

Data File : VX001607.D

Acq On : 10 May 2018 17:40

Operator : JC/MD

Sample : J2738-04 5X

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR4-0518

Quant Time: May 11 06:57:43 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M

Quant Title : SW846 8260

QLast Update : Sun May 06 07:59:25 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	230545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	313267	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	276644	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150668	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	191399	57.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.52%	
35) Dibromofluoromethane	5.51	113	151476	54.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.72%	
50) Toluene-d8	8.72	98	526566	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
62) 4-Bromofluorobenzene	11.14	95	172948	44.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.58%	

Target Compounds

						Qvalue
5) Bromomethane	1.66	94	1042	Below Cal		91
10) Methyl Iodide	2.52	142	1654	0.41 ug/l		97
11) Tert butyl alcohol	3.07	59	665	0.95 ug/l	#	86
13) Acrolein	2.31	56	62	Below Cal	#	16
16) Acetone	2.45	43	5967	3.97 ug/l		94
18) Methyl Acetate	2.79	43	6911	1.75 ug/l		100
20) Methylene Chloride	2.85	84	4775	1.60 ug/l		88
25) 2-Butanone	4.73	43	1956	0.90 ug/l	#	88
29) Tetrahydrofuran	5.17	42	841	0.60 ug/l	#	58
36) 1,1-Dichloropropene	5.67	75	14509	3.64 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	20281	4.77 ug/l	#	16
44) Trichloroethene	7.22	130	10181	2.86 ug/l		93
67) Ethyl Benzene	10.26	91	3381	0.25 ug/l		99
68) m/p-Xylenes	10.36	106	6132	1.17 ug/l		97
69) o-Xylene	10.71	106	3653	0.72 ug/l		95
76) 1,2,3-Trichloropropane	11.14	75	88013	28.80 ug/l	#	38
78) n-propylbenzene	11.37	91	2917	0.26 ug/l		96
79) 2-Chlorotoluene	11.44	91	2066	0.30 ug/l	#	44
80) 1,3,5-Trimethylbenzene	11.51	105	5991	0.69 ug/l		98
81) trans-1,4-Dichloro-2-buten	11.14	75	88013	88.25 ug/l	#	7
84) 1,2,4-Trimethylbenzene	11.81	105	24857	2.79 ug/l		99
89) n-Butylbenzene	12.39	91	1707	0.22 ug/l	#	34
90) Hexachloroethane	12.60	117	514	0.36 ug/l	#	1
95) Naphthalene	13.84	128	90435	8.10 ug/l		99

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

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CB-TCLP-VAR4-0518

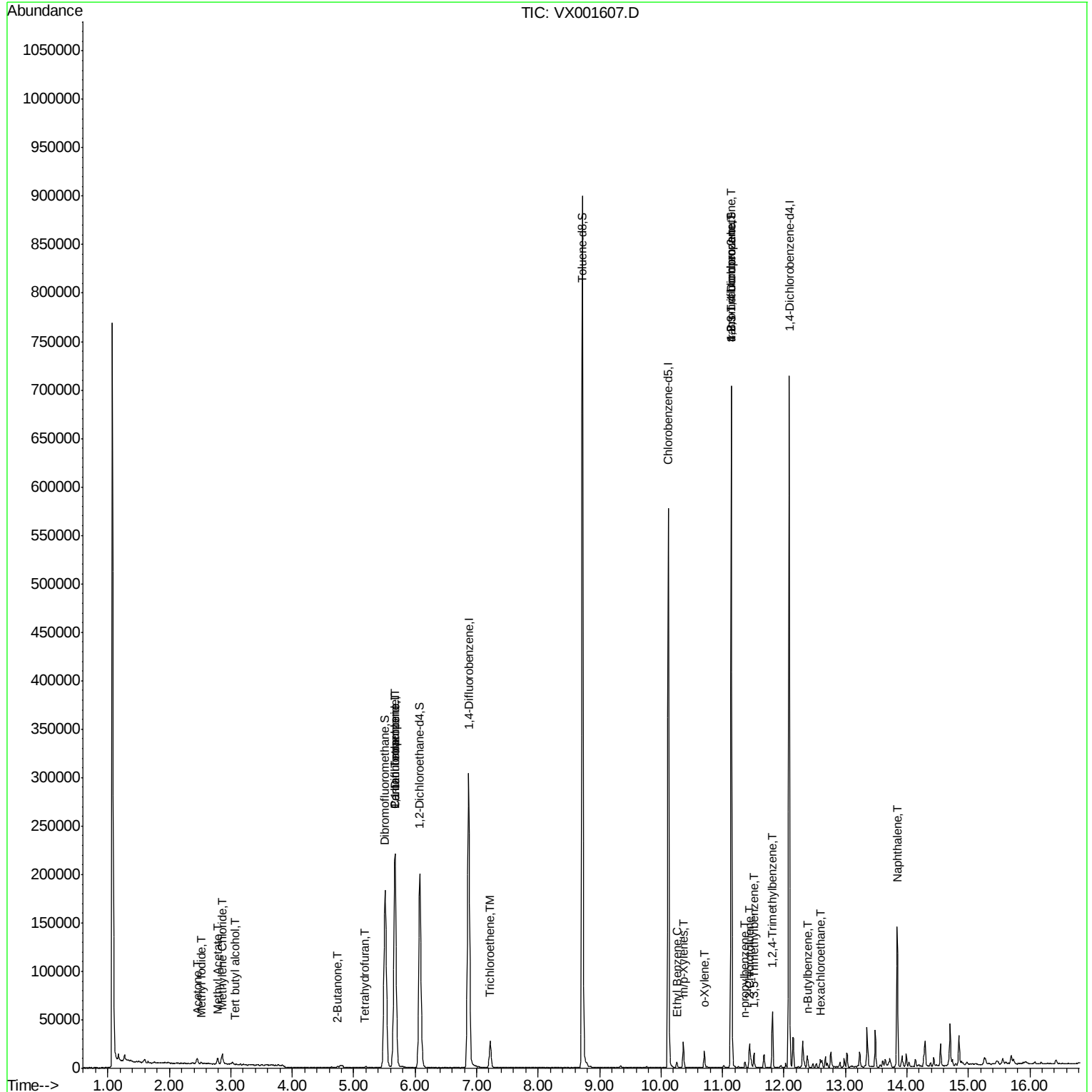
Quant Time: May 11 06:57:43 2018

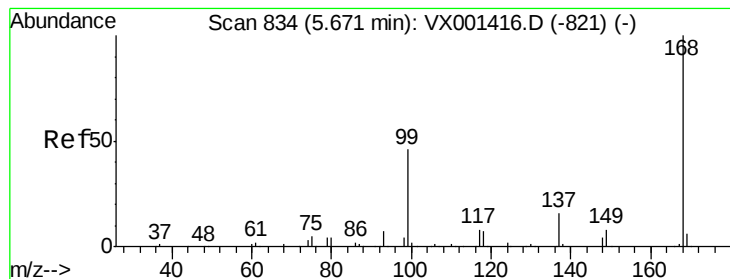
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M

Quant Title : SW846 8260

QLast Update : Sun May 06 07:59:25 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

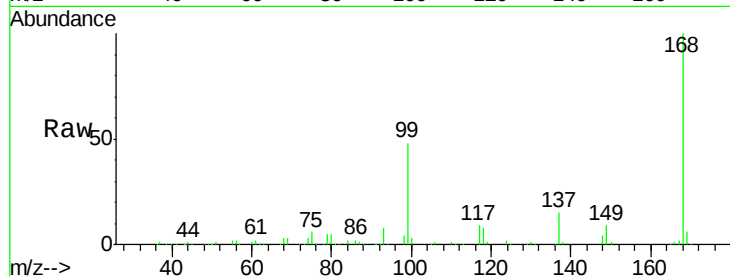
CB-TCLP-VAR4-0518

Tgt Ion:168 Resp: 230545

Ion Ratio Lower Upper

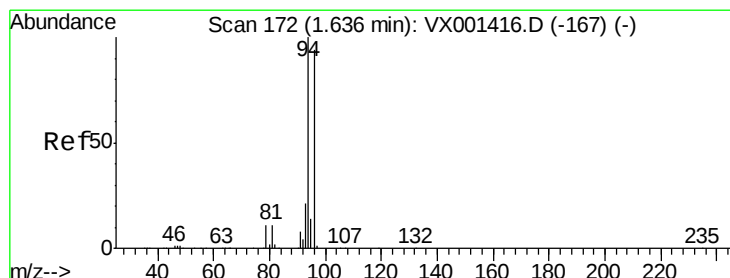
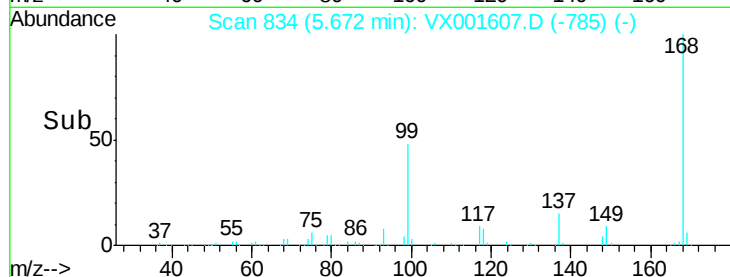
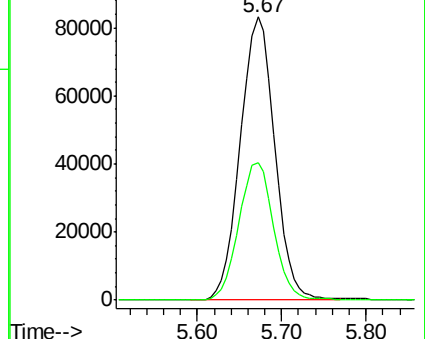
168 100

99 48.4 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001607.D

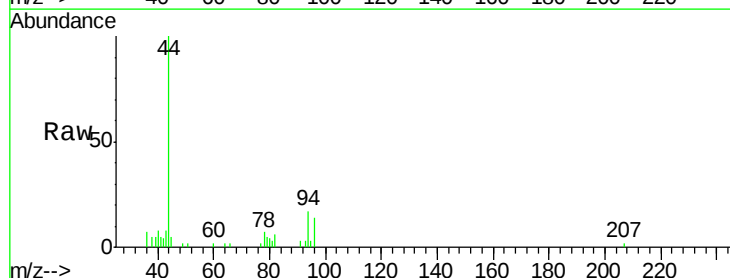
Acq: 10 May 2018 17:40

Tgt Ion: 94 Resp: 1042

Ion Ratio Lower Upper

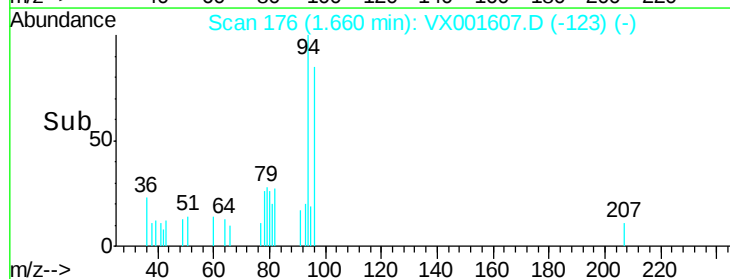
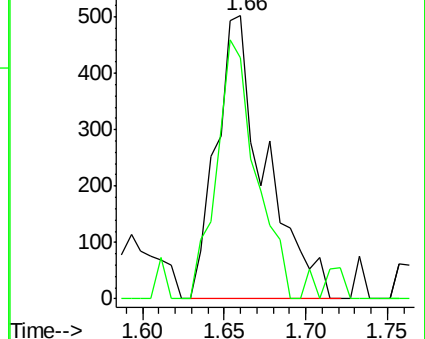
94 100

