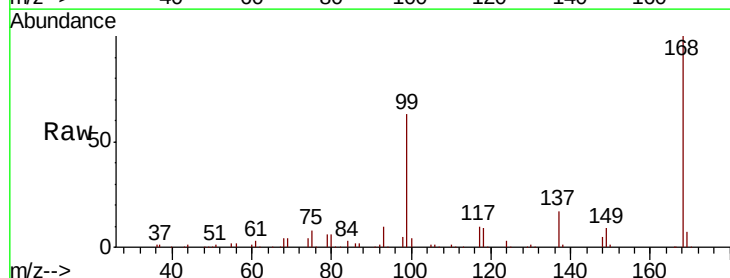
Tgt Ion: 75 Resp: 13634

Ion Ratio Lower Upper

75 100

110 10.0 17.6 52.9#

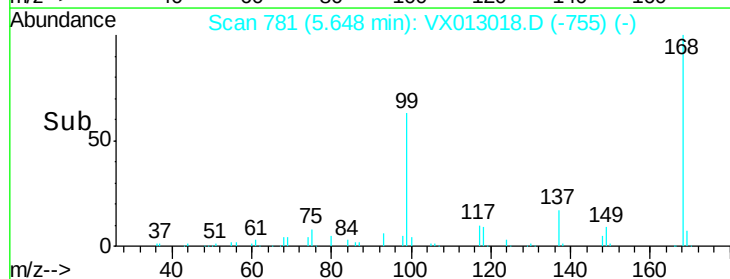
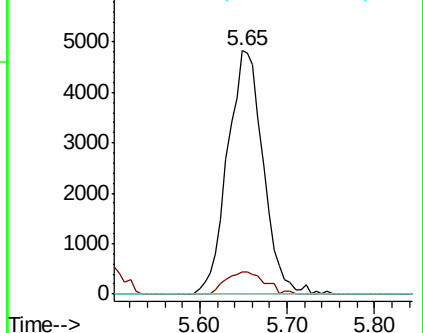
77 0.0 24.4 36.6#

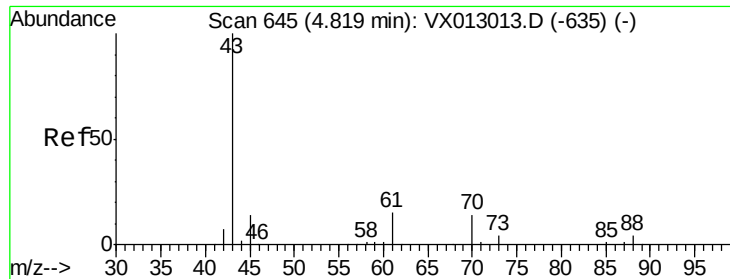


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

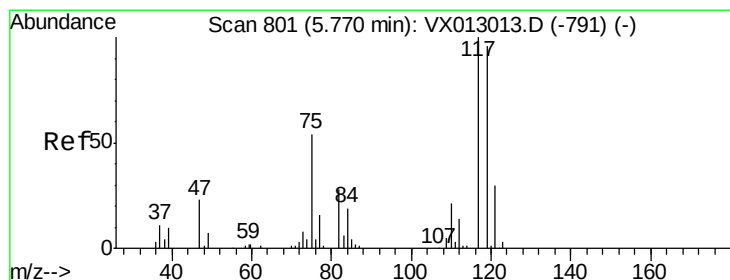
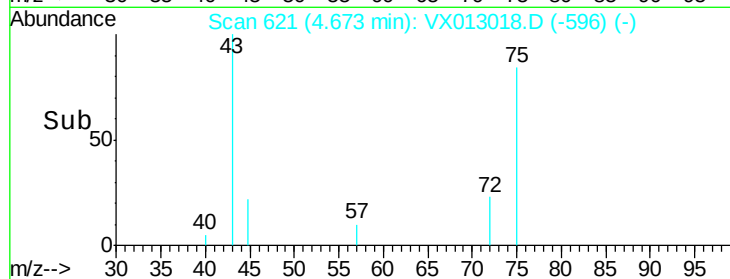
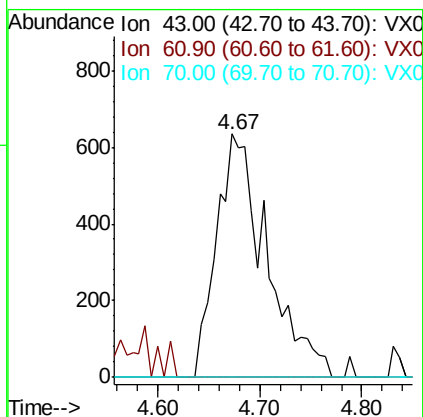
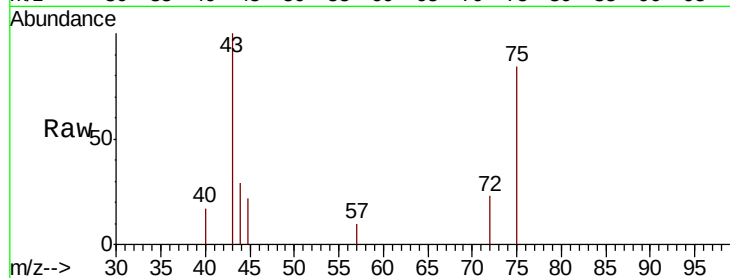




