

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072318\
 Data File : VX003632.D
 Acq On : 24 Jul 2018 04:56
 Operator : JC/SP
 Sample : J4073-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 24 08:55:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	243198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	350499	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	331451	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189419	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	136130	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	
35) Dibromofluoromethane	5.51	113	130150	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
50) Toluene-d8	8.72	98	486035	48.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.88%	
62) 4-Bromofluorobenzene	11.14	95	167761	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	

Target Compounds

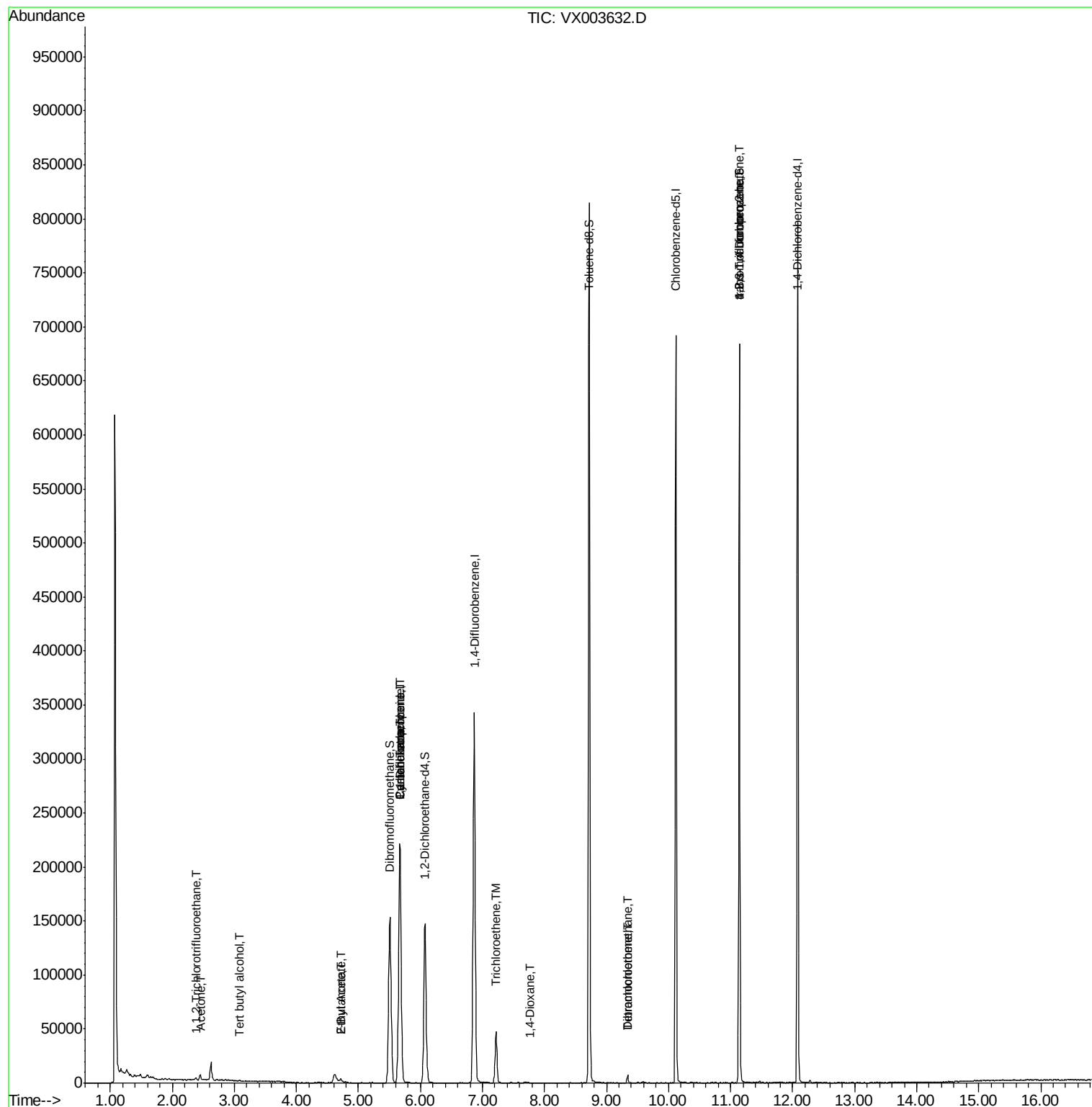
						Qvalue
2) Dichlorodifluoromethane	1.20	85	25	Below Cal	#	43
3) Chloromethane	1.32	50	529	Below Cal		94
5) Bromomethane	1.65	94	1041	Below Cal	#	62
9) 1,1,2-Trichlorotrifluoroet	2.38	101	557	0.21	ug/l	85
11) Tert butyl alcohol	3.08	59	955	1.68	ug/l #	73
16) Acetone	2.45	43	4714	4.34	ug/l #	79
20) Methylene Chloride	2.86	84	332	Below Cal	#	84
25) 2-Butanone	4.71	43	4807	2.63	ug/l	96
31) Cyclohexane	5.67	56	3306	0.76	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13734	3.63	ug/l #	50
37) Ethyl Acetate	4.71	43	4807	1.34	ug/l #	70
38) Carbon Tetrachloride	5.67	117	19516	5.26	ug/l #	17
44) Trichloroethene	7.22	130	20545	6.03	ug/l	95
49) 1,4-Dioxane	7.77	88	19	0.29	ug/l #	1
60) Dibromochloromethane	9.34	129	1540	0.54	ug/l #	11
64) Tetrachloroethene	9.34	164	1703	0.42	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	75529	22.20	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	75529	62.42	ug/l #	7

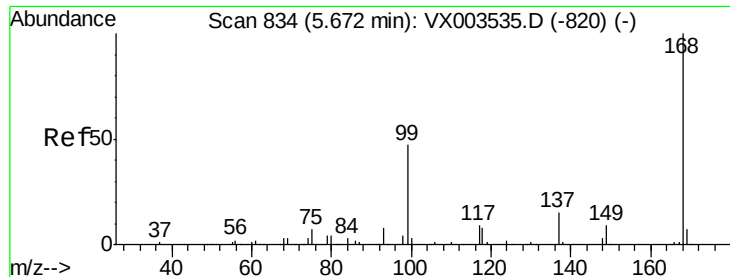
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

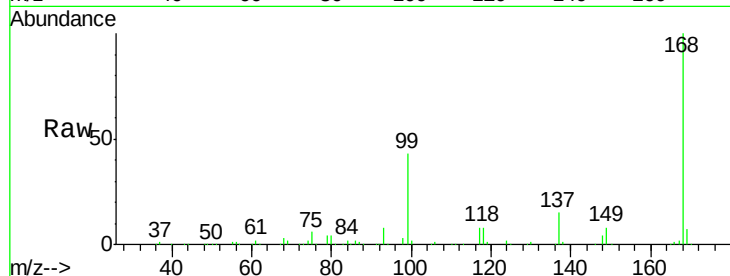
ClientSampleId :

Tot Ion:168 Resp: 243198

Ion Ratio Lower Upper

168 100

99 43.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

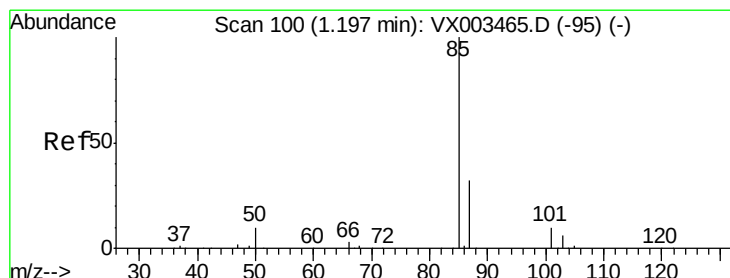
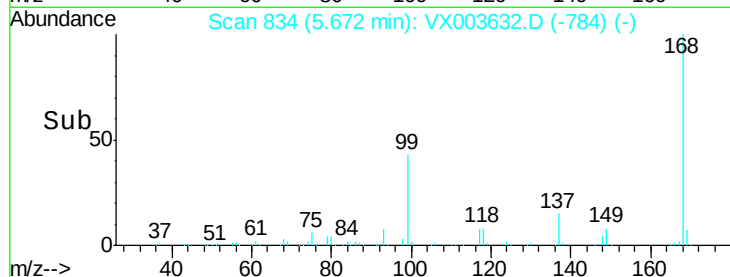
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003632.D

