

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005936.D
 Acq On : 13 Nov 2018 07:58
 Operator : JC/MD
 Sample : J5907-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 13 12:05:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	100886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	148710	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	133252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	62548	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	63269	54.55	ug/l	0.00
Spiked Amount			Recovery	=	109.10%	
35) Dibromofluoromethane	5.51	113	51842	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
50) Toluene-d8	8.71	98	175193	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
62) 4-Bromofluorobenzene	11.14	95	58526	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

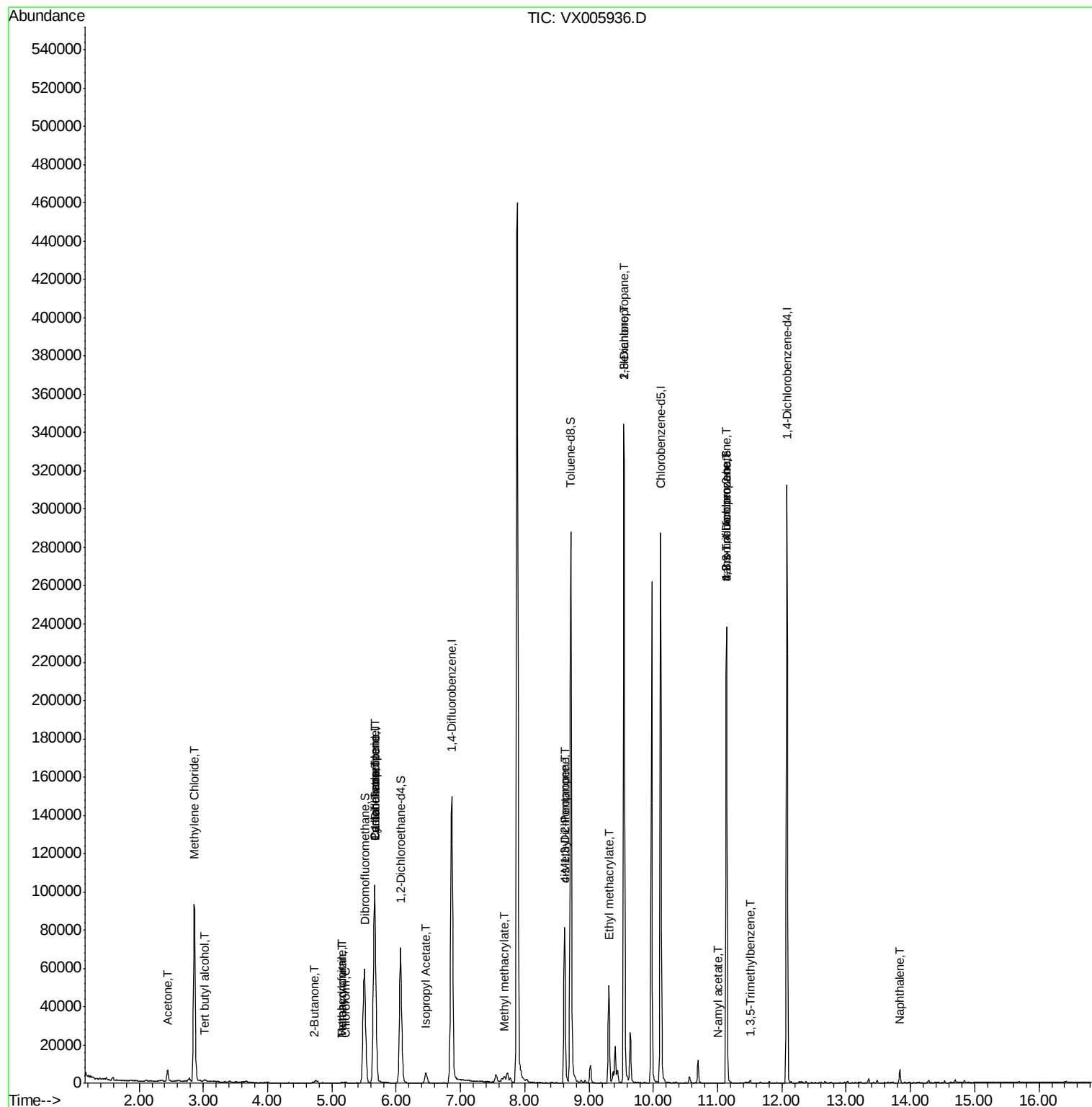
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	746	2.245	ug/l #	72
16) Acetone	2.44	43	6252	10.012	ug/l	95
20) Methylene Chloride	2.86	84	38964	37.984	ug/l	97
25) 2-Butanone	4.71	43	791	0.806	ug/l #	51
29) Tetrahydrofuran	5.16	42	386	0.612	ug/l #	36
30) Chloroform	5.21	83	388	0.216	ug/l	88
31) Cyclohexane	5.66	56	1867	1.156	ug/l #	16
36) 1,1-Dichloropropene	5.67	75	6665	4.649	ug/l #	50
38) Carbon Tetrachloride	5.67	117	9129	6.361	ug/l #	17
41) Methacrylonitrile	5.15	41	217	0.213	ug/l #	25
43) Isopropyl Acetate	6.46	43	6954	2.546	ug/l	97
48) Methyl methacrylate	7.68	41	3602	2.937	ug/l #	16
51) 4-Methyl-2-Pentanone	8.62	43	27901	16.206	ug/l #	52
54) cis-1,3-Dichloropropene	8.62	75	12117	8.374	ug/l #	67
56) Ethyl methacrylate	9.30	69	350	0.225	ug/l #	1
57) 1,3-Dichloropropane	9.54	76	2685	1.535	ug/l #	43
59) 2-Hexanone	9.54	43	42281	27.862	ug/l #	53
74) N-amyl acetate	11.01	43	90	1.294	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	30023	23.573	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.51	105	722	0.235	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.14	75	30023	75.131	ug/l #	9
95) Naphthalene	13.83	128	4564	2.168	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

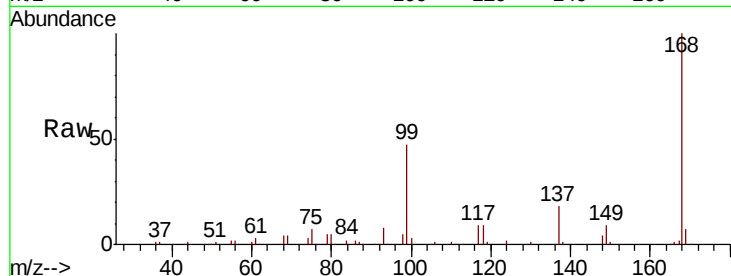
ClientSampleId :

Tot Ion:168 Resp: 100886

Ion Ratio Lower Upper

168 100

99 47.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

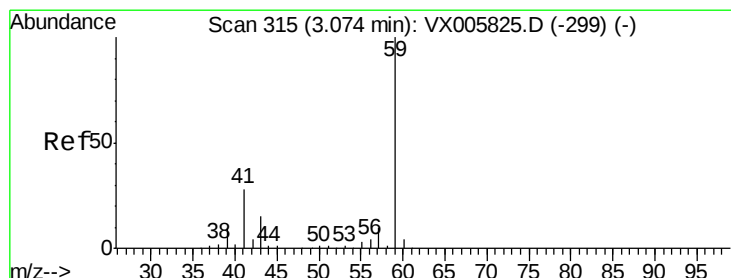
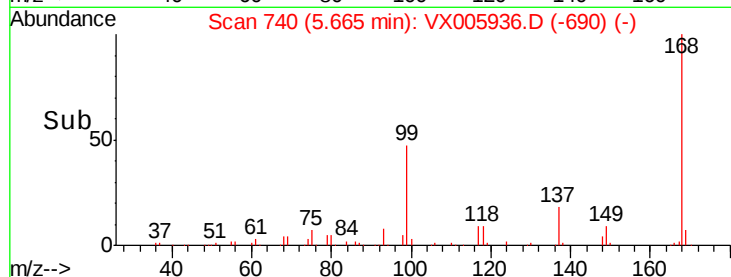
20000

10000

0

5.60 5.70 5.80

Time-->



#11

Tert butyl alcohol

Concen: 2.245 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.06 min

Lab File: VX005936.D

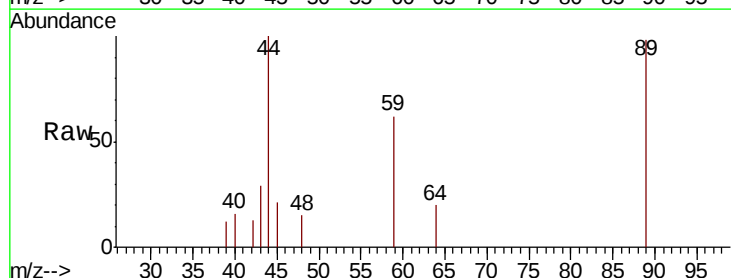
Acq: 13 Nov 2018 07:58

Tgt Ion: 59 Resp: 746

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

300

250

200

150

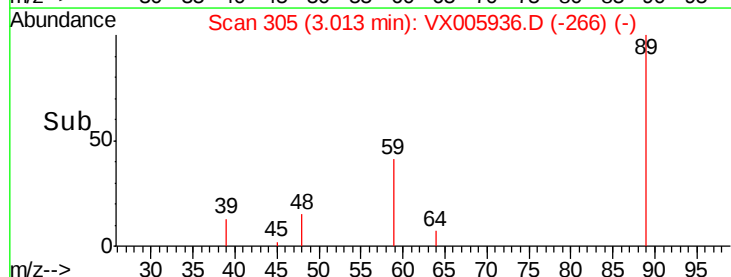
100

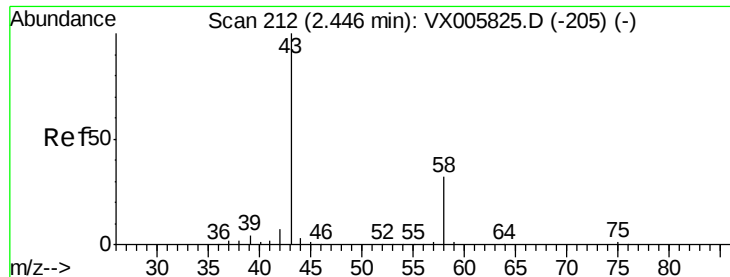
50

0

2.95 3.00 3.05 3.10

Time-->





#16

Acetone

Concen: 10.012 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

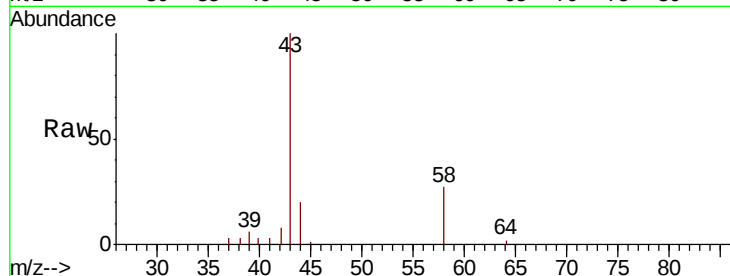
ClientSampleId :

