

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041519\
 Data File : VX008972.D
 Acq On : 15 Apr 2019 19:52
 Operator : JC/SP
 Sample : K2424-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DSN001

Quant Time: Apr 16 03:26:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 02:27:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	265937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	425526	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	363662	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	153851	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	172108	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	
35) Dibromofluoromethane	5.50	113	126552	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	
50) Toluene-d8	8.71	98	526607	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.13	95	174621	45.42	ug/l	0.00
Spiked Amount			Recovery	=	90.84%	

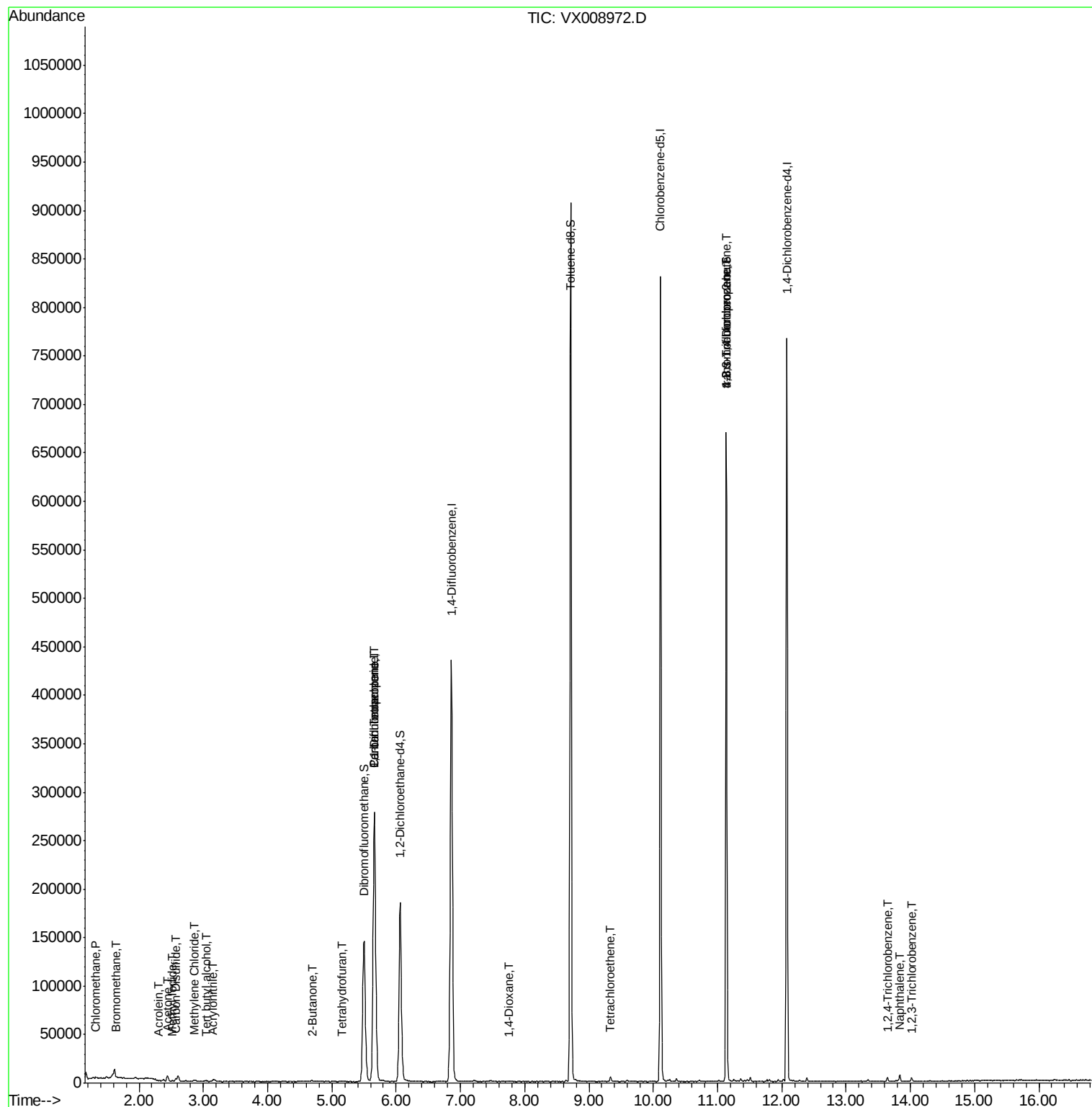
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	825	0.219	ug/l #	77
5) Bromomethane	1.65	94	856	4.193	ug/l	82
10) Methyl Iodide	2.51	142	1033	4.730	ug/l #	95
11) Tert butyl alcohol	3.04	59	1221	1.468	ug/l #	73
13) Acrolein	2.30	56	499	0.694	ug/l	100
15) Acrylonitrile	3.15	53	1175	0.556	ug/l #	92
16) Acetone	2.44	43	6966	3.584	ug/l	94
17) Carbon Disulfide	2.57	76	3563	1.667	ug/l	99
20) Methylene Chloride	2.87	84	685	0.206	ug/l	92
25) 2-Butanone	4.70	43	1336	0.430	ug/l #	88
28) Bromochloromethane	5.03	49	411	Below Cal	#	36
29) Tetrahydrofuran	5.15	42	459	0.221	ug/l #	64
36) 1,1-Dichloropropene	5.66	75	21084	4.791	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25053	6.715	ug/l #	16
49) 1,4-Dioxane	7.75	88	25	0.296	ug/l #	1
64) Tetrachloroethene	9.34	164	818	0.296	ug/l #	77
76) 1,2,3-Trichloropropane	11.13	75	89597	23.850	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	89597	61.229	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	990	0.270	ug/l	87
95) Naphthalene	13.83	128	3831	0.326	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.02	180	872	0.241	ug/l #	90

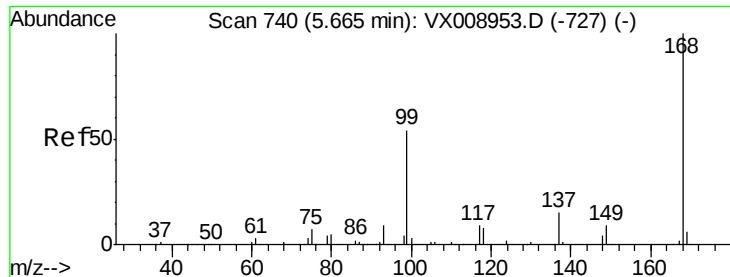
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 16 02:27:32 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

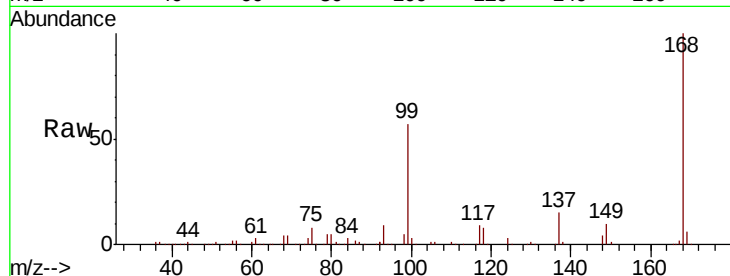
DSN001

Tot Ion:168 Resp: 265937

Ion Ratio Lower Upper

168 100

99 57.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

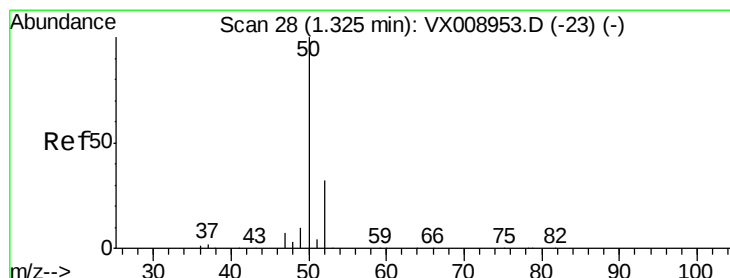
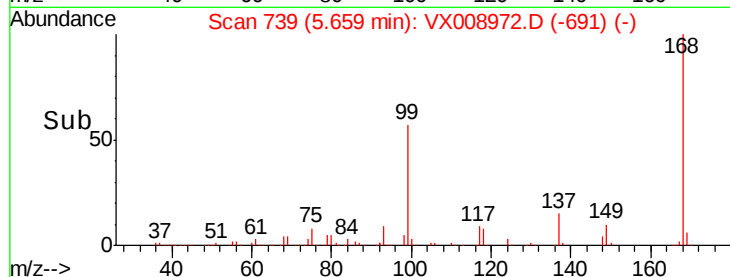
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.219 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX008972.D

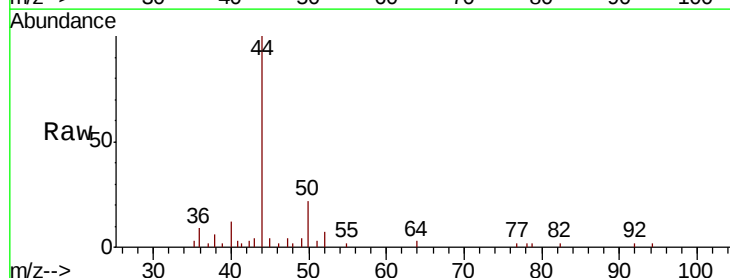
Acq: 15 Apr 2019 19:52

Tgt Ion: 50 Resp: 825

Ion Ratio Lower Upper

50 100

52 19.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

600

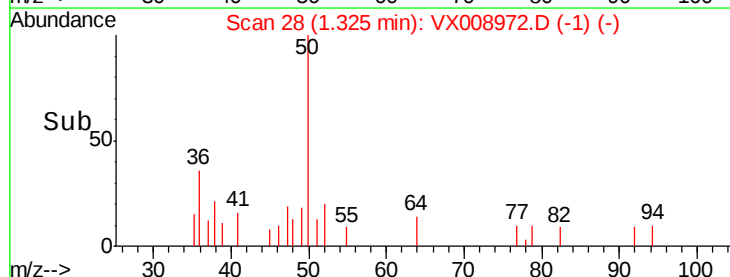
400

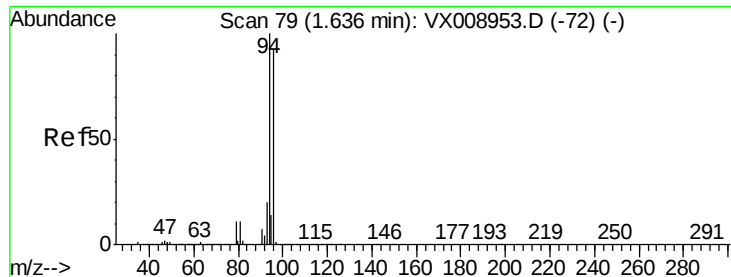
200

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 4.193 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