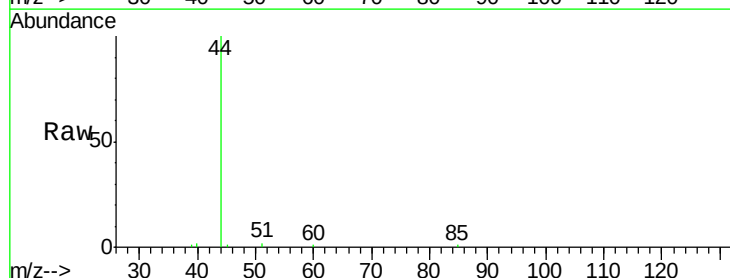
Acq: 24 Jul 2018 04:56

Tgt Ion: 85 Resp: 25

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

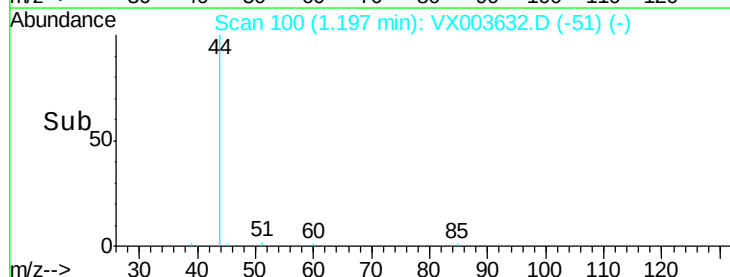
60

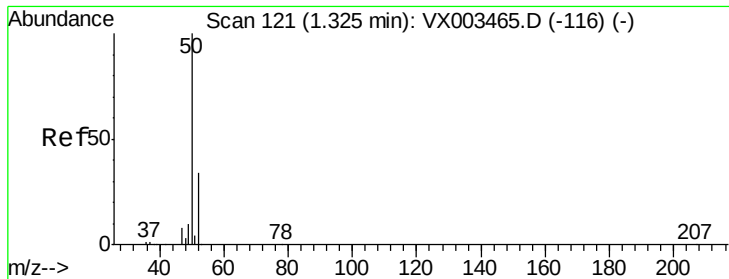
40

20

0

Time--> 1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

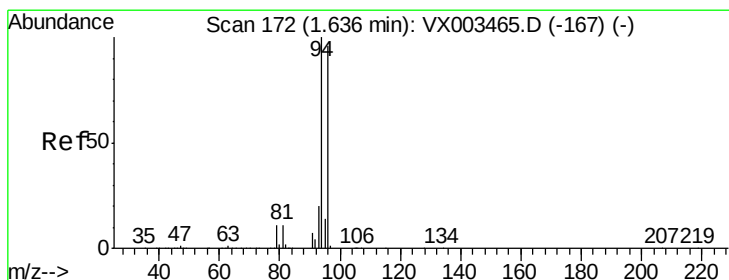
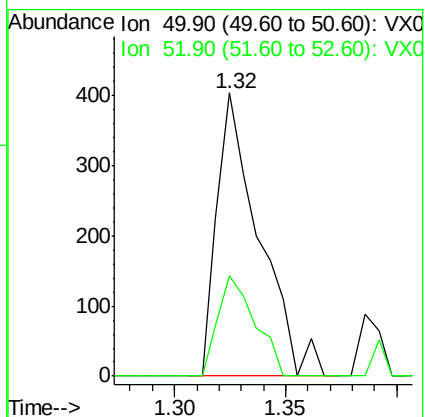
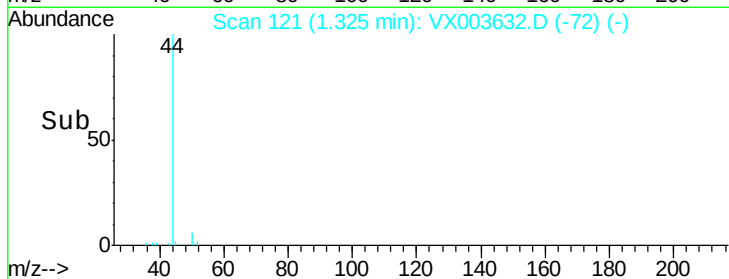
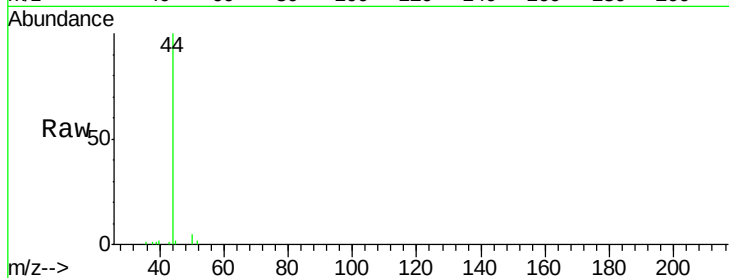
ClientSampleId :

Tot Ion: 50 Resp: 529

Ion Ratio Lower Upper

50 100

52 35.5 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003632.D

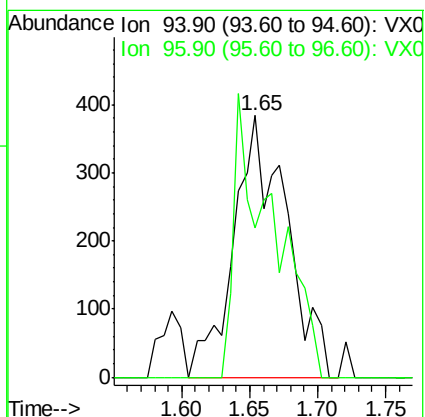
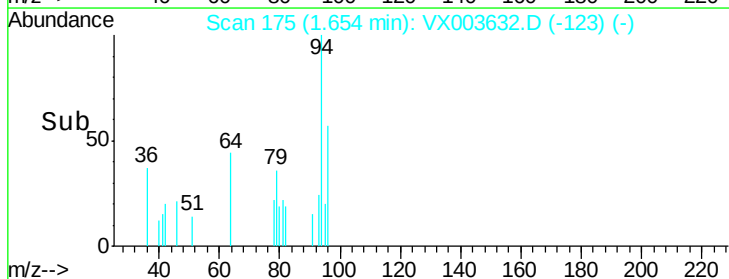
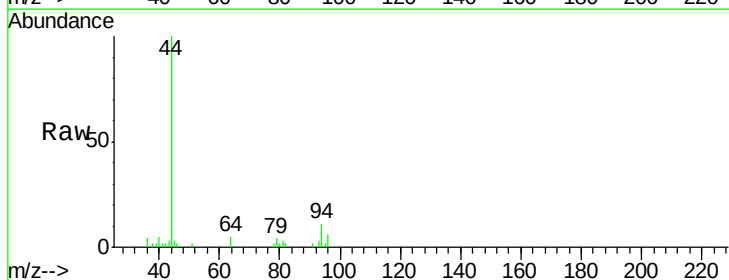
Acq: 24 Jul 2018 04:56

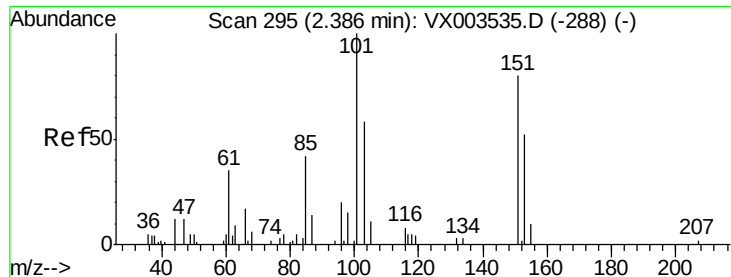
Tgt Ion: 94 Resp: 1041

Ion Ratio Lower Upper

94 100

96 57.3 74.9 112.3#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.21 ug/l

RT: 2.38 min Scan# 294

Delta R.T. -0.00 min

Lab File: VX003632.D

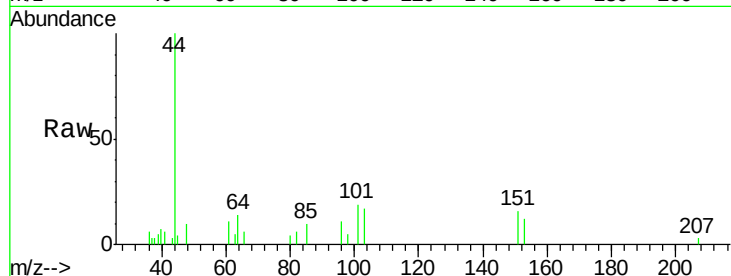
Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

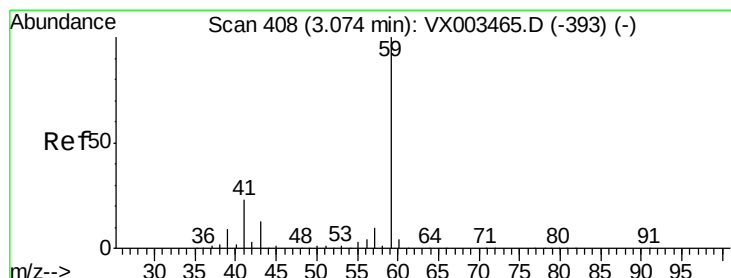
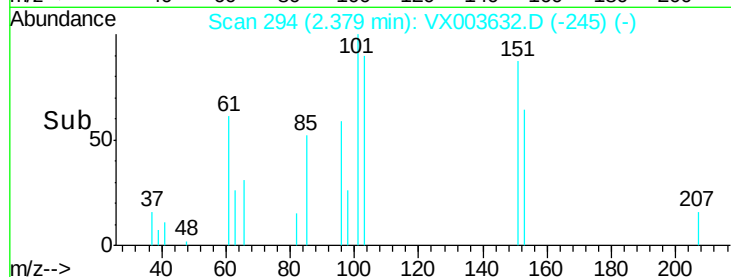
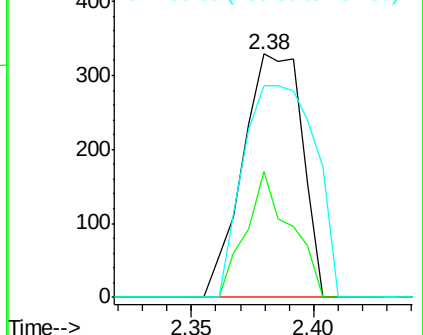
Tot Ion:	101	Resp:	557
Ion	Ratio	Lower	Upper
101	100		
85	39.1	36.0	54.0
151	105.6	70.9	106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.68 ug/l