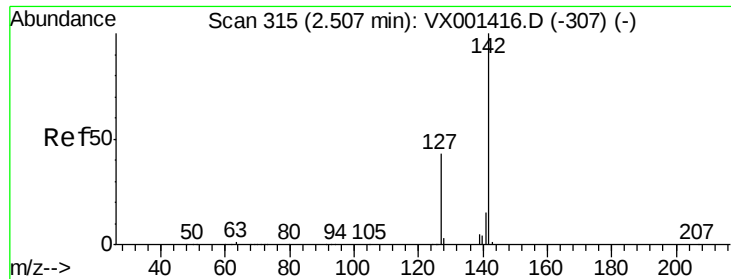
96 85.3 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

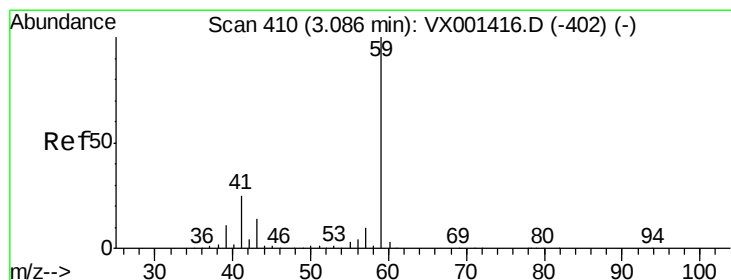
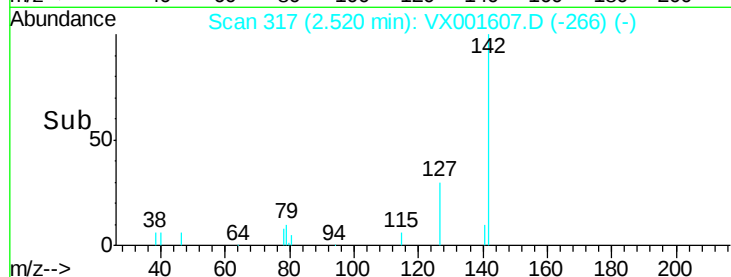
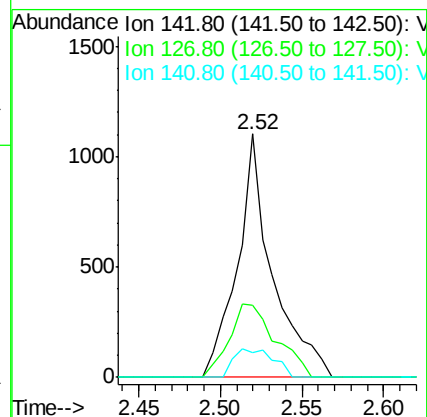
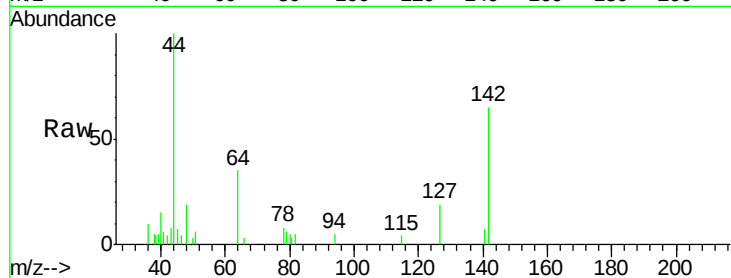




#10
Methyl Iodide
Concen: 0.41 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

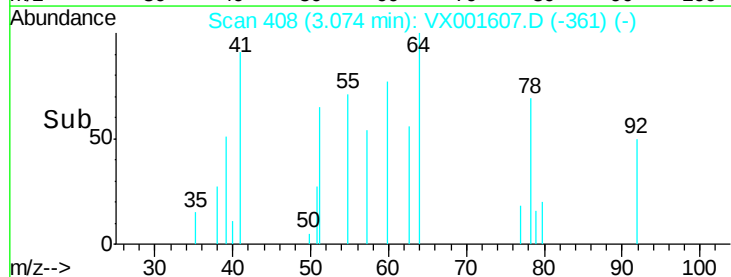
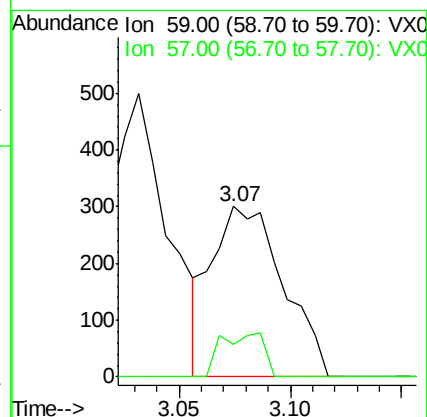
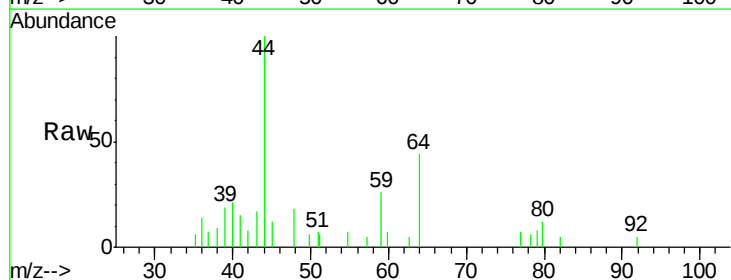
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR4-0518

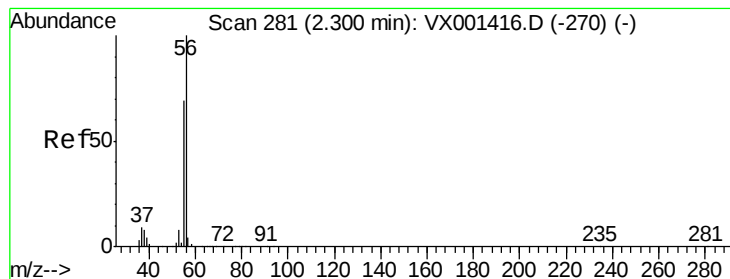
Tgt Ion: 142 Resp: 1654
Ion Ratio Lower Upper
142 100
127 39.8 33.6 50.4
141 13.2 11.4 17.2



#11
Tert butyl alcohol
Concen: 0.95 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

Tgt Ion: 59 Resp: 665
Ion Ratio Lower Upper
59 100
57 15.3 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

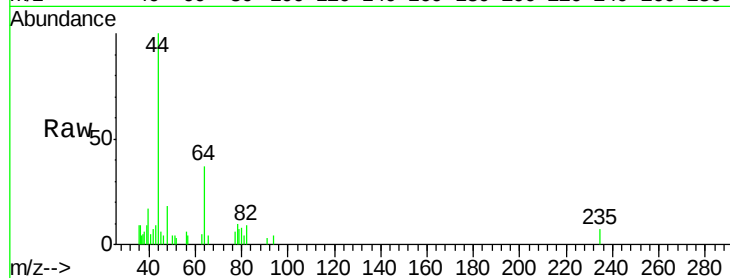
CB-TCLP-VAR4-0518

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 54.5 81.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

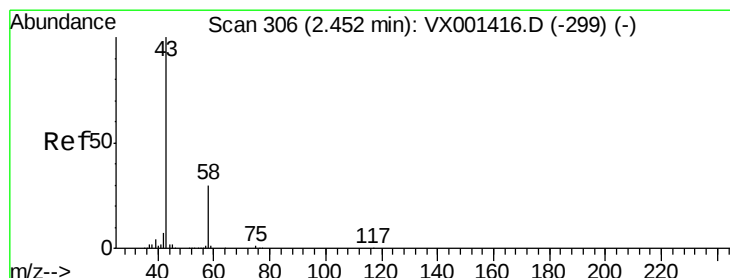
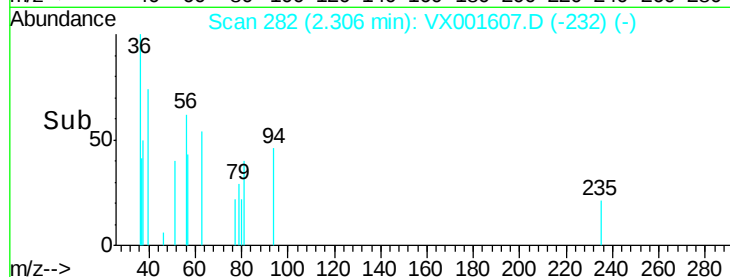
100