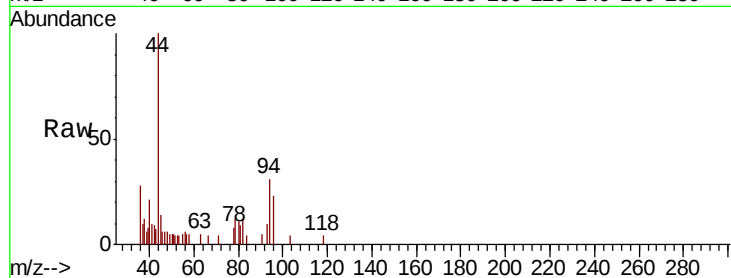
DSN001

Tot Ion: 94 Resp: 856

Ion Ratio Lower Upper

94 100

96 75.4 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

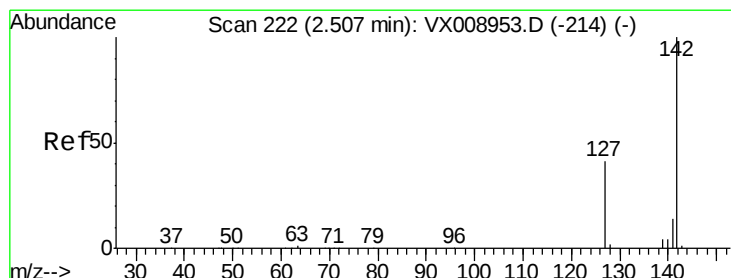
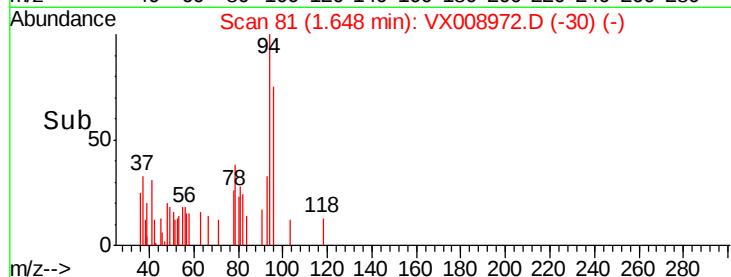
200

100

0

1.60 1.65 1.70

Time-->



#10

Methyl Iodide

Concen: 4.730 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

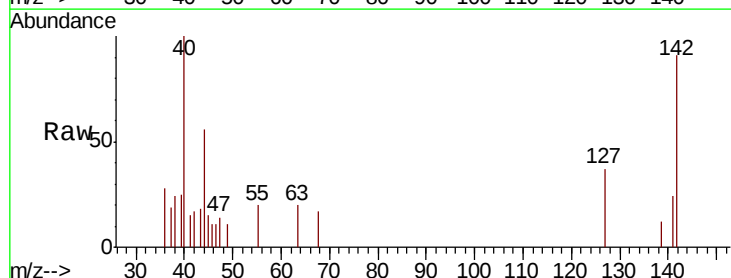
Tgt Ion: 142 Resp: 1033

Ion Ratio Lower Upper

142 100

127 38.5 32.8 49.2

141 18.2 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

600

500

400

300

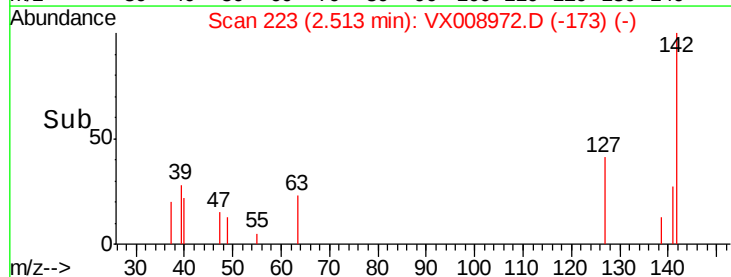
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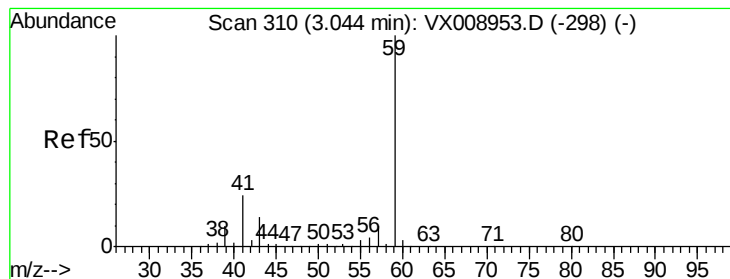
100

0

2.45 2.50 2.55 2.60

Time-->



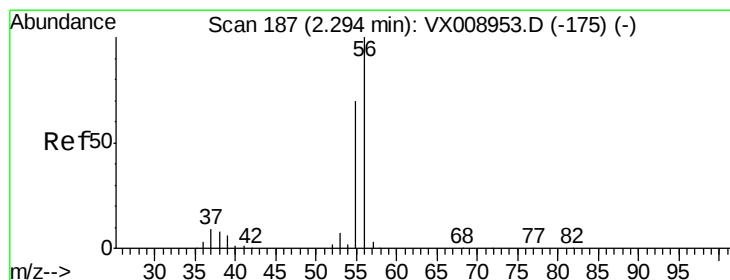
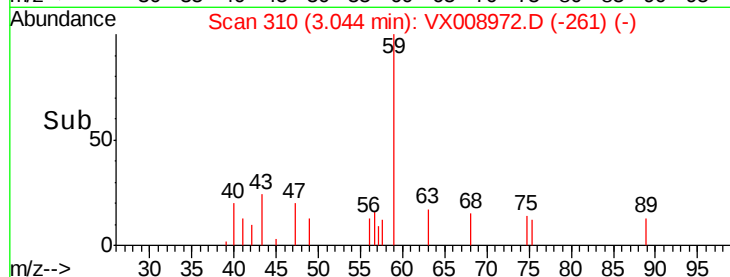
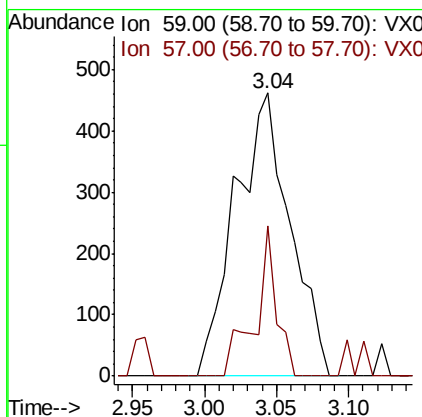
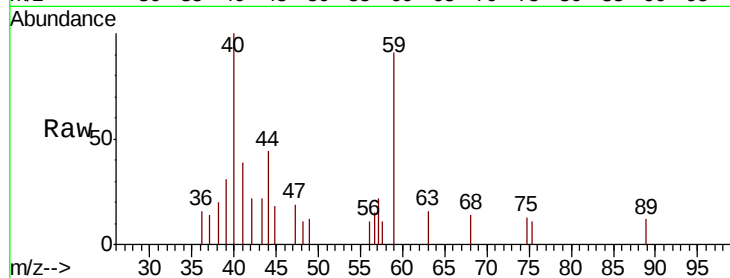


#11

Tert butyl alcohol
 Concen: 1.468 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. 0.00 min
 Lab File: VX008972.D
 Acq: 15 Apr 2019 19:52

Instrument :
 MSVOA_X
 ClientSampled :
 DSN001

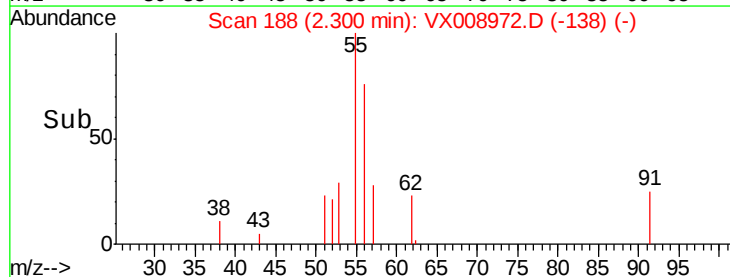
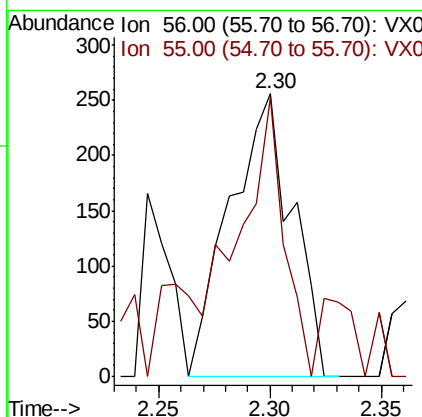
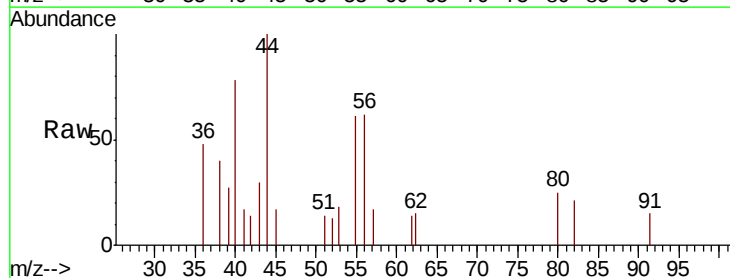
Tot Ion: 59 Resp: 1221
 Ion Ratio Lower Upper
 59 100
 57 20.6 8.4 12.6#