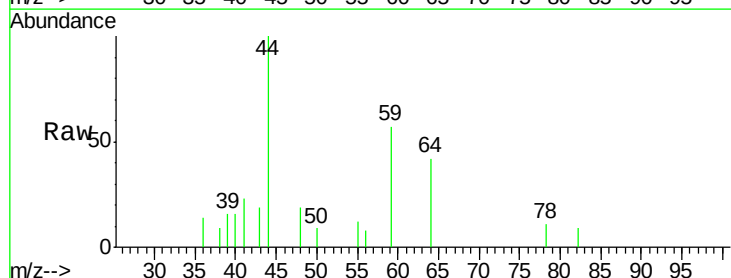
RT: 3.08 min Scan# 409

Delta R.T. 0.01 min

Lab File: VX003632.D

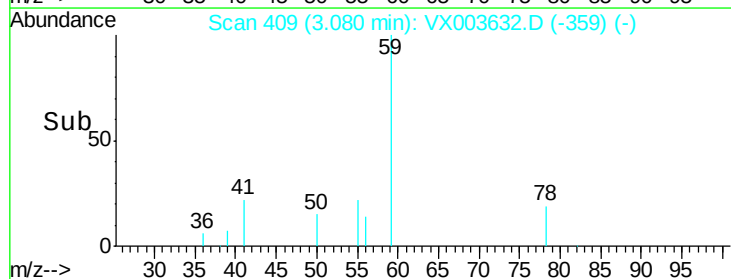
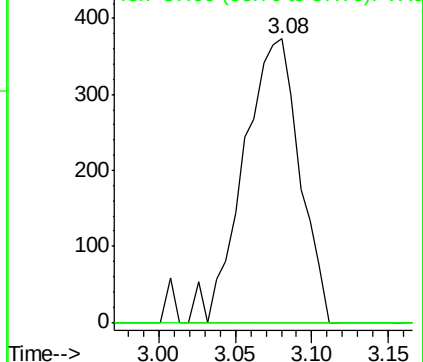
Acq: 24 Jul 2018 04:56

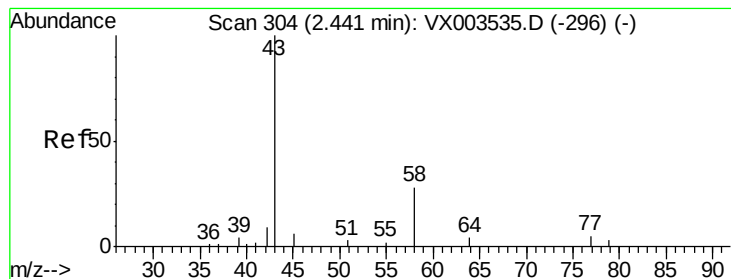
Tgt Ion:	59	Resp:	955
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.34 ua/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

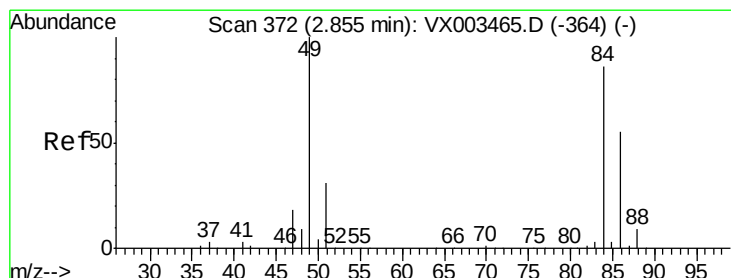
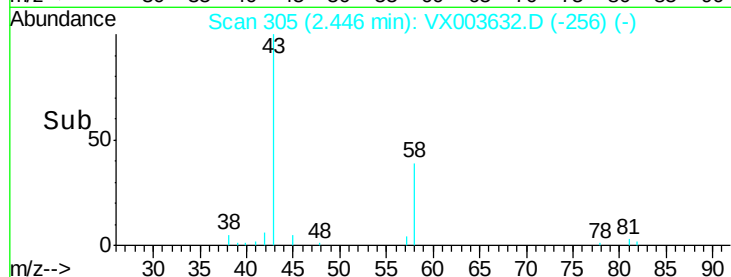
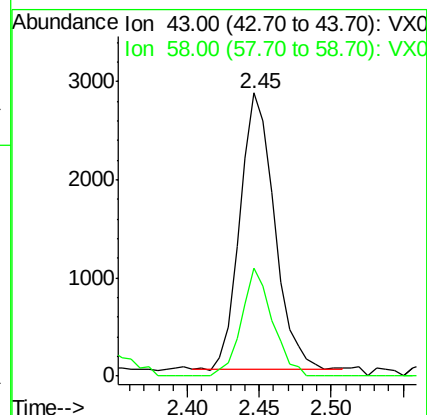
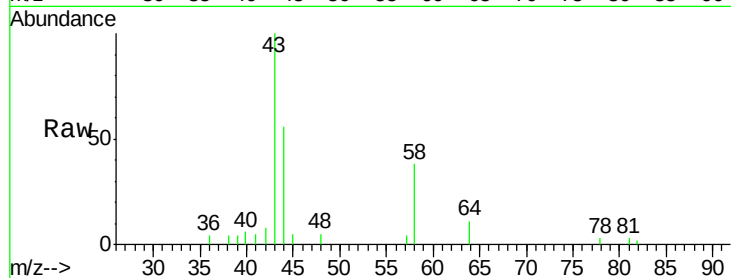
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4714

Ion Ratio Lower Upper

43 100

58 38.8 22.1 33.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Tgt Ion: 84 Resp: 332

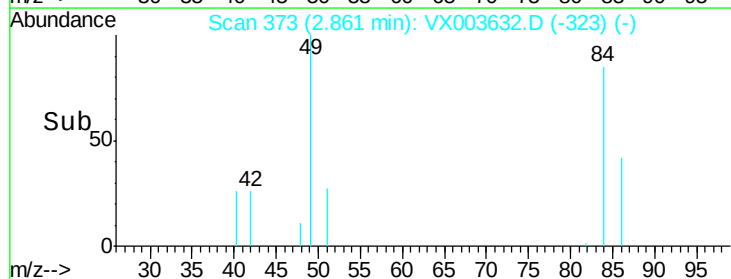
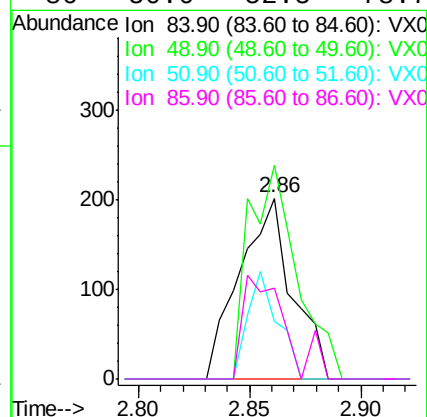
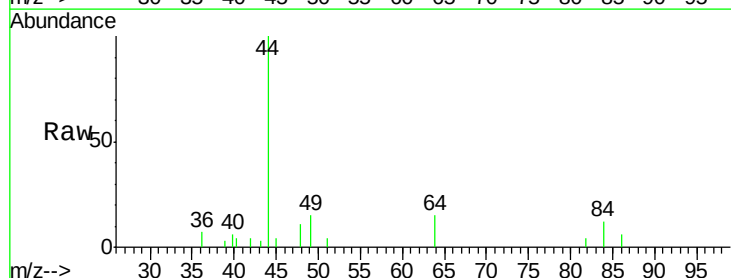
Ion Ratio Lower Upper

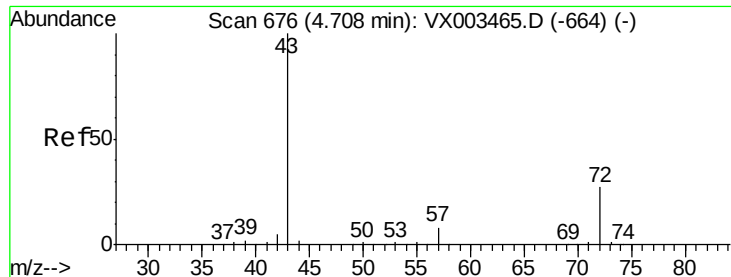
84 100

49 117.8 107.8 161.6

51 32.2 32.8 49.2#

86 50.0 52.5 78.7#





#25

2-Butanone

Concen: 2.63 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

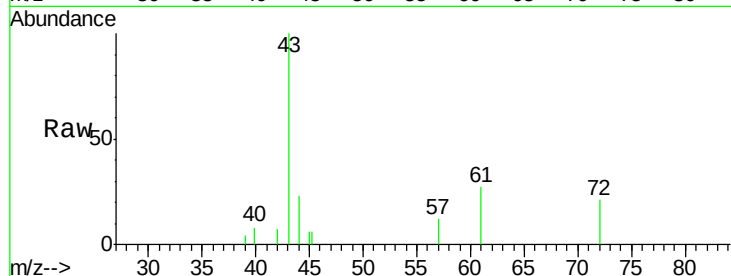
ClientSampleId :