#37
Ethyl Acetate
Concen: 0.758 ug/l
RT: 4.67 min Scan# 621
Delta R.T. -0.15 min
Lab File: VX013018.D
Acq: 11 Oct 2019 15:57

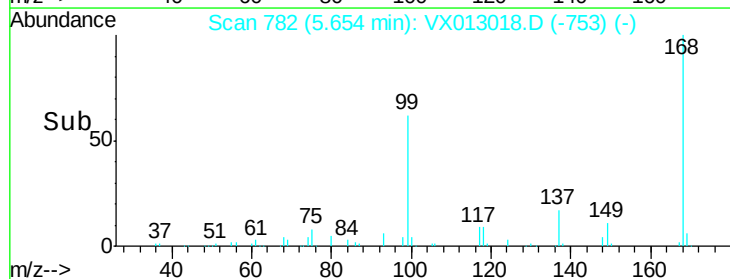
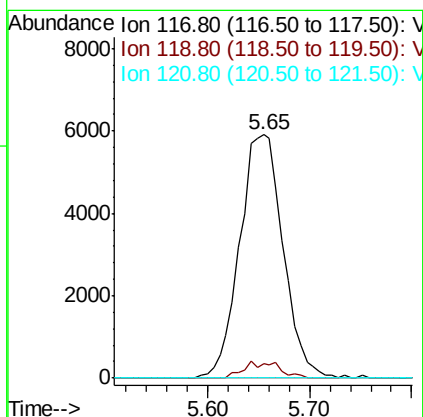
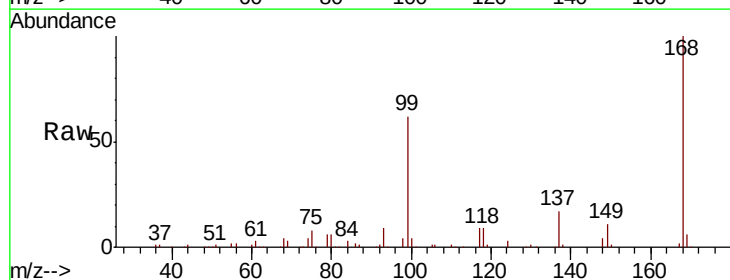
Instrument :
MSVOA_X
ClientSampleId :
20190883-FIELD-BLANK

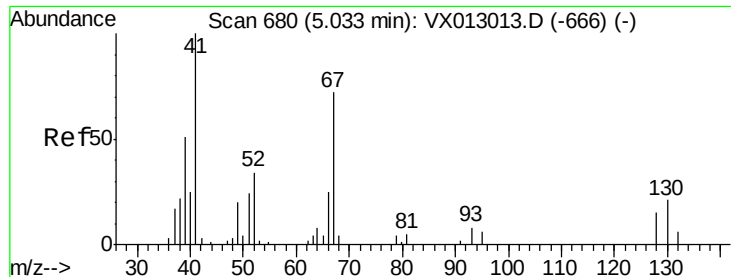
Tot Ion: 43 Resp: 2162
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0#
70 0.0 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 7.025 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013018.D
Acq: 11 Oct 2019 15:57