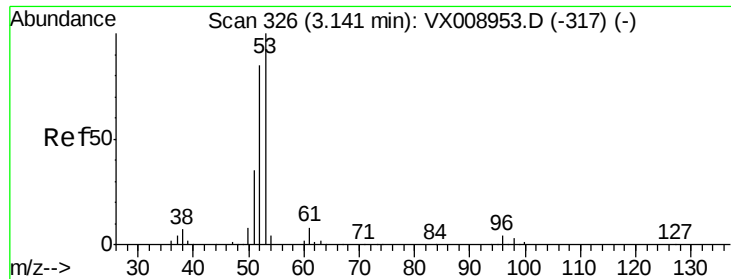


#13

Acrolein
 Concen: 0.694 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX008972.D
 Acq: 15 Apr 2019 19:52

Tgt Ion: 56 Resp: 499
 Ion Ratio Lower Upper
 56 100
 55 70.3 56.6 84.8





#15

Acrylonitrile

Concen: 0.556 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

DSN001

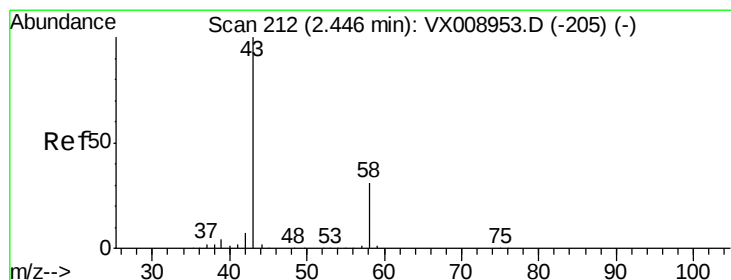
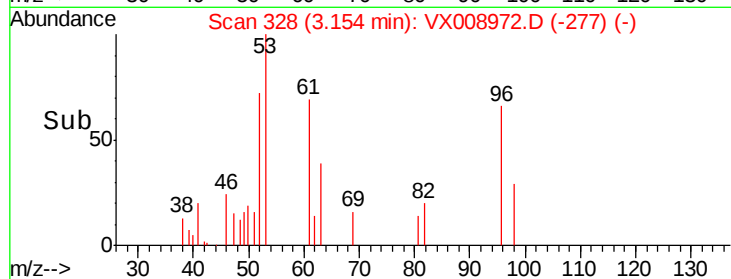
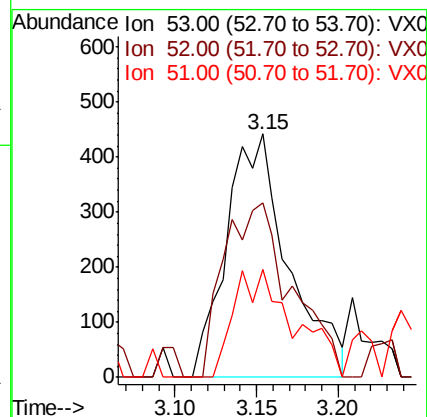
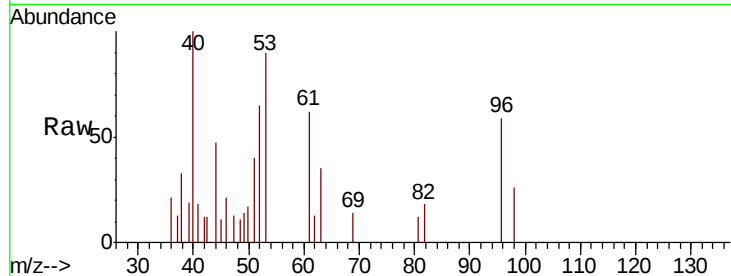
Tot Ion: 53 Resp: 1175

Ion Ratio Lower Upper

53 100

52 78.3 66.6 100.0

51 42.6 28.3 42.5#



#16

Acetone

Concen: 3.584 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008972.D

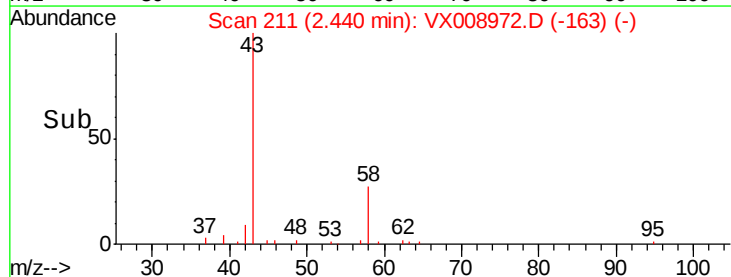
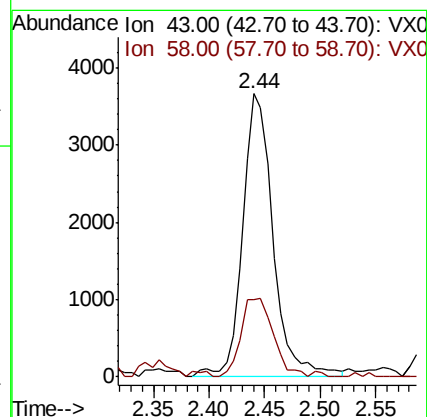
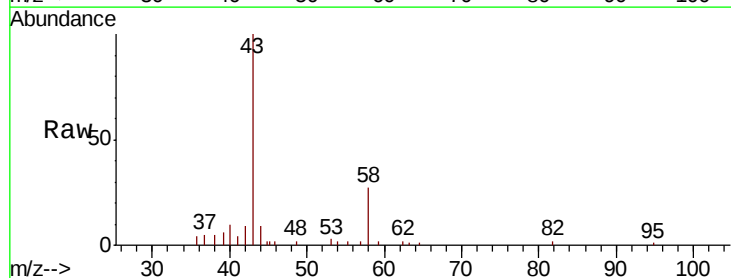
Acq: 15 Apr 2019 19:52

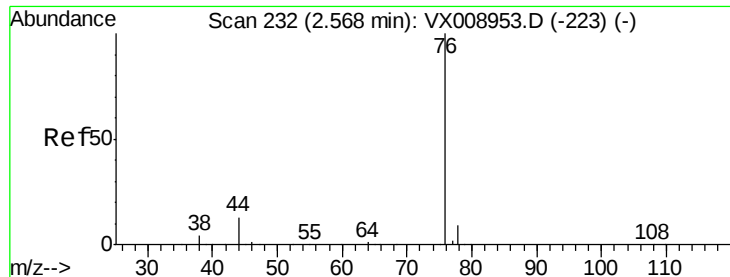
Tgt Ion: 43 Resp: 6966

Ion Ratio Lower Upper

43 100

58 27.5 24.8 37.2





#17

Carbon Disulfide

Concen: 1.667 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

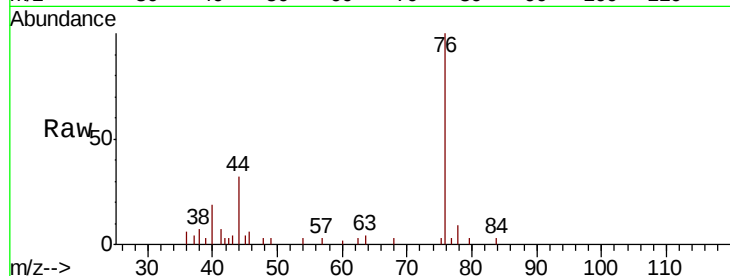
DSN001

Tot Ion: 76 Resp: 3563

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

2000

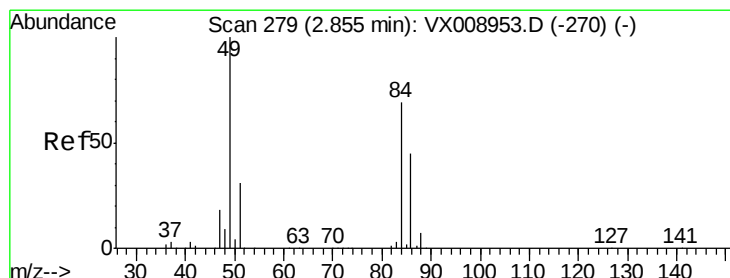
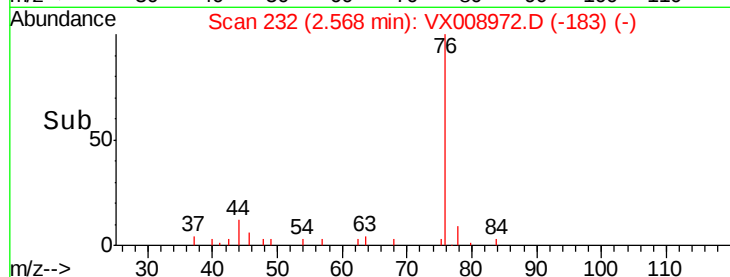
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 0.206 ug/l