Tot Ion: 43 Resp: 4807

Ion Ratio Lower Upper

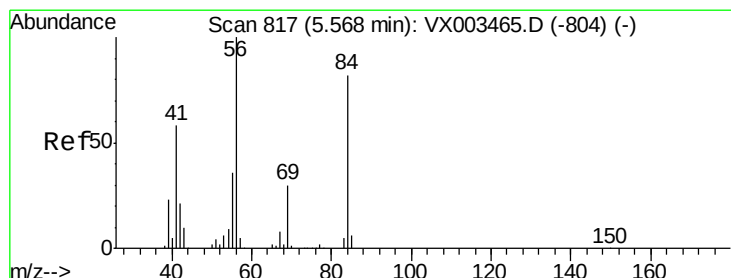
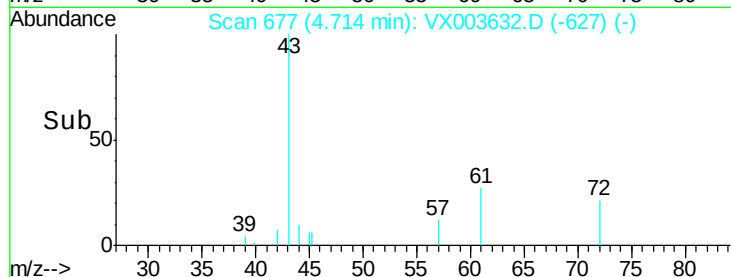
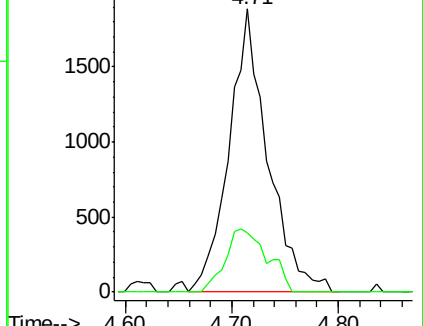
43 100

72 21.2 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 0.76 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

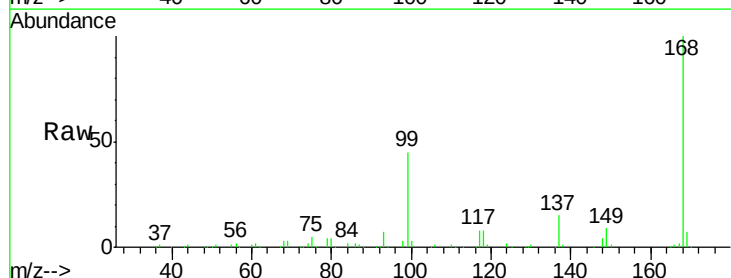
Tgt Ion: 56 Resp: 3306

Ion Ratio Lower Upper

56 100

69 203.9 23.7 35.5#

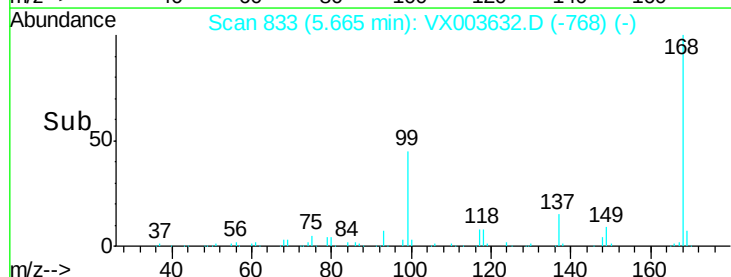
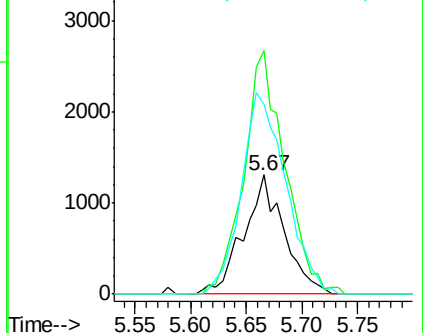
84 159.4 64.1 96.1#

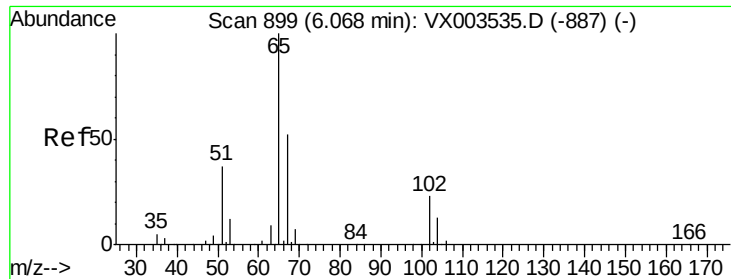


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

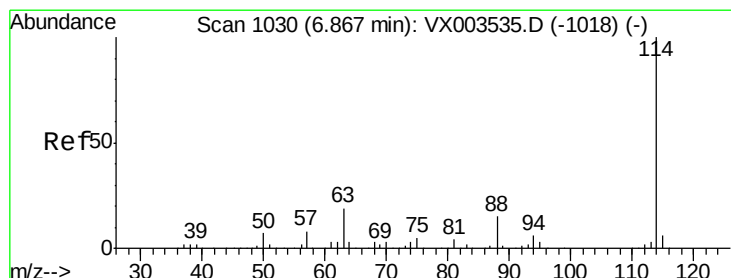
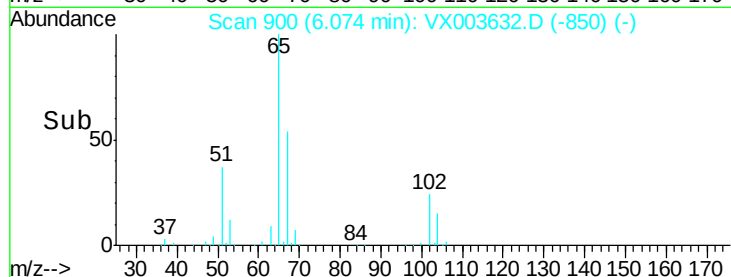
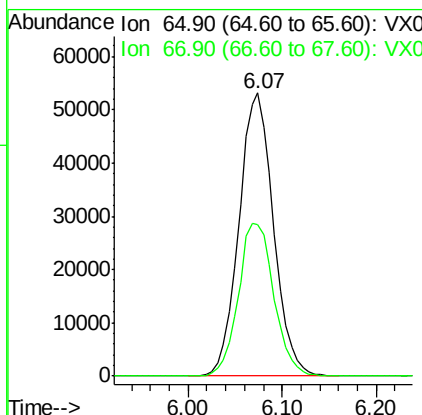
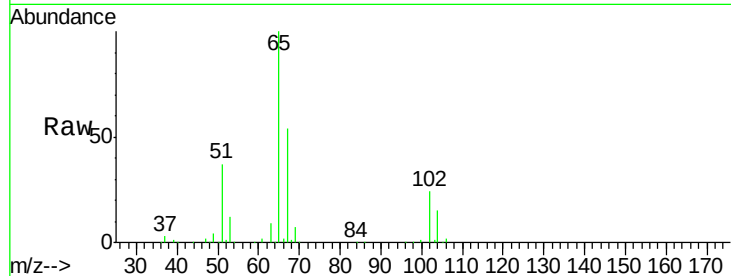




#33
 1,2-Dichloroethane-d4
 Concen: 47.29 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003632.D
 Acq: 24 Jul 2018 04:56

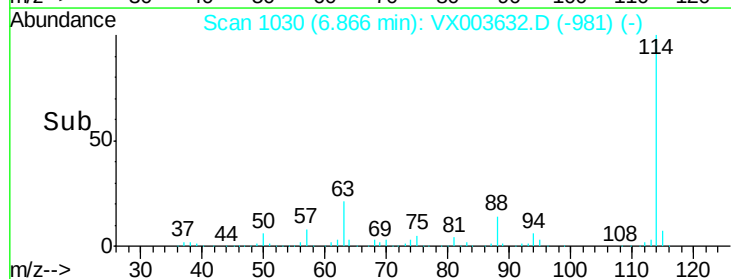
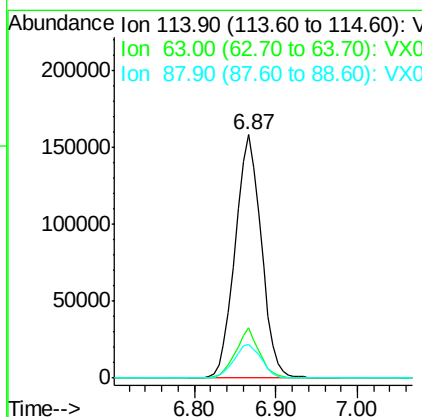
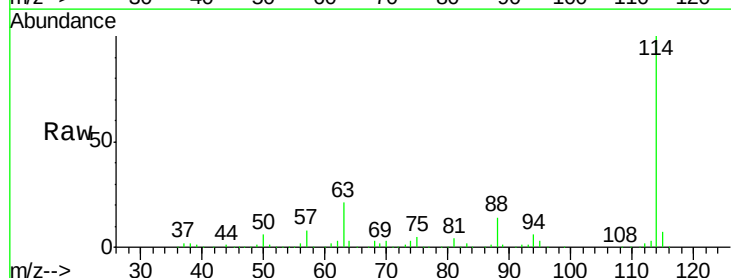
Instrument :
 MSVOA_X
 ClientSampleId :