Tgt Ion: 117 Resp: 17442
Ion Ratio Lower Upper
117 100
119 5.7 74.5 111.7#
121 0.0 24.2 36.4#

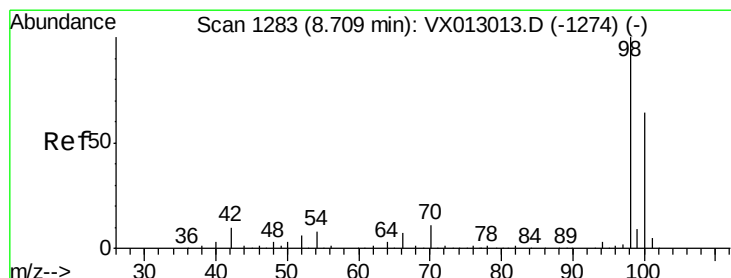
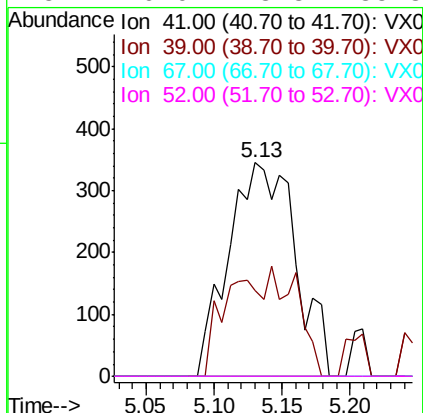
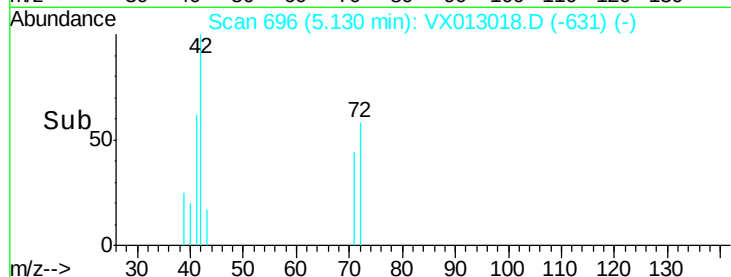
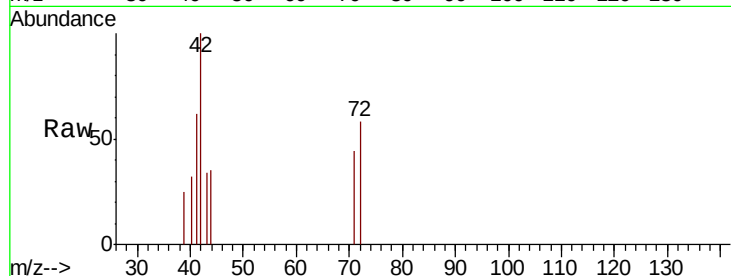




#41
Methacrylonitrile
Concen: 0.758 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.10 min
Lab File: VX013018.D
Acq: 11 Oct 2019 15:57