50

0

2.29 2.30 2.31 2.32 2.33

Time-->



#16

Acetone

Concen: 3.97 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001607.D

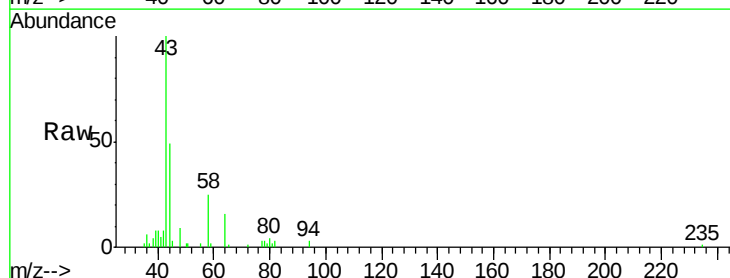
Acq: 10 May 2018 17:40

Tgt Ion: 43 Resp: 5967

Ion Ratio Lower Upper

43 100

58 26.4 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

4000

3000

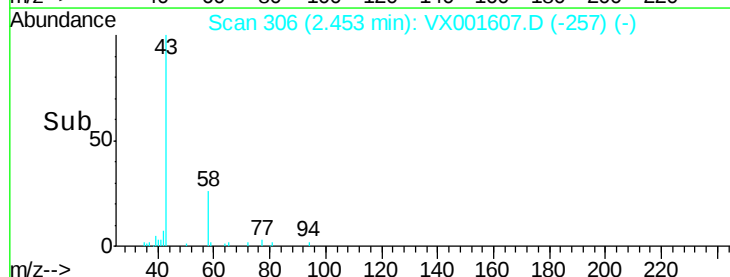
2000

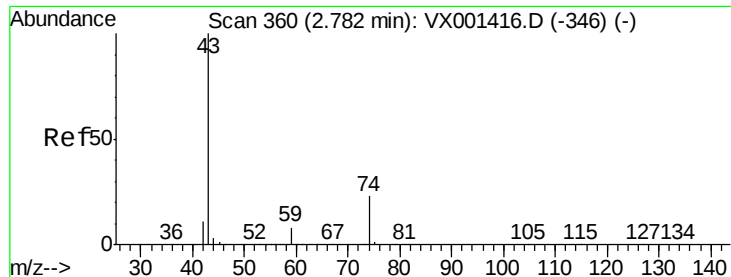
1000

0

2.40 2.45 2.50 2.55

Time-->





#18

Methyl Acetate

Concen: 1.75 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

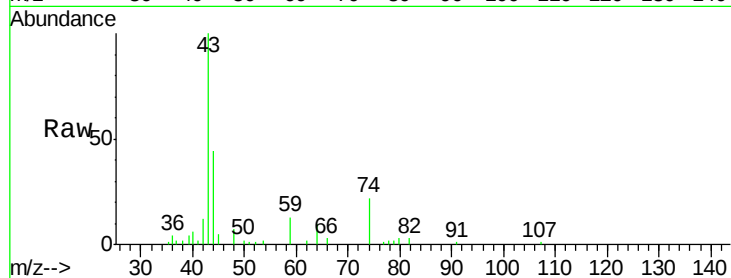
CB-TCLP-VAR4-0518

Tgt Ion: 43 Resp: 6911

Ion Ratio Lower Upper

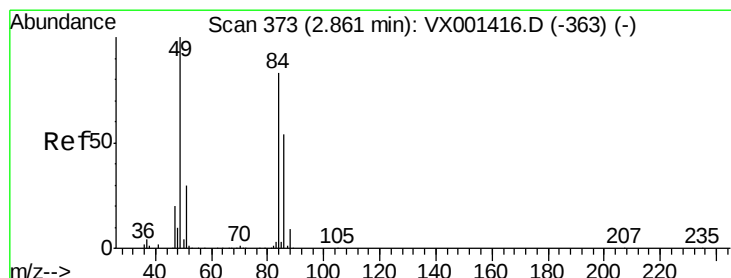
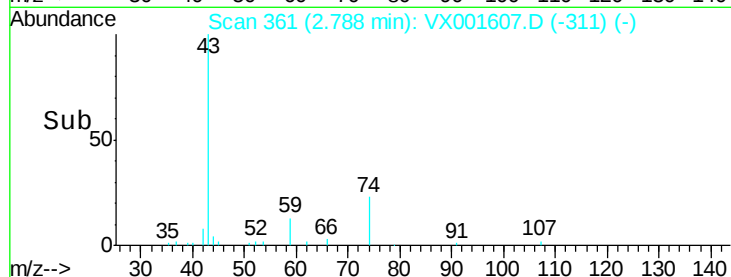
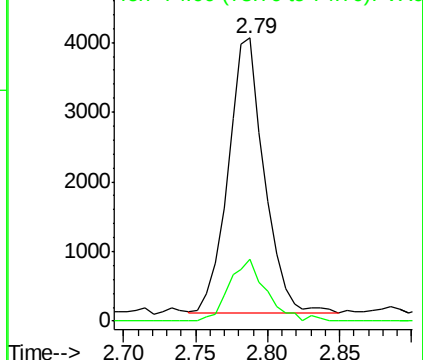
43 100

74 23.2 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 1.60 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Tgt Ion: 84 Resp: 4775

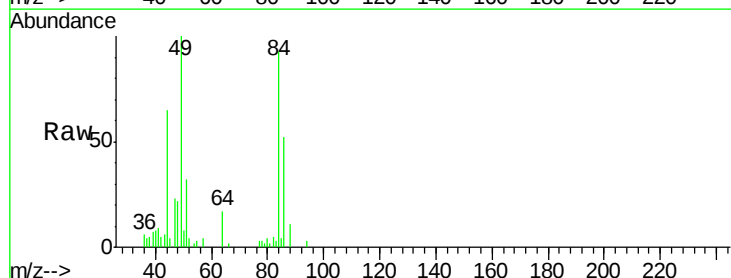
Ion Ratio Lower Upper

84 100

49 104.9 96.6 144.8

51 34.1 29.0 43.4

86 55.4 52.2 78.4

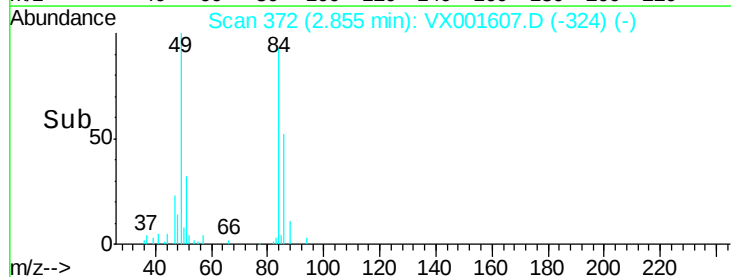
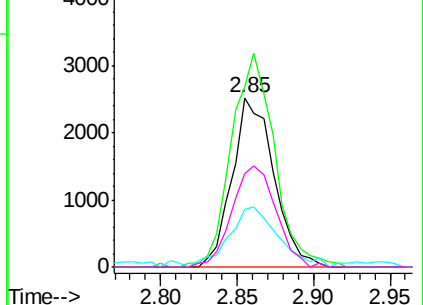


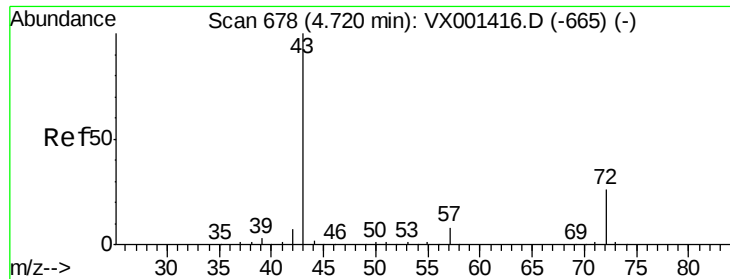
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.90 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

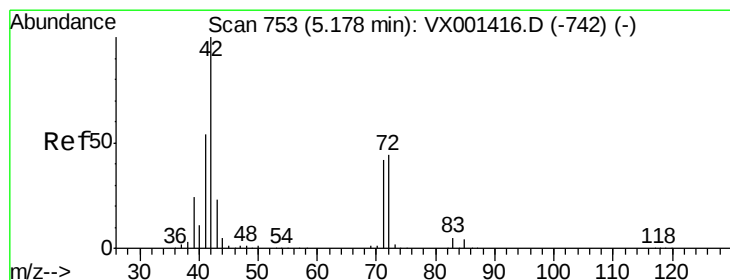
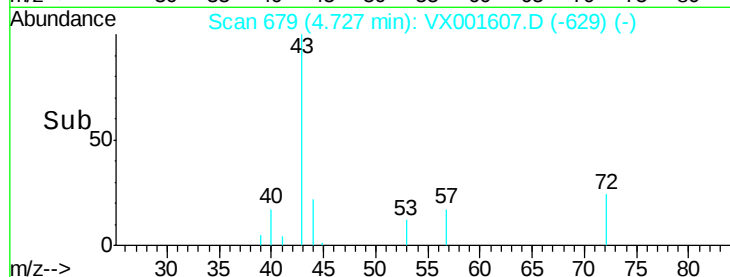
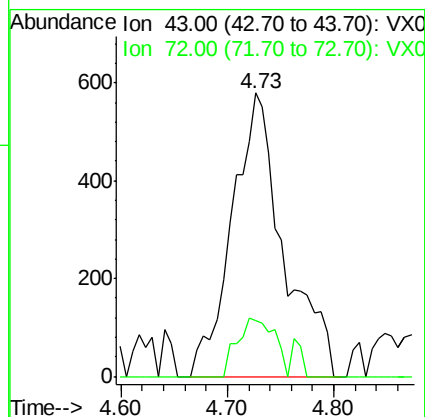
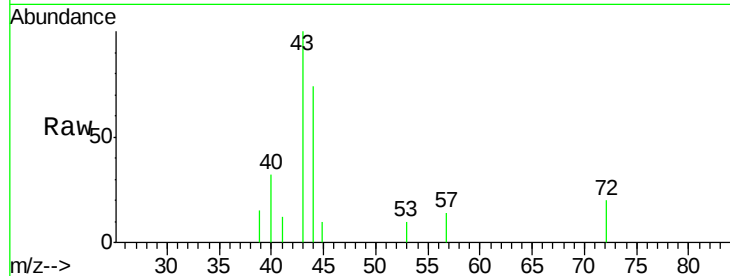
CB-TCLP-VAR4-0518

Tgt Ion: 43 Resp: 1956

Ion Ratio Lower Upper

43 100

72 19.9 20.7 31.1#



#29

Tetrahydrofuran

Concen: 0.60 ug/l

RT: 5.17 min Scan# 752

Delta R.T. -0.01 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

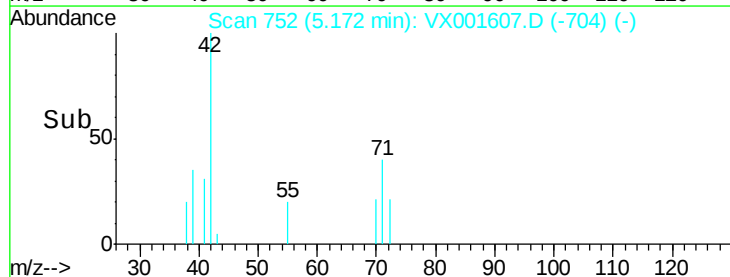
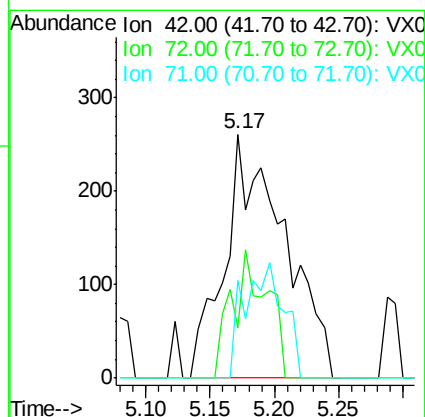
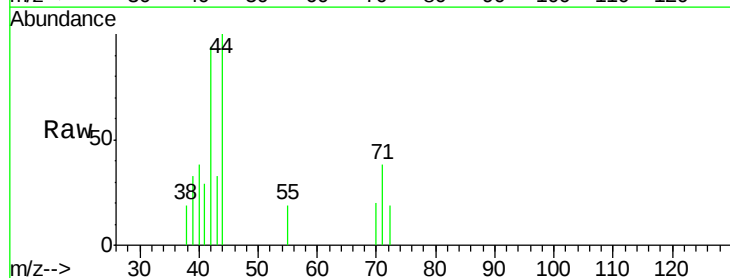
Tgt Ion: 42 Resp: 841