Tot Ion: 43 Resp: 6252

Ion Ratio Lower Upper

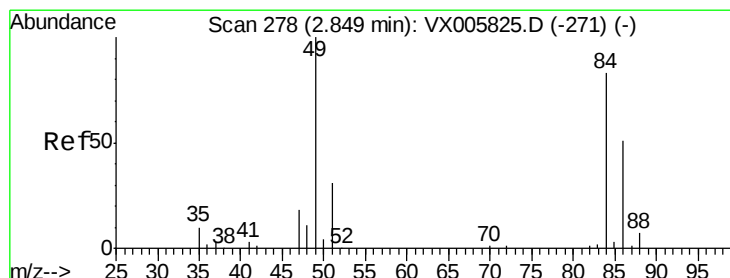
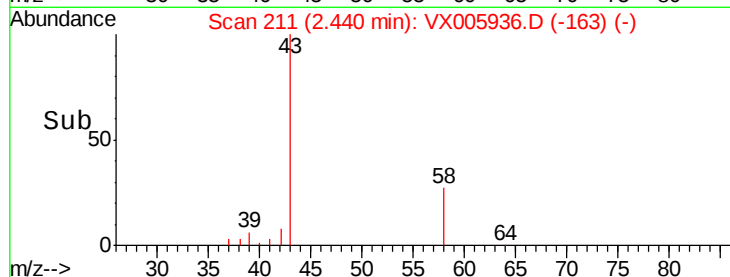
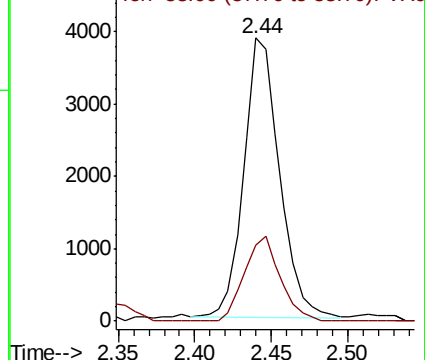
43 100

58 27.2 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 37.984 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Tgt Ion: 84 Resp: 38964

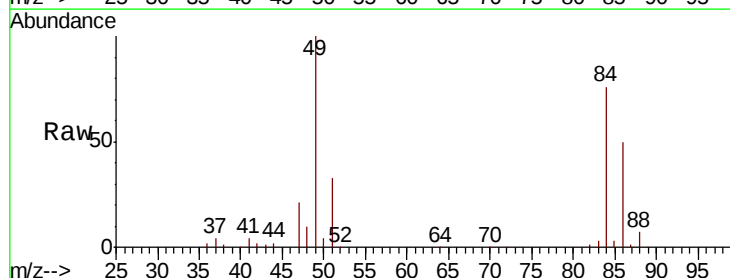
Ion Ratio Lower Upper

84 100

49 130.8 109.5 164.3

51 43.5 33.3 49.9

86 65.6 52.7 79.1

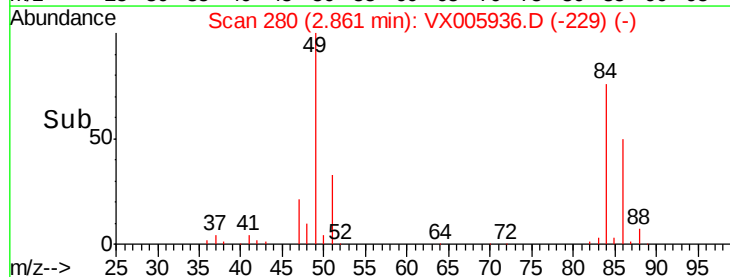
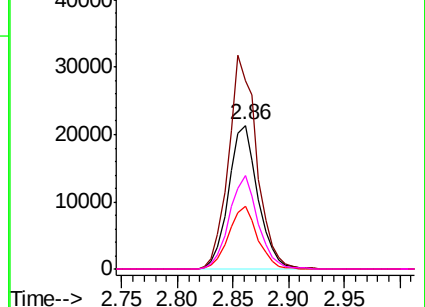


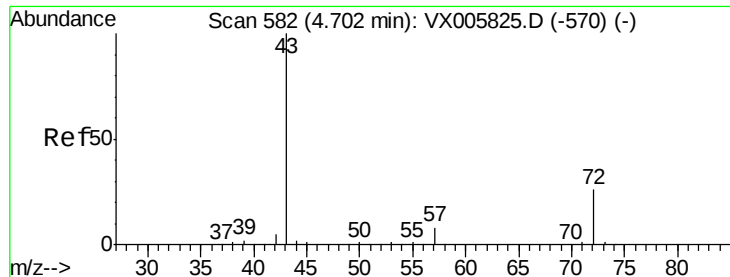
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 0.806 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

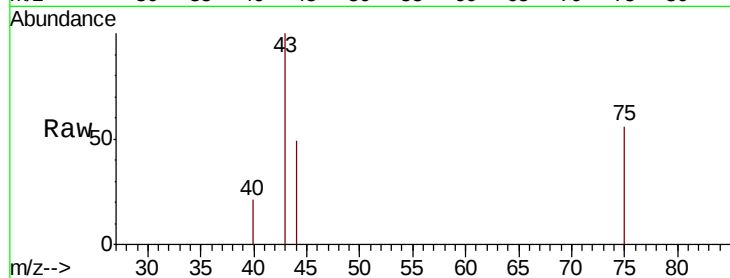
ClientSampled :

Tot Ion: 43 Resp: 791

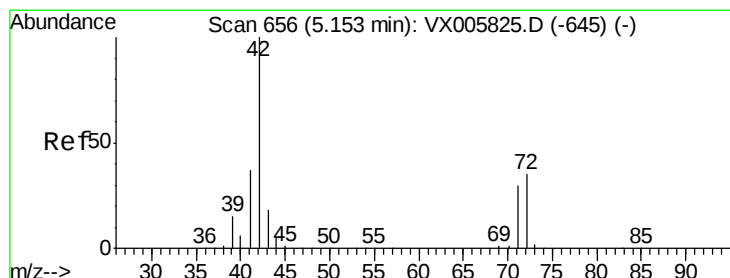
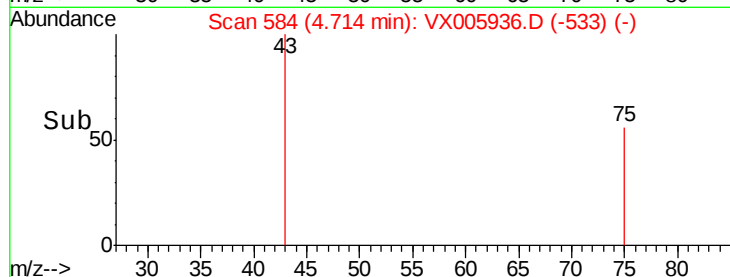
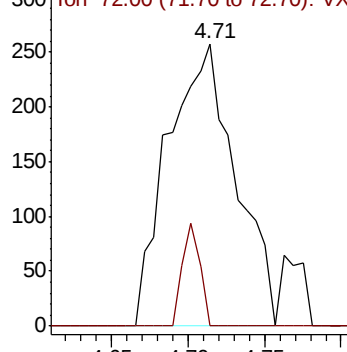
Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX005825.D (-570) (-)



#29

Tetrahydrofuran

Concen: 0.612 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

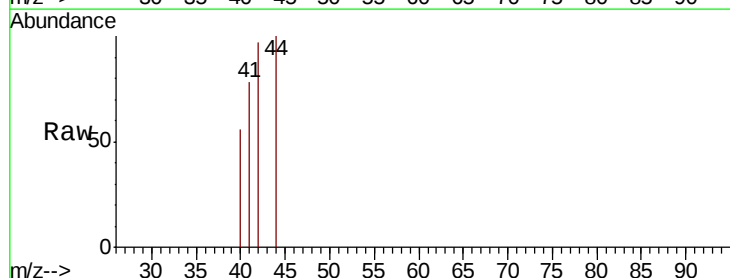
Tgt Ion: 42 Resp: 386

Ion Ratio Lower Upper

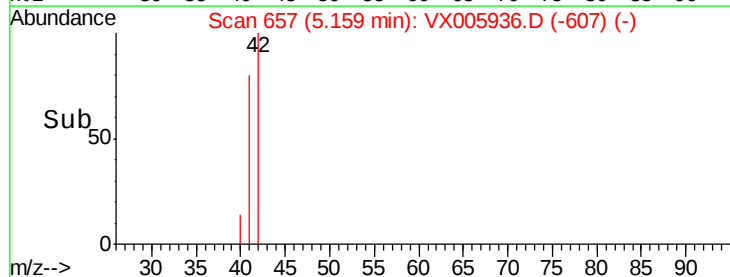
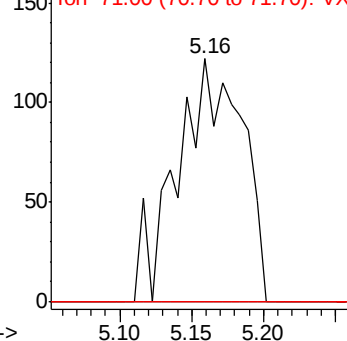
42 100

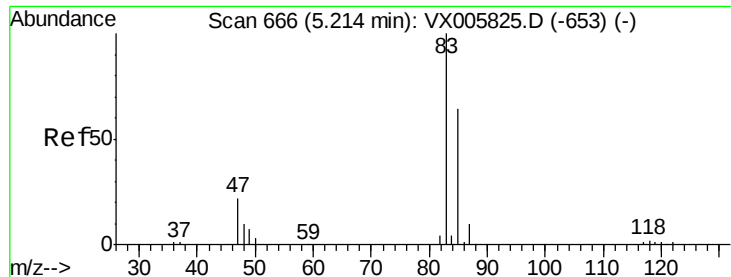
72 0.0 32.0 48.0#

71 0.0 29.8 44.8#



Abundance Ion 42.00 (41.70 to 42.70): VX005825.D (-645) (-)