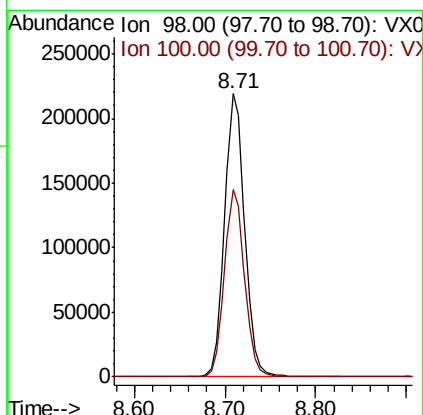
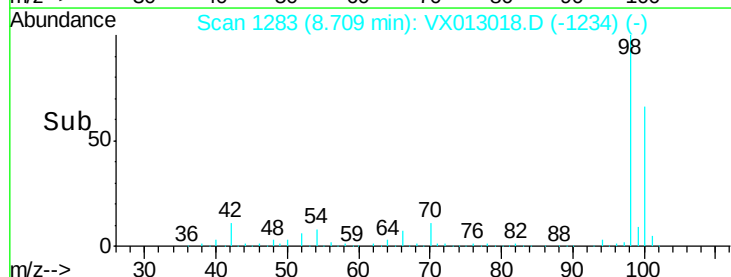
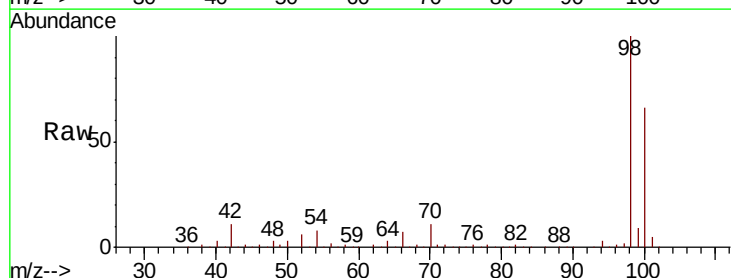
Instrument :
MSVOA_X
ClientSampleId :
20190883-FIELD-BLANK

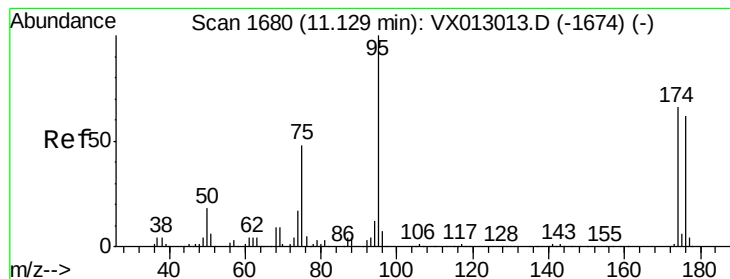
Tot Ion: 41 Resp: 1188
Ion Ratio Lower Upper
41 100
39 28.6 44.0 66.0#
67 0.0 58.5 87.7#
52 0.0 23.8 35.8#



#50
Toluene-d8
Concen: 52.118 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013018.D
Acq: 11 Oct 2019 15:57

Tgt Ion: 98 Resp: 338484
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.2





#62

4-Bromofluorobenzene

Concen: 43.375 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

20190883-FIELD-BLANK

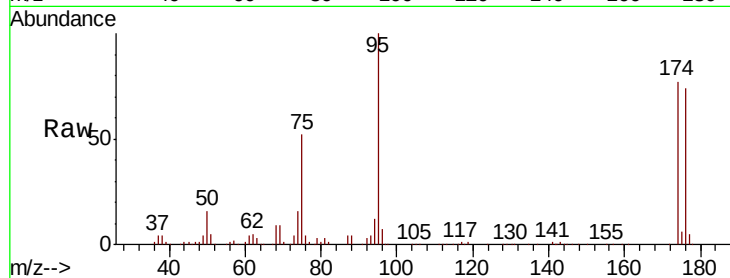
Tot Ion: 95 Resp: 109457

Ion Ratio Lower Upper

95 100

174 72.2 0.0 143.4

176 69.8 0.0 136.0

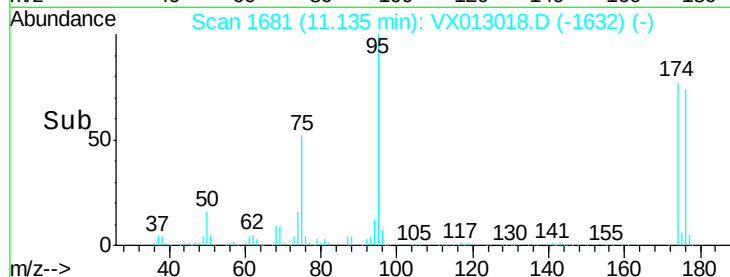


Abundance Ion 94.90 (94.60 to 95.60): VX013013.D (-1674) (-)