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Tgt Ion: 84 Resp: 685

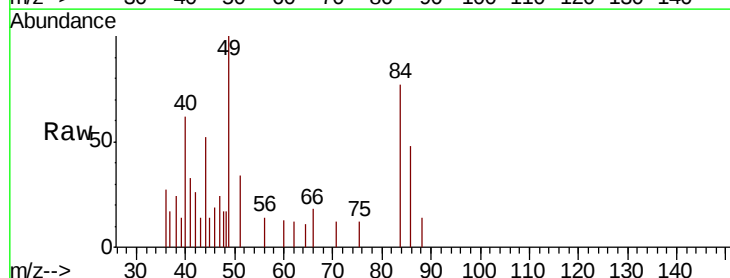
Ion Ratio Lower Upper

84 100

49 129.4 115.4 173.0

51 44.2 35.8 53.6

86 62.6 52.1 78.1



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

800

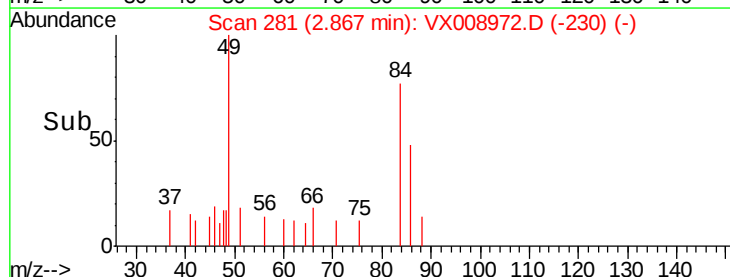
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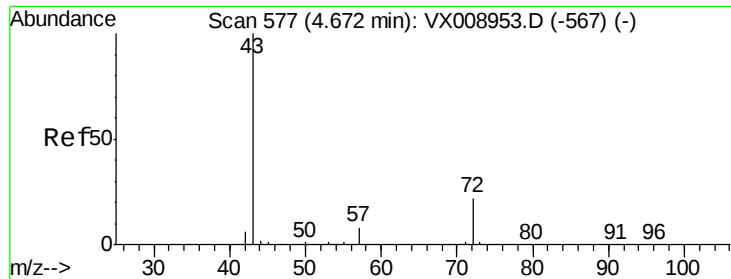
400

200

0

Time-->





#25

2-Butanone

Concen: 0.430 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampled :

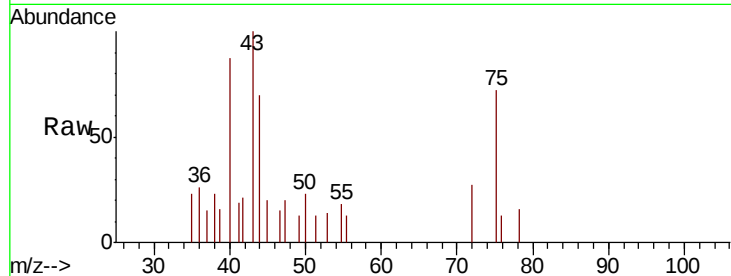
DSN001

Tot Ion: 43 Resp: 1336

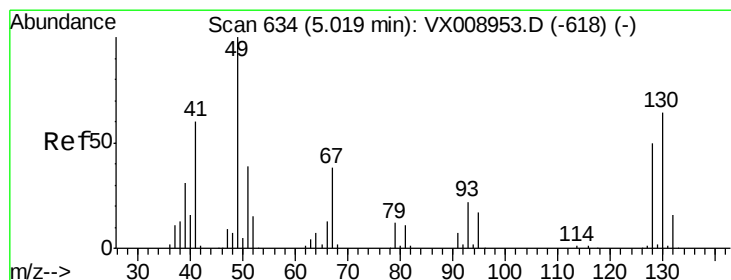
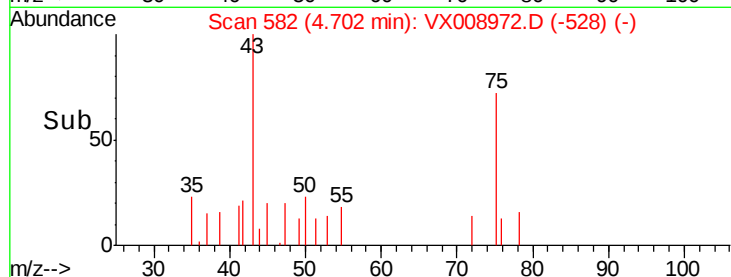
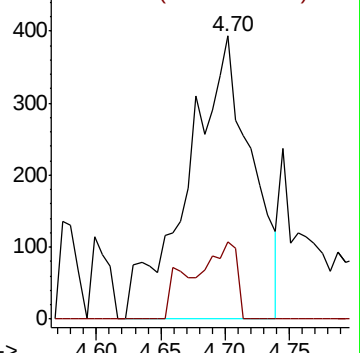
Ion Ratio Lower Upper

43 100

72 27.5 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

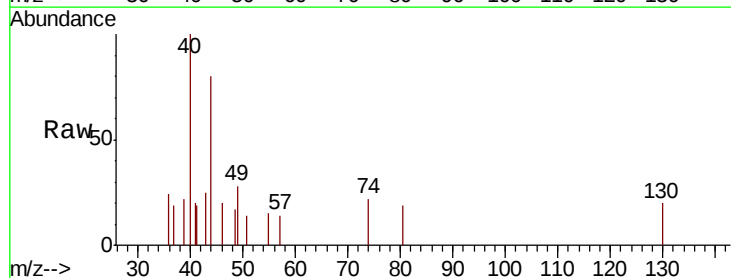
Tgt Ion: 49 Resp: 411

Ion Ratio Lower Upper

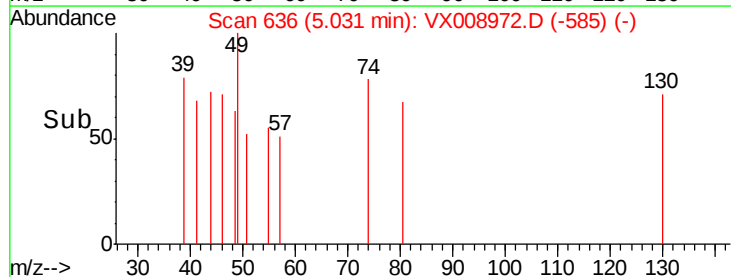
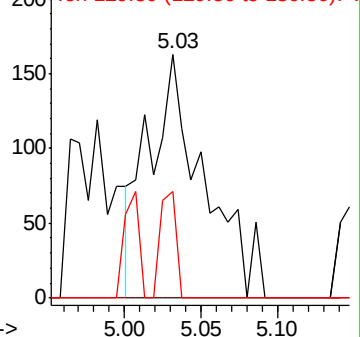
49 100

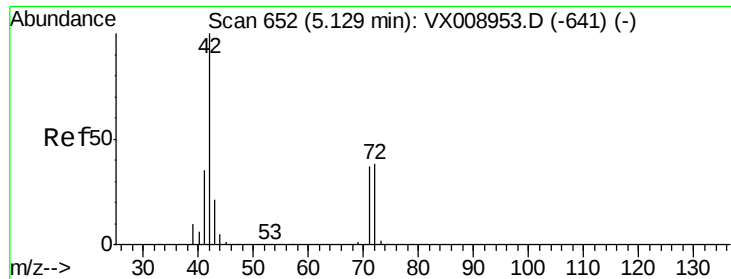
129 0.0 0.0 3.6

130 12.2 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0





#29

Tetrahydrofuran

Concen: 0.221 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

DSN001

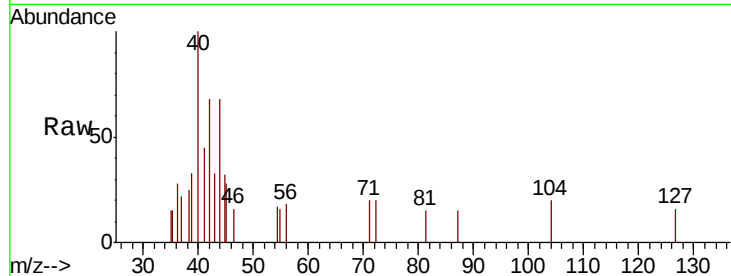
Tot Ion: 42 Resp: 459

Ion Ratio Lower Upper

42 100

72 0.0 30.6 45.8#

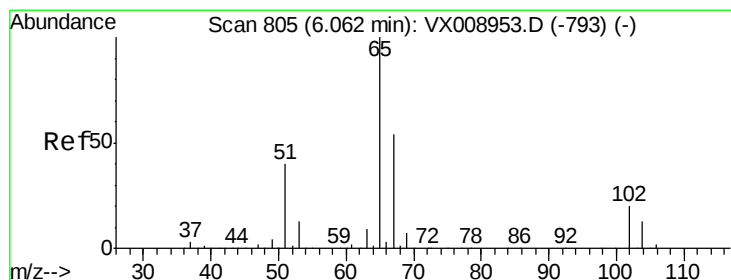
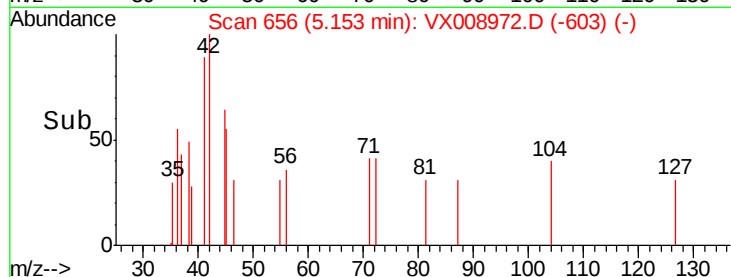
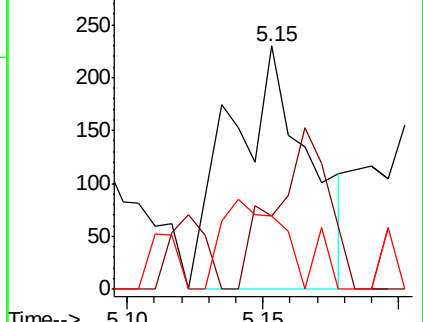
71 32.0 28.8 43.2



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.922 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008972.D