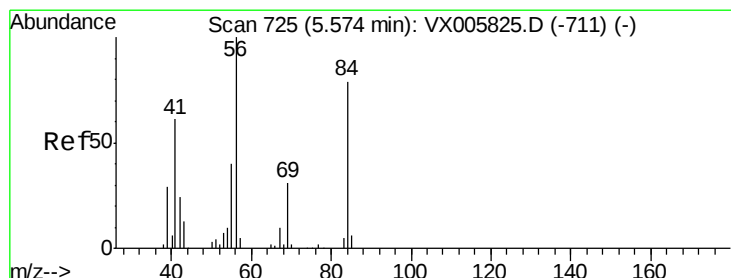
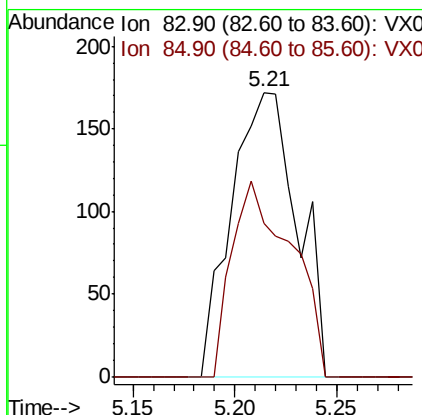
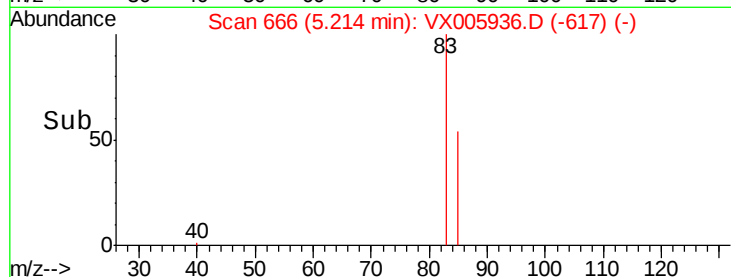
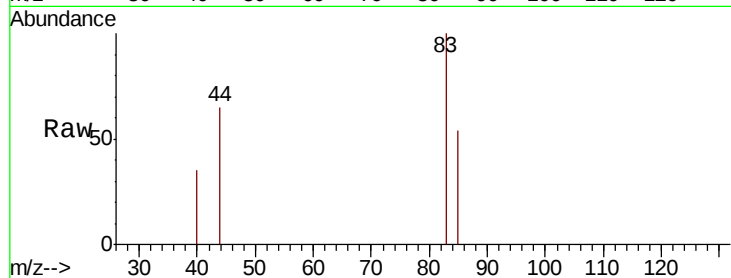




#30
Chloroform
Concen: 0.216 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

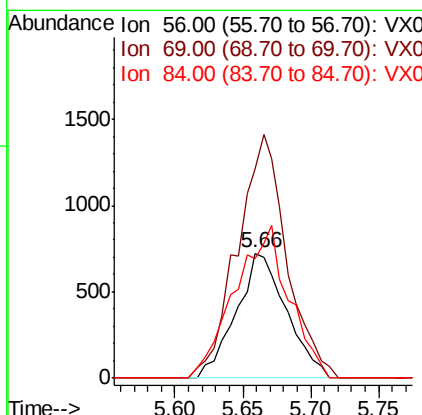
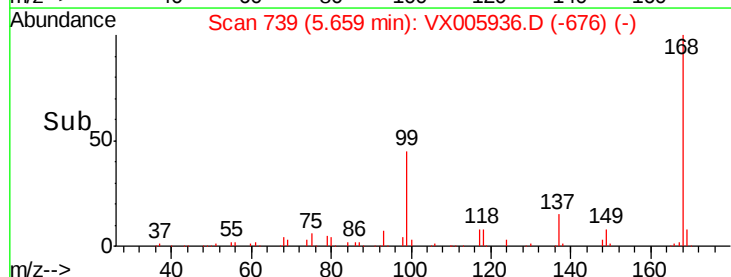
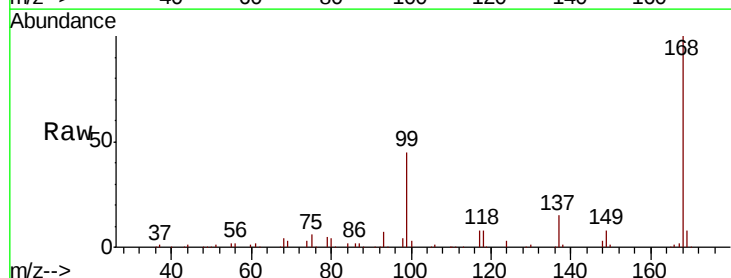
Instrument :
MSVOA_X
ClientSampled :

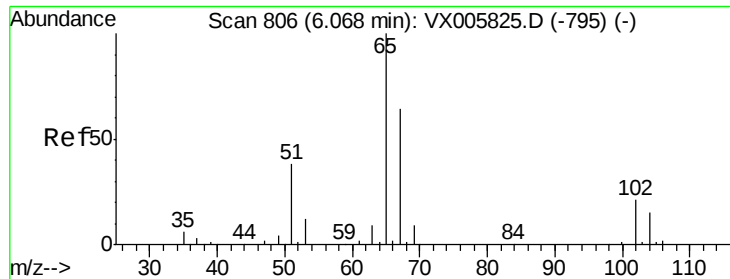
Tot Ion: 83 Resp: 388
Ion Ratio Lower Upper
83 100
85 54.1 50.6 76.0



#31
Cyclohexane
Concen: 1.156 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

Tgt Ion: 56 Resp: 1867
Ion Ratio Lower Upper
56 100
69 167.5 22.6 34.0#
84 95.3 62.7 94.1#





#33

1,2-Dichloroethane-d4

Concen: 54.551 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

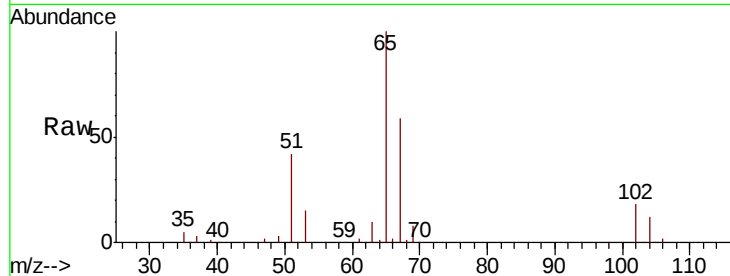
ClientSampled :

Tot Ion: 65 Resp: 63269

Ion Ratio Lower Upper

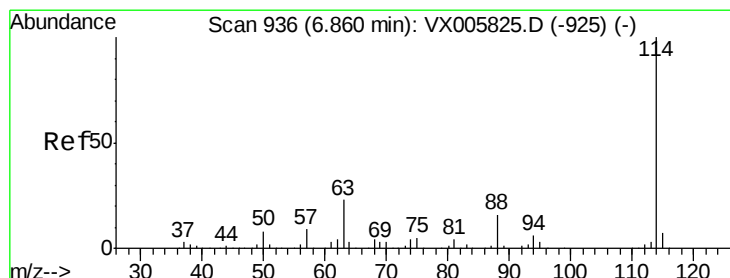
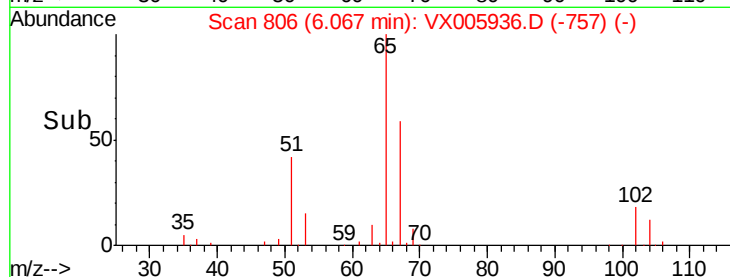
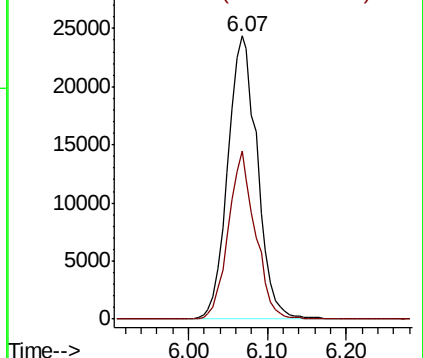
65 100

67 54.3 0.0 105.0



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: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

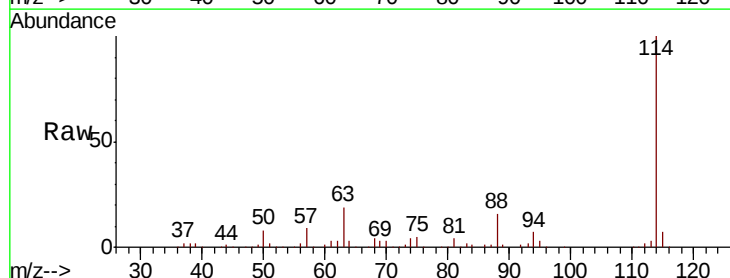
Tgt Ion:114 Resp: 148710

Ion Ratio Lower Upper

114 100

63 19.0 0.0 42.8

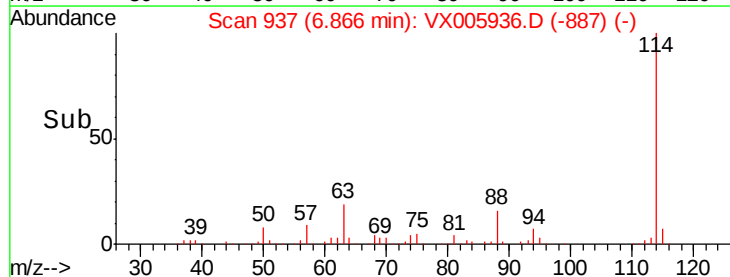
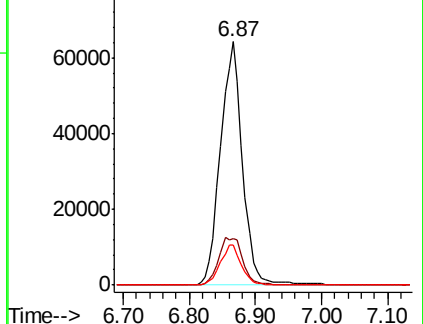
88 16.3 0.0 31.2