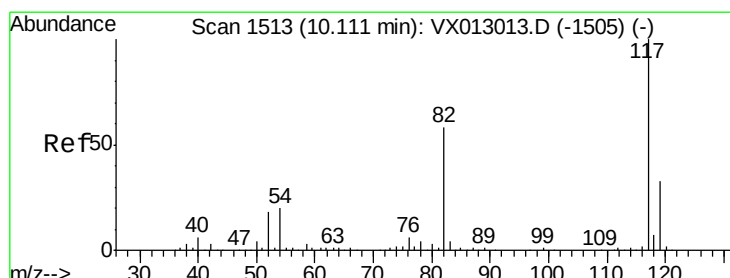
Ion 173.80 (173.50 to 174.50): VX013013.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013013.D (-1674) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

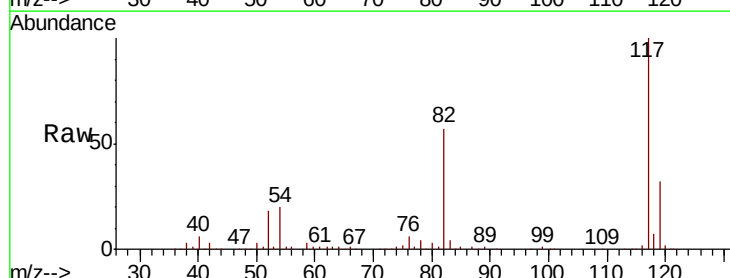
Tgt Ion: 117 Resp: 240970

Ion Ratio Lower Upper

117 100

82 57.3 44.1 66.1

119 32.0 25.8 38.8

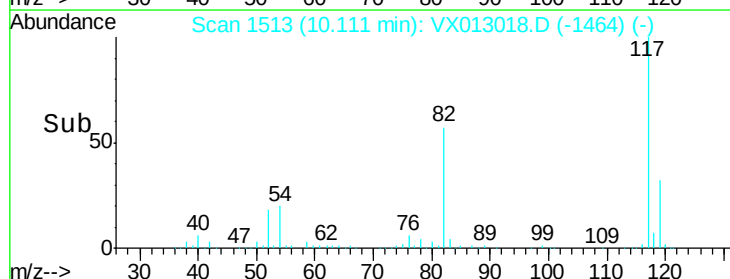


Abundance Ion 116.90 (116.60 to 117.60): VX013013.D (-1505) (-)

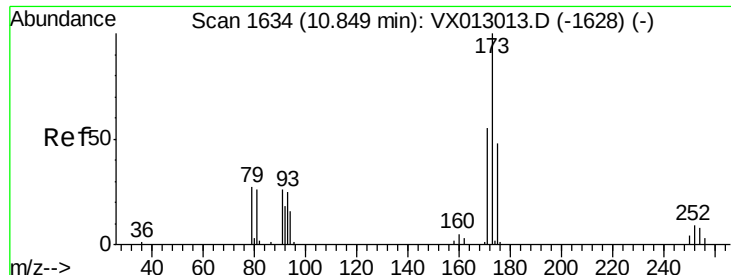
Ion 82.00 (81.70 to 82.70): VX013013.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX013013.D (-1505) (-)

Time-->



Time-->



#71

Bromoform

Concen: 3.153 ug/l

RT: 11.12 min Scan# 1678

Delta R.T. 0.26 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument:

MSVOA_X

ClientSampleId:

20190883-FIELD-BLANK

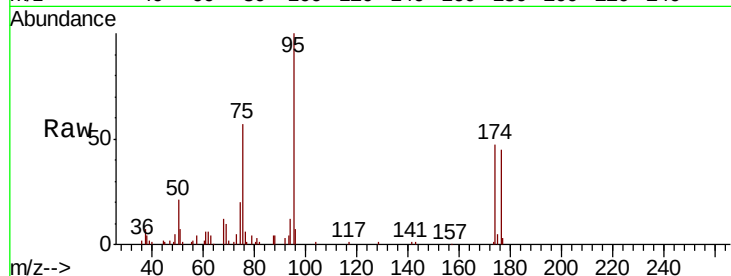
Tot Ion:173 Resp: 31

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

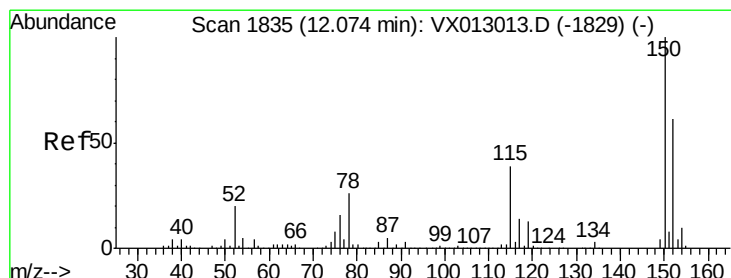
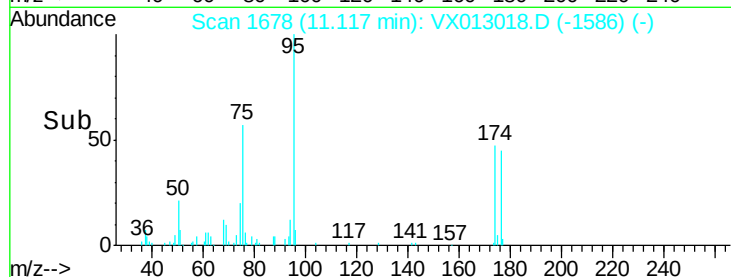
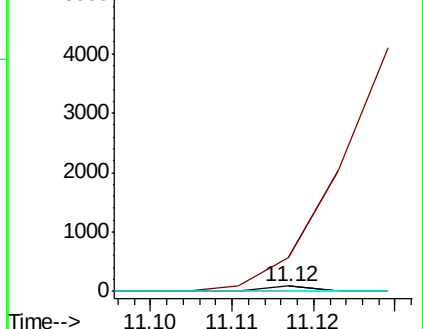
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

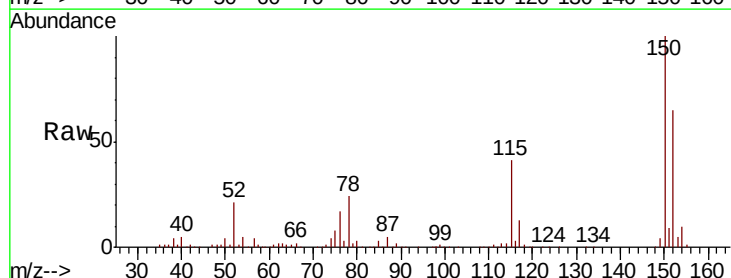
Tgt Ion:152 Resp: 91767

Ion Ratio Lower Upper

152 100

115 64.0 44.5 133.5

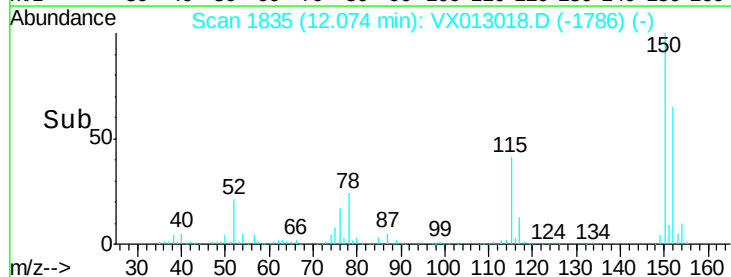
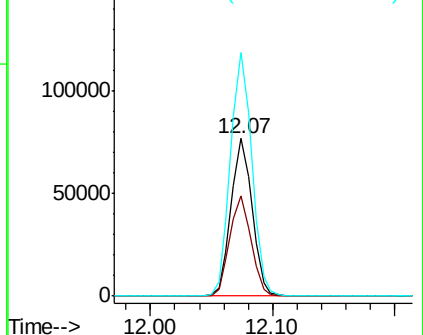
150 156.2 0.0 353.4