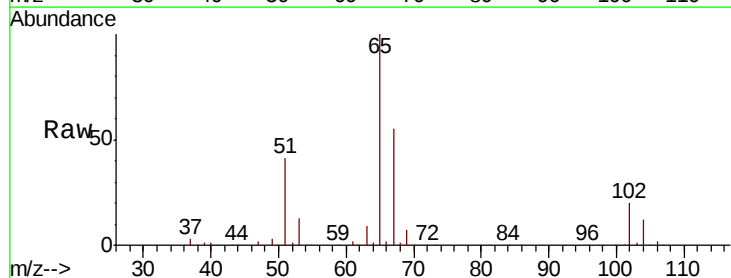
Acq: 15 Apr 2019 19:52

Tgt Ion: 65 Resp: 172108

Ion Ratio Lower Upper

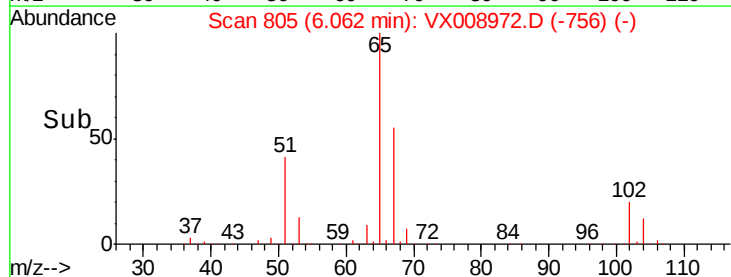
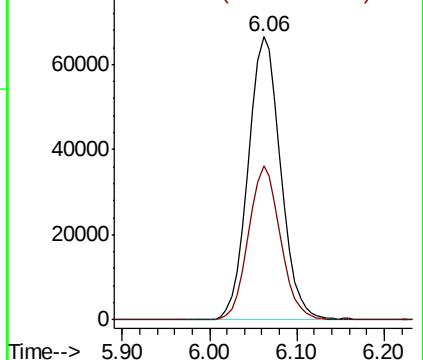
65 100

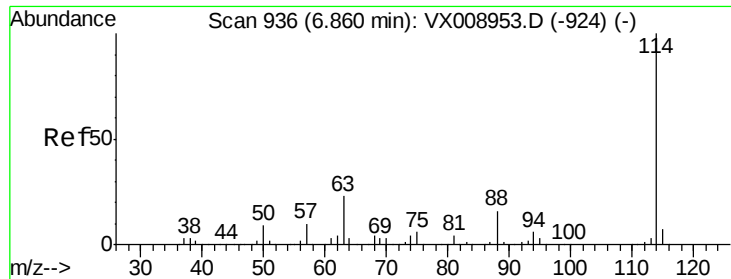
67 53.7 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

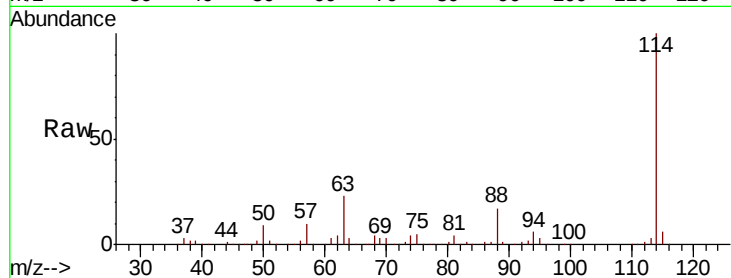




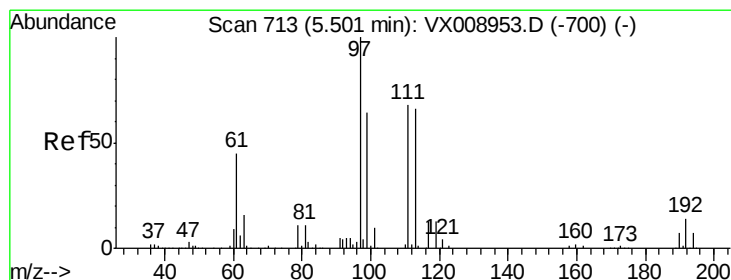
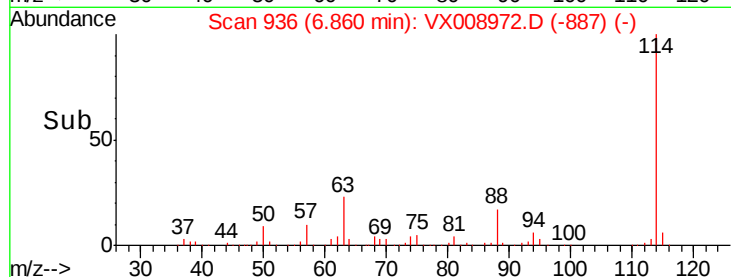
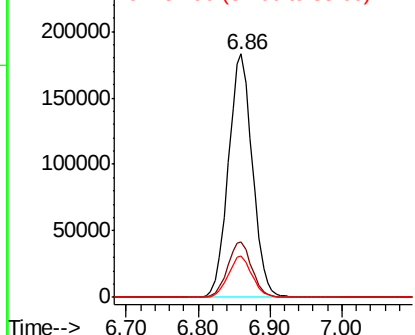
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008972.D
 Acq: 15 Apr 2019 19:52

Instrument :
 MSVOA_X
 ClientSampleId :
 DSN001

Tot Ion:114 Resp: 425526
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.0
 88 16.9 0.0 32.6

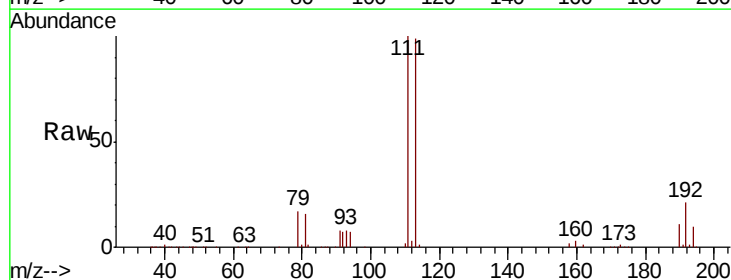


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

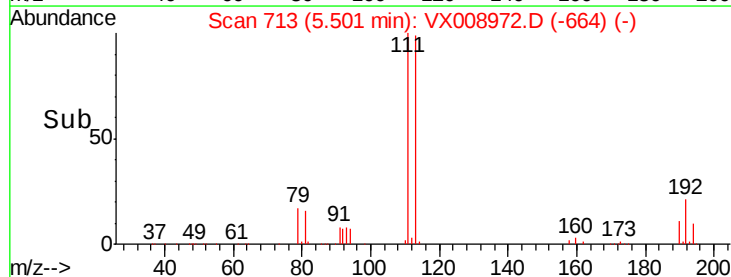
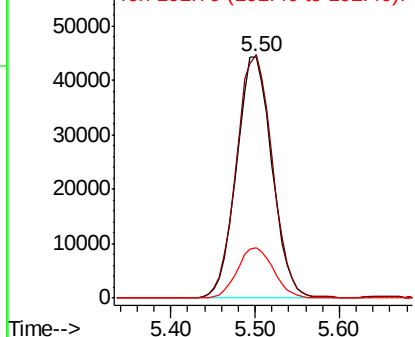


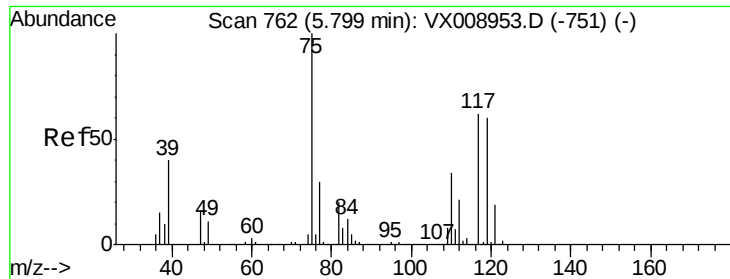
#35
 Dibromofluoromethane
 Concen: 46.340 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008972.D
 Acq: 15 Apr 2019 19:52

Tgt Ion:113 Resp: 126552
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.9 124.3
 192 21.3 17.4 26.0



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: 4.791 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

DSN001

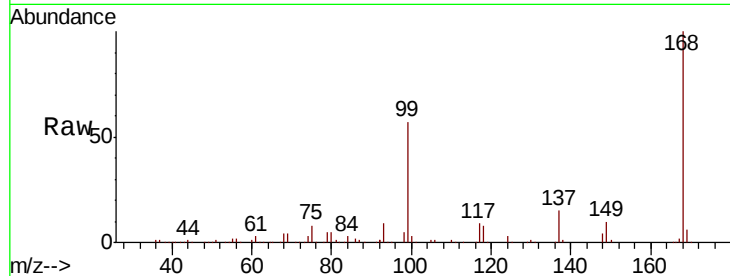
Tot Ion: 75 Resp: 21084

Ion Ratio Lower Upper

75 100

110 8.5 16.9 50.7#

77 0.0 25.0 37.4#

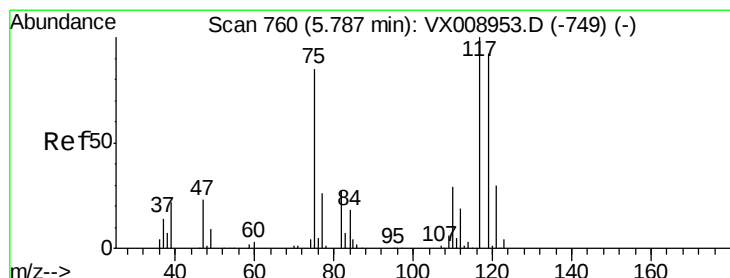
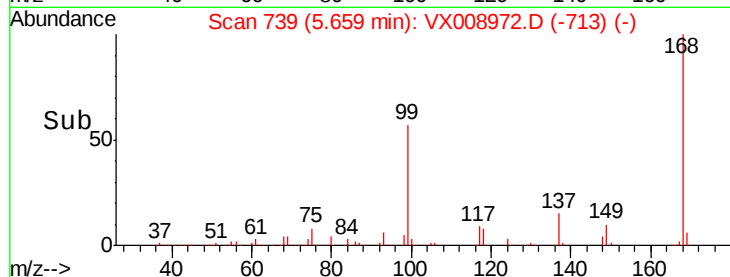


Abundance Ion 74.90 (74.60 to 75.60): VX008953.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX008953.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX008953.D (-751) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.715 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