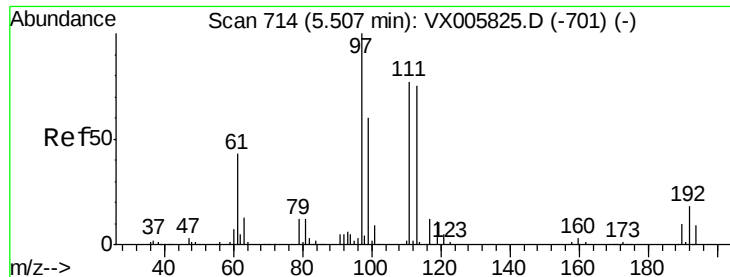


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.255 ug/l

RT: 5.51 min Scan# 715

Delta R.T. 0.01 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

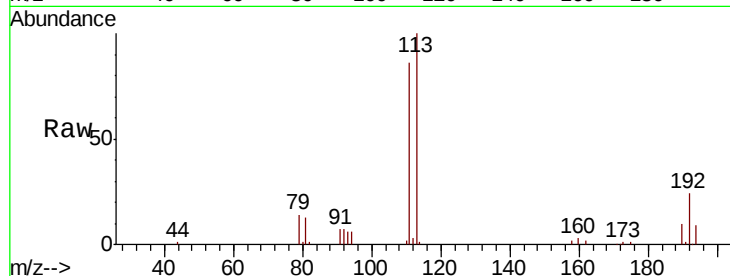
Tot Ion:113 Resp: 51842

Ion Ratio Lower Upper

113 100

111 98.3 82.3 123.5

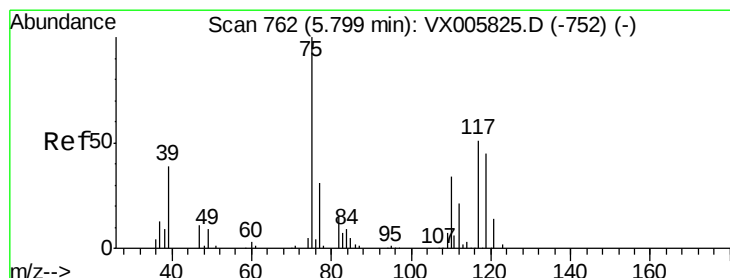
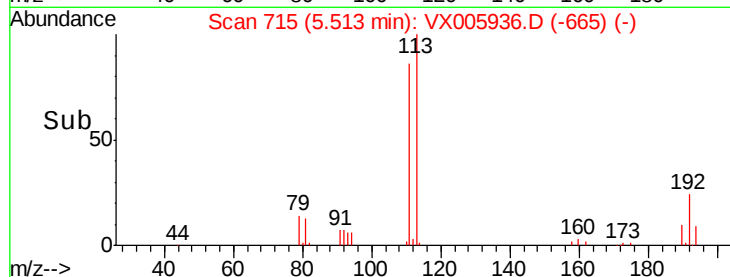
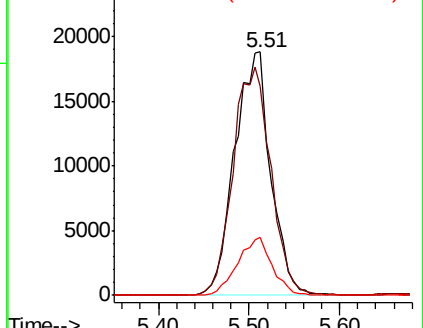
192 22.8 17.9 26.9



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: 4.649 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

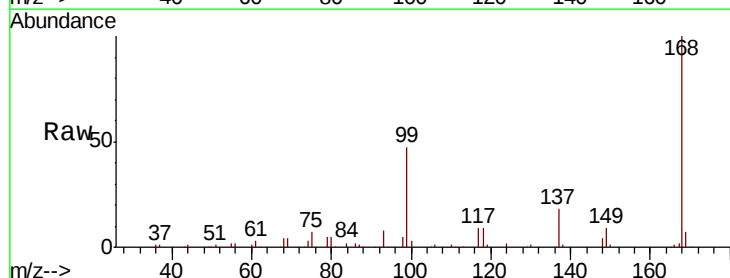
Tgt Ion: 75 Resp: 6665

Ion Ratio Lower Upper

75 100

110 10.0 17.4 52.2#

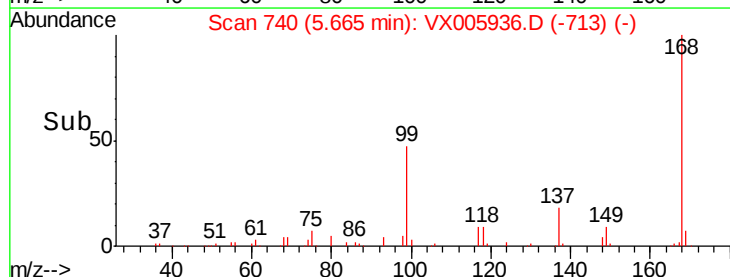
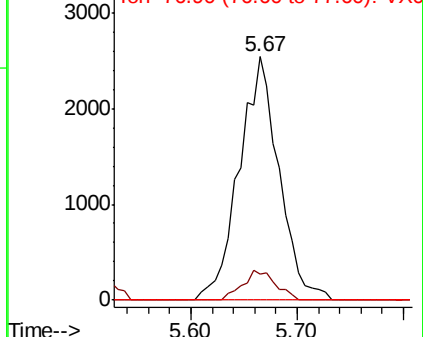
77 0.0 25.8 38.6#

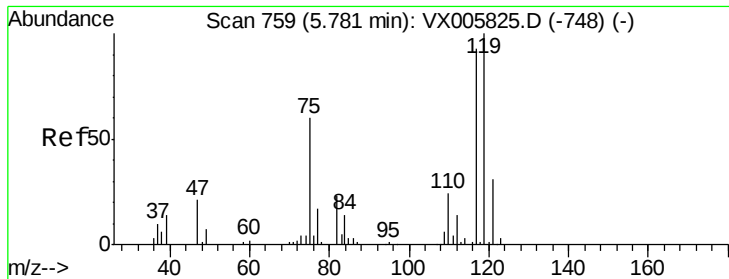


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

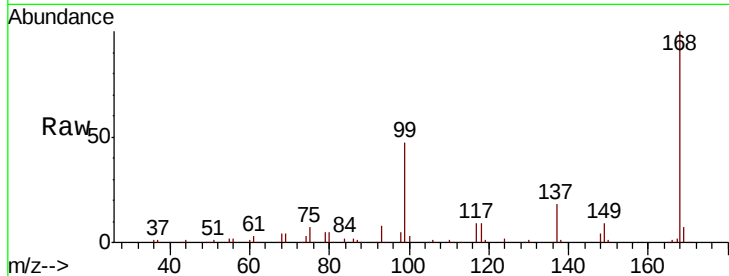




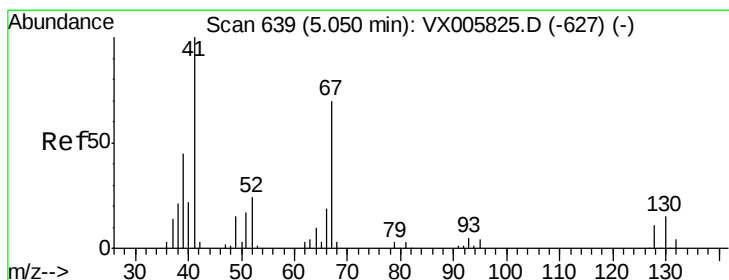
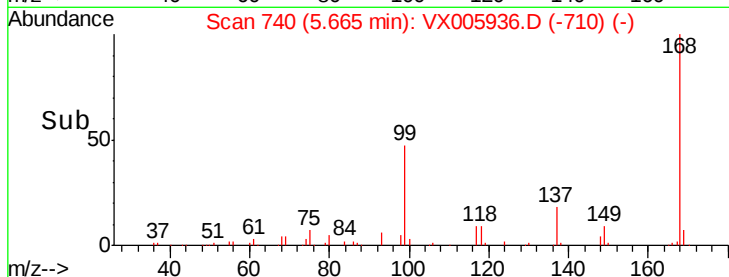
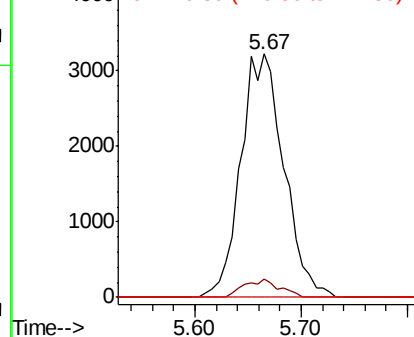
#38
Carbon Tetrachloride
Concen: 6.361 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 9129
Ion Ratio Lower Upper
117 100
119 7.7 78.1 117.1#
121 0.0 24.6 36.8#

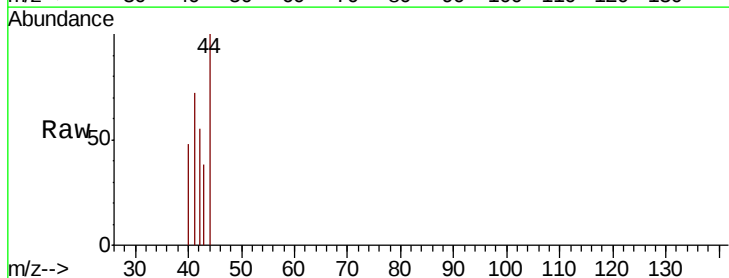


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

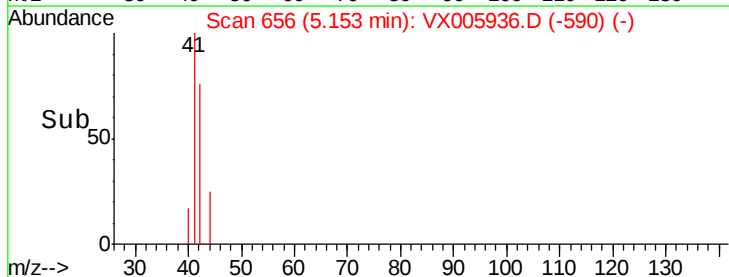
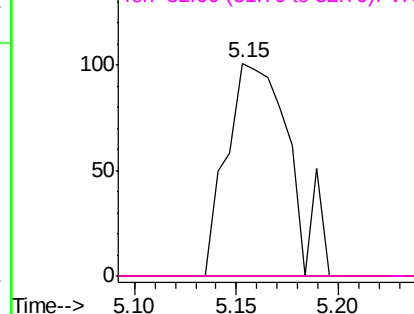


