

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX010319\
 Data File : VX006897.D
 Acq On : 03 Jan 2019 16:18
 Operator : JC/MD
 Sample : K1032-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0647

Quant Time: Jan 04 00:21:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	648138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	972016	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	907579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	437992	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	333671	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
35) Dibromofluoromethane	5.51	113	300137	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
50) Toluene-d8	8.71	98	1164289	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
62) 4-Bromofluorobenzene	11.13	95	415858	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	

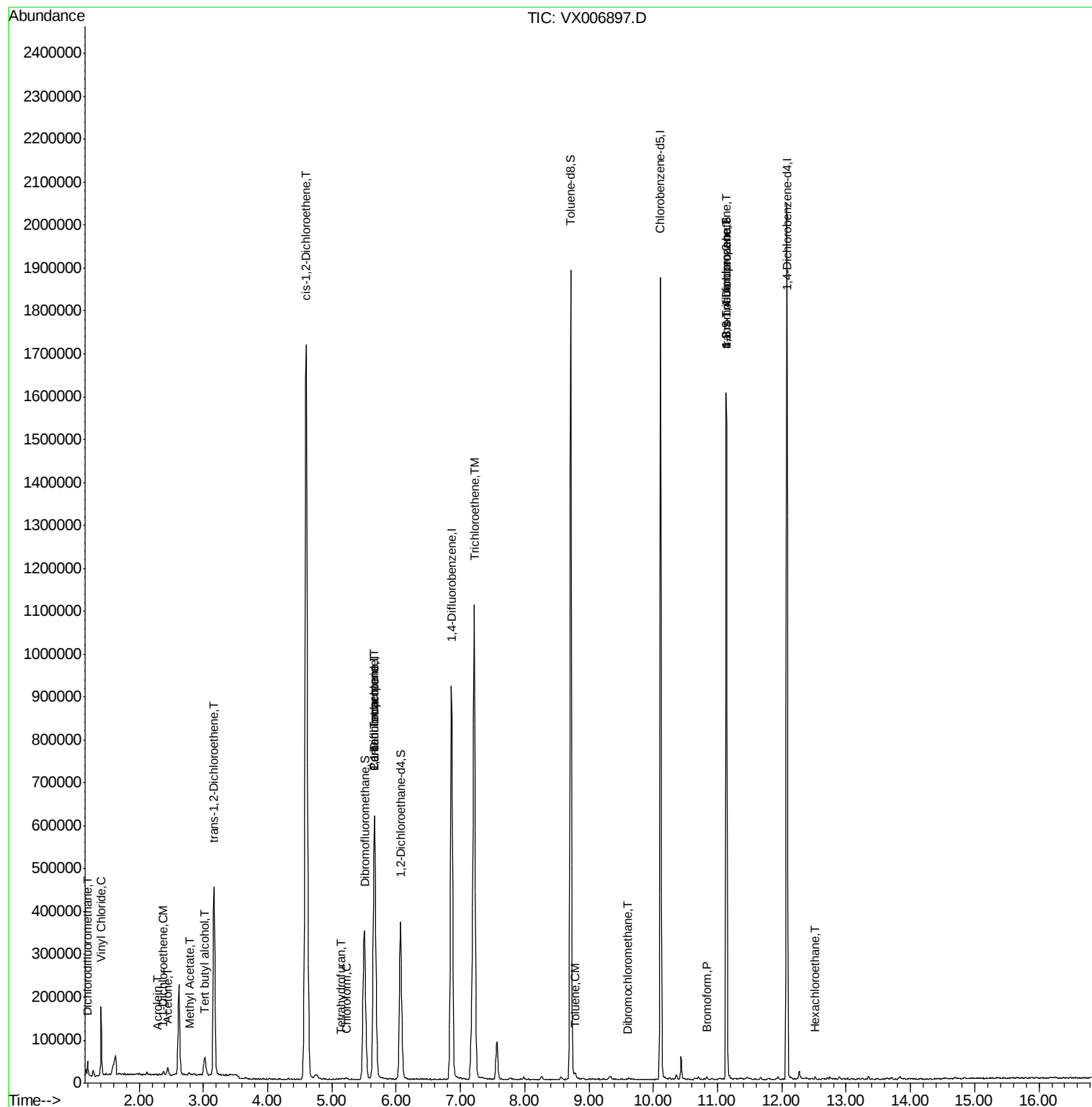
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	20030	3.378	ug/l	94
4) Vinyl Chloride	1.41	62	96722	14.497	ug/l	98
5) Bromomethane	1.64	94	735	Below Cal		100
11) Tert butyl alcohol	3.02	59	26832	17.212	ug/l #	77
12) 1,1-Dichloroethene	2.38	96	4186	0.723	ug/l #	82
13) Acrolein	2.29	56	638	0.607	ug/l #	13
16) Acetone	2.45	43	18602	5.796	ug/l	94
18) Methyl Acetate	2.78	43	4990	0.529	ug/l #	72
21) trans-1,2-Dichloroethene	3.17	96	181171	28.236	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	1161596	164.084	ug/l	92
28) Bromochloromethane	5.02	49	262	Below Cal	#	23
29) Tetrahydrofuran	5.15	42	672	0.226	ug/l #	1
30) Chloroform	5.22	83	3098	0.281	ug/l #	71
36) 1,1-Dichloropropene	5.67	75	39249	4.875	ug/l #	48
38) Carbon Tetrachloride	5.67	117	57790	7.386	ug/l #	13
44) Trichloroethene	7.21	130	427270	57.688	ug/l	98
49) 1,4-Dioxane	7.76	88	122	Below Cal	#	1
52) Toluene	8.79	92	3535	0.224	ug/l	96
60) Dibromochloromethane	9.60	129	116	2.341	ug/l	92
71) Bromoform	10.85	173	110	4.478	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	198616	24.401	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	198616	72.205	ug/l #	10
90) Hexachloroethane	12.52	117	68	3.308	ug/l	75

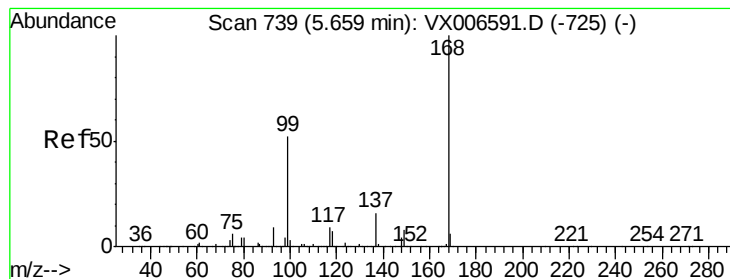
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 04 00:21:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

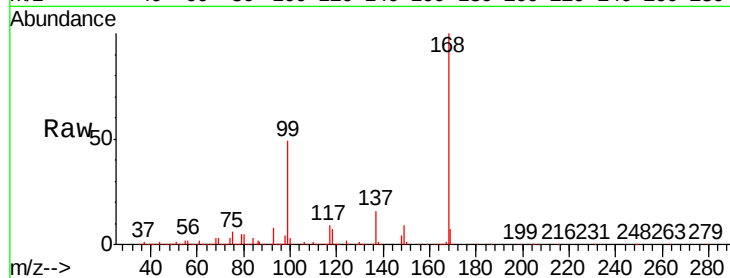
S32-0647

Tgt Ion:168 Resp: 648138

Ion Ratio Lower Upper

168 100

99 49.2 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

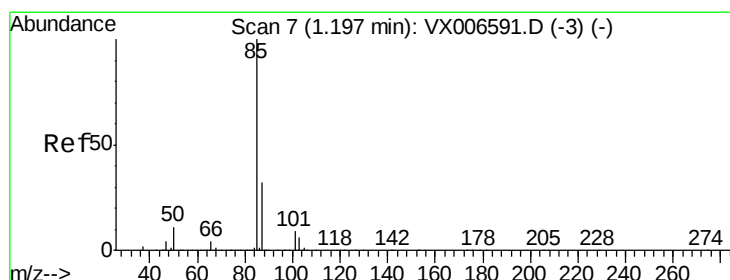
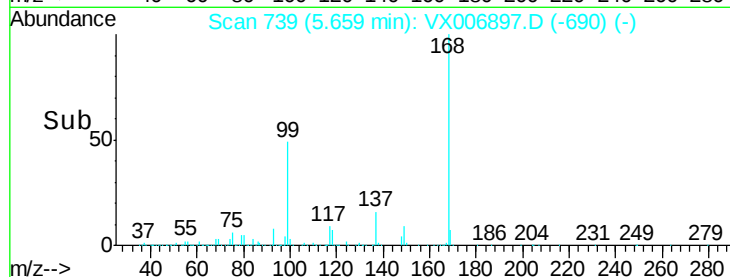
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 3.378 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX006897.D

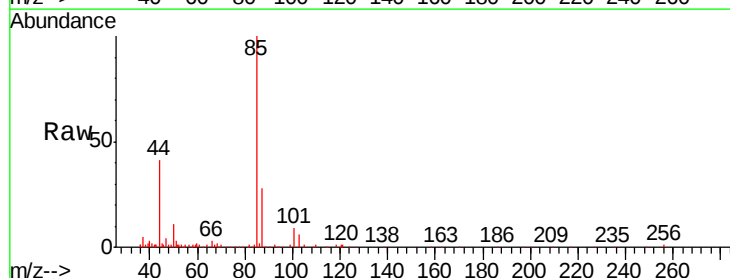
Acq: 03 Jan 2019 16:18

Tgt Ion: 85 Resp: 20030

Ion Ratio Lower Upper

85 100

87 28.4 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

20000

15000

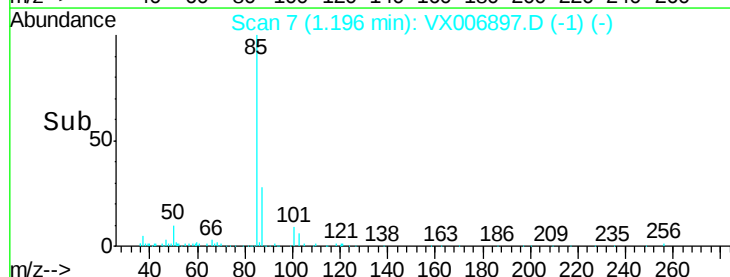
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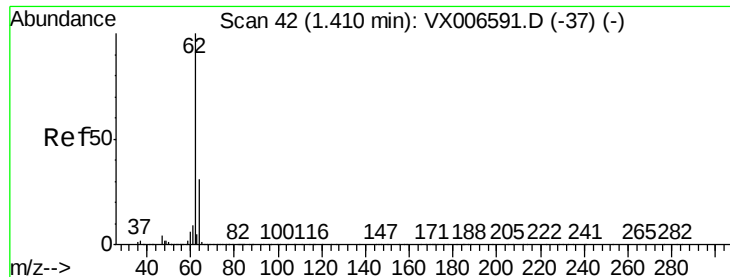
5000