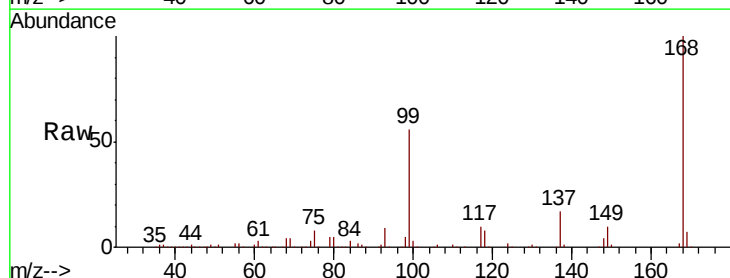
Tgt Ion: 117 Resp: 25053

Ion Ratio Lower Upper

117 100

119 3.7 73.8 110.8#

121 0.0 23.6 35.4#

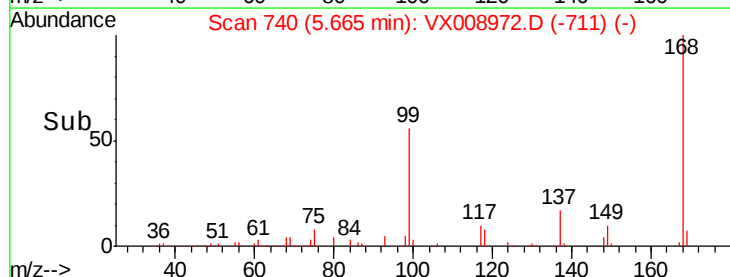


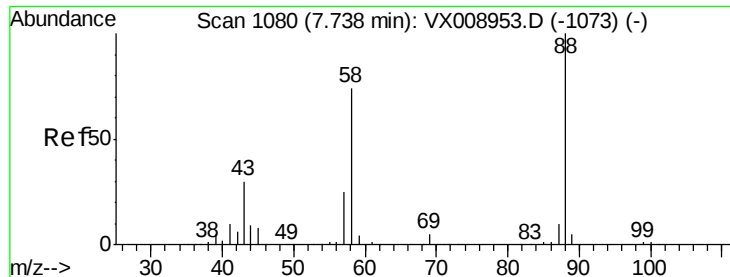
Abundance Ion 116.80 (116.50 to 117.50): VX008953.D (-749) (-)

Ion 118.80 (118.50 to 119.50): VX008953.D (-749) (-)

Ion 120.80 (120.50 to 121.50): VX008953.D (-749) (-)

Time-->

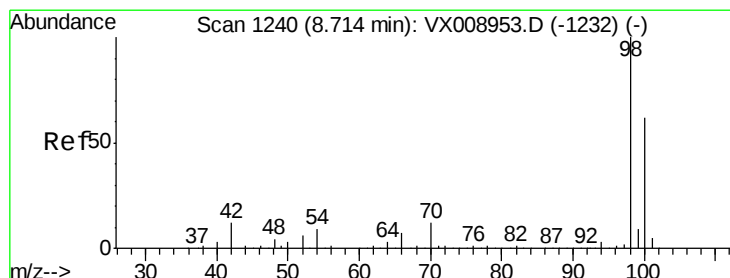
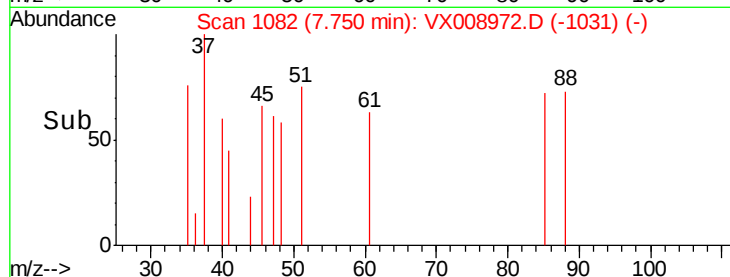
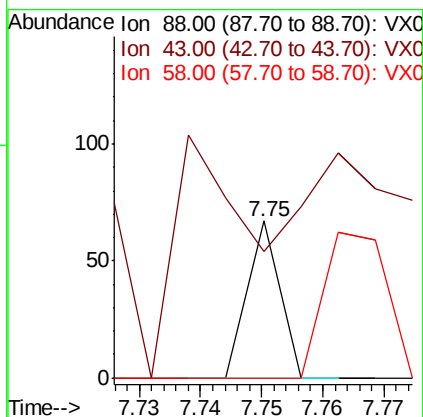
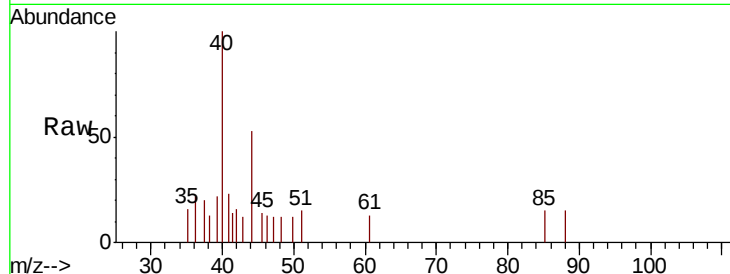




#49
1,4-Dioxane
Concen: 0.296 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX008972.D
Acq: 15 Apr 2019 19:52

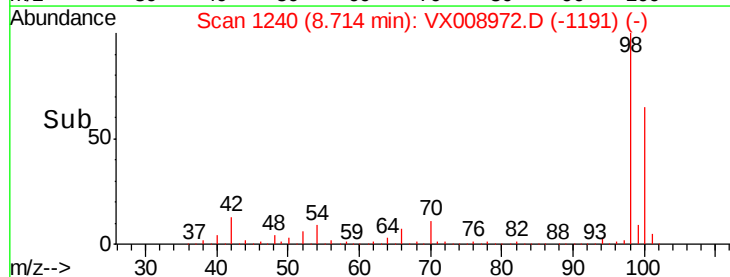
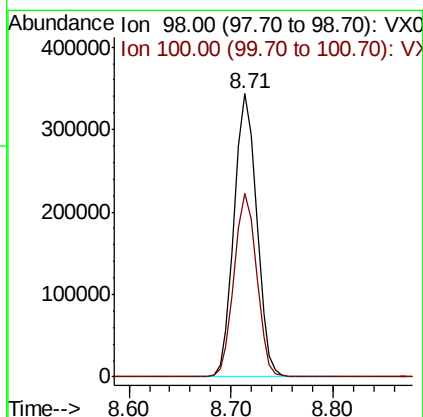
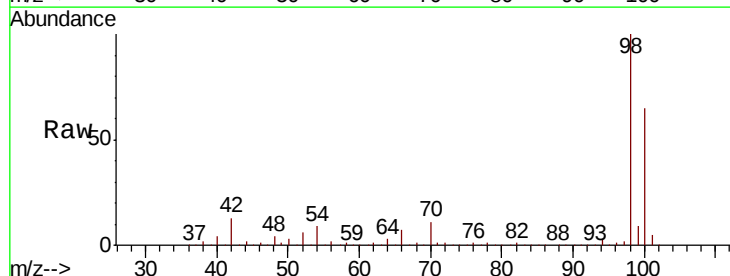
Instrument :
MSVOA_X
ClientSampled :
DSN001

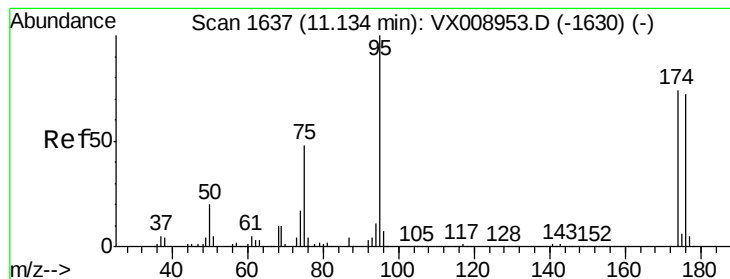
Tot Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 480.0 29.3 43.9#
58 176.0 62.6 93.8#



#50
Toluene-d8
Concen: 48.352 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008972.D
Acq: 15 Apr 2019 19:52

Tgt Ion: 98 Resp: 526607
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2





#62

4-Bromofluorobenzene

Concen: 45.420 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

DSN001

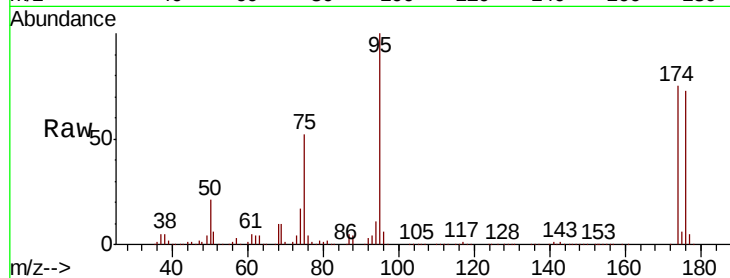
Tot Ion: 95 Resp: 174621

Ion Ratio Lower Upper

95 100

174 79.5 0.0 159.6

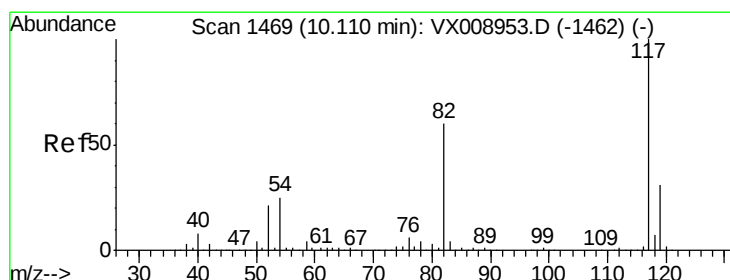
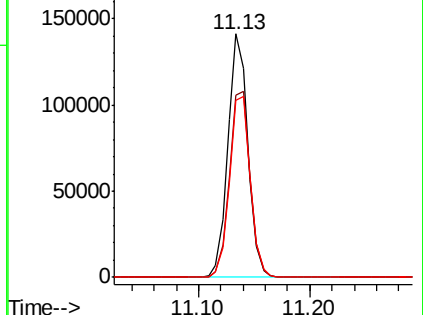
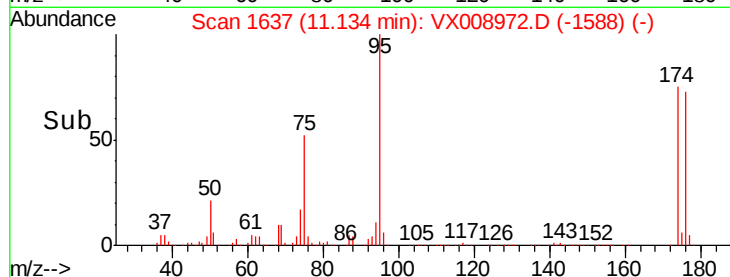
176 77.4 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008972.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008972.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008972.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