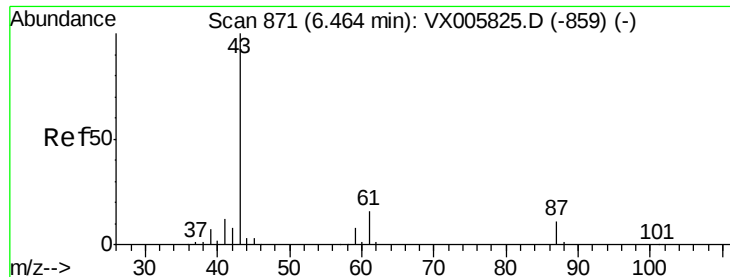
#41
Methacrylonitrile
Concen: 0.213 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.10 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

Tgt Ion: 41 Resp: 217
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 53.4 80.0#
52 0.0 23.4 35.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 2.546 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

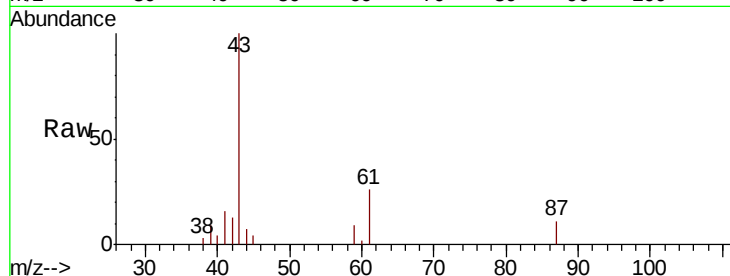
Tot Ion: 43 Resp: 6954

Ion Ratio Lower Upper

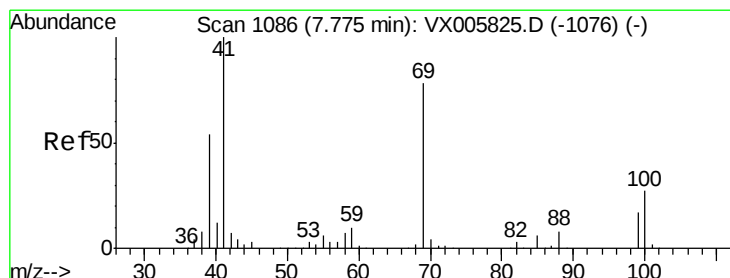
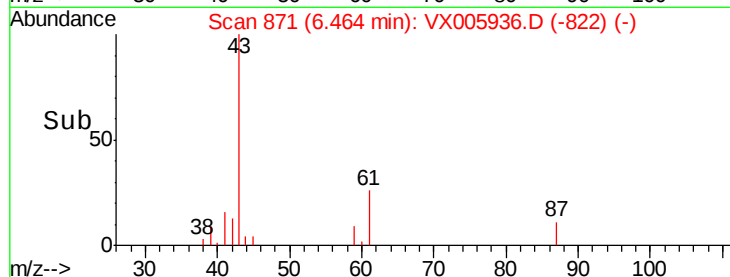
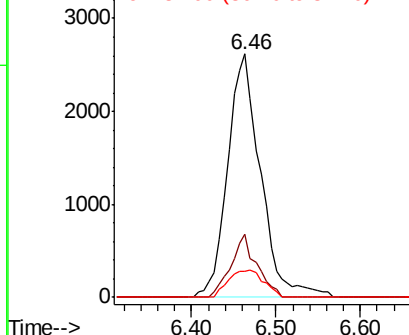
43 100

61 20.3 14.6 22.0

87 11.8 9.6 14.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.937 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

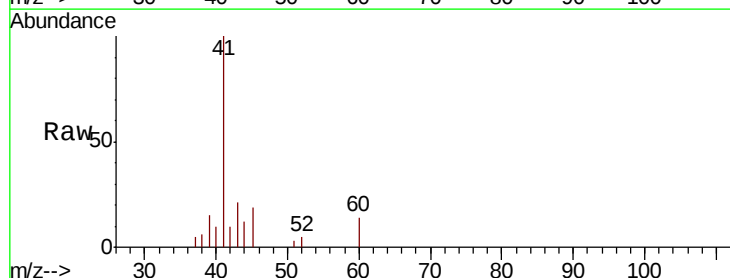
Tgt Ion: 41 Resp: 3602

Ion Ratio Lower Upper

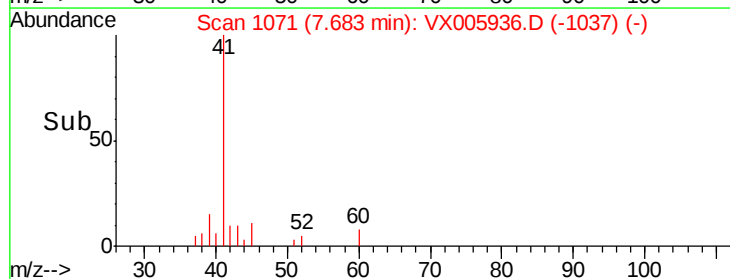
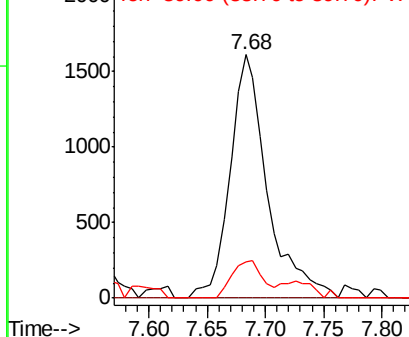
41 100

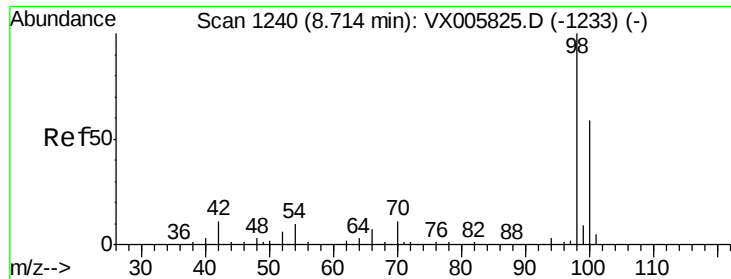
69 0.0 63.2 94.8#

39 0.0 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

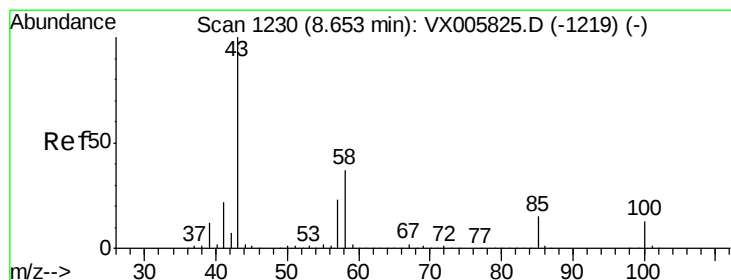
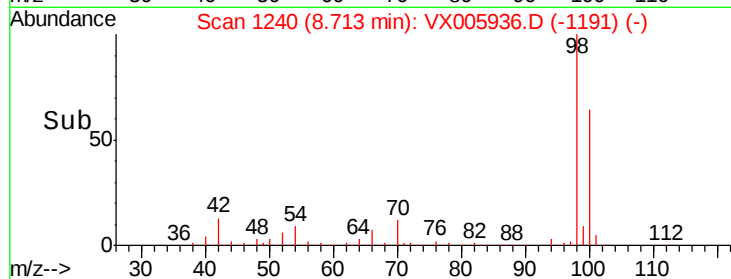
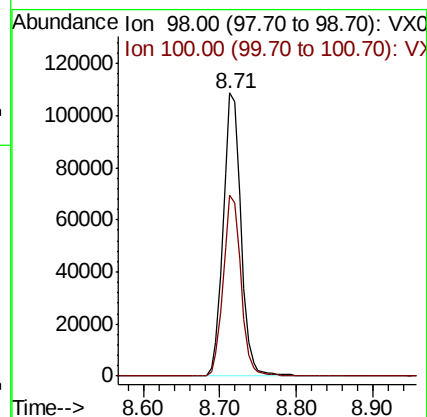
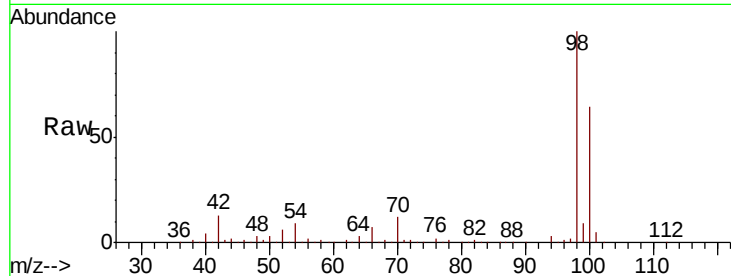




#50
Toluene-d8
Concen: 52.100 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

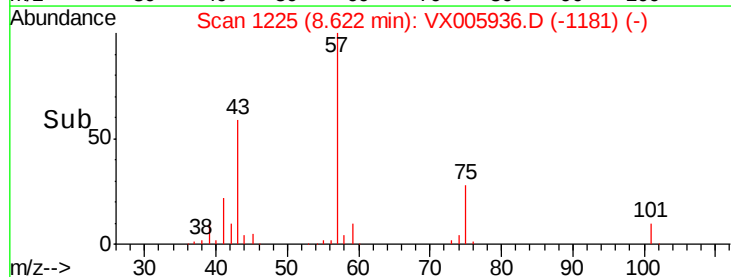
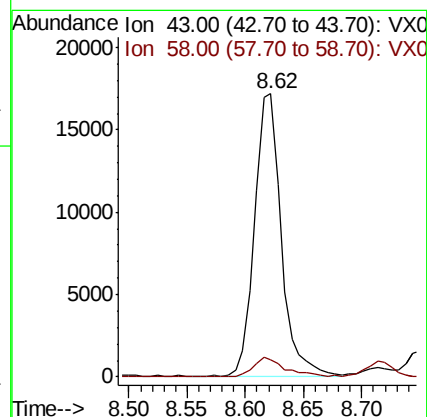
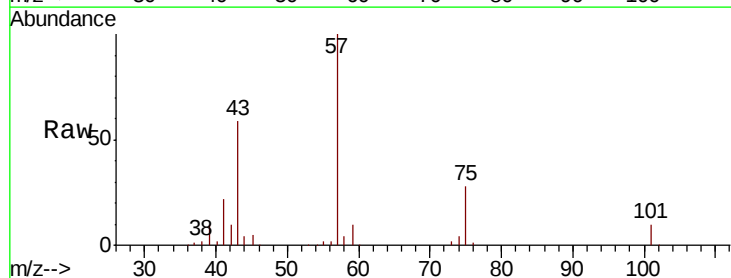
Instrument :
MSVOA_X
ClientSampleId :