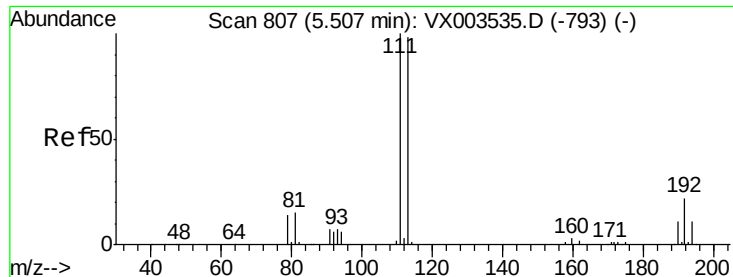
Tot Ion: 65 Resp: 136130
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003632.D
 Acq: 24 Jul 2018 04:56

Tgt Ion: 114 Resp: 350499
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 14.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.75 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :
MSVOA_X
ClientSampleId :

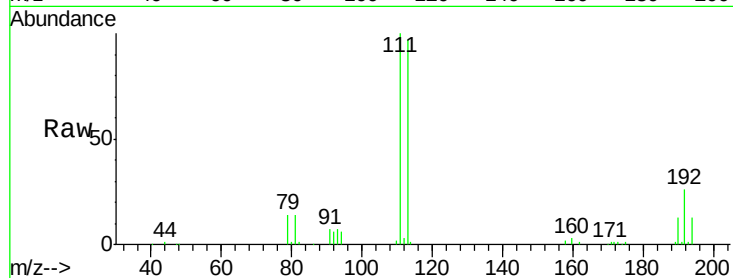
Tot Ion:113 Resp: 130150

Ion Ratio Lower Upper

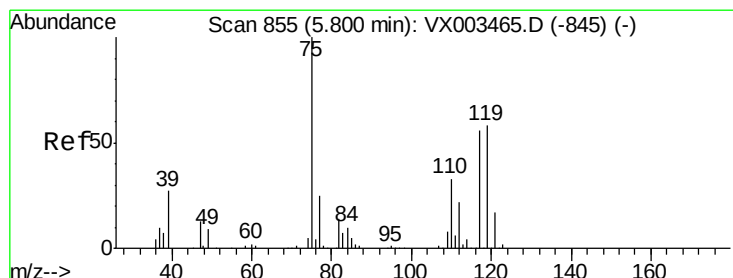
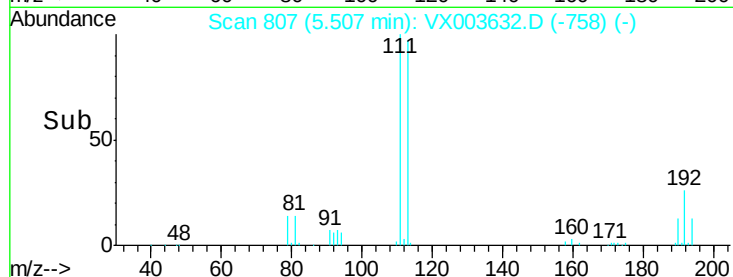
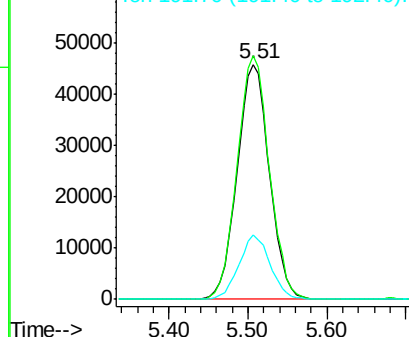
113 100

111 103.4 81.4 122.0

192 26.4 19.1 28.7



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: 3.63 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

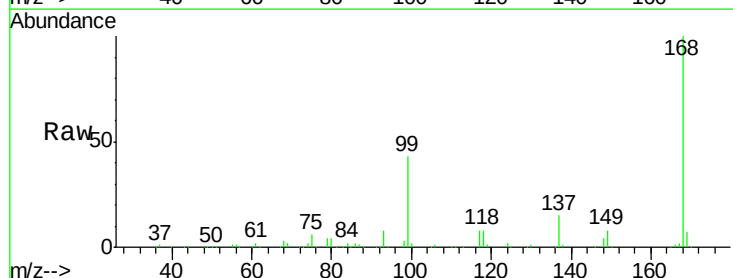
Tgt Ion: 75 Resp: 13734

Ion Ratio Lower Upper

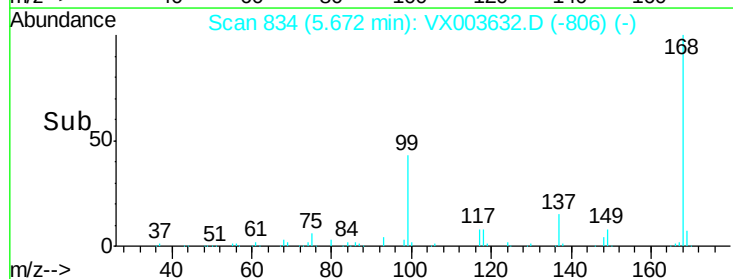
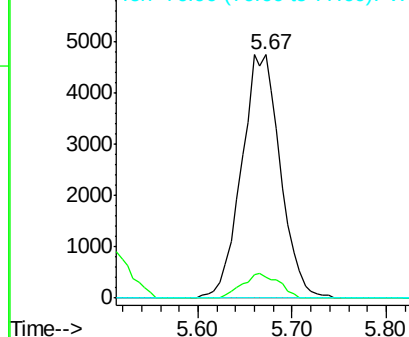
75 100

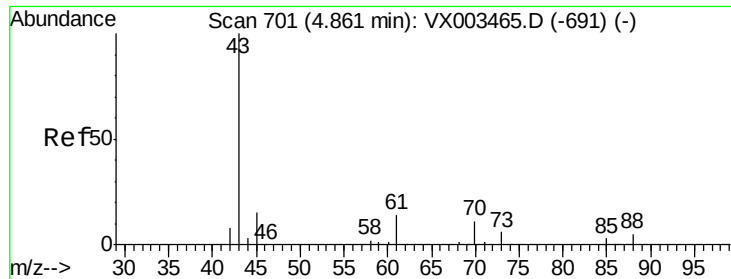
110 9.4 18.1 54.4#

77 0.0 24.3 36.5#



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: 1.34 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.15 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

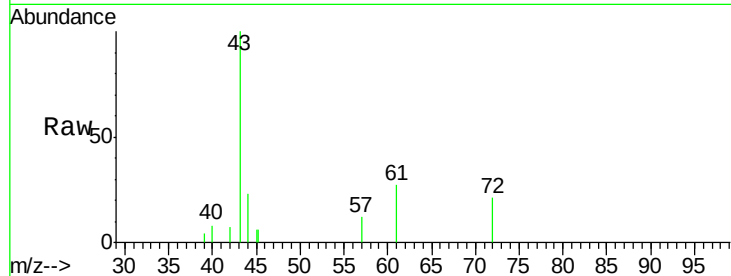
Tot Ion: 43 Resp: 4807

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

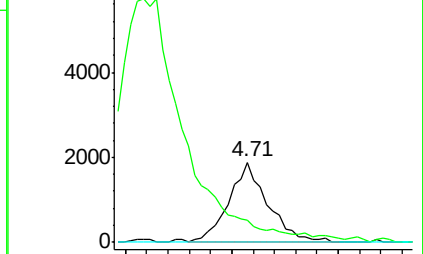
70 0.0 7.6 11.4#



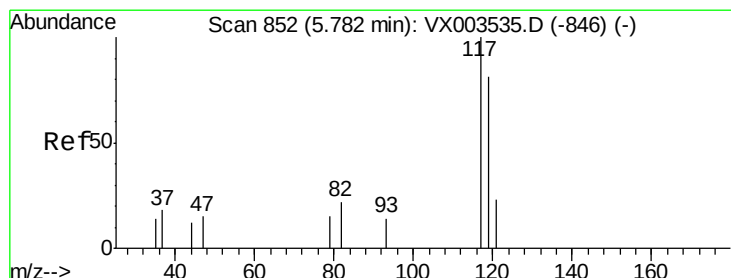
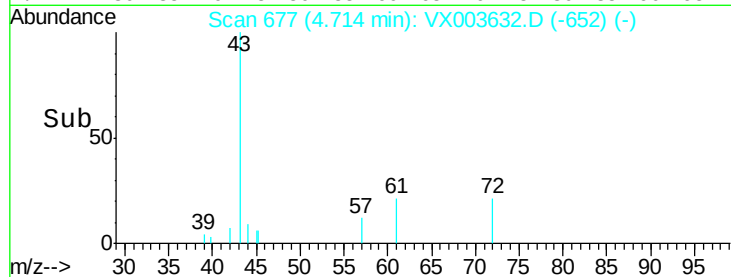
Abundance Ion 43.00 (42.70 to 43.70): VX003632.D (-652) (-)