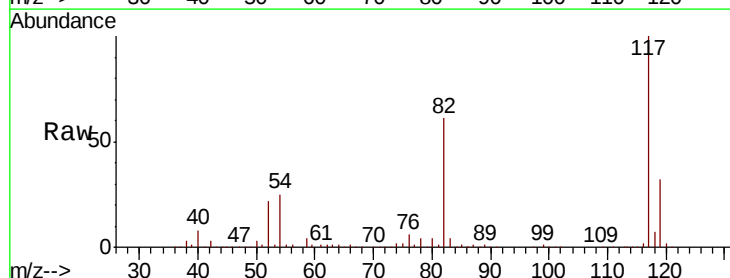
Tgt Ion: 117 Resp: 363662

Ion Ratio Lower Upper

117 100

82 60.8 48.2 72.4

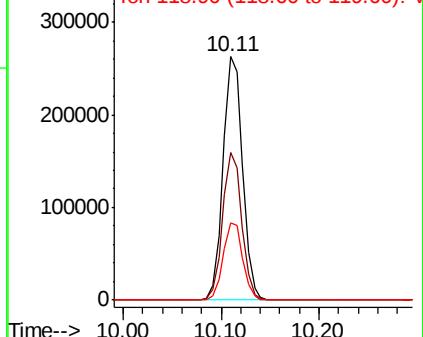
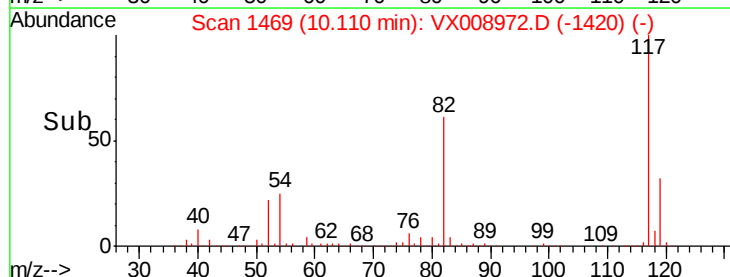
119 32.0 25.0 37.6

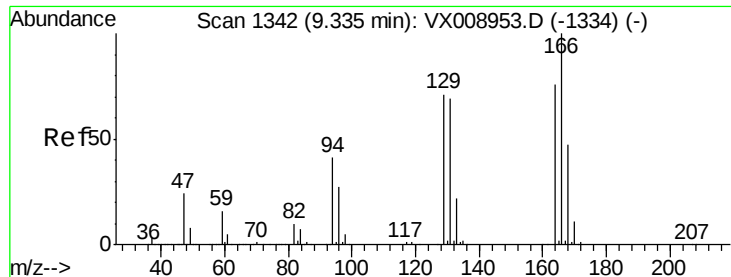


Abundance Ion 116.90 (116.60 to 117.60): VX008972.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008972.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008972.D (-1420) (-)





#64

Tetrachloroethene

Concen: 0.296 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

DSN001

Tot Ion:164 Resp: 818

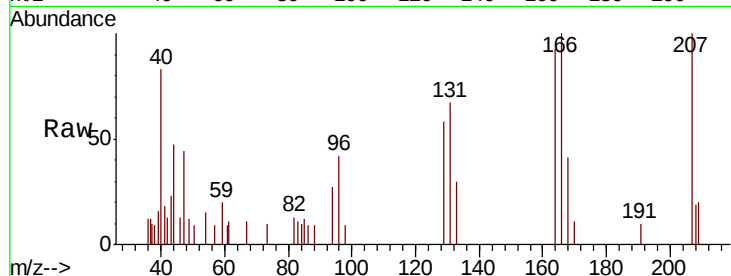
Ion Ratio Lower Upper

164 100

166 107.8 105.0 157.4

129 62.5 74.2 111.4#

131 72.3 72.2 108.2

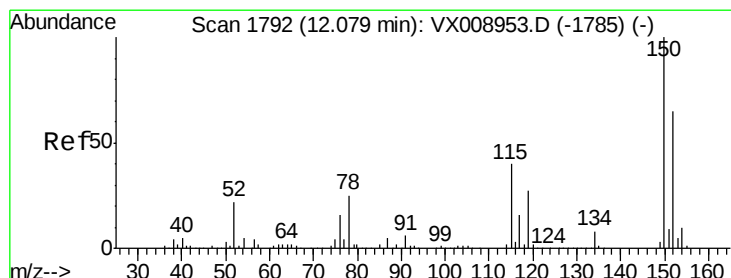
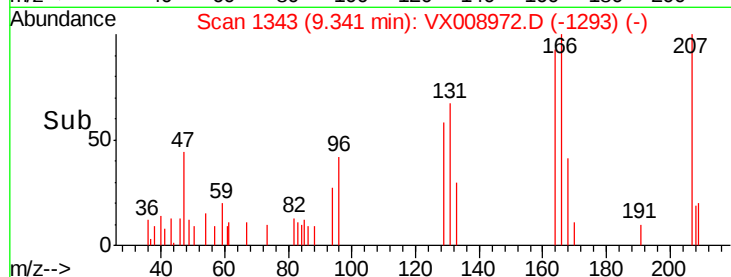
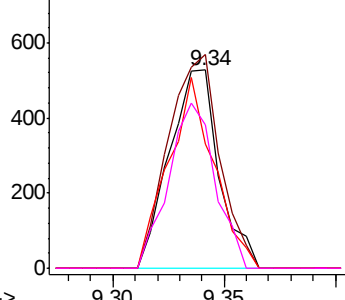


Abundance Ion 163.80 (163.50 to 164.50): V

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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

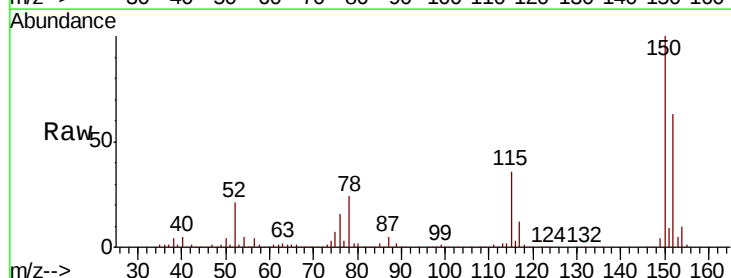
Tgt Ion:152 Resp: 153851

Ion Ratio Lower Upper

152 100

115 59.6 41.4 124.2

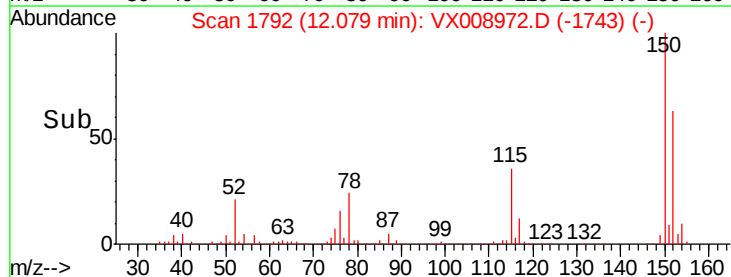
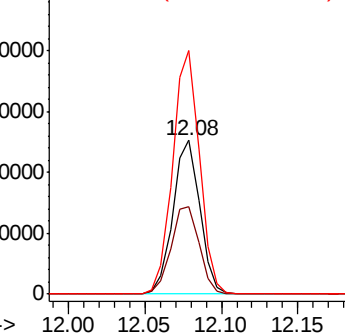
150 158.5 0.0 349.8

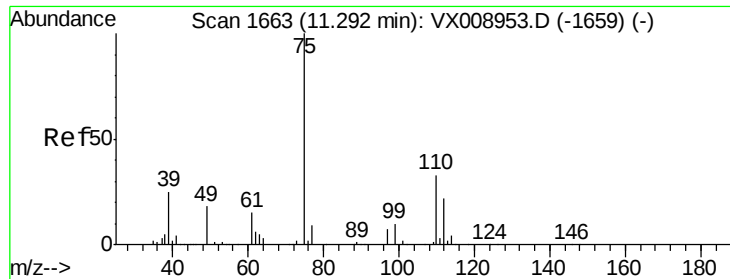


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.850 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