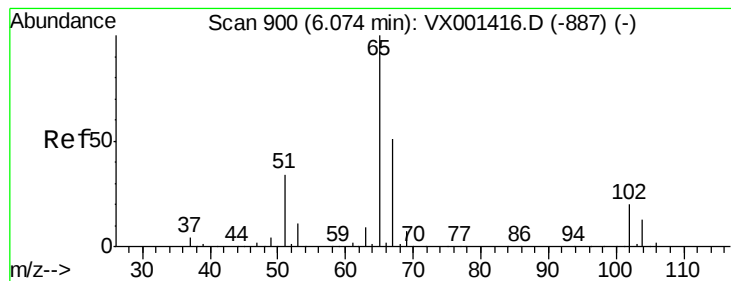
Ion Ratio Lower Upper

42 100

72 31.0 35.4 53.2#

71 0.0 33.0 49.4#





#33

1,2-Dichloroethane-d4

Concen: 57.76 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

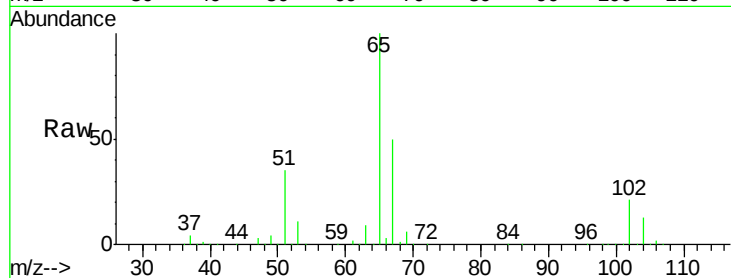
CB-TCLP-VAR4-0518

Tgt Ion: 65 Resp: 191399

Ion Ratio Lower Upper

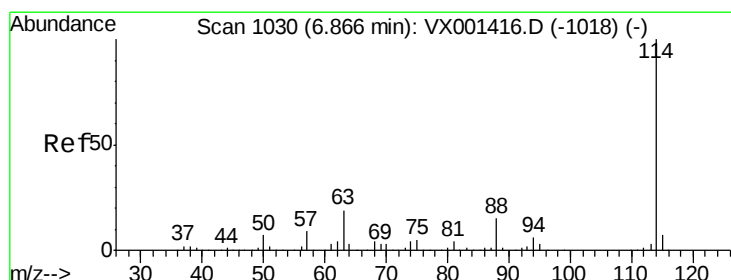
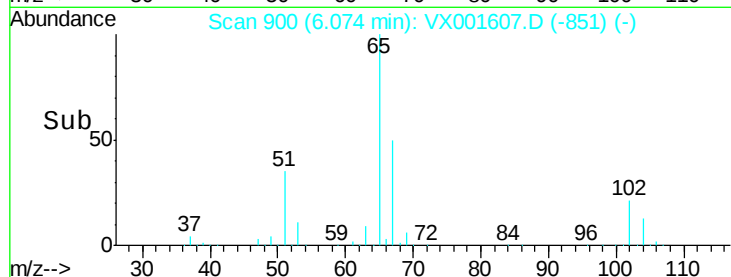
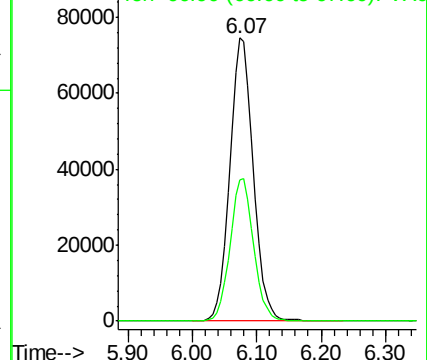
65 100

67 50.4 0.0 101.8



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: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

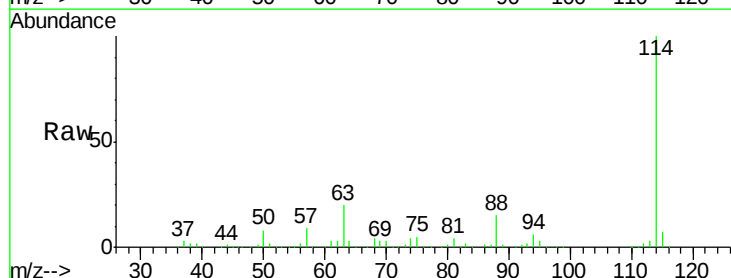
Tgt Ion: 114 Resp: 313267

Ion Ratio Lower Upper

114 100

63 20.2 0.0 38.6

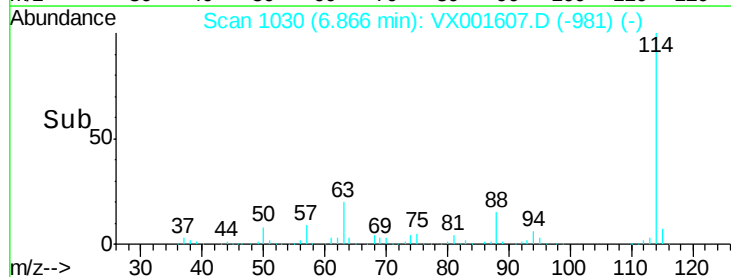
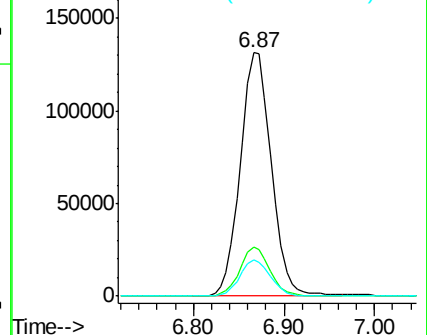
88 14.8 0.0 30.8

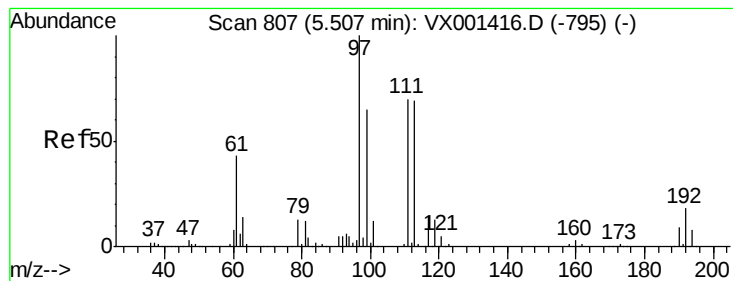


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 54.36 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

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CB-TCLP-VAR4-0518

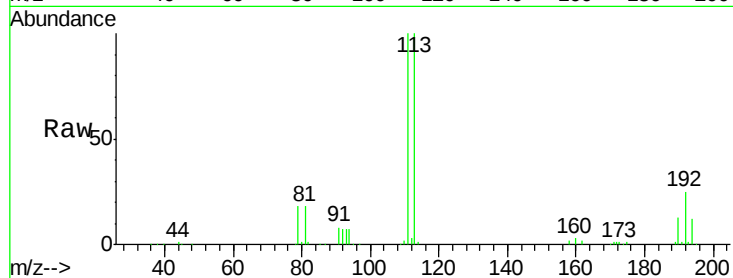
Tgt Ion:113 Resp: 151476

Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.2

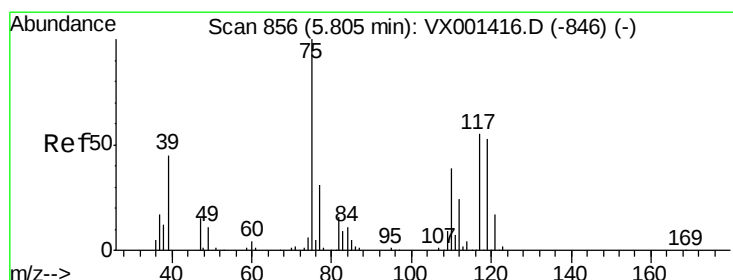
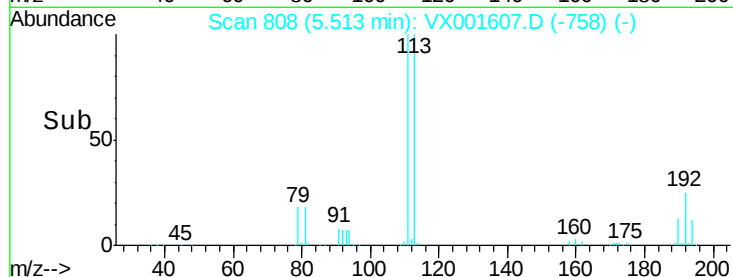
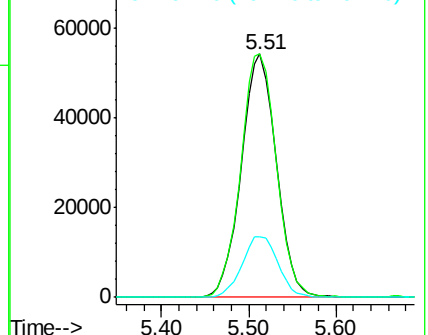
192 25.9 21.4 32.0



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: 3.64 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

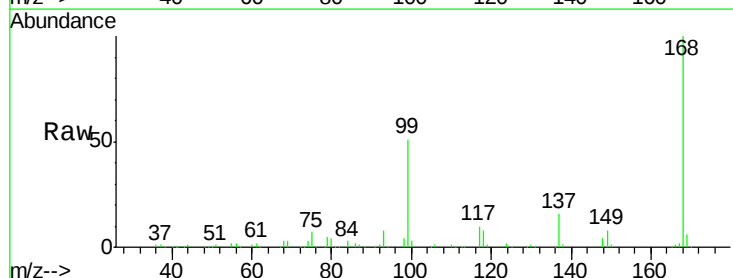
Tgt Ion: 75 Resp: 14509

Ion Ratio Lower Upper

75 100

110 10.9 18.9 56.7#

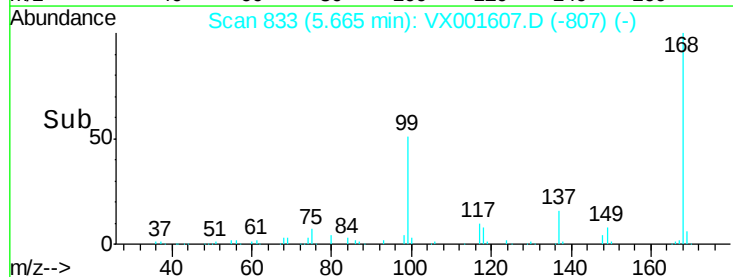
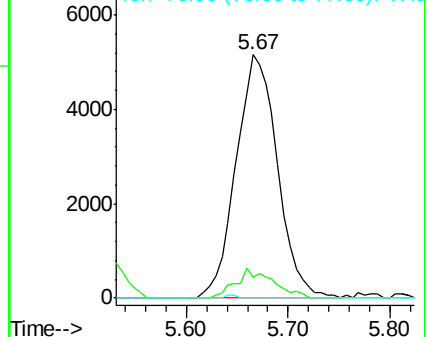
77 0.0 24.9 37.3#

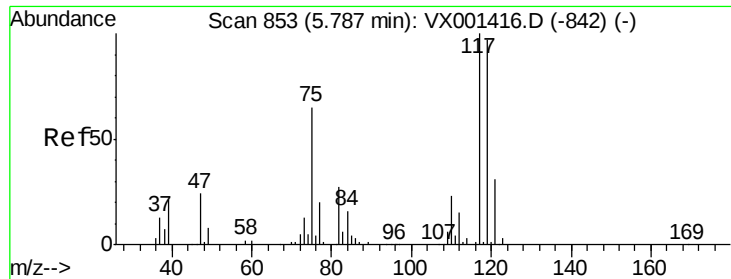


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.77 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR4-0518

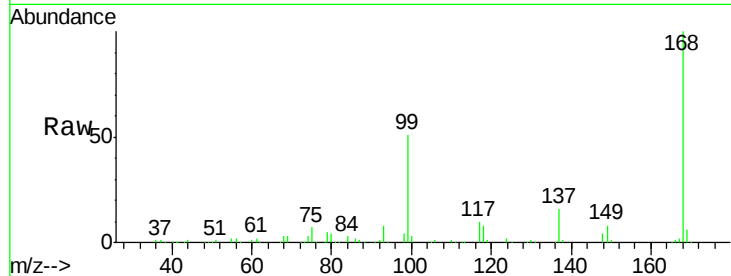
Tgt Ion:117 Resp: 20281

Ion Ratio Lower Upper

117 100

119 5.3 77.0 115.6#

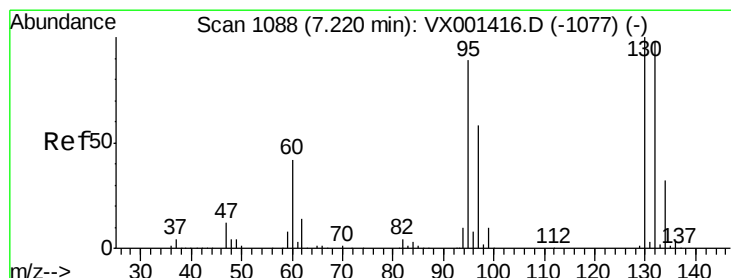
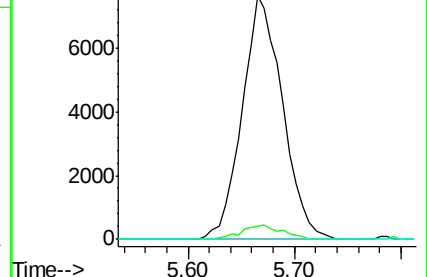
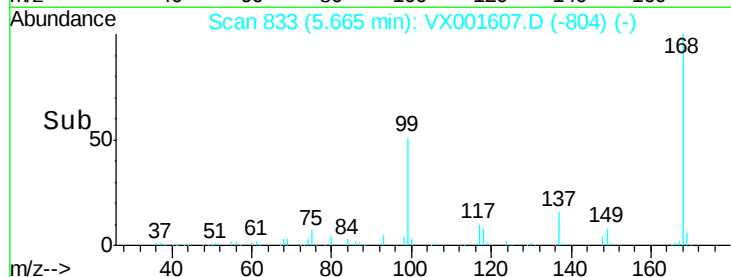
121 0.0 25.1 37.7#