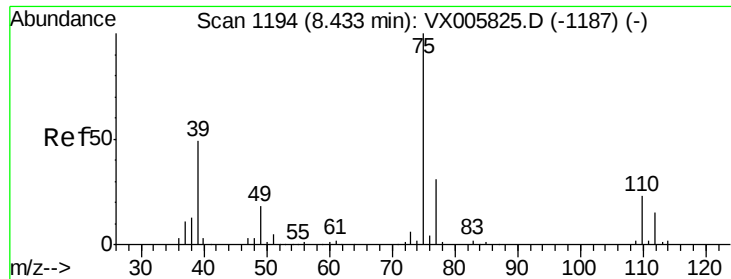
Tot Ion: 98 Resp: 175193
Ion Ratio Lower Upper
98 100
100 63.7 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 16.206 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

Tgt Ion: 43 Resp: 27901
Ion Ratio Lower Upper
43 100
58 8.2 29.7 44.5#

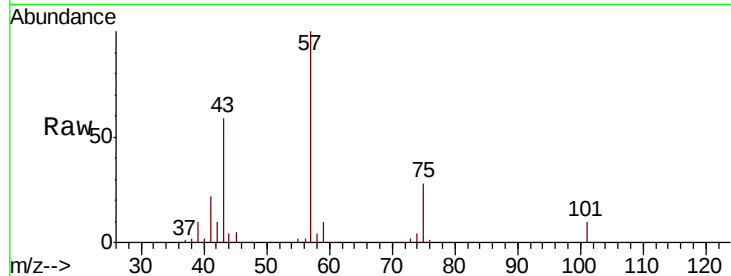




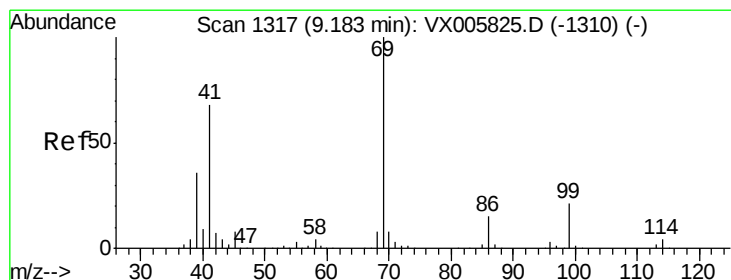
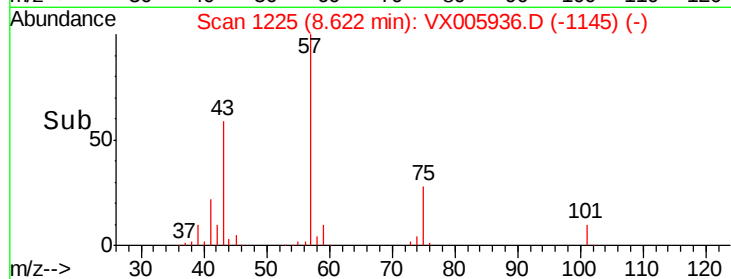
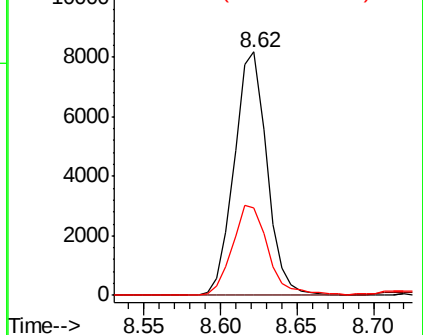
#54
 cis-1,3-Dichloropropene
 Concen: 8.374 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.19 min
 Lab File: VX005936.D
 Acq: 13 Nov 2018 07:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 12117
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 35.8 38.2 57.2#

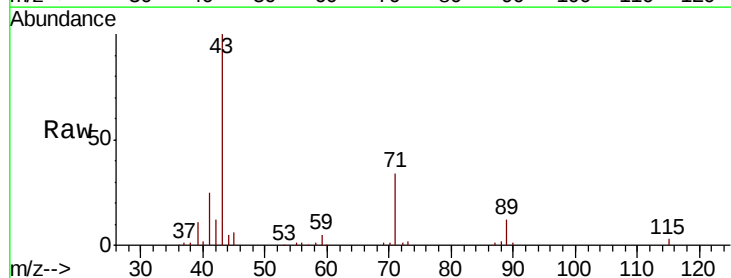


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

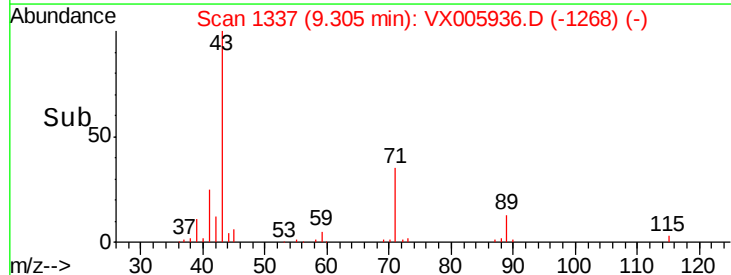
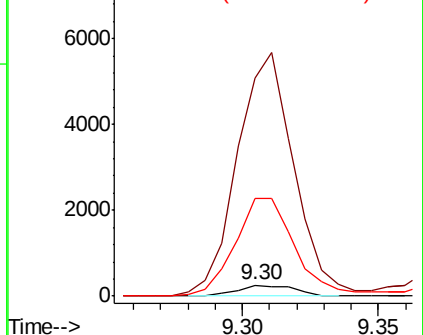


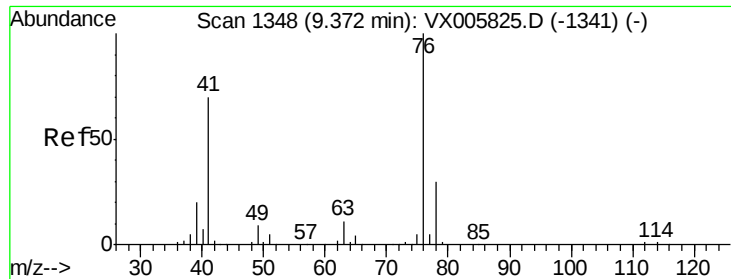
#56
 Ethyl methacrylate
 Concen: 0.225 ug/l
 RT: 9.30 min Scan# 1337
 Delta R.T. 0.12 min
 Lab File: VX005936.D
 Acq: 13 Nov 2018 07:58

Tgt Ion: 69 Resp: 350
 Ion Ratio Lower Upper
 69 100
 41 2366.0 57.0 85.6#
 39 998.9 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VX0
 Ion 41.00 (40.70 to 41.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.535 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

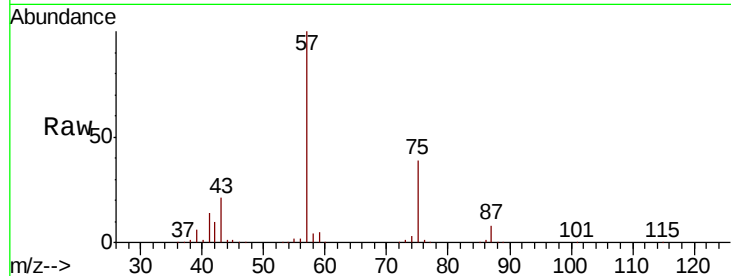
ClientSampleId :

Tot Ion: 76 Resp: 2685

Ion Ratio Lower Upper

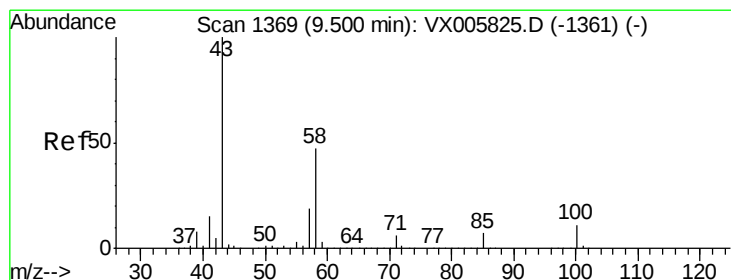
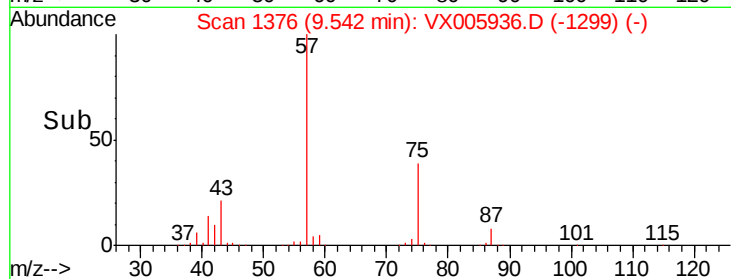
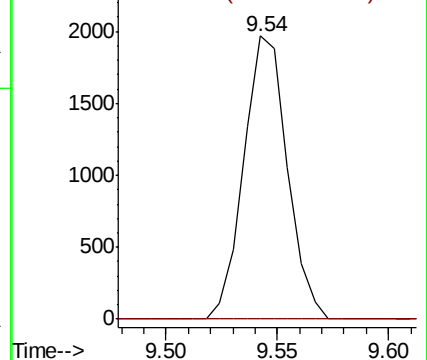
76 100

78 0.0 25.3 37.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 27.862 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005936.D