0

1.15 1.20 1.25

Time-->





#4

Vinyl Chloride

Concen: 14.497 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

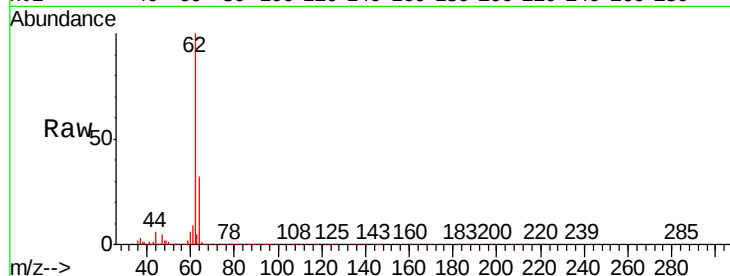
S32-0647

Tgt Ion: 62 Resp: 96722

Ion Ratio Lower Upper

62 100

64 32.3 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

100000

80000

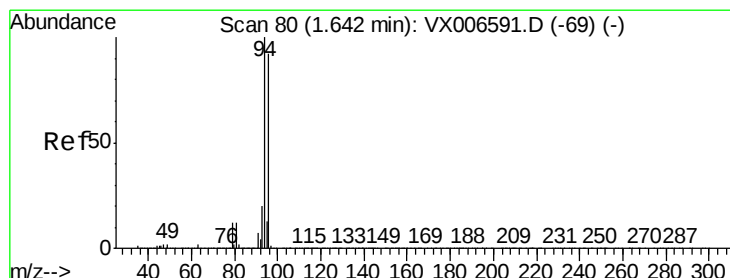
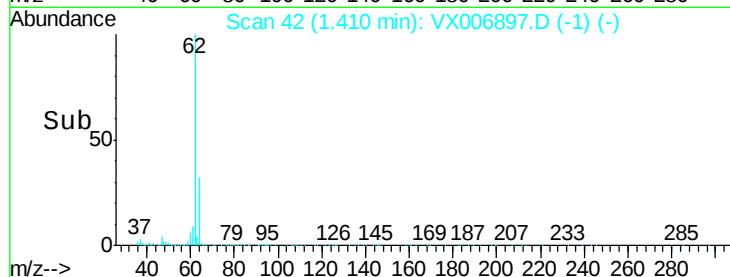
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006897.D

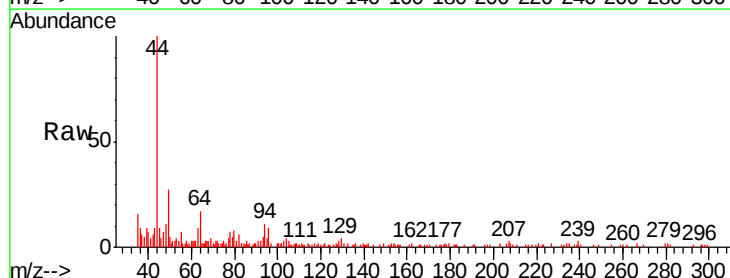
Acq: 03 Jan 2019 16:18

Tgt Ion: 94 Resp: 735

Ion Ratio Lower Upper

94 100

96 92.2 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

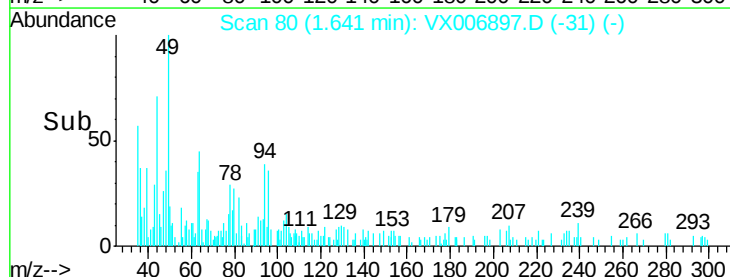
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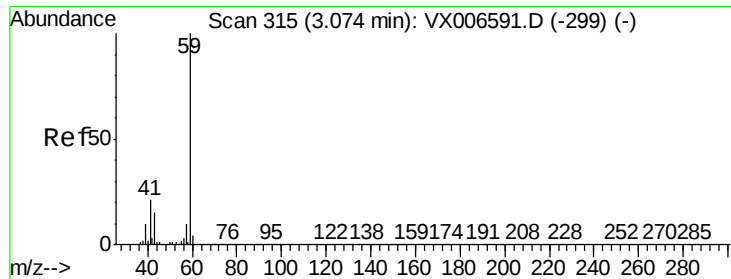
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 17.212 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

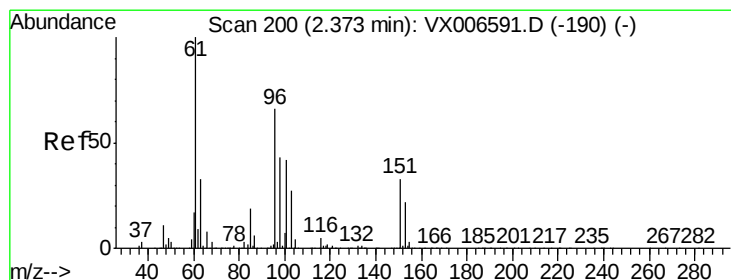
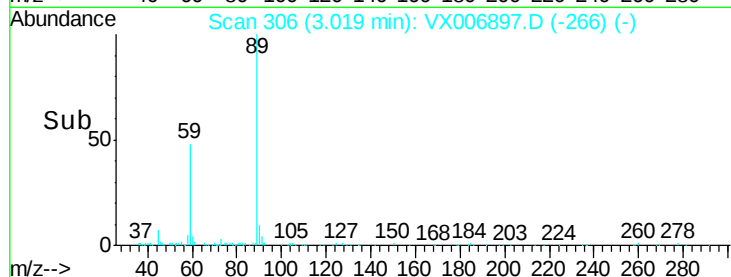
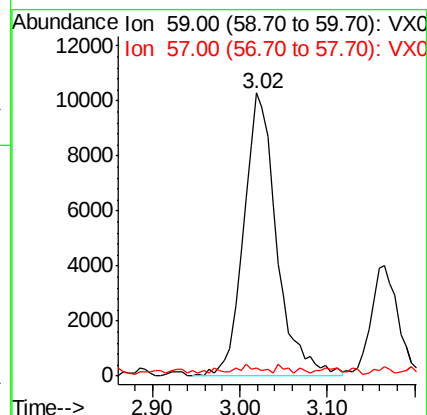
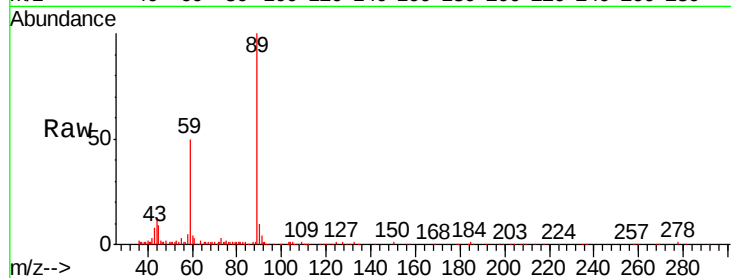
S32-0647

Tgt Ion: 59 Resp: 26832

Ion Ratio Lower Upper

59 100

57 2.1 8.5 12.7#



#12

1,1-Dichloroethene

Concen: 0.723 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

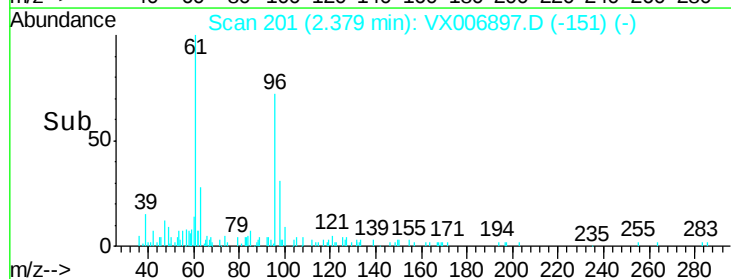
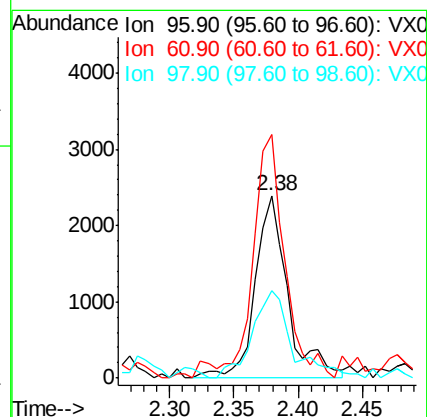
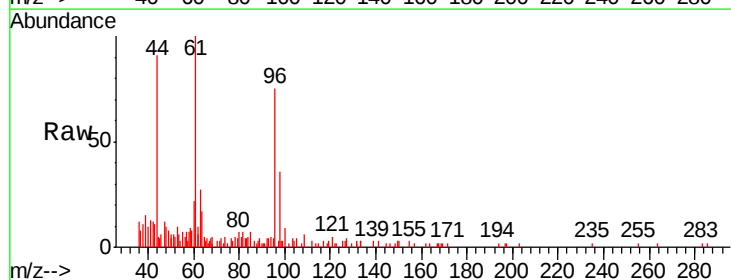
Tgt Ion: 96 Resp: 4186