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



#44

Trichloroethene

Concen: 2.86 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001607.D

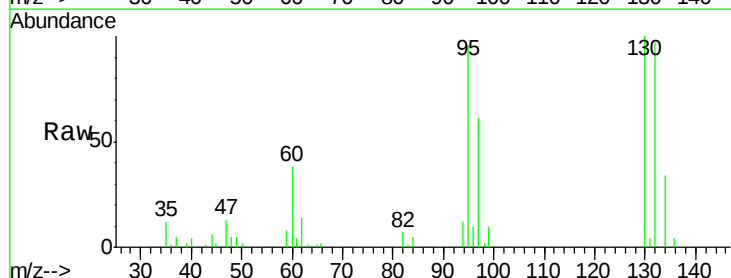
Acq: 10 May 2018 17:40

Tgt Ion:130 Resp: 10181

Ion Ratio Lower Upper

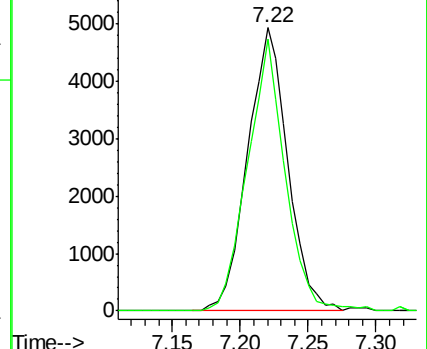
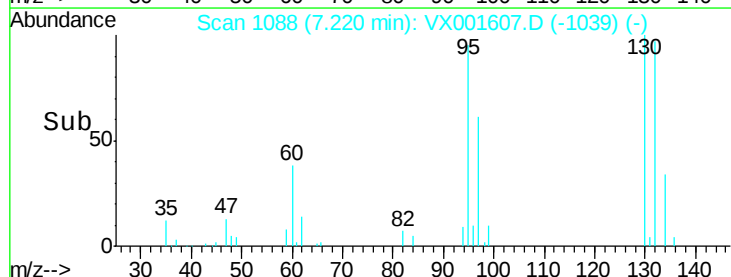
130 100

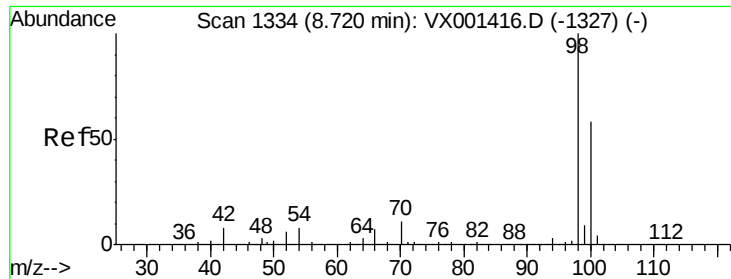
95 95.9 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 51.77 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

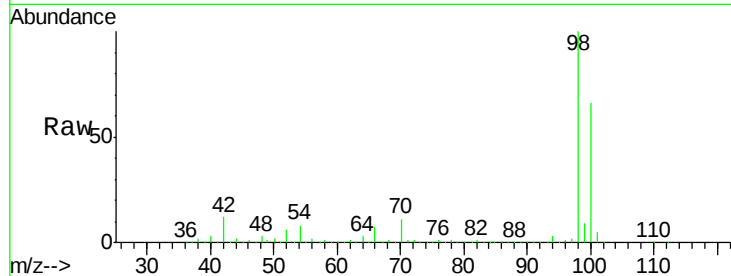
CB-TCLP-VAR4-0518

Tgt Ion: 98 Resp: 526566

Ion Ratio Lower Upper

98 100

100 65.6 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

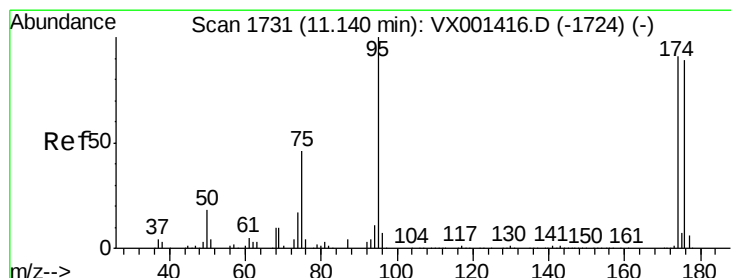
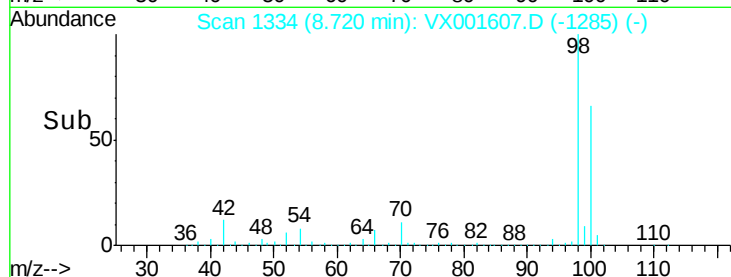
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

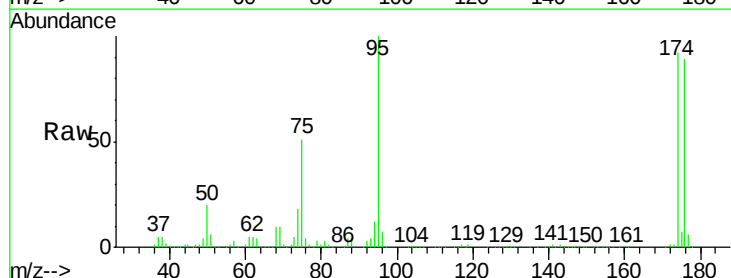
Tgt Ion: 95 Resp: 172948

Ion Ratio Lower Upper

95 100

174 100.9 0.0 202.0

176 98.8 0.0 197.4



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

11.14

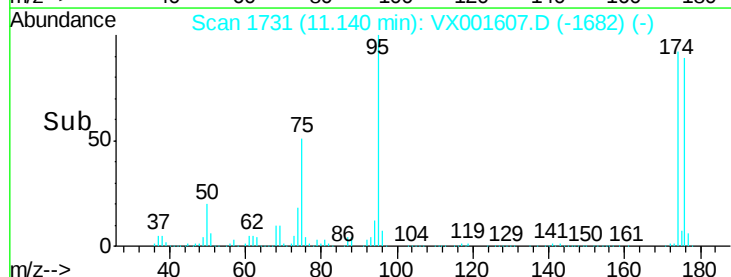
150000

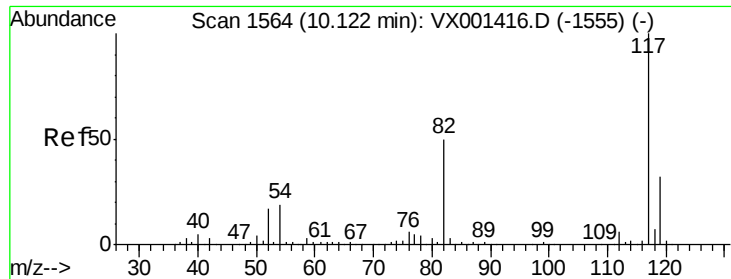
100000

50000

0

Time-->

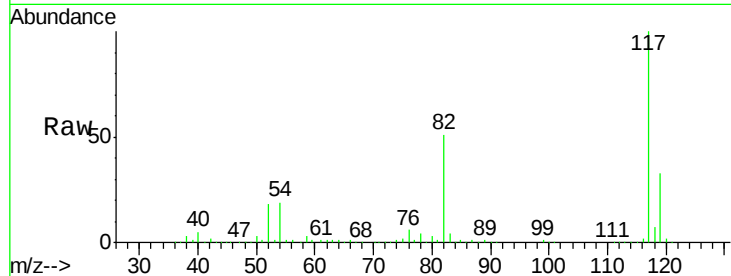




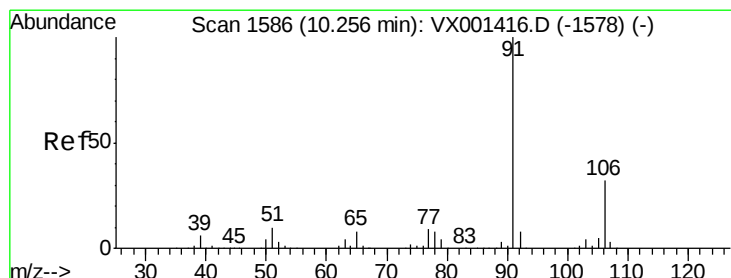
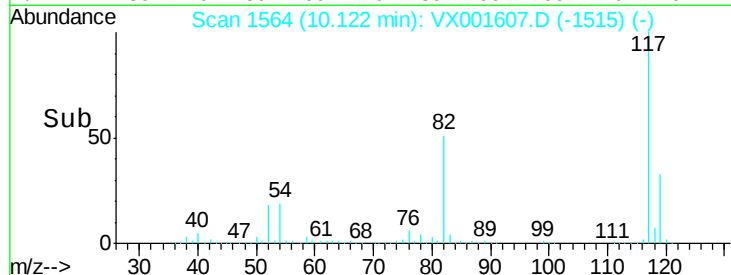
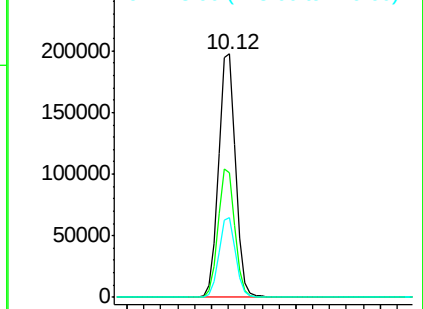
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR4-0518

Tgt Ion: 117 Resp: 276644
Ion Ratio Lower Upper
117 100
82 51.3 40.0 60.0
119 32.5 25.8 38.8