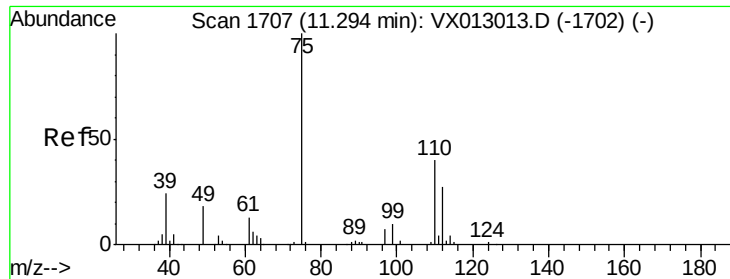


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.556 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

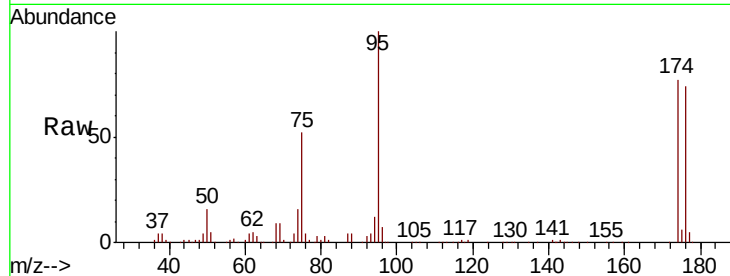
20190883-FIELD-BLANK

Tot Ion: 75 Resp: 56088

Ion Ratio Lower Upper

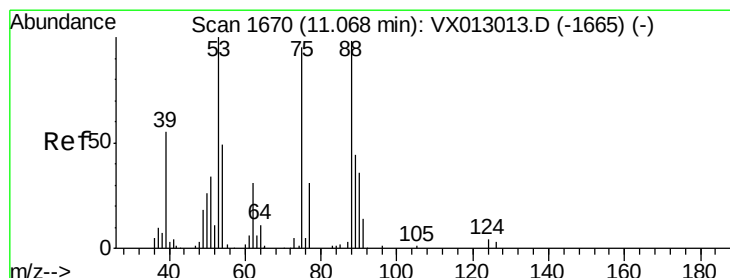
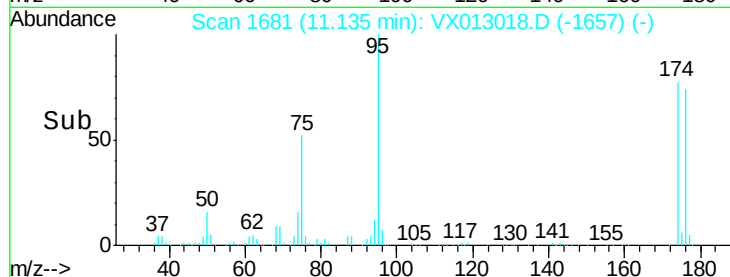
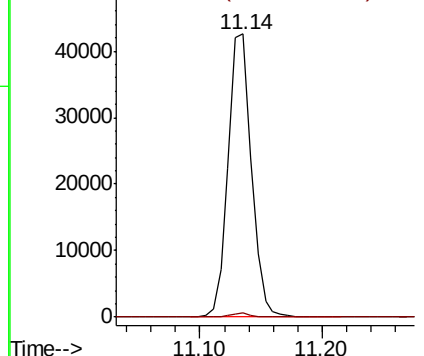
75 100

77 1.3 22.9 68.8#



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: 69.157 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013018.D

Acq: 11 Oct 2019 15:57

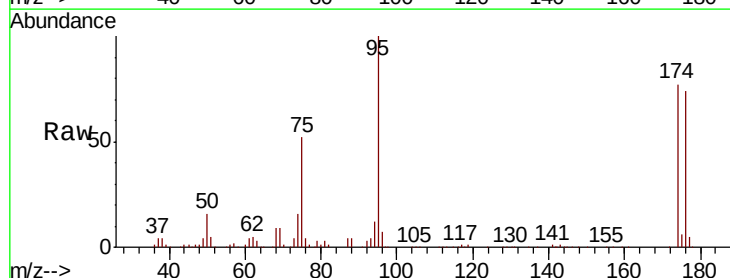
Tgt Ion: 75 Resp: 56088

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