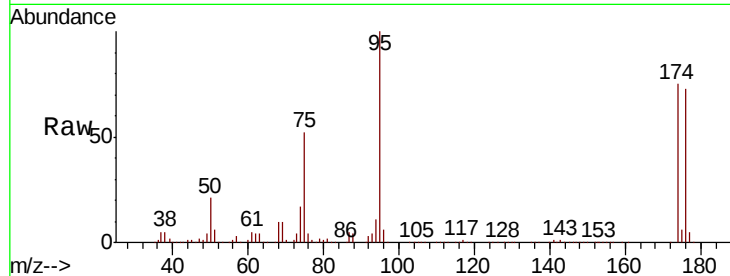
DSN001

Tot Ion: 75 Resp: 89597

Ion Ratio Lower Upper

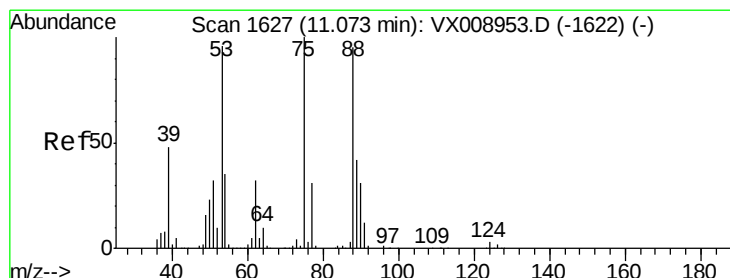
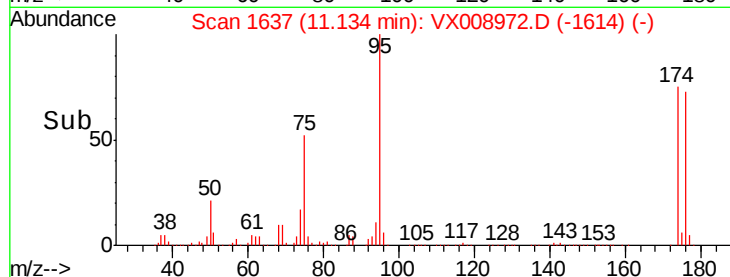
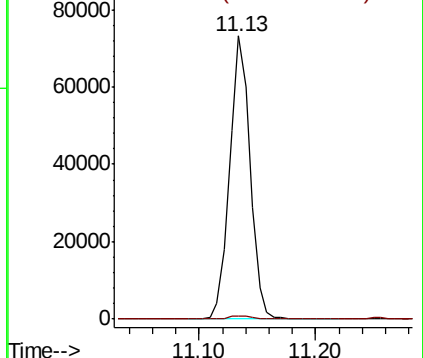
75 100

77 1.2 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 61.229 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008972.D

Acq: 15 Apr 2019 19:52

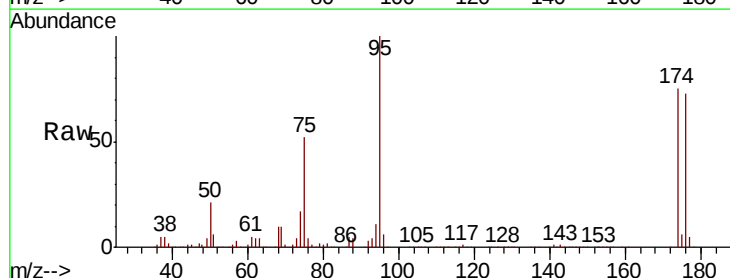
Tgt Ion: 75 Resp: 89597

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

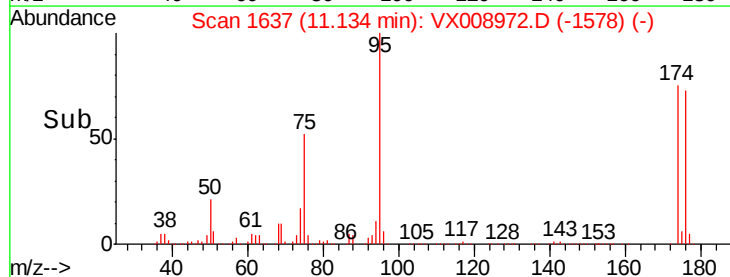
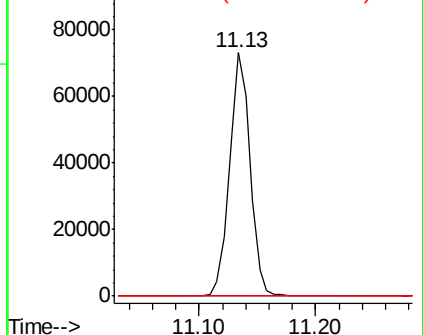
89 0.0 36.0 54.0#

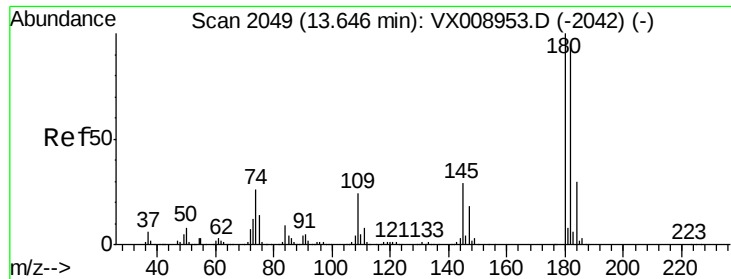


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

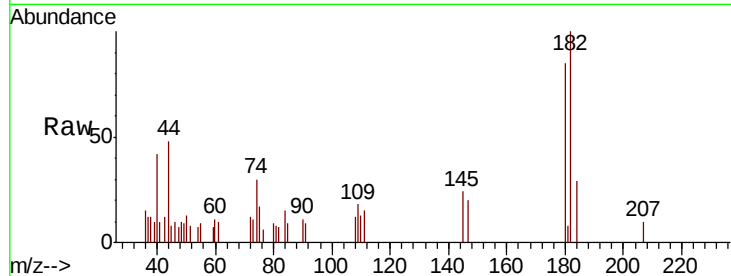




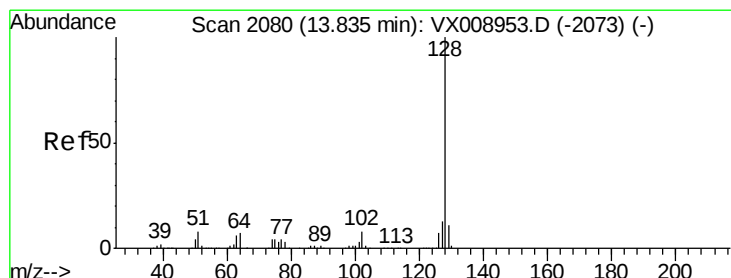
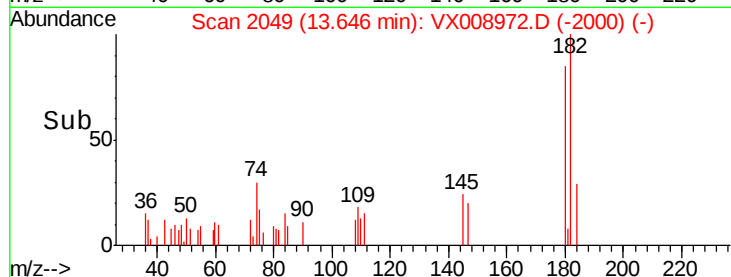
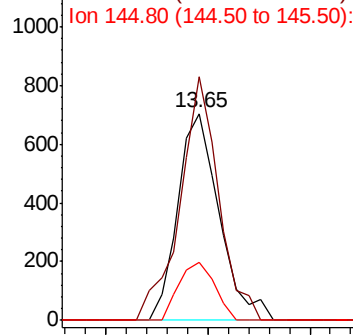
#93
 1,2,4-Trichlorobenzene
 Concen: 0.270 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX008972.D
 Acq: 15 Apr 2019 19:52

Instrument :
 MSVOA_X
 ClientSampled :
 DSN001

Tot Ion:180 Resp: 990
 Ion Ratio Lower Upper
 180 100
 182 109.4 47.6 142.9
 145 24.4 14.8 44.4

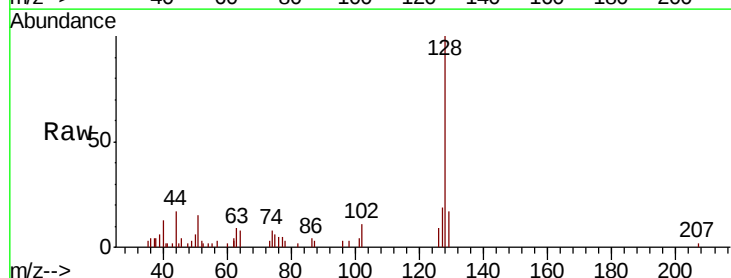


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

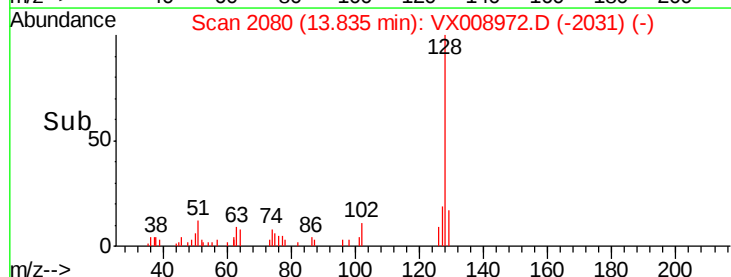
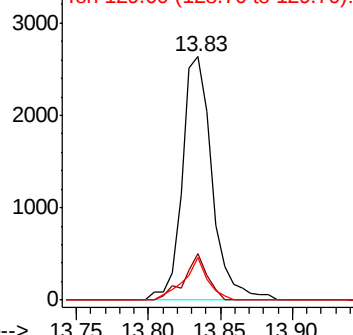


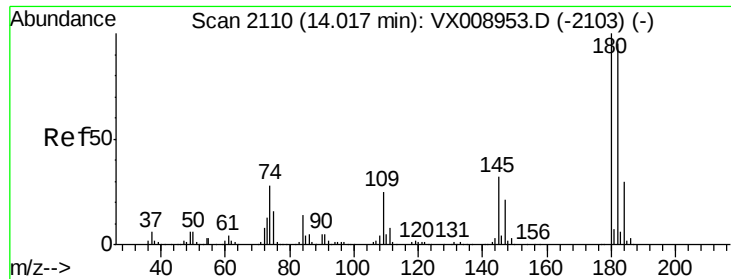
#95
 Naphthalene
 Concen: 0.326 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX008972.D
 Acq: 15 Apr 2019 19:52

Tgt Ion:128 Resp: 3831
 Ion Ratio Lower Upper
 128 100
 127 14.9 10.6 16.0
 129 14.0 8.6 13.0#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.241 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. 0.00 min
 Lab File: VX008972.D
 Acq: 15 Apr 2019 19:52

Instrument :
 MSVOA_X
 ClientSampleId :
 DSN001

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	47.8	143.4
145	51.0	15.8	47.3