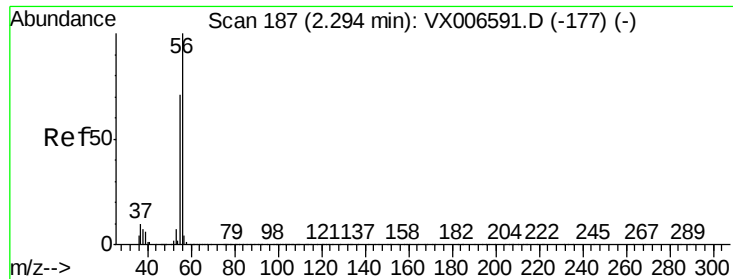
Ion Ratio Lower Upper

96 100

61 133.4 121.4 182.2

98 44.9 51.9 77.9#

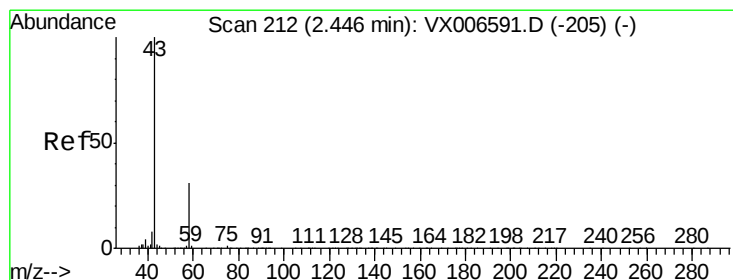
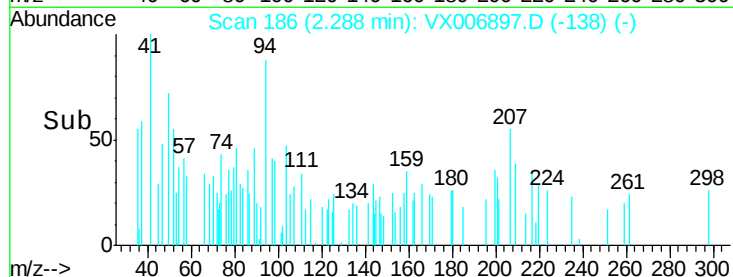
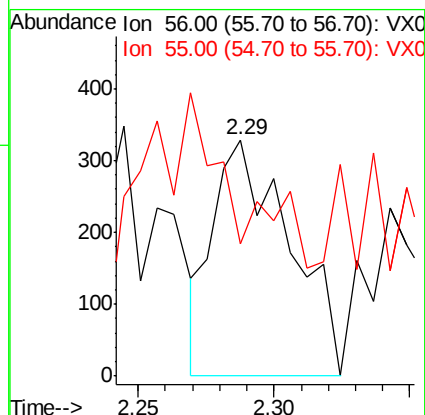
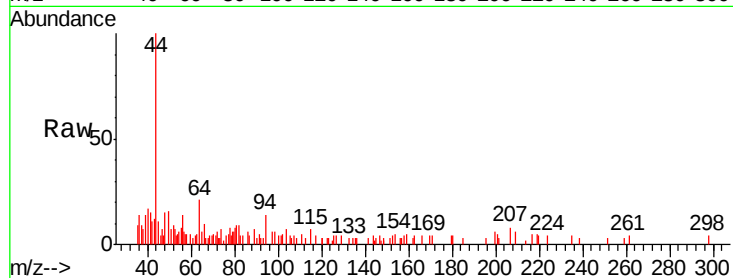




#13
Acrolein
Concen: 0.607 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX006897.D
Acq: 03 Jan 2019 16:18

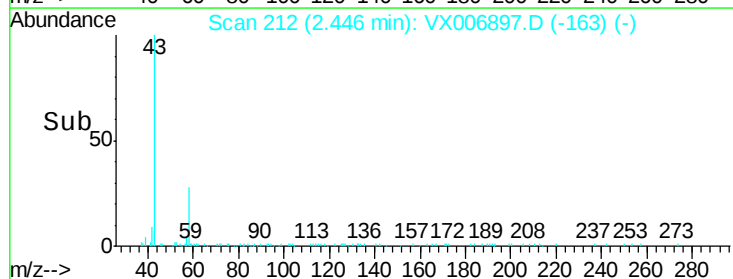
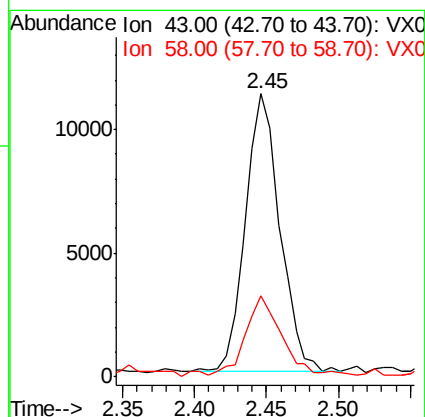
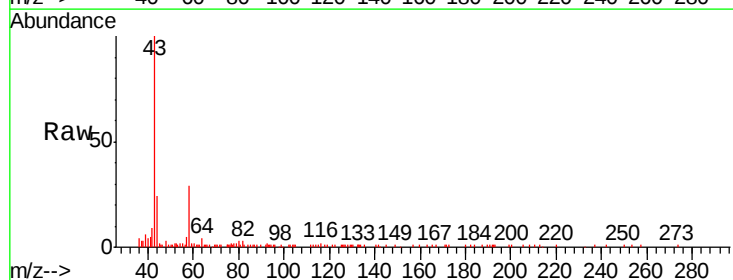
Instrument :
MSVOA_X
ClientSampleId :
S32-0647

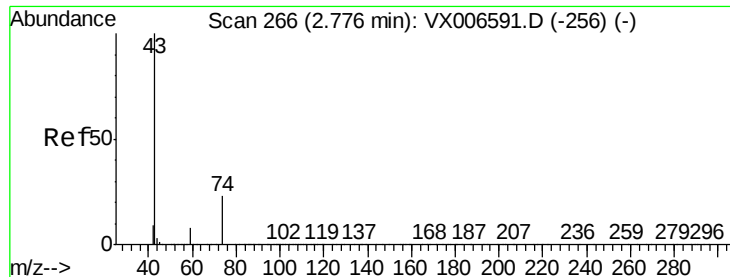
Tgt Ion: 56 Resp: 638
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#



#16
Acetone
Concen: 5.796 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006897.D
Acq: 03 Jan 2019 16:18

Tgt Ion: 43 Resp: 18602
Ion Ratio Lower Upper
43 100
58 27.8 25.0 37.6

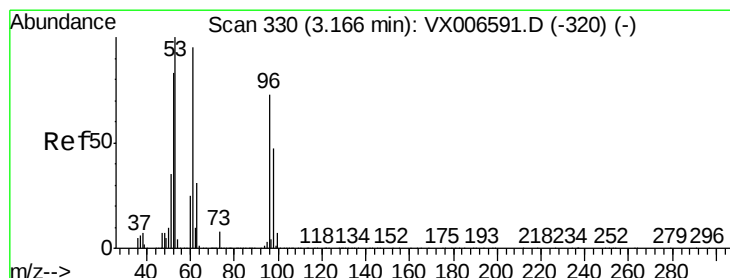
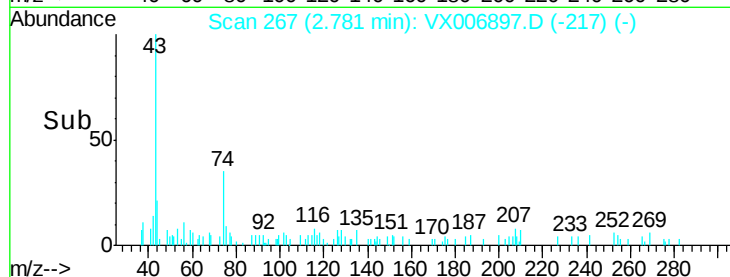
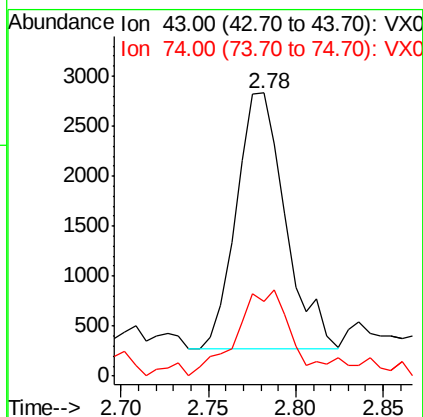
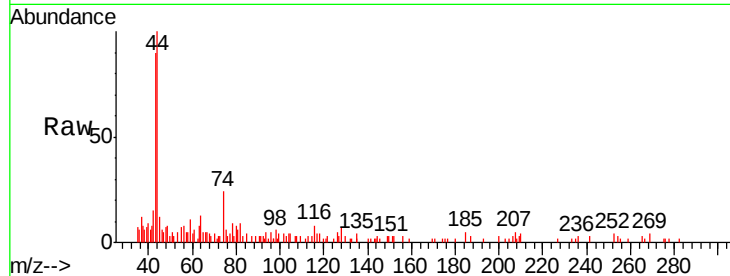




#18
Methyl Acetate
Concen: 0.529 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006897.D
Acq: 03 Jan 2019 16:18

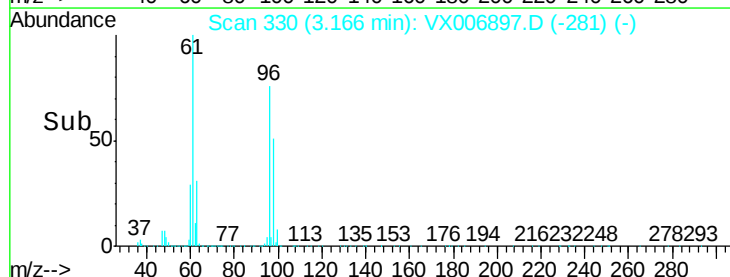
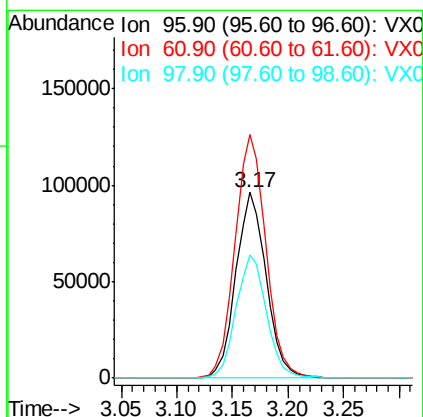
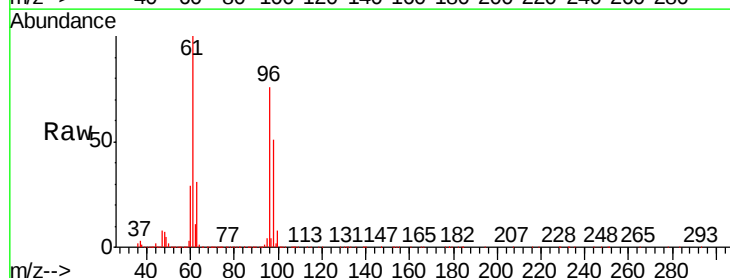
Instrument :
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ClientSampleId :
S32-0647

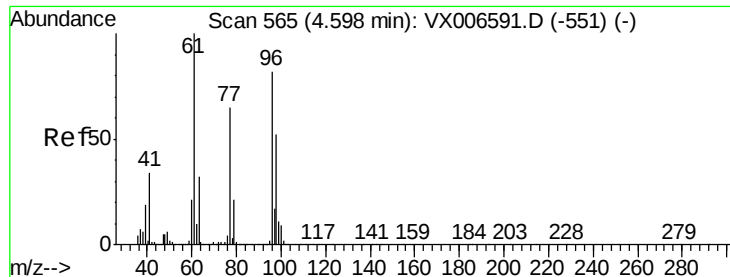
Tgt Ion: 43 Resp: 4990
Ion Ratio Lower Upper
43 100
74 37.0 18.6 28.0#