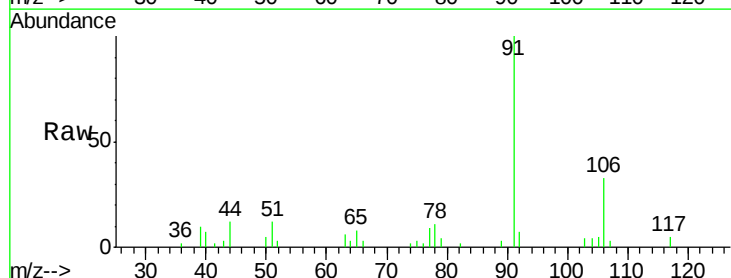


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

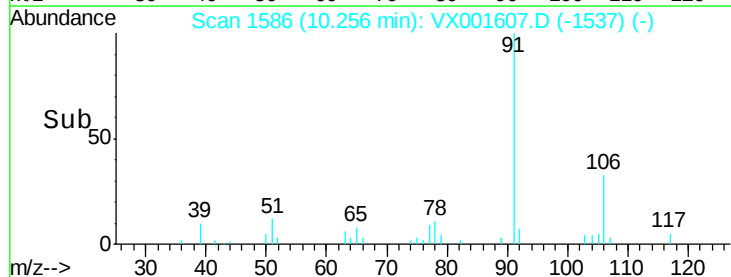
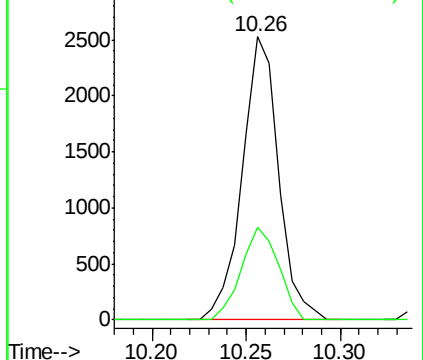


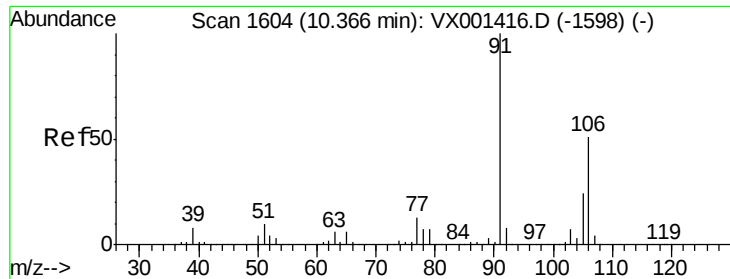
#67
Ethyl Benzene
Concen: 0.25 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

Tgt Ion: 91 Resp: 3381
Ion Ratio Lower Upper
91 100
106 32.6 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V

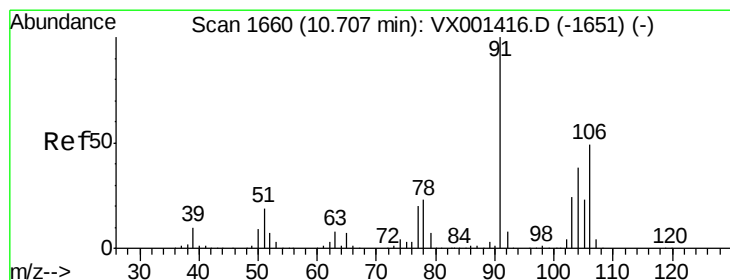
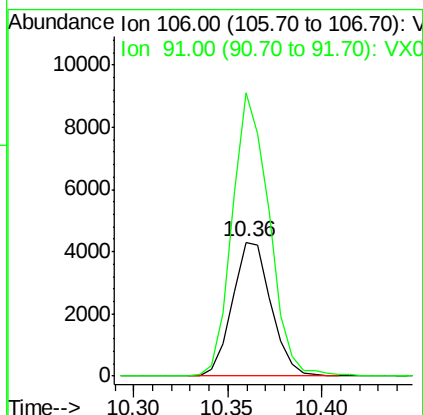
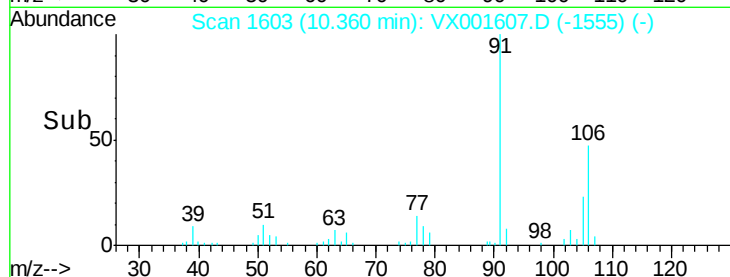
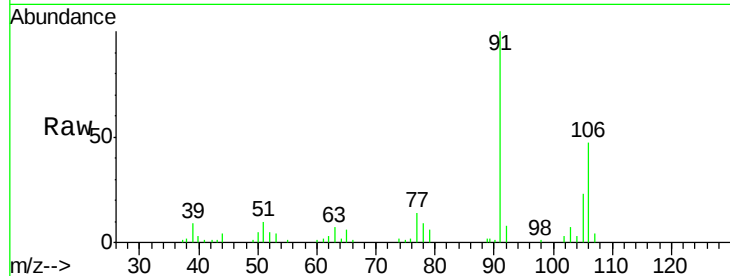




#68
m/p-Xylenes
Concen: 1.17 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

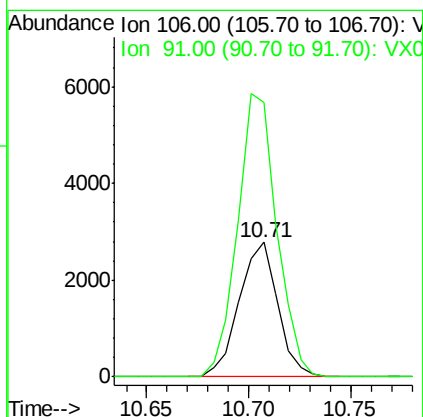
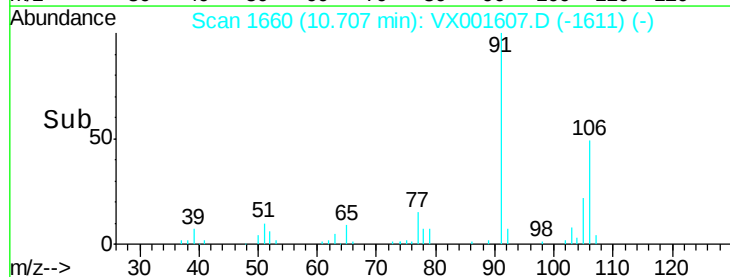
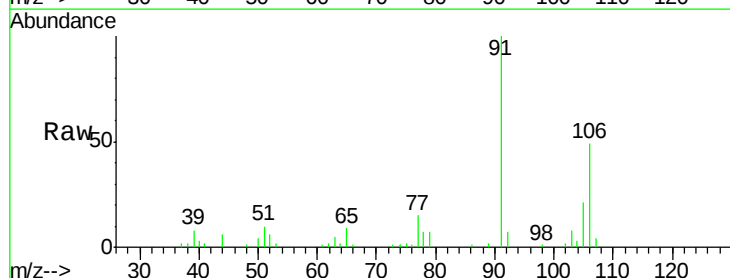
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR4-0518

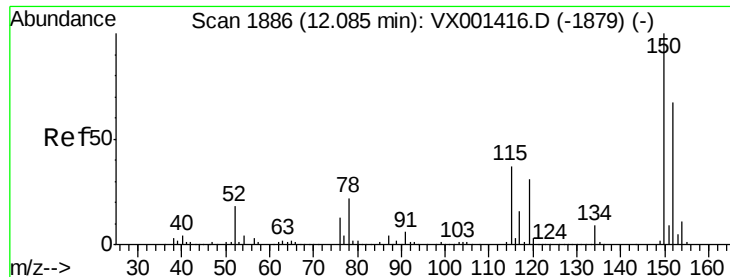
Tgt Ion:106 Resp: 6132
Ion Ratio Lower Upper
106 100
91 201.5 157.5 236.3



#69
o-Xylene
Concen: 0.72 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

Tgt Ion:106 Resp: 3653
Ion Ratio Lower Upper
106 100
91 213.8 103.1 309.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR4-0518

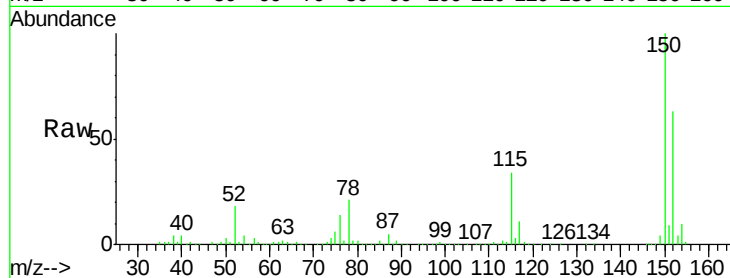
Tgt Ion:152 Resp: 150668

Ion Ratio Lower Upper

152 100

115 53.2 37.7 113.1

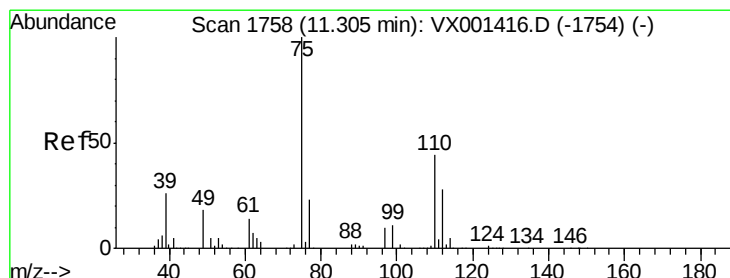
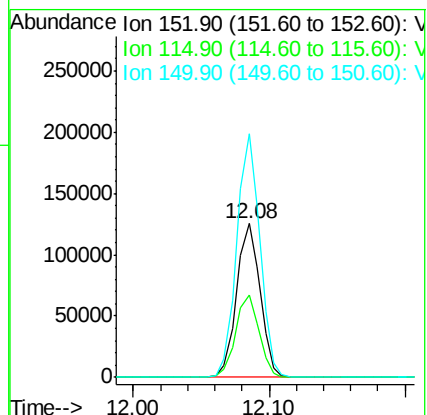
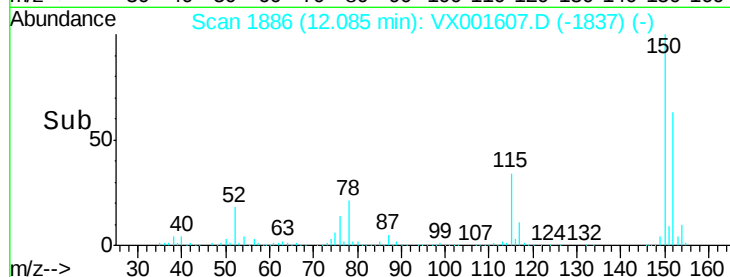
150 156.4 0.0 349.4



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: 28.80 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001607.D