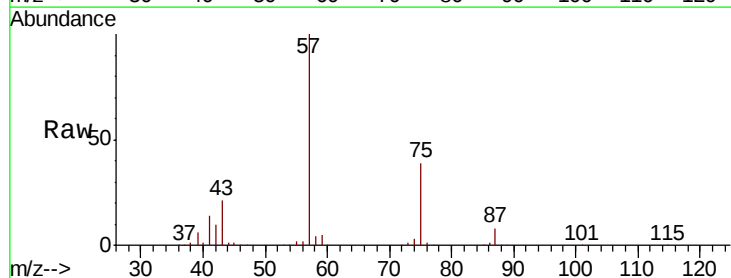
Acq: 13 Nov 2018 07:58

Tgt Ion: 43 Resp: 42281

Ion Ratio Lower Upper

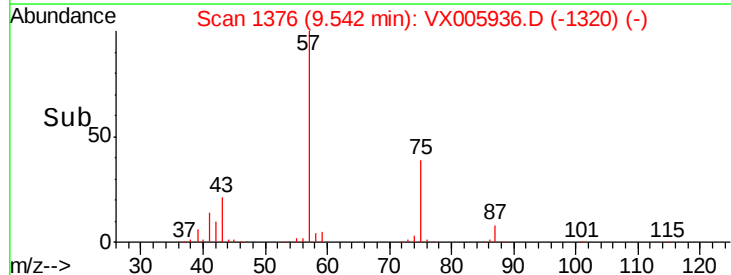
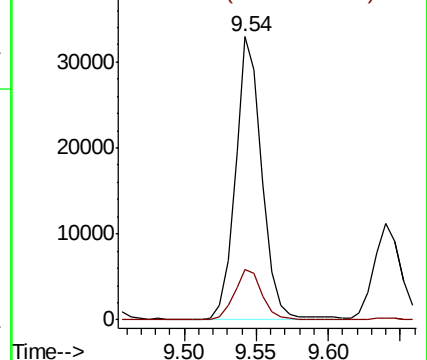
43 100

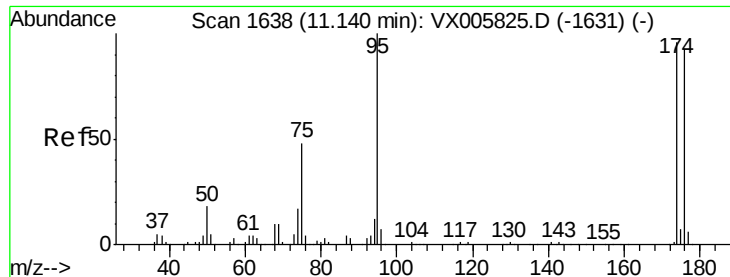
58 18.8 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 48.409 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

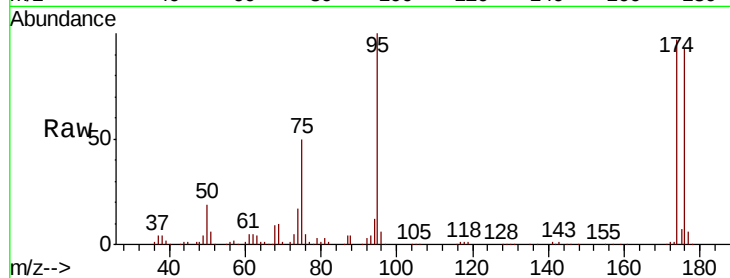
Tot Ion: 95 Resp: 58526

Ion Ratio Lower Upper

95 100

174 93.0 0.0 184.4

176 89.4 0.0 177.4

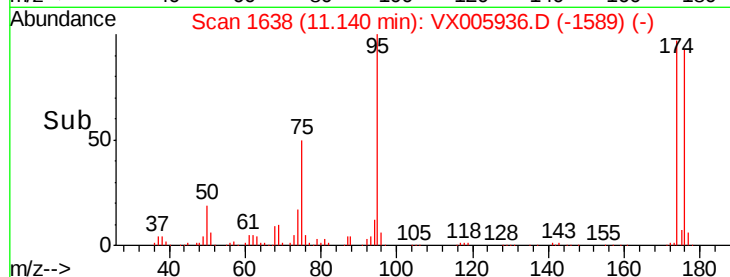


Abundance Ion 94.90 (94.60 to 95.60): VX005825.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005825.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005825.D (-1631) (-)

Time-->

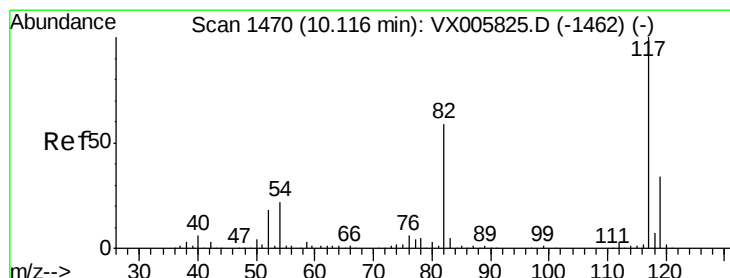


Abundance Ion 94.90 (94.60 to 95.60): VX005936.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005936.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005936.D (-1589) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

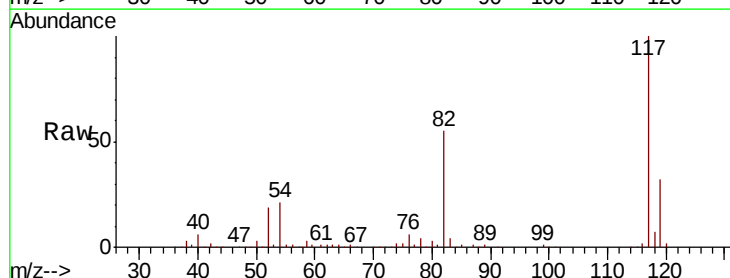
Tgt Ion: 117 Resp: 133252

Ion Ratio Lower Upper

117 100

82 54.9 44.1 66.1

119 32.5 26.2 39.2

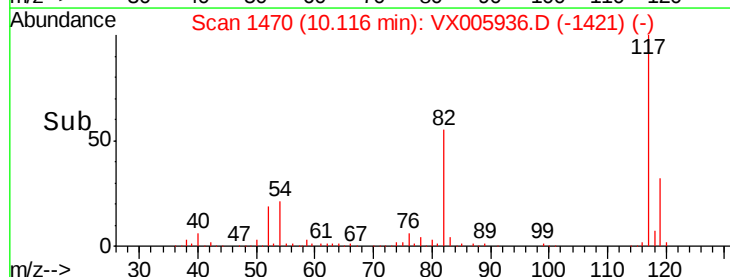


Abundance Ion 116.90 (116.60 to 117.60): VX005825.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005825.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005825.D (-1462) (-)

Time-->

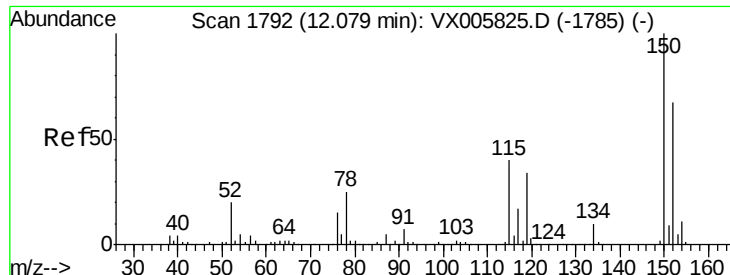


Abundance Ion 116.90 (116.60 to 117.60): VX005936.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005936.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005936.D (-1421) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

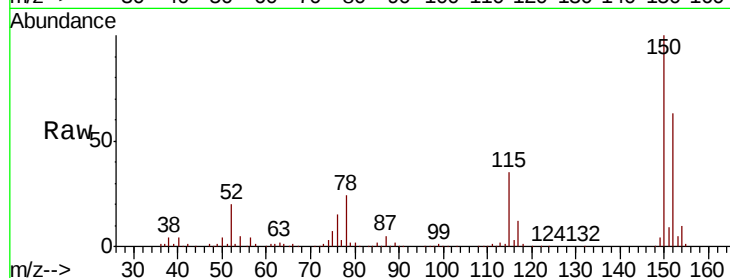
Tot Ion:152 Resp: 62548

Ion Ratio Lower Upper

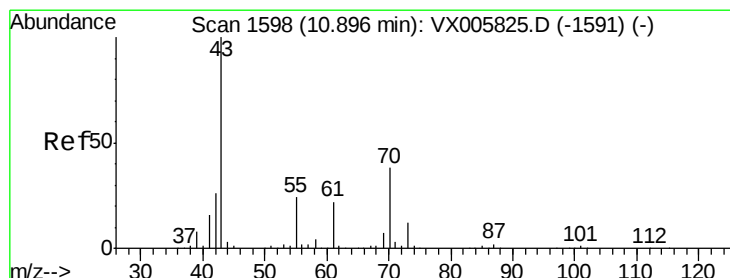
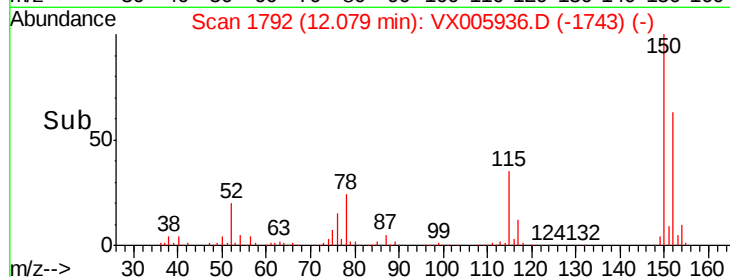
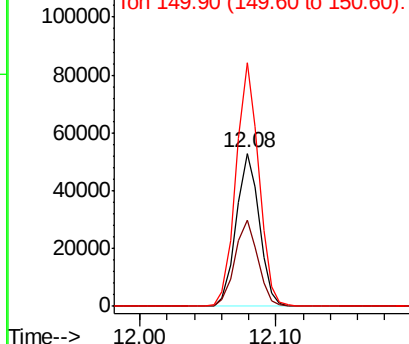
152 100

115 56.0 39.4 118.1

150 157.2 0.0 346.4



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



#74

N-amil acetate

Concen: 1.294 ug/l

RT: 11.01 min Scan# 1617

Delta R.T. 0.12 min

Lab File: VX005936.D

Acq: 13 Nov 2018 07:58

Tgt Ion: 43 Resp: 90

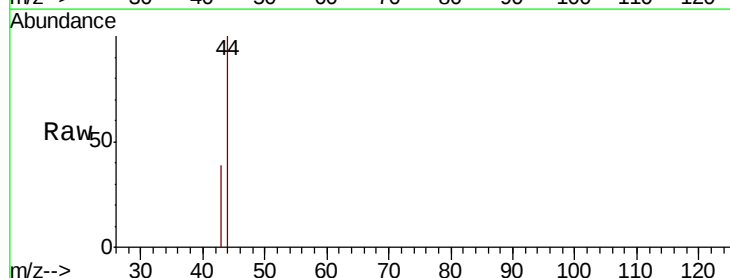
Ion Ratio Lower Upper

43 100

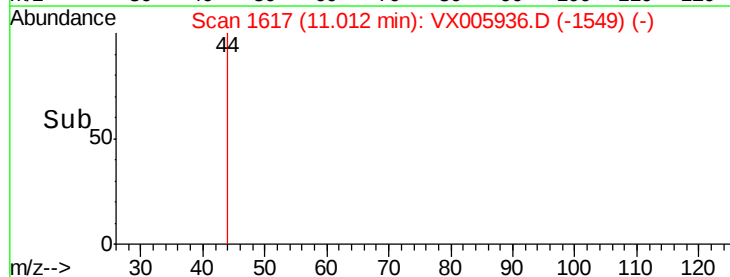
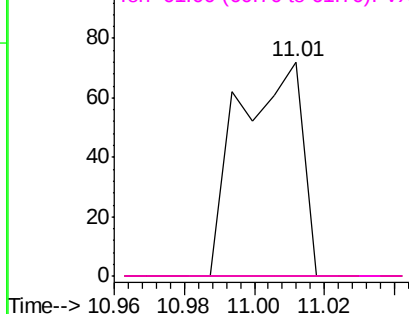
70 0.0 31.6 47.4#