#21
trans-1,2-Dichloroethene
Concen: 28.236 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX006897.D
Acq: 03 Jan 2019 16:18

Tgt Ion: 96 Resp: 181171
Ion Ratio Lower Upper
96 100
61 131.1 103.7 155.5
98 66.3 51.0 76.6



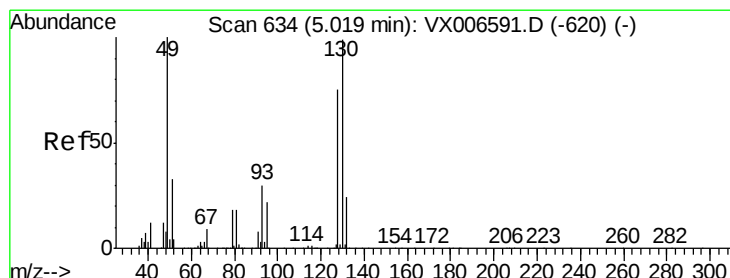
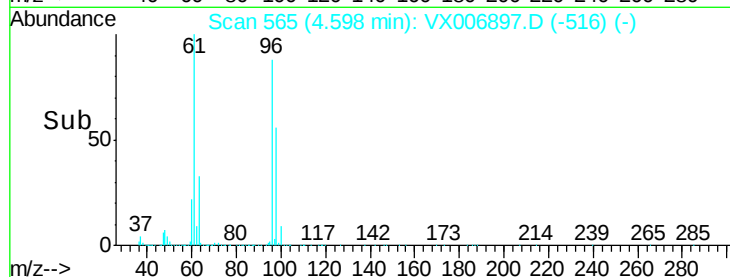
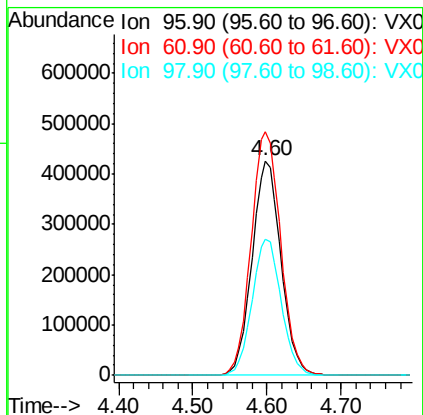
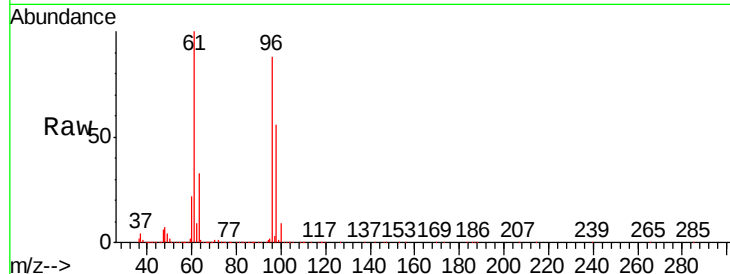


#27

cis-1,2-Dichloroethene
Concen: 164.084 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX006897.D
Acq: 03 Jan 2019 16:18

Instrument :
MSVOA_X
ClientSampleId :
S32-0647

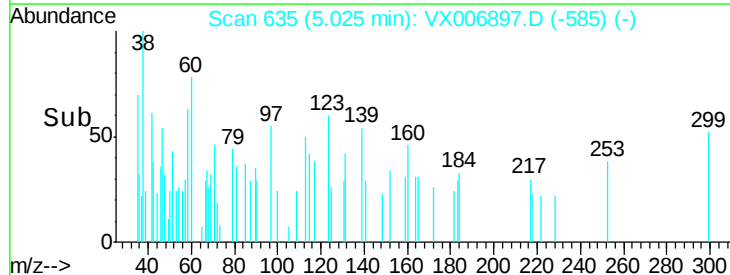
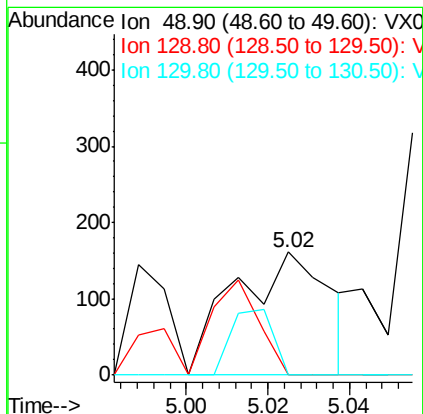
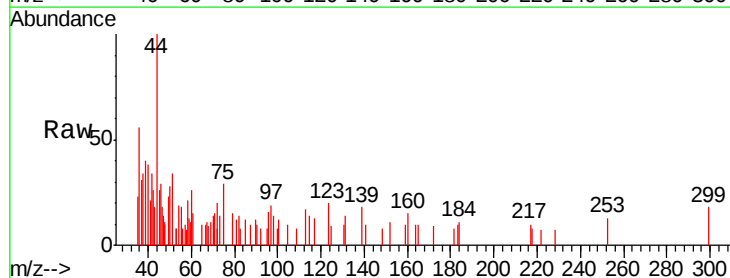
Tgt Ion: 96 Resp: 1161596
Ion Ratio Lower Upper
96 100
61 116.2 0.0 258.6
98 64.0 0.0 132.0

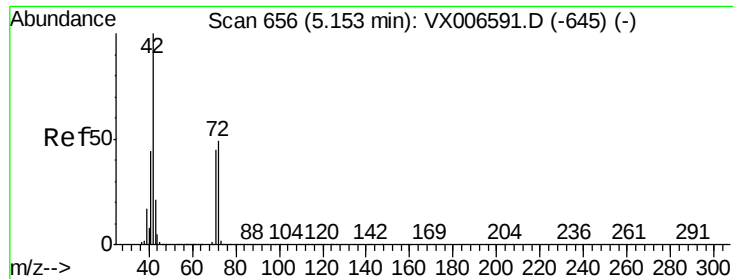


#28

Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006897.D
Acq: 03 Jan 2019 16:18

Tgt Ion: 49 Resp: 262
Ion Ratio Lower Upper
49 100
129 53.8 0.0 5.4#
130 23.3 77.7 116.5#





#29

Tetrahydrofuran

Concen: 0.226 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

S32-0647

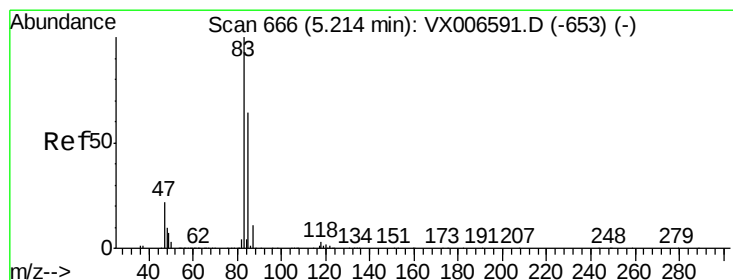
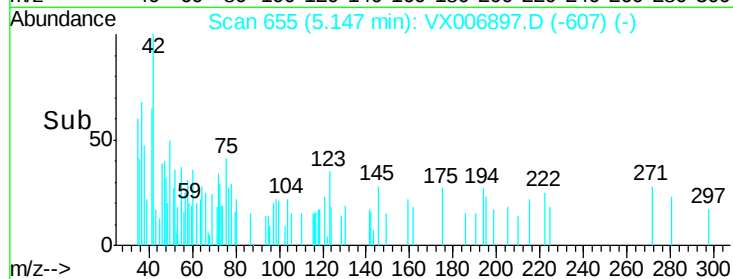
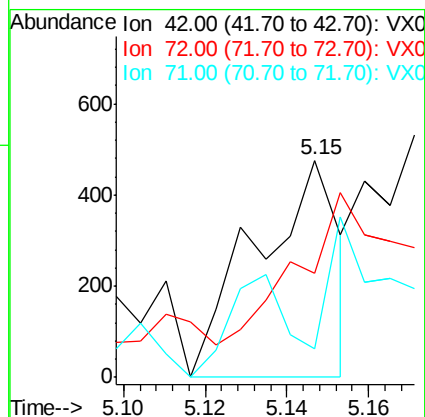
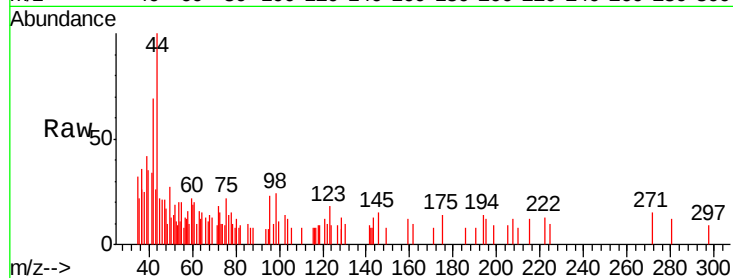
Tgt Ion: 42 Resp: 672

Ion Ratio Lower Upper

42 100

72 165.2 38.9 58.3#

71 83.5 36.2 54.4#



#30

Chloroform

Concen: 0.281 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX006897.D

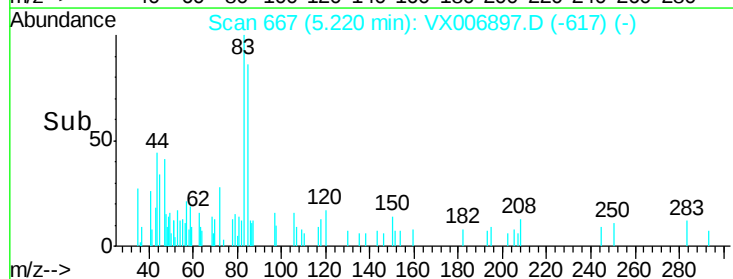
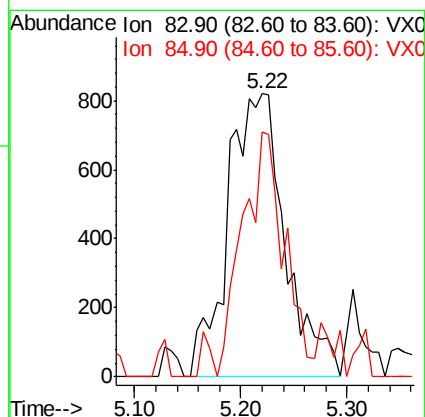
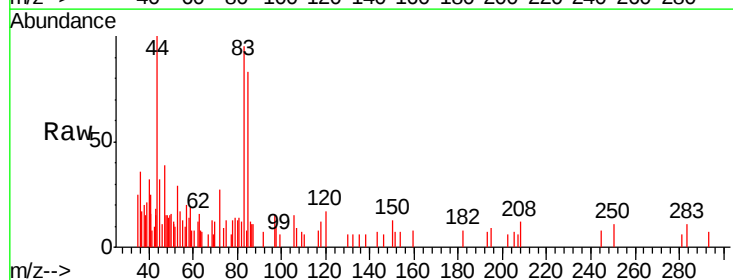
Acq: 03 Jan 2019 16:18