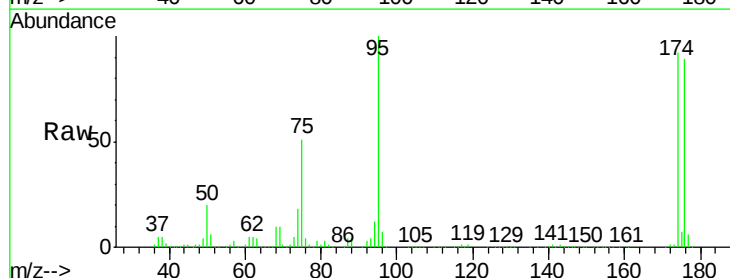
Acq: 10 May 2018 17:40

Tgt Ion: 75 Resp: 88013

Ion Ratio Lower Upper

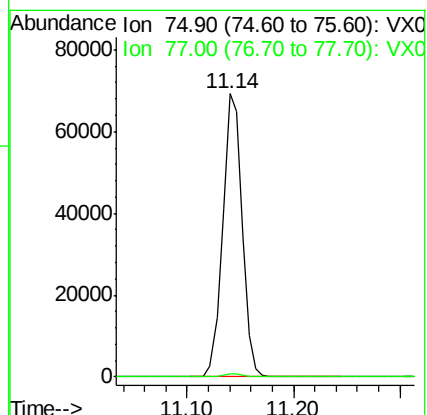
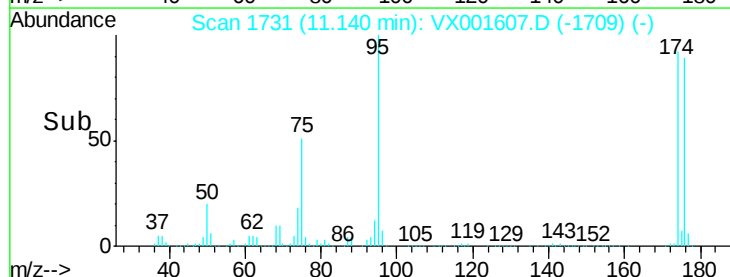
75 100

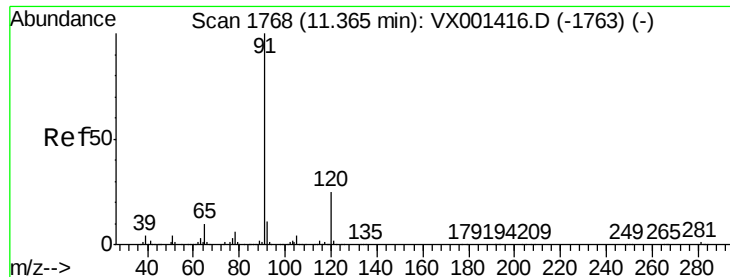
77 1.4 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

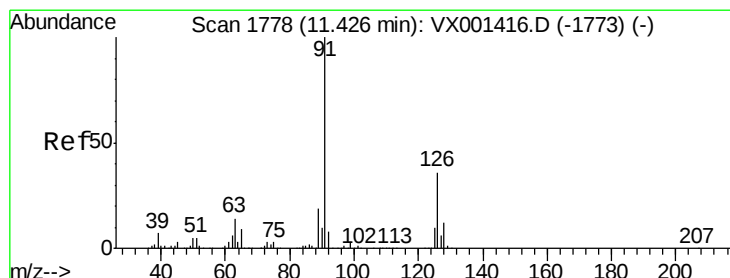
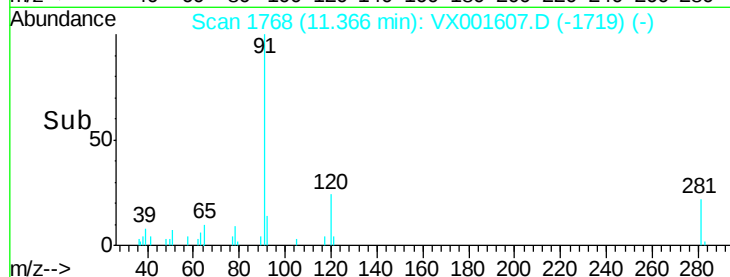
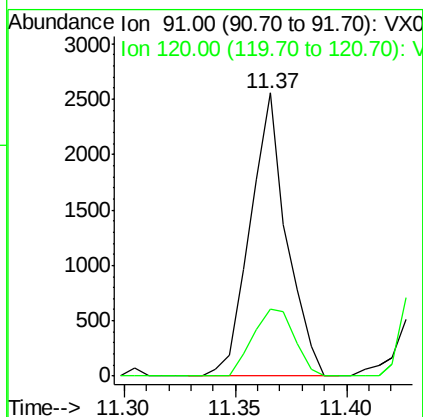
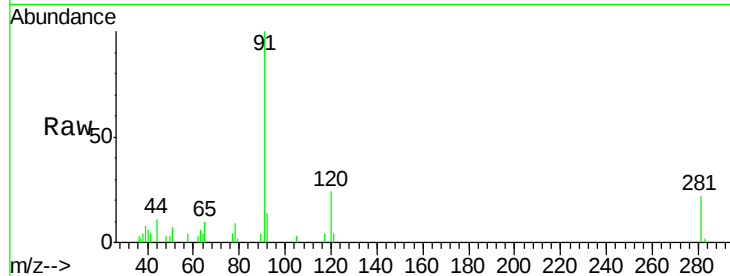




#78
n-propylbenzene
Concen: 0.26 ug/l
RT: 11.37 min Scan# 1768
Delta R.T. 0.00 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

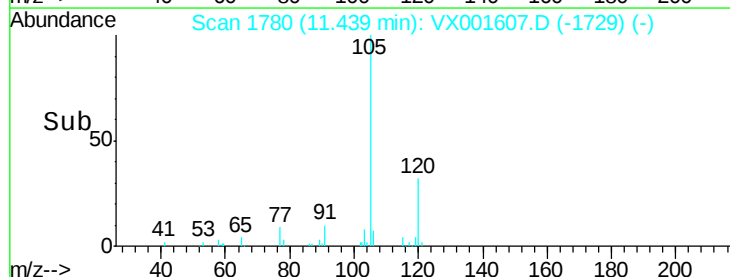
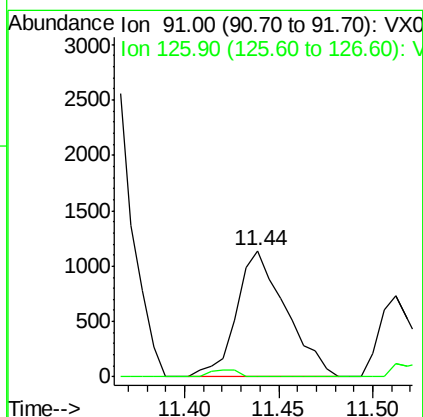
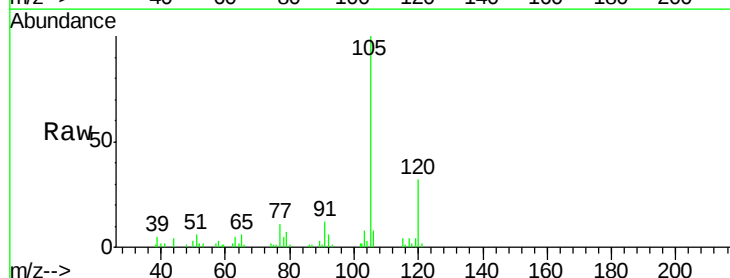
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR4-0518

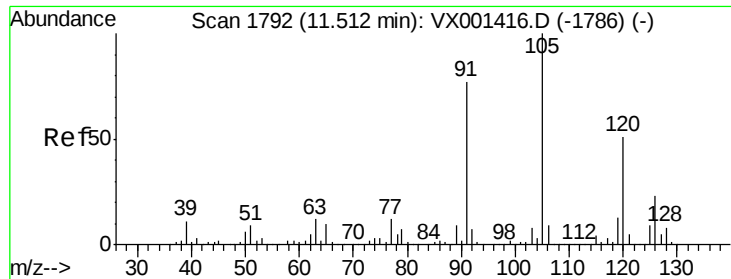
Tgt Ion: 91 Resp: 2917
Ion Ratio Lower Upper
91 100
120 27.2 12.5 37.5



#79
2-Chlorotoluene
Concen: 0.30 ug/l
RT: 11.44 min Scan# 1780
Delta R.T. 0.01 min
Lab File: VX001607.D
Acq: 10 May 2018 17:40

Tgt Ion: 91 Resp: 2066
Ion Ratio Lower Upper
91 100
126 3.1 18.1 54.4#

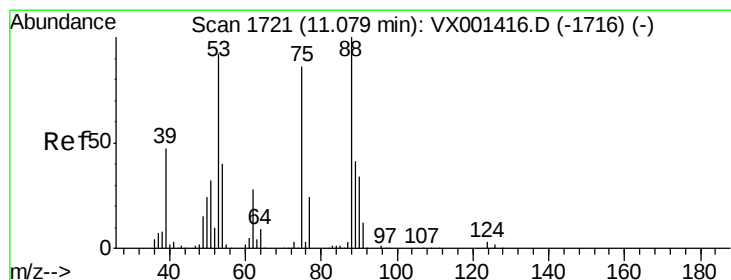
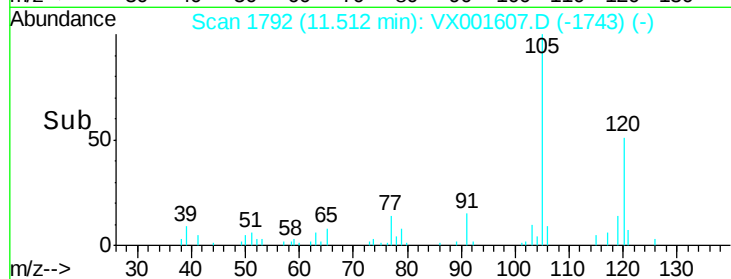
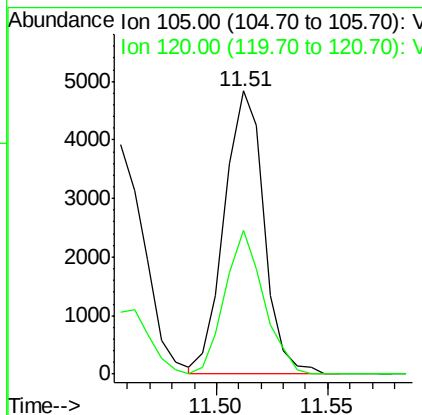
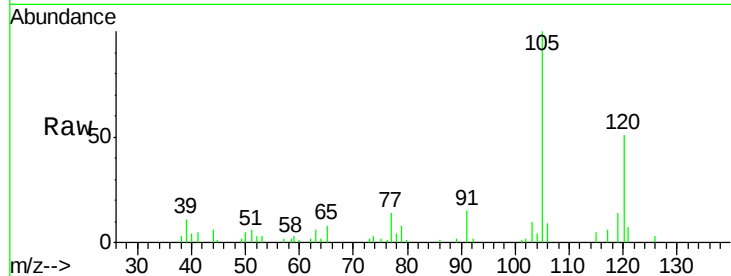




#80
 1,3,5-Trimethylbenzene
 Concen: 0.69 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX001607.D
 Acq: 10 May 2018 17:40

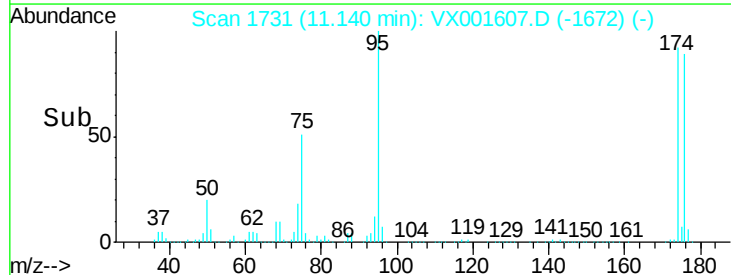
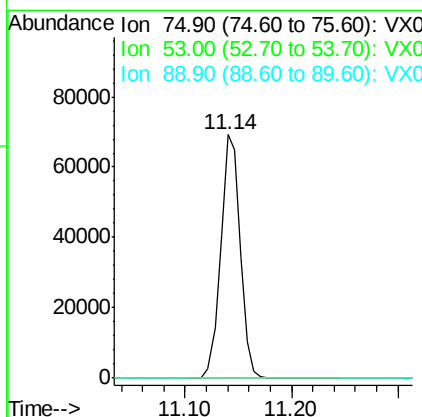
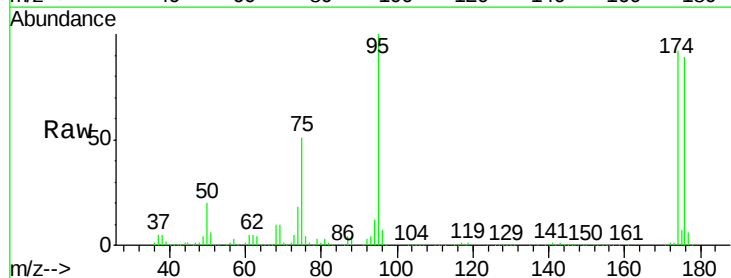
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-TCLP-VAR4-0518