Ion 60.90 (60.60 to 61.60): VX003632.D (-652) (-)

Ion 70.00 (69.70 to 70.70): VX003632.D (-652) (-)



Time-->



#38

Carbon Tetrachloride

Concen: 5.26 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.11 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

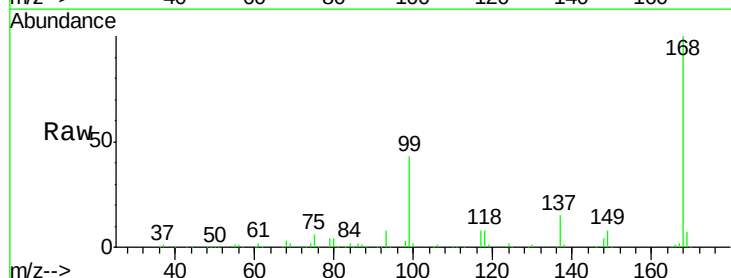
Tgt Ion: 117 Resp: 19516

Ion Ratio Lower Upper

117 100

119 6.5 77.4 116.0#

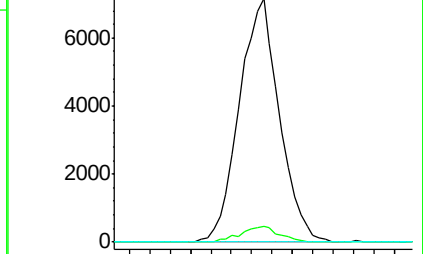
121 0.0 24.4 36.6#



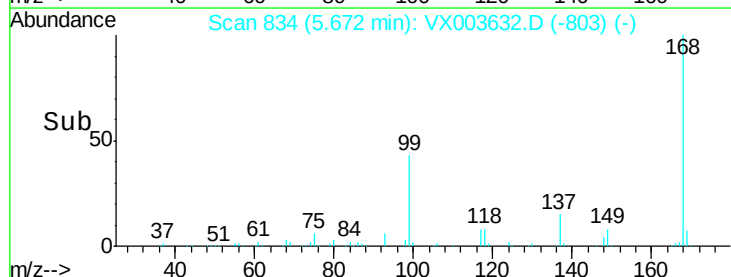
Abundance Ion 116.80 (116.50 to 117.50): VX003632.D (-803) (-)

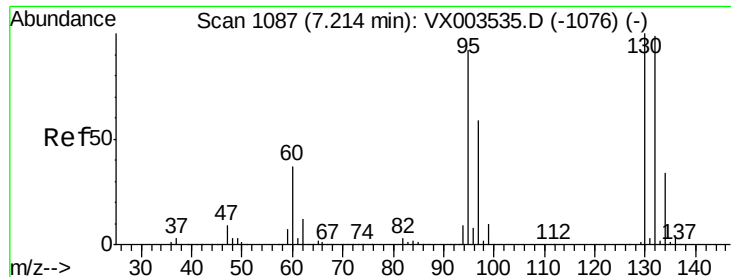
Ion 118.80 (118.50 to 119.50): VX003632.D (-803) (-)

Ion 120.80 (120.50 to 121.50): VX003632.D (-803) (-)



Time-->





#44

Trichloroethene

Concen: 6.03 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

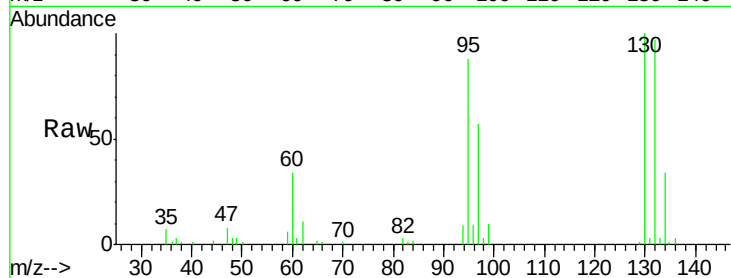
ClientSampled :

Tot Ion:130 Resp: 20545

Ion Ratio Lower Upper

130 100

95 87.7 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

10000

8000

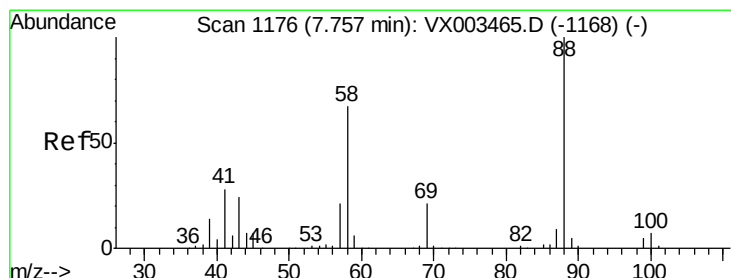
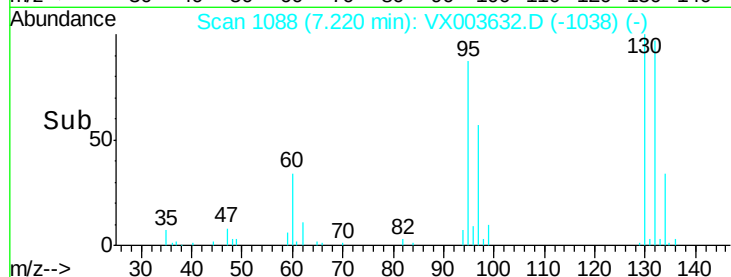
6000

4000

2000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 0.29 ug/l

RT: 7.77 min Scan# 1179

Delta R.T. 0.02 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

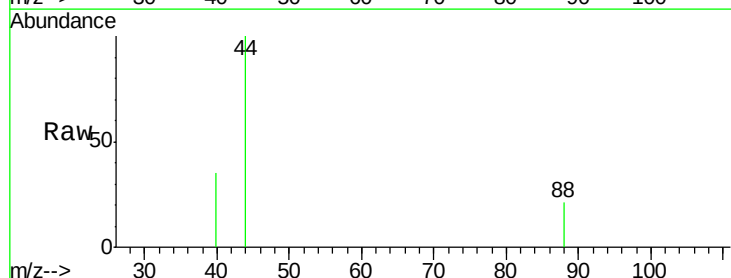
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 152.6 29.8 44.6#