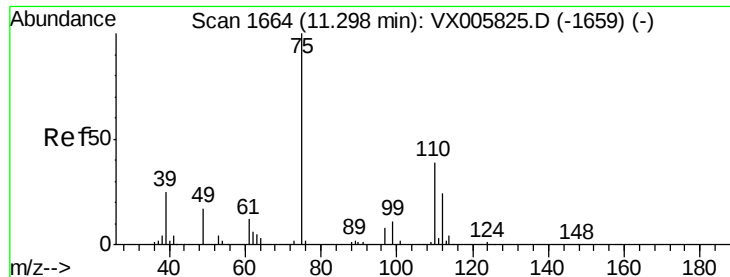
55 0.0 19.7 29.5#

61 0.0 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0

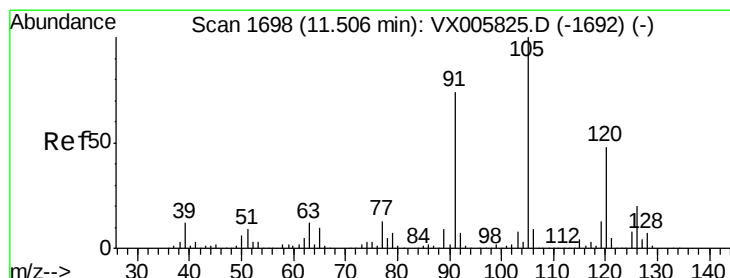
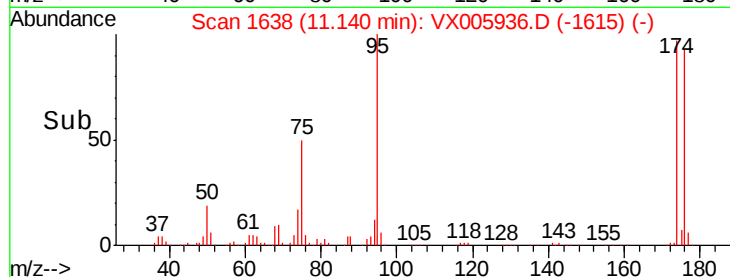
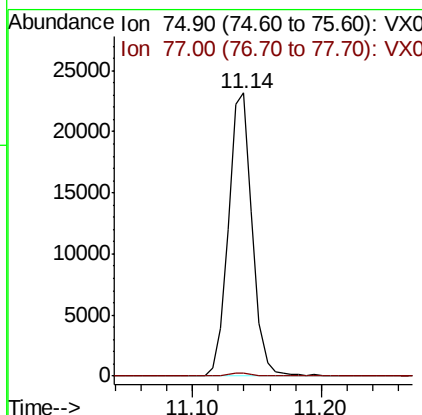
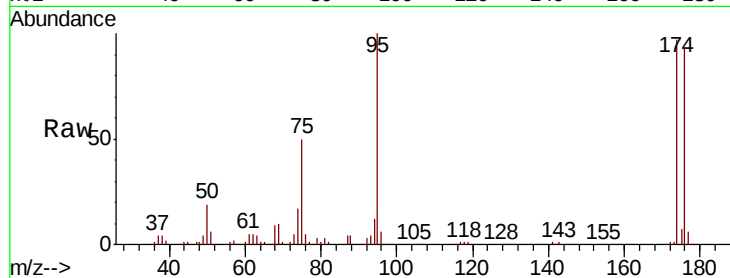




#76
 1,2,3-Trichloropropane
 Concen: 23.573 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005936.D
 Acq: 13 Nov 2018 07:58

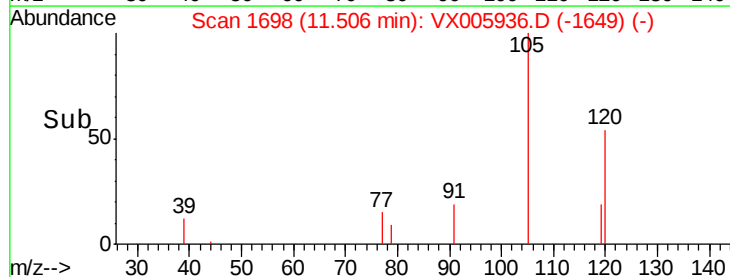
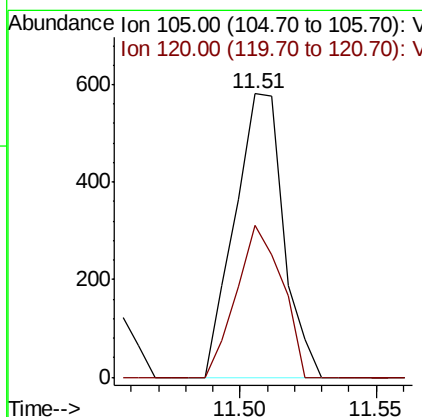
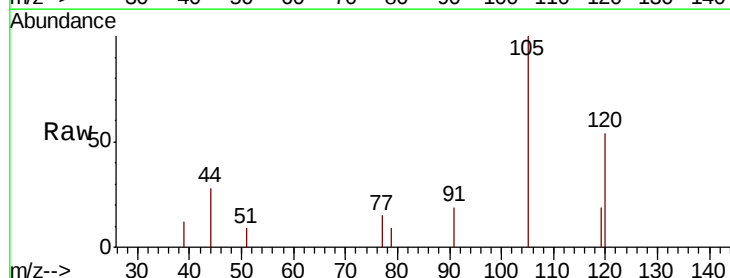
Instrument :
 MSVOA_X
 ClientSampleId :

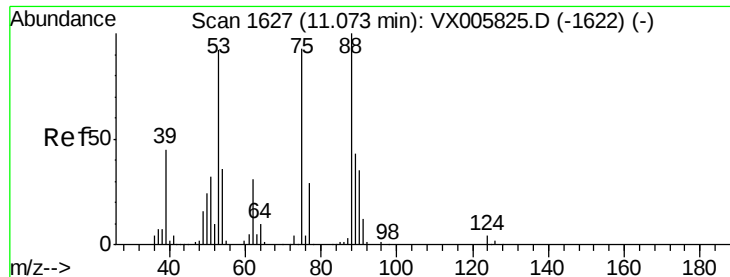
Tot Ion: 75 Resp: 30023
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.5 61.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.235 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005936.D
 Acq: 13 Nov 2018 07:58

Tgt Ion: 105 Resp: 722
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.1 72.2

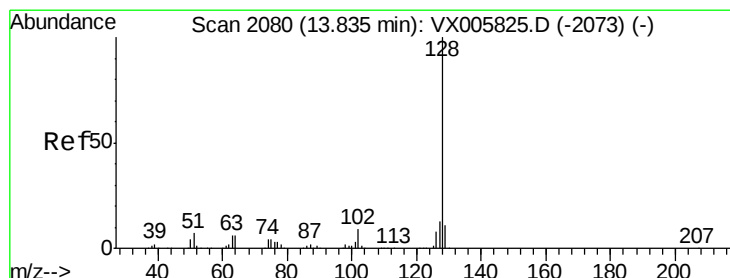
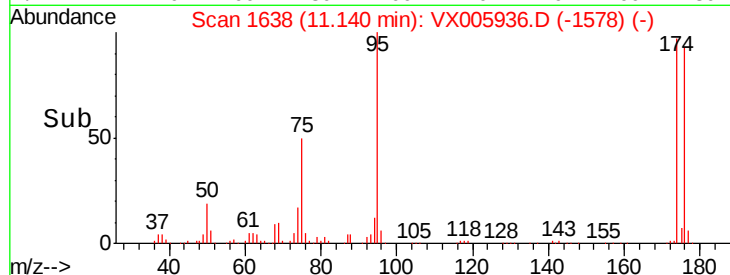
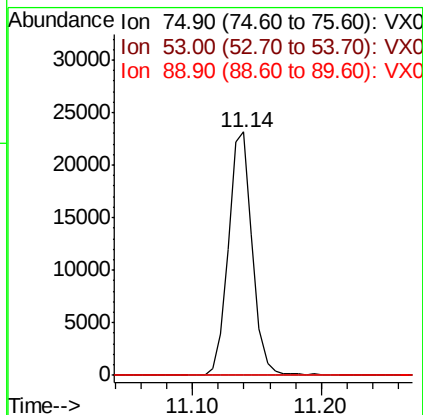
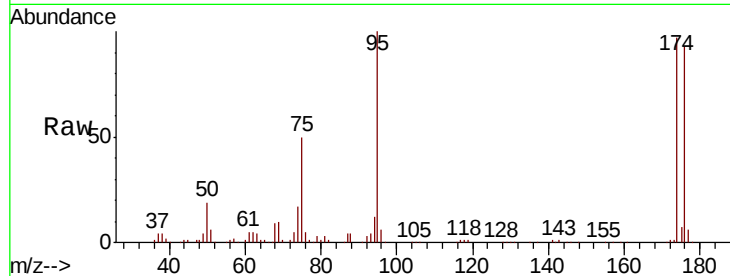




#81
trans-1,4-Dichloro-2-butene
Concen: 75.131 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 30023
Ion Ratio Lower Upper
75 100
53 0.0 80.2 120.2#
89 0.0 39.8 59.8#



#95
Naphthalene
Concen: 2.168 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005936.D
Acq: 13 Nov 2018 07:58

Tgt Ion: 128 Resp: 4564
Ion Ratio Lower Upper
128 100
127 13.4 10.4 15.6
129 10.8 8.7 13.1