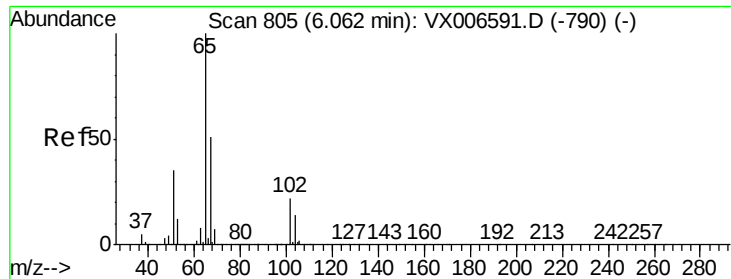
Tgt Ion: 83 Resp: 3098

Ion Ratio Lower Upper

83 100

85 86.5 51.2 76.8#





#33

1,2-Dichloroethane-d4

Concen: 47.767 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

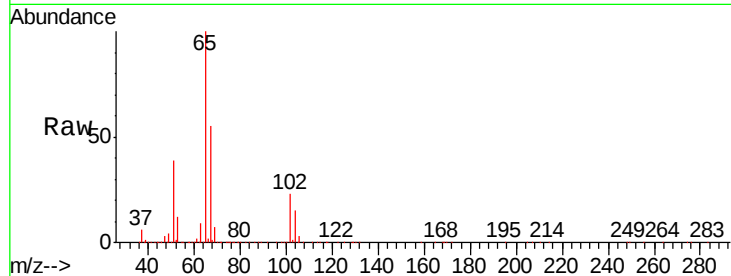
S32-0647

Tgt Ion: 65 Resp: 333671

Ion Ratio Lower Upper

65 100

67 53.7 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

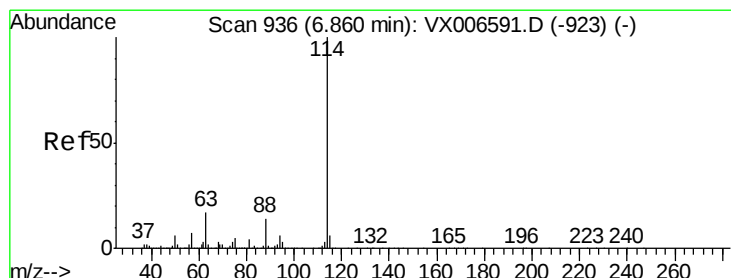
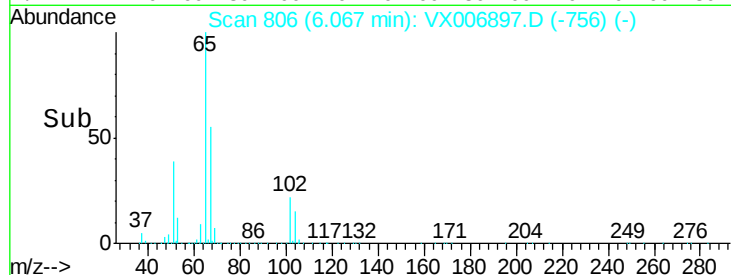
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

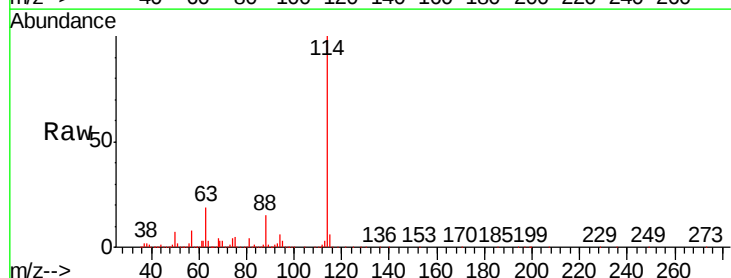
Tgt Ion: 114 Resp: 972016

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

88 14.6 0.0 28.8



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

6.86

500000

400000

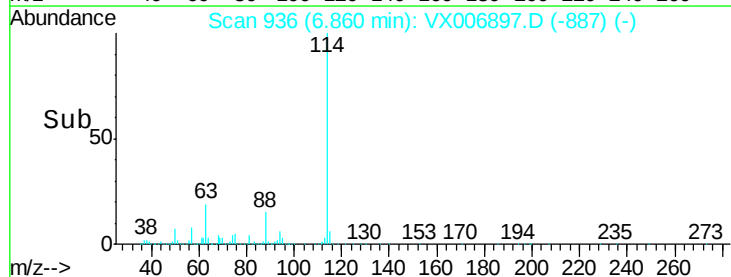
300000

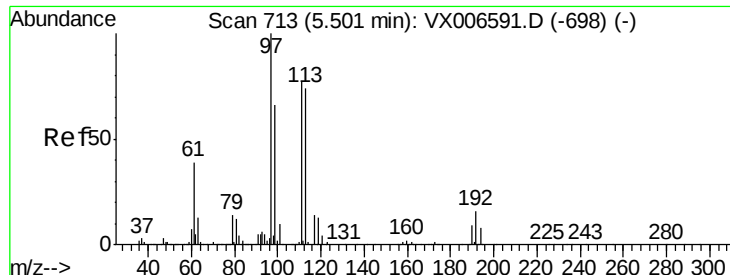
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.828 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampled :

S32-0647

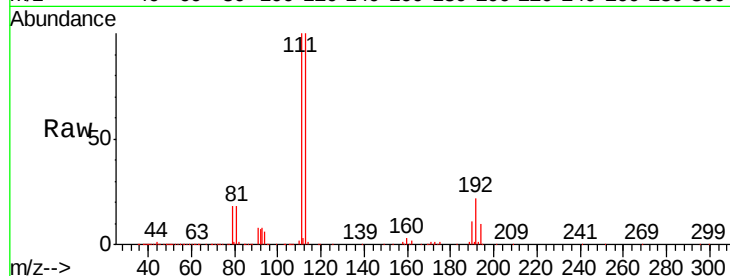
Tgt Ion:113 Resp: 300137

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

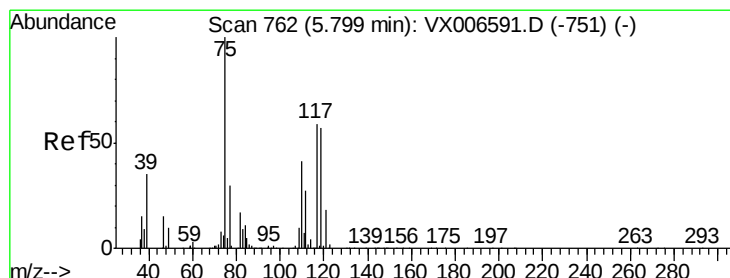
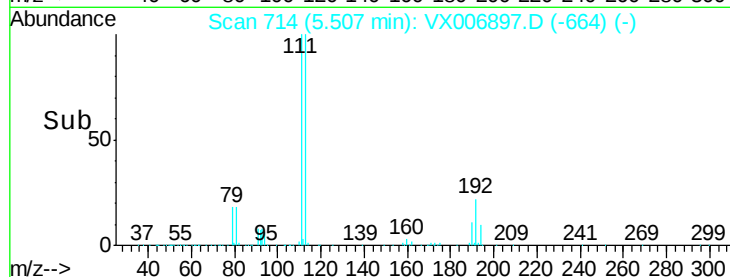
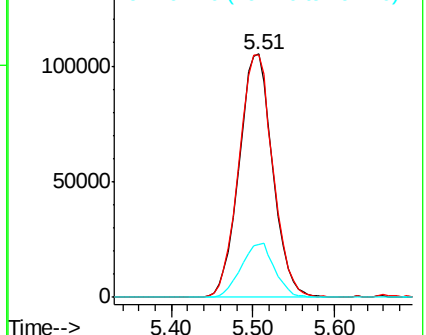
192 22.3 16.7 25.1



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: 4.875 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

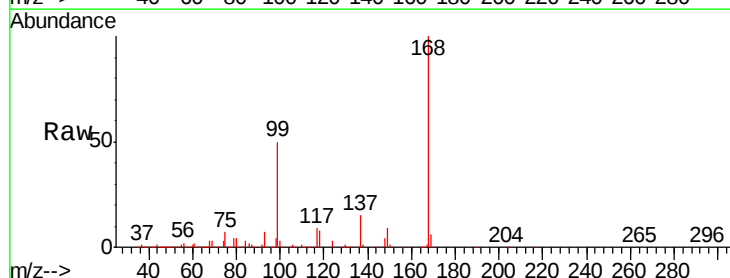
Tgt Ion: 75 Resp: 39249

Ion Ratio Lower Upper

75 100

110 10.3 20.2 60.5#

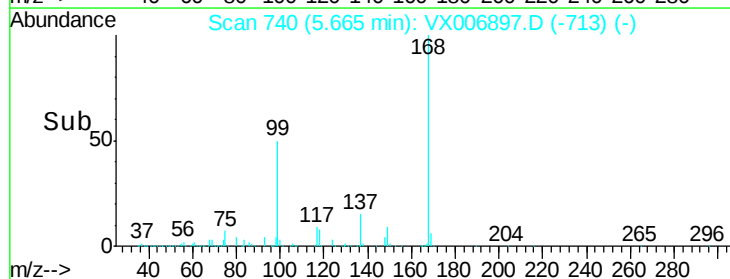
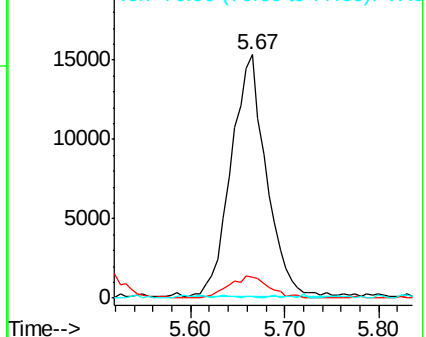
77 0.0 24.8 37.2#

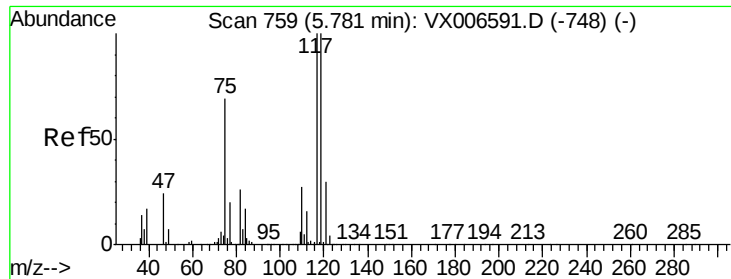


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.386 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