58 0.0 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

100

80

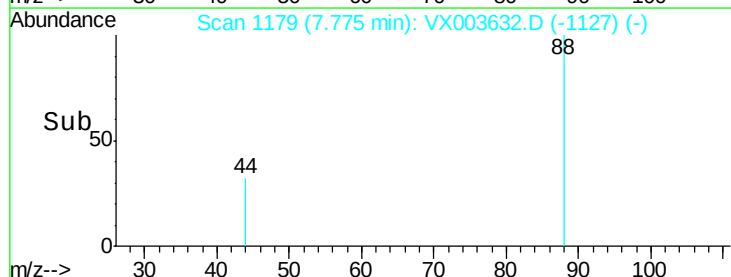
60

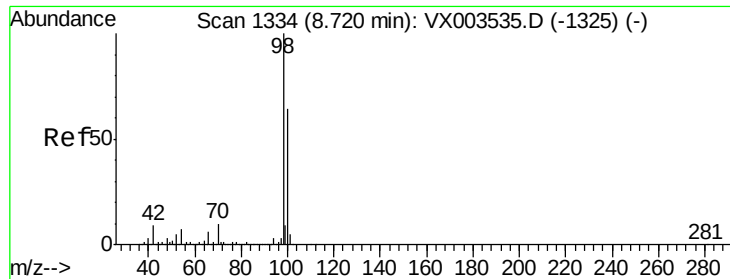
40

20

0

Time--> 7.76 7.77 7.78 7.79





#50

Toluene-d8

Concen: 48.44 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

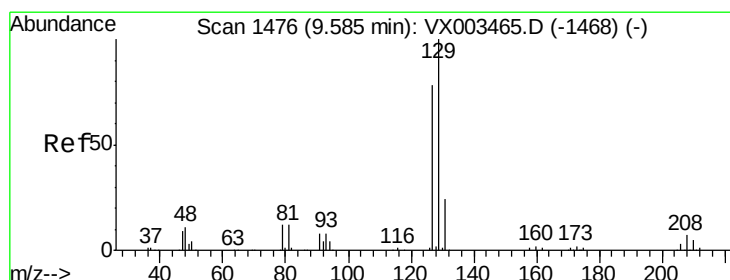
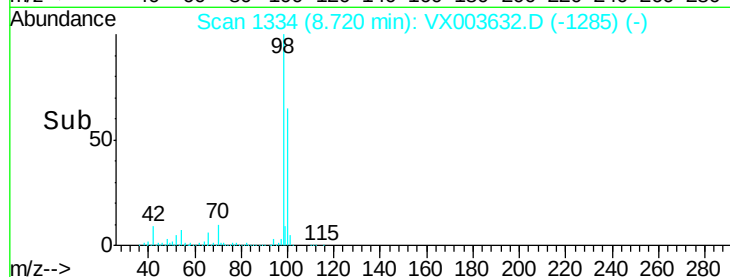
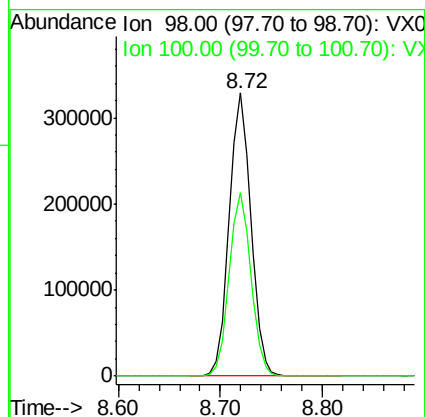
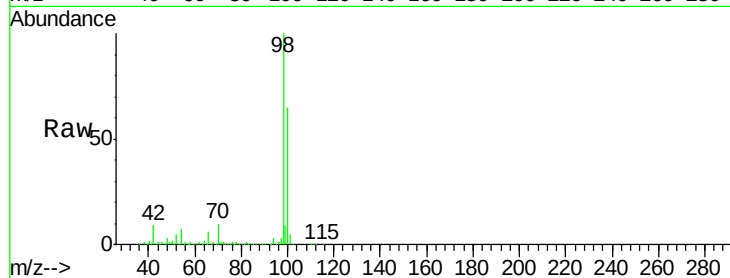
ClientSampleId :

Tot Ion: 98 Resp: 486035

Ion Ratio Lower Upper

98 100

100 64.5 50.9 76.3



#60

Dibromochloromethane

Concen: 0.54 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX003632.D

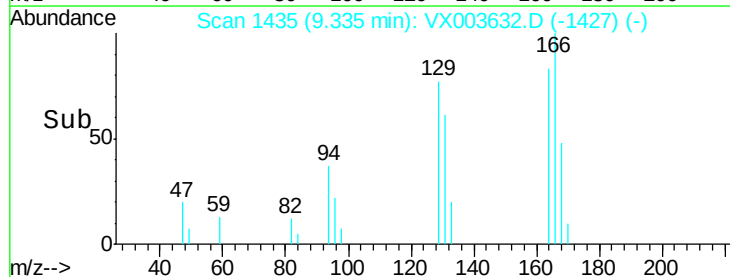
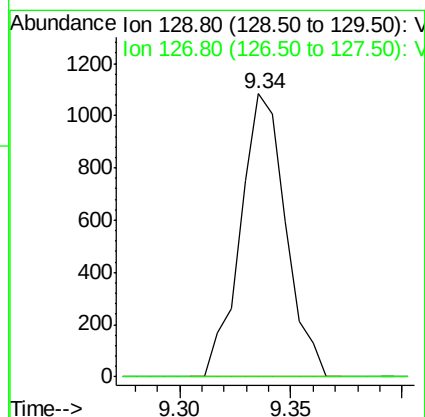
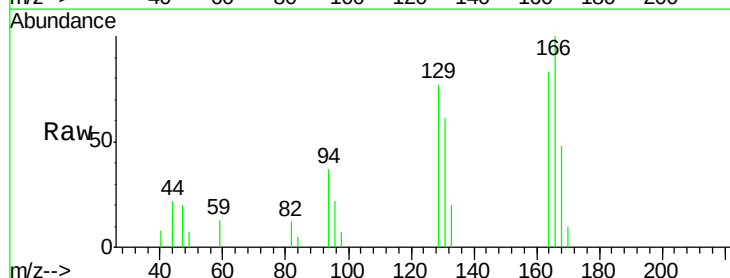
Acq: 24 Jul 2018 04:56

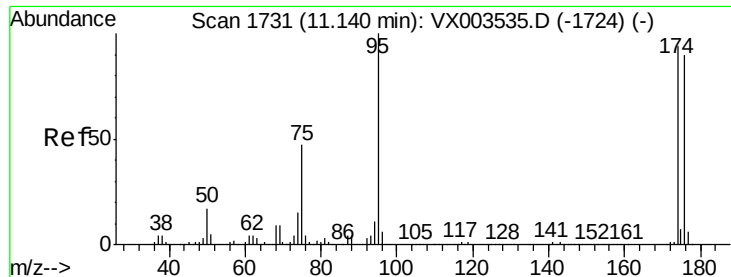
Tgt Ion:129 Resp: 1540

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#

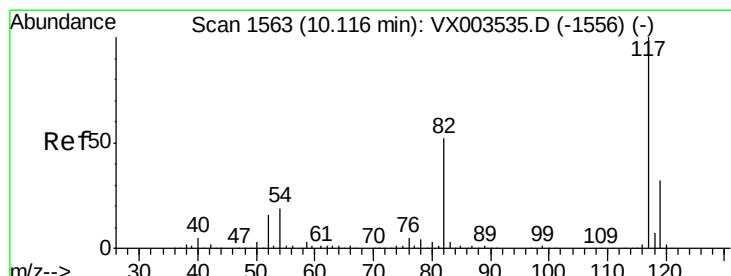
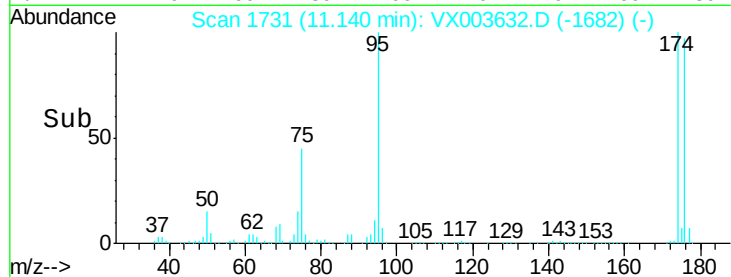
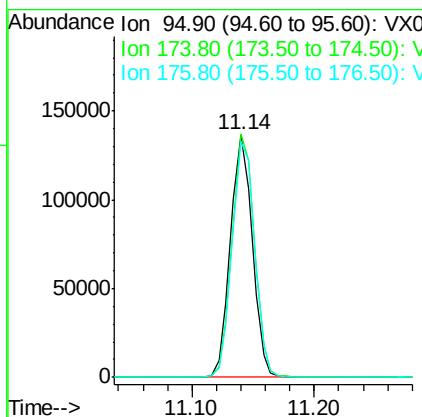
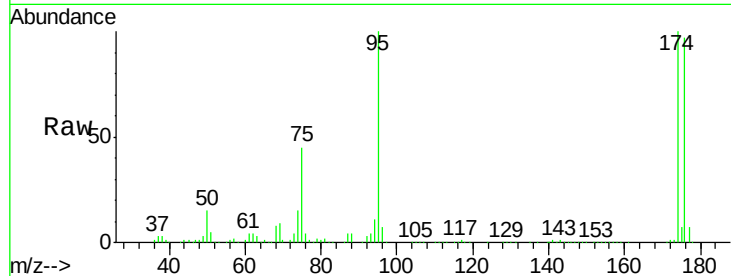




#62
4-Bromofluorobenzene
Concen: 45.81 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003632.D
Acq: 24 Jul 2018 04:56

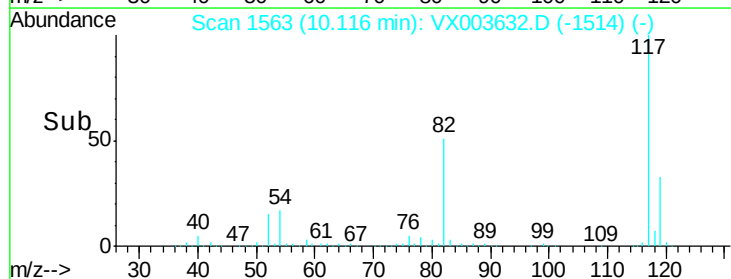
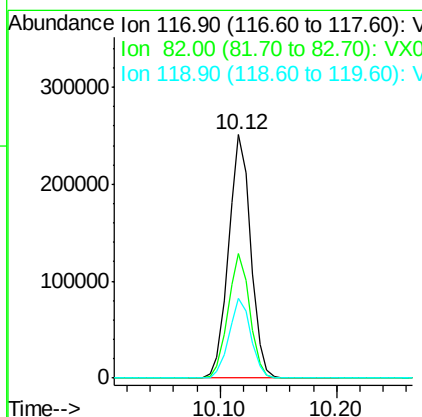
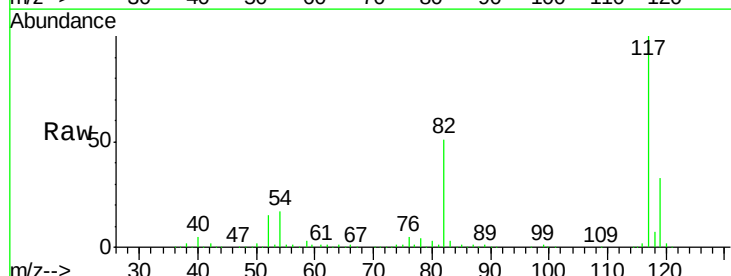
Instrument :
MSVOA_X
ClientSampleId :