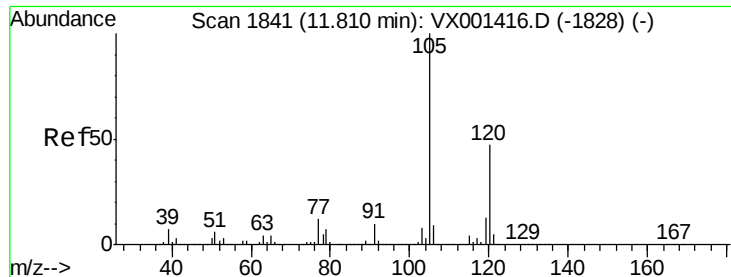
Tgt Ion: 105 Resp: 5991
 Ion Ratio Lower Upper
 105 100
 120 49.9 25.7 77.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.25 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001607.D
 Acq: 10 May 2018 17:40

Tgt Ion: 75 Resp: 88013
 Ion Ratio Lower Upper
 75 100
 53 0.1 84.5 126.7#
 89 0.0 39.5 59.3#

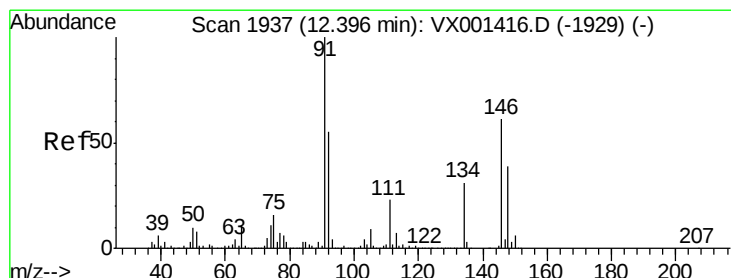
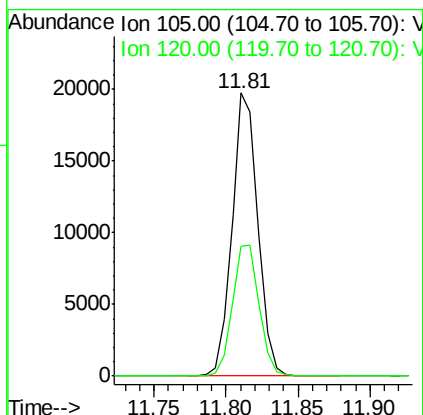
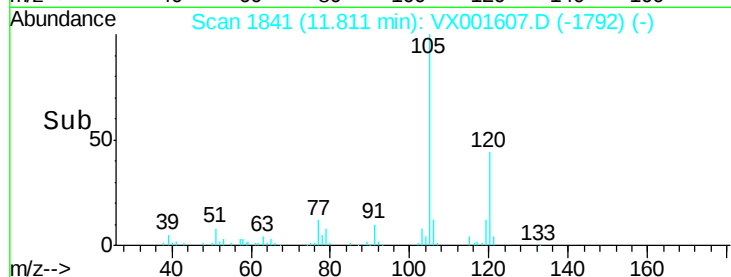
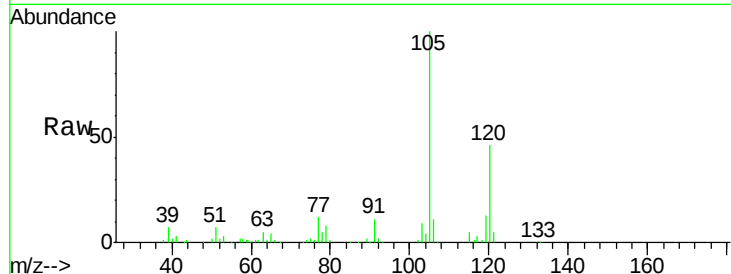




#84
 1,2,4-Trimethylbenzene
 Concen: 2.79 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX001607.D
 Acq: 10 May 2018 17:40

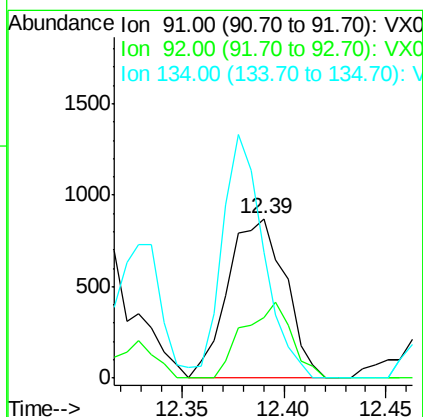
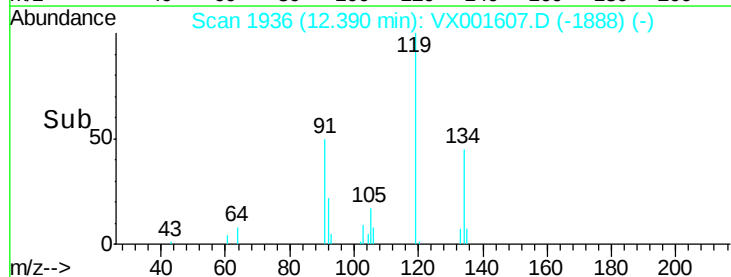
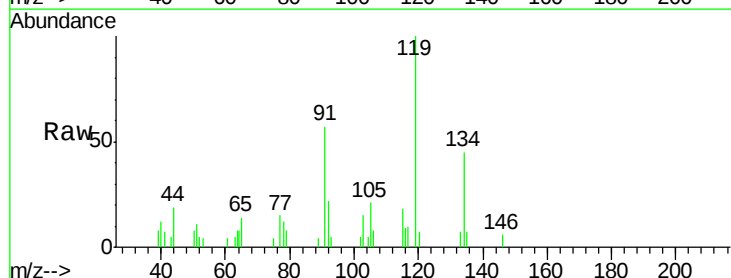
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-TCLP-VAR4-0518

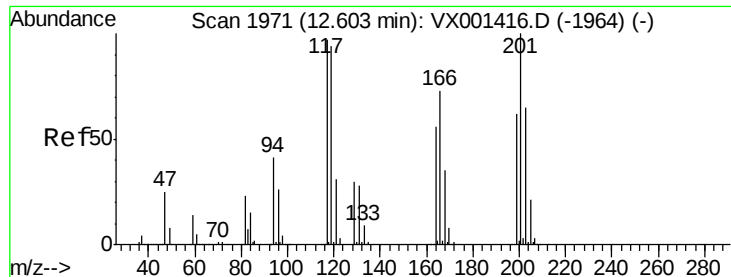
Tgt Ion: 105 Resp: 24857
 Ion Ratio Lower Upper
 105 100
 120 47.6 23.4 70.2



#89
 n-Butylbenzene
 Concen: 0.22 ug/l
 RT: 12.39 min Scan# 1936
 Delta R.T. -0.01 min
 Lab File: VX001607.D
 Acq: 10 May 2018 17:40

Tgt Ion: 91 Resp: 1707
 Ion Ratio Lower Upper
 91 100
 92 39.7 27.2 81.5
 134 109.7 14.6 44.0#





#90

Hexachloroethane

Concen: 0.36 ug/l

RT: 12.60 min Scan# 1970

Delta R.T. -0.01 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

Instrument :

MSVOA_X

ClientSampleId :

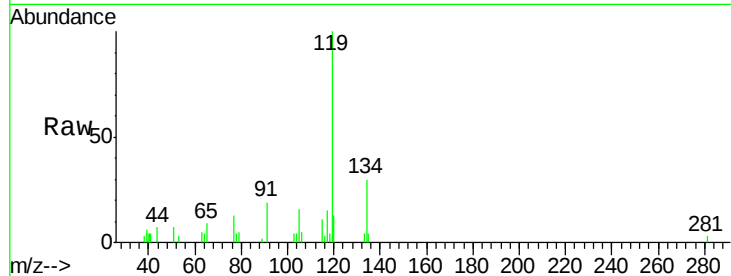
CB-TCLP-VAR4-0518

Tgt Ion:117 Resp: 514

Ion Ratio Lower Upper

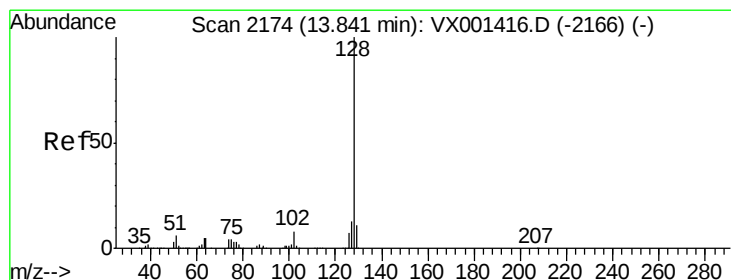
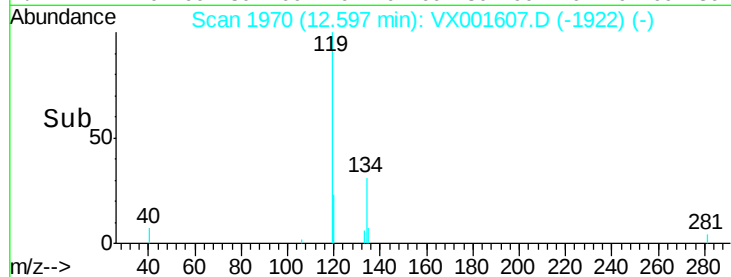
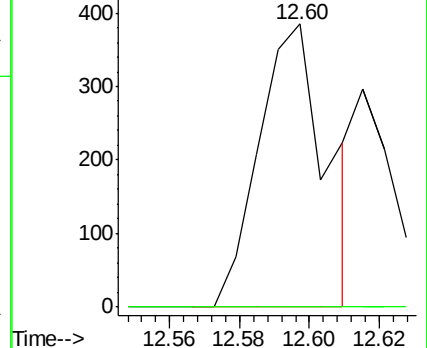
117 100

201 0.0 51.5 154.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 8.10 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001607.D

Acq: 10 May 2018 17:40

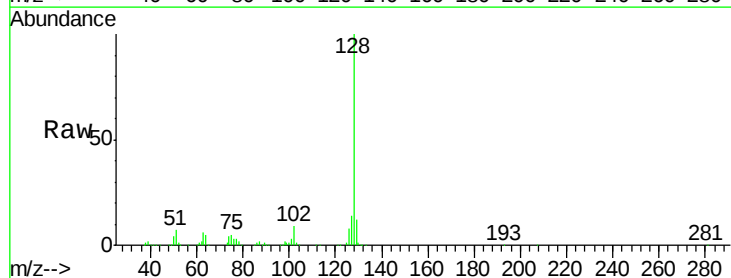
Tgt Ion:128 Resp: 90435

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 11.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