S32-0647

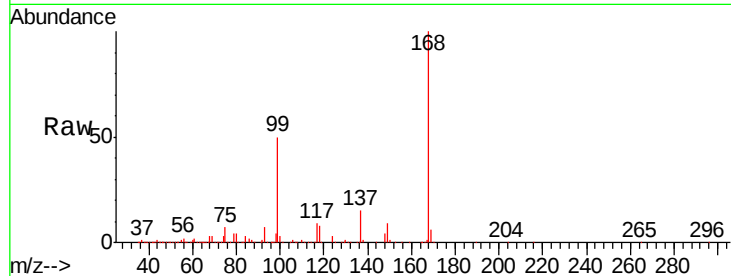
Tgt Ion:117 Resp: 57790

Ion Ratio Lower Upper

117 100

119 3.3 79.4 119.2#

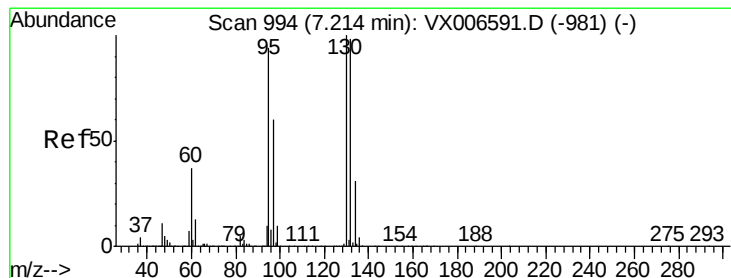
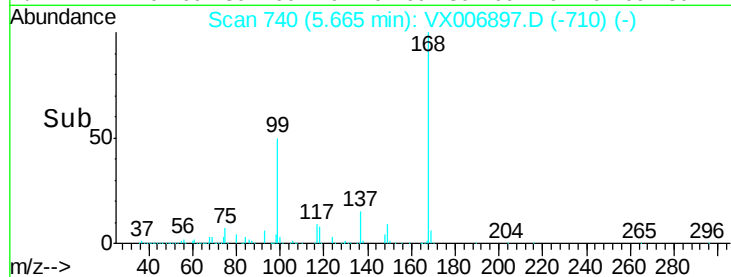
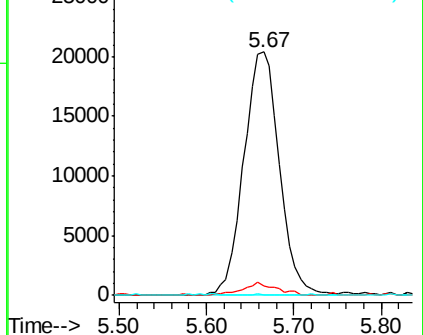
121 0.0 24.0 36.0#



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: 57.688 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006897.D

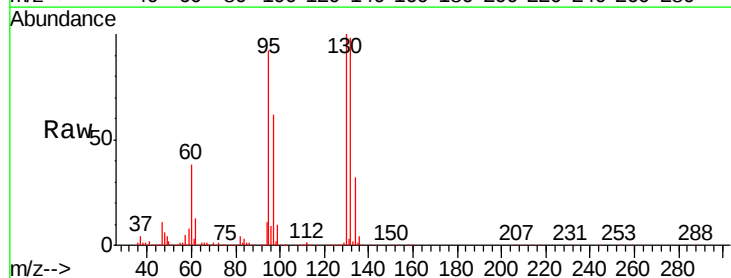
Acq: 03 Jan 2019 16:18

Tgt Ion:130 Resp: 427270

Ion Ratio Lower Upper

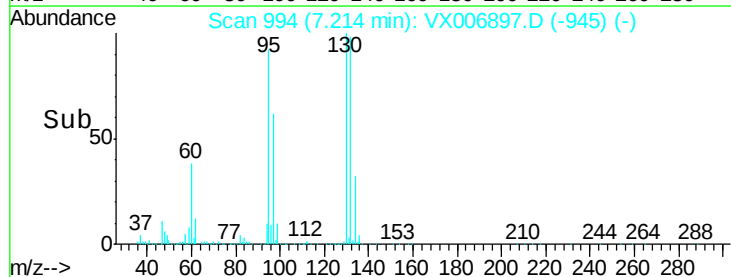
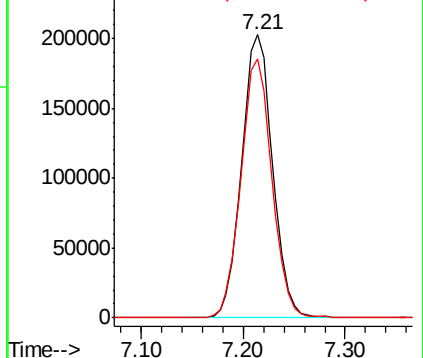
130 100

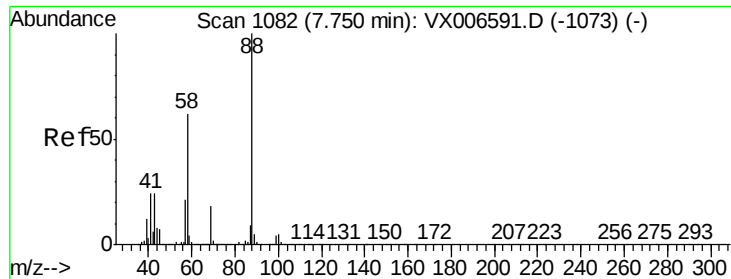
95 91.7 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampled :

S32-0647

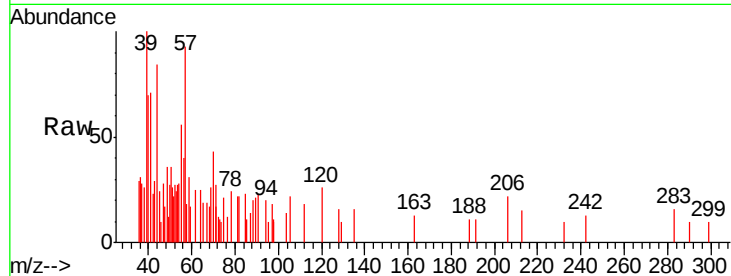
Tgt Ion: 88 Resp: 122

Ion Ratio Lower Upper

88 100

43 552.5 22.2 33.4#

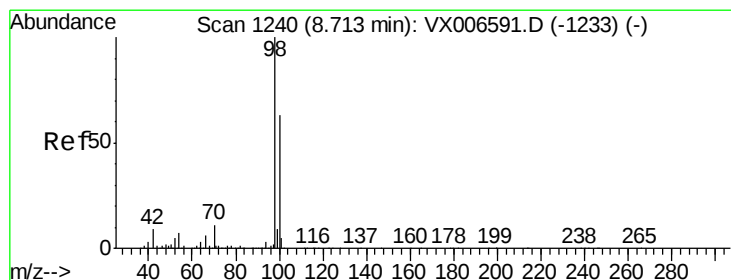
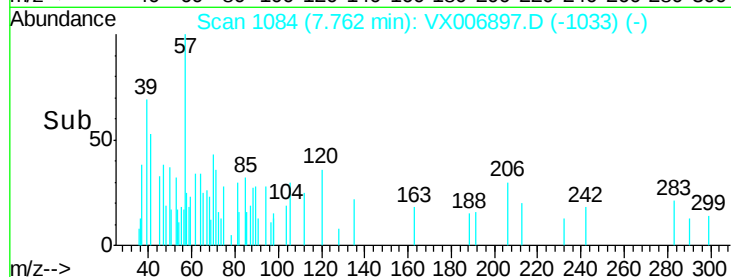
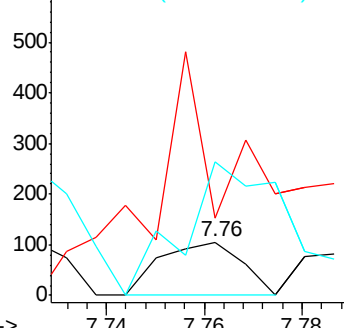
58 320.5 51.0 76.4#



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



#50

Toluene-d8

Concen: 50.242 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006897.D

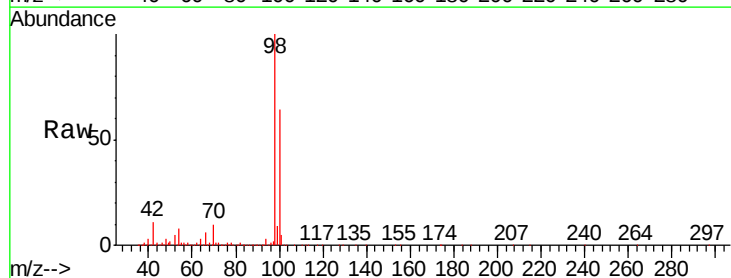
Acq: 03 Jan 2019 16:18

Tgt Ion: 98 Resp: 1164289

Ion Ratio Lower Upper

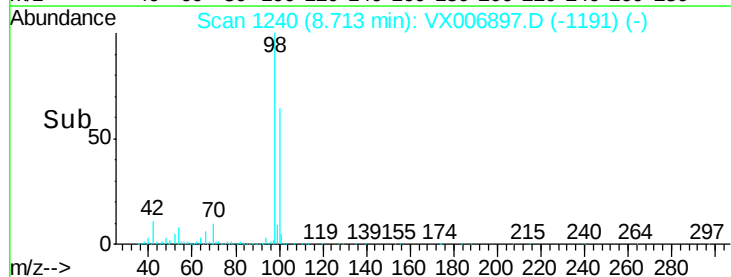
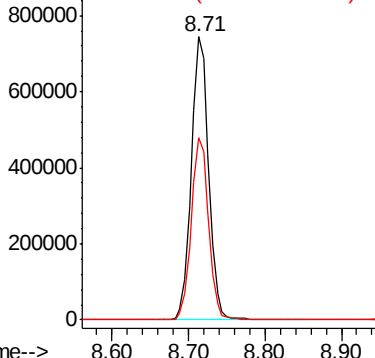
98 100

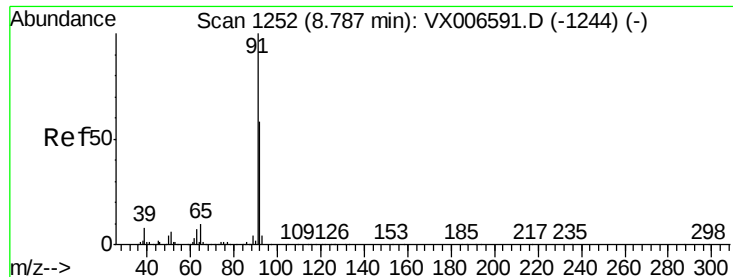
100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.224 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampled :

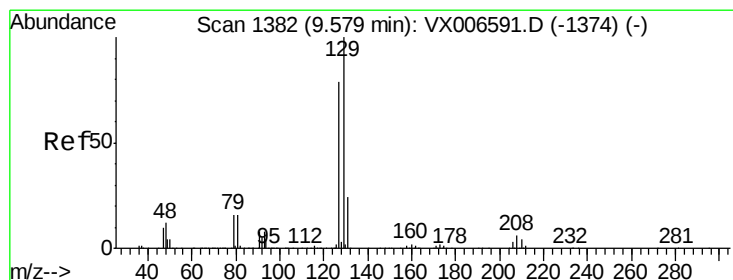
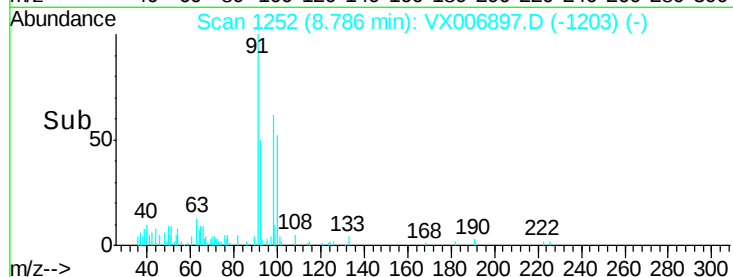
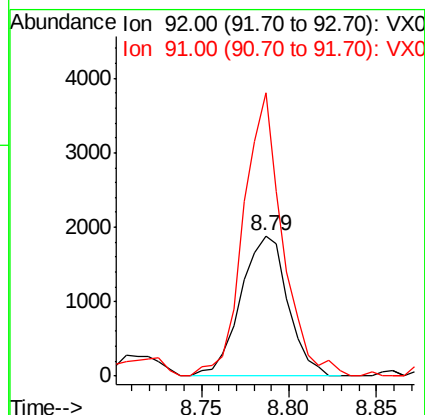
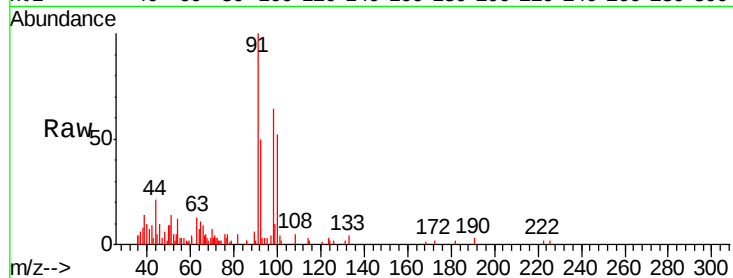
S32-0647

Tgt Ion: 92 Resp: 3535

Ion Ratio Lower Upper

92 100

91 166.6 137.6 206.4



#60

Dibromochloromethane

Concen: 2.341 ug/l

RT: 9.60 min Scan# 1385

Delta R.T. 0.02 min

Lab File: VX006897.D

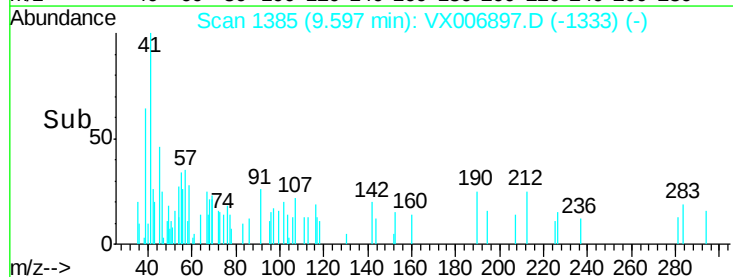
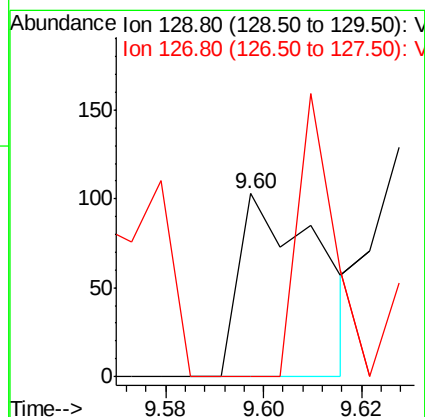
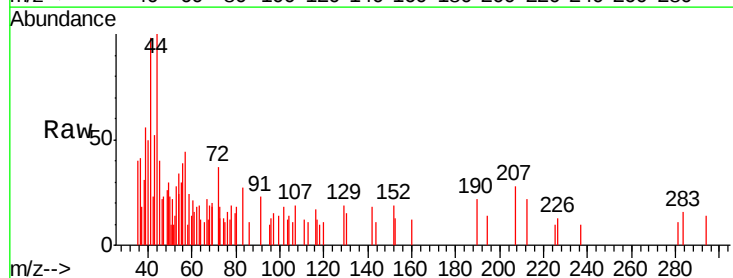
Acq: 03 Jan 2019 16:18

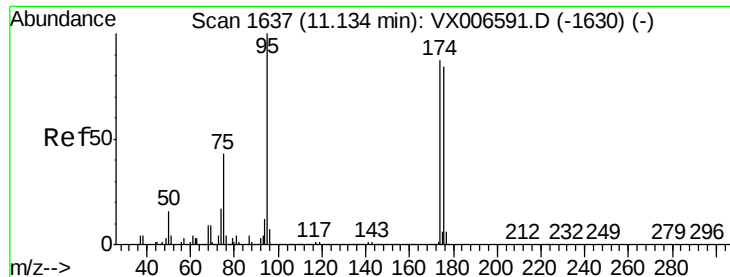
Tgt Ion: 129 Resp: 116

Ion Ratio Lower Upper

129 100

127 85.3 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 48.998 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

S32-0647

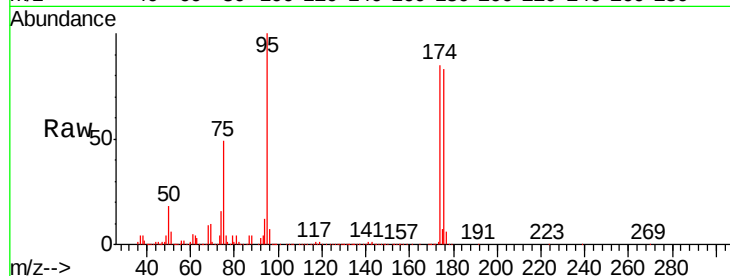
Tgt Ion: 95 Resp: 415858

Ion Ratio Lower Upper

95 100

174 91.1 0.0 182.2

176 90.0 0.0 178.8

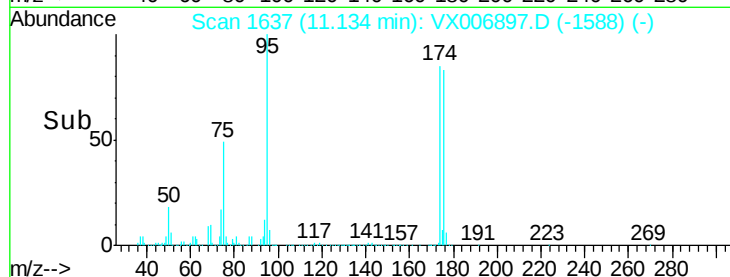


Abundance Ion 94.90 (94.60 to 95.60): VX0

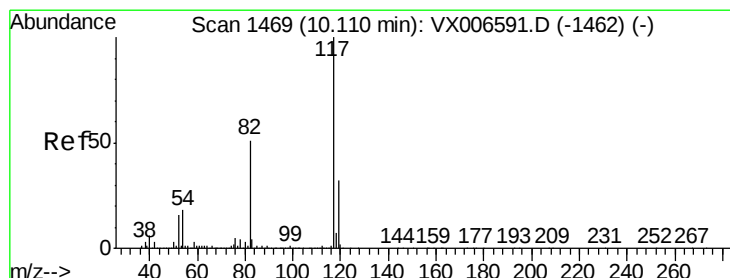
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

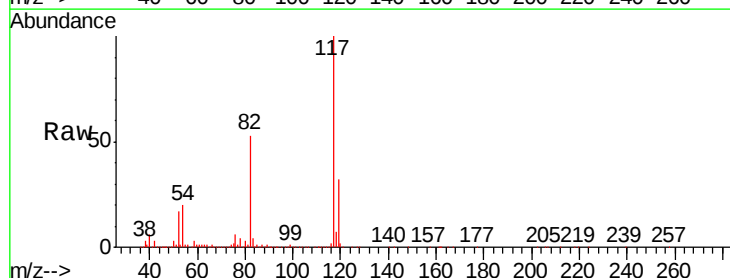
Tgt Ion: 117 Resp: 907579

Ion Ratio Lower Upper

117 100

82 53.0 41.0 61.6

119 32.1 25.4 38.0

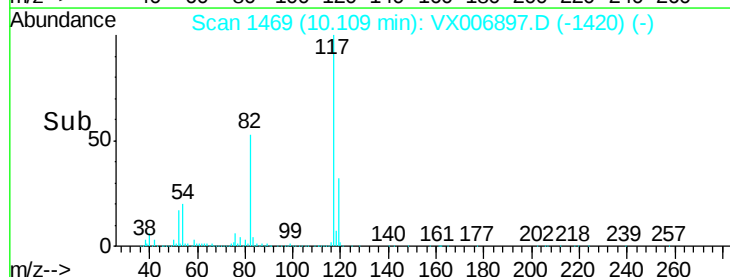


Abundance Ion 116.90 (116.60 to 117.60): V

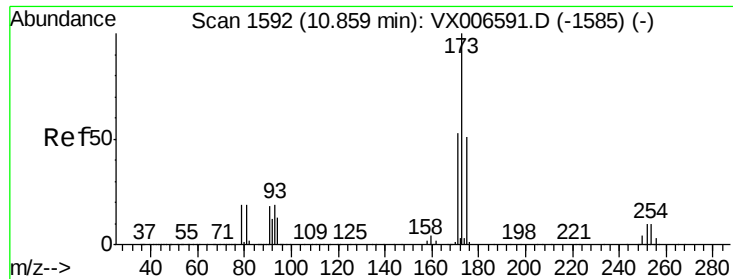
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

Time-->



Time-->



#71

Bromoform

Concen: 4.478 ug/l

RT: 10.85 min Scan# 1590

Delta R.T. -0.01 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampled :

S32-0647

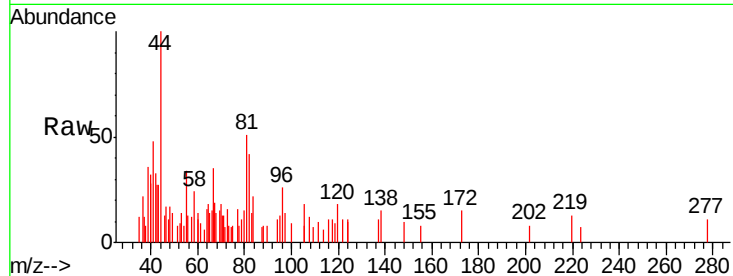
Tgt Ion:173 Resp: 110

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

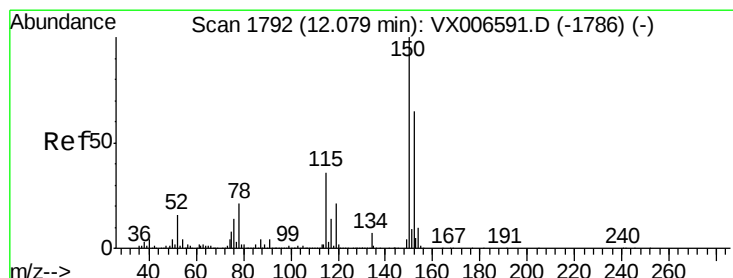
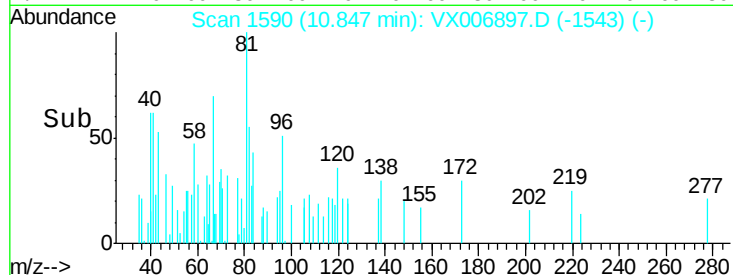
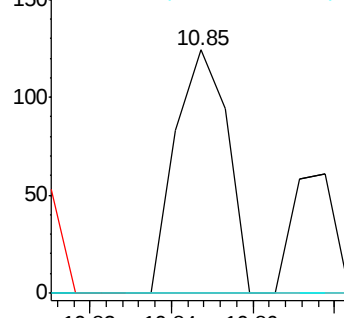
254 0.0 0.2 0.2#



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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

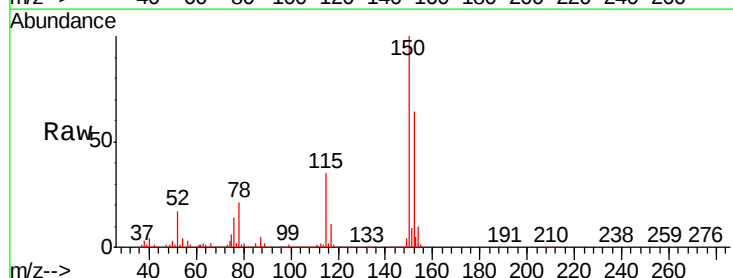
Tgt Ion:152 Resp: 437992

Ion Ratio Lower Upper

152 100

115 55.5 39.1 117.2

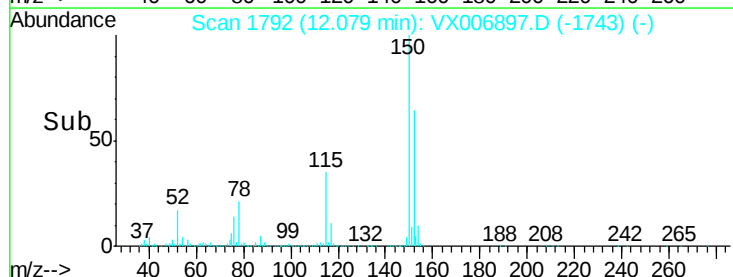
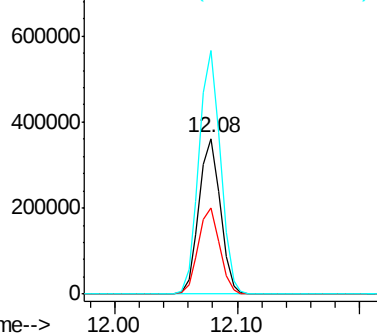
150 156.9 0.0 344.8

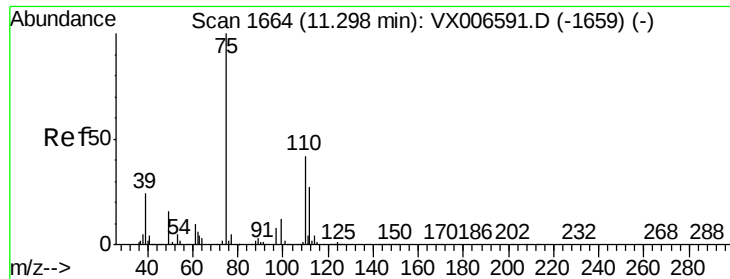


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

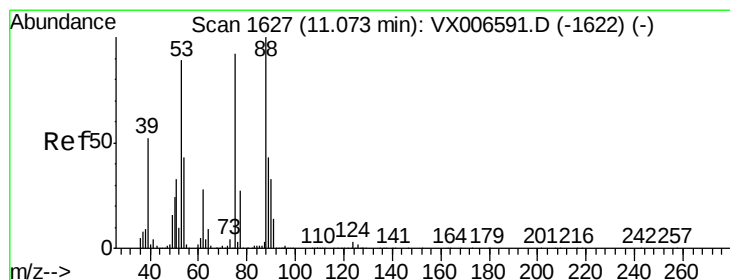
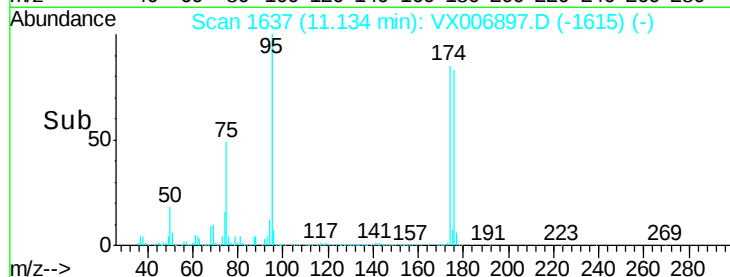
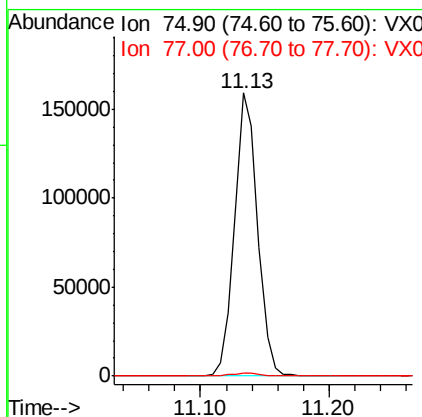
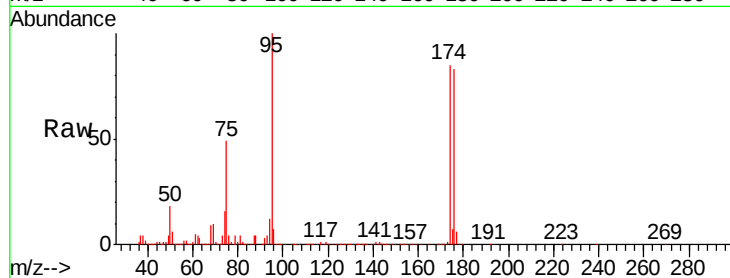




#76
 1,2,3-Trichloropropane
 Concen: 24.401 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006897.D
 Acq: 03 Jan 2019 16:18

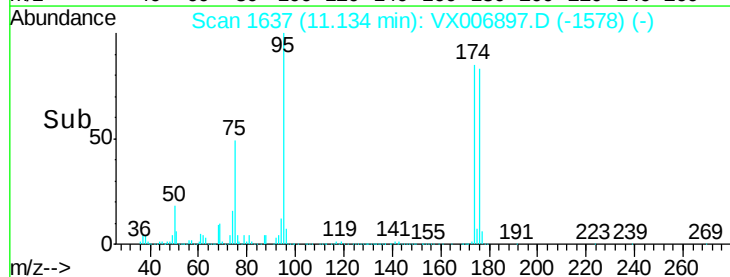
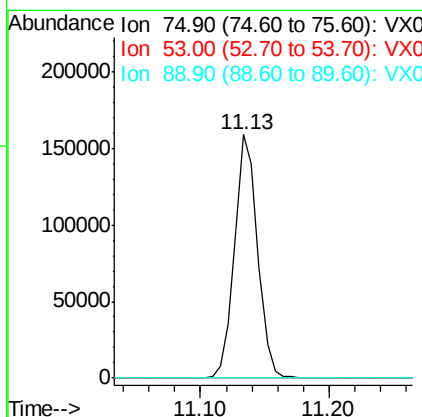
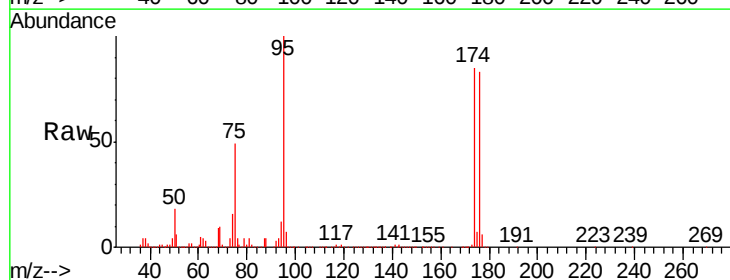
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0647

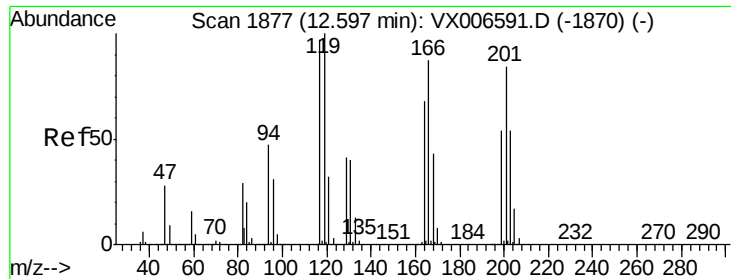
Tgt Ion: 75 Resp: 198616
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.205 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006897.D
 Acq: 03 Jan 2019 16:18

Tgt Ion: 75 Resp: 198616
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.308 ug/l

RT: 12.52 min Scan# 1865

Delta R.T. -0.07 min

Lab File: VX006897.D

Acq: 03 Jan 2019 16:18

Instrument :

MSVOA_X

ClientSampleId :

S32-0647

Tgt Ion:117 Resp: 68

Ion Ratio Lower Upper

117 100

201 63.2 42.9 128.7