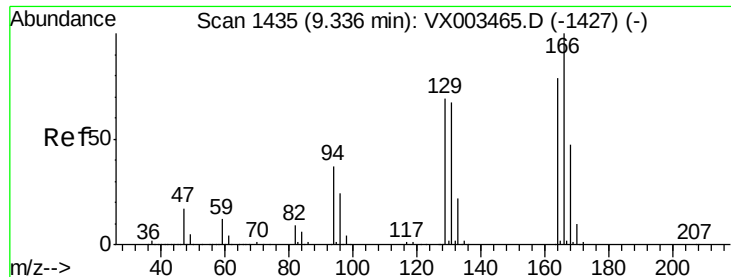
Tot Ion: 95 Resp: 167761
Ion Ratio Lower Upper
95 100
174 102.9 0.0 187.4
176 99.9 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003632.D
Acq: 24 Jul 2018 04:56

Tgt Ion: 117 Resp: 331451
Ion Ratio Lower Upper
117 100
82 51.1 45.0 67.4
119 32.9 25.8 38.6





#64

Tetrachloroethene

Concen: 0.42 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 1703

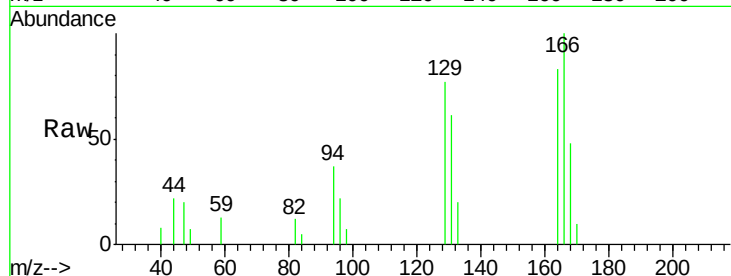
Ion Ratio Lower Upper

164 100

166 119.9 102.9 154.3

129 91.8 68.6 102.8

131 72.6 66.8 100.2

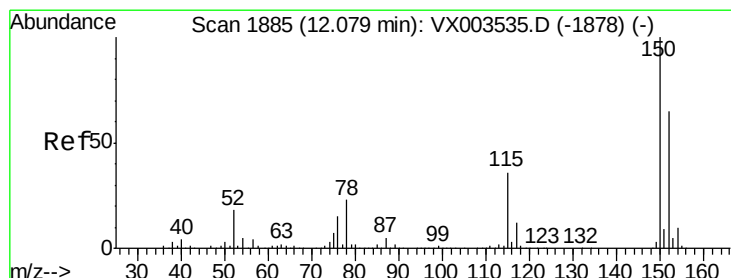
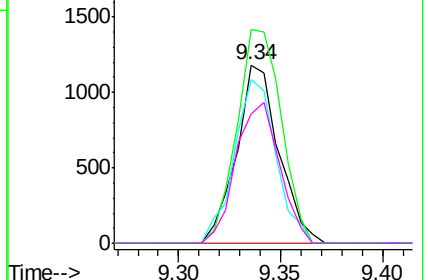
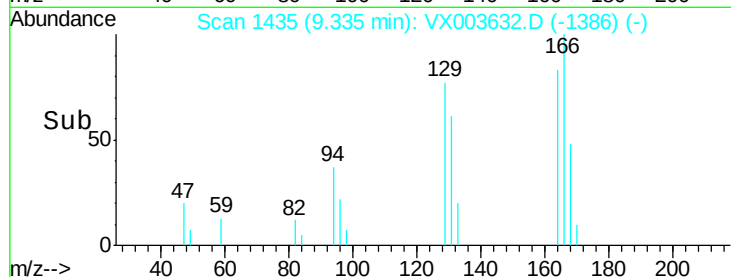


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

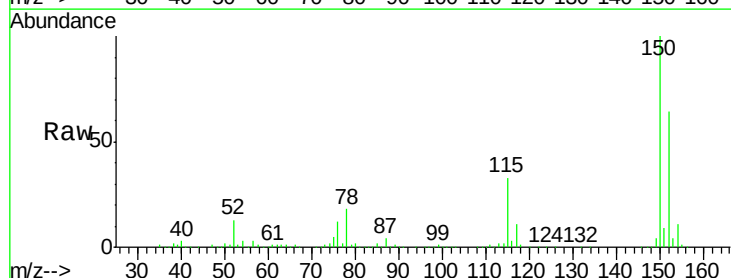
Tgt Ion:152 Resp: 189419

Ion Ratio Lower Upper

152 100

115 52.0 40.1 120.2

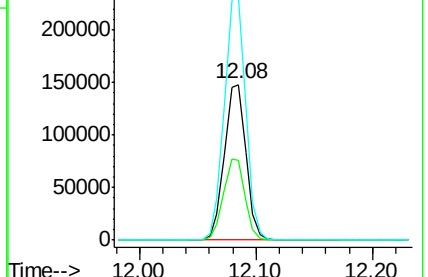
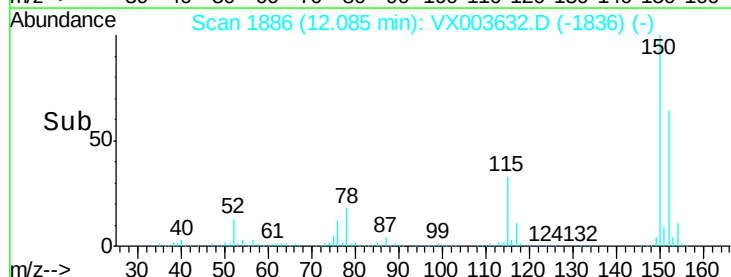
150 155.8 0.0 347.2

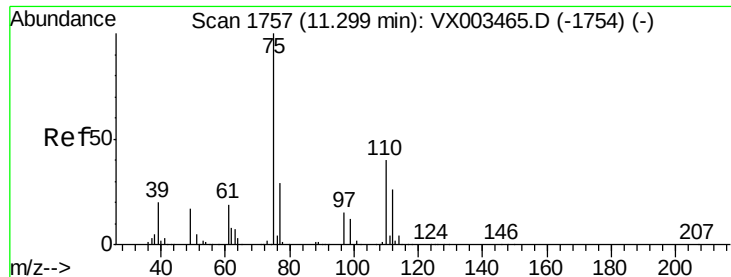


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Instrument :

MSVOA_X

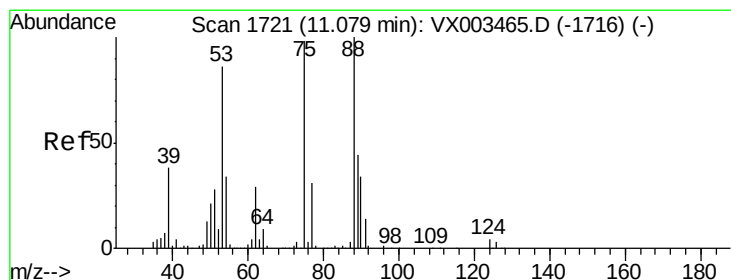
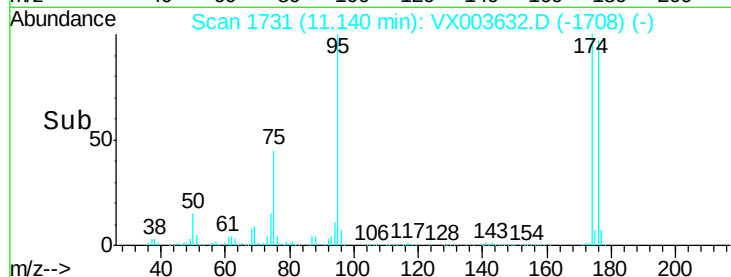
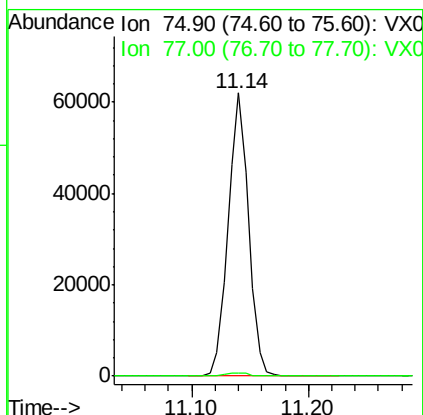
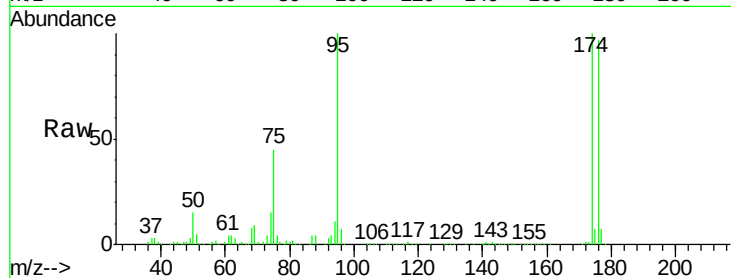
ClientSampleId :

Tot Ion: 75 Resp: 75529

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003632.D

Acq: 24 Jul 2018 04:56

Tgt Ion: 75 Resp: 75529

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

