

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100818\
 Data File : VX005140.D
 Acq On : 08 Oct 2018 21:49
 Operator : JC/MD
 Sample : VX1008WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1008WBL02

Quant Time: Oct 09 05:59:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	189358	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	297600	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	289115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	160334	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	141455	52.29	ug/l	0.00
Spiked Amount			Recovery	=	104.58%	
35) Dibromofluoromethane	5.50	113	119906	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	8.72	98	422832	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	11.14	95	152240	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	

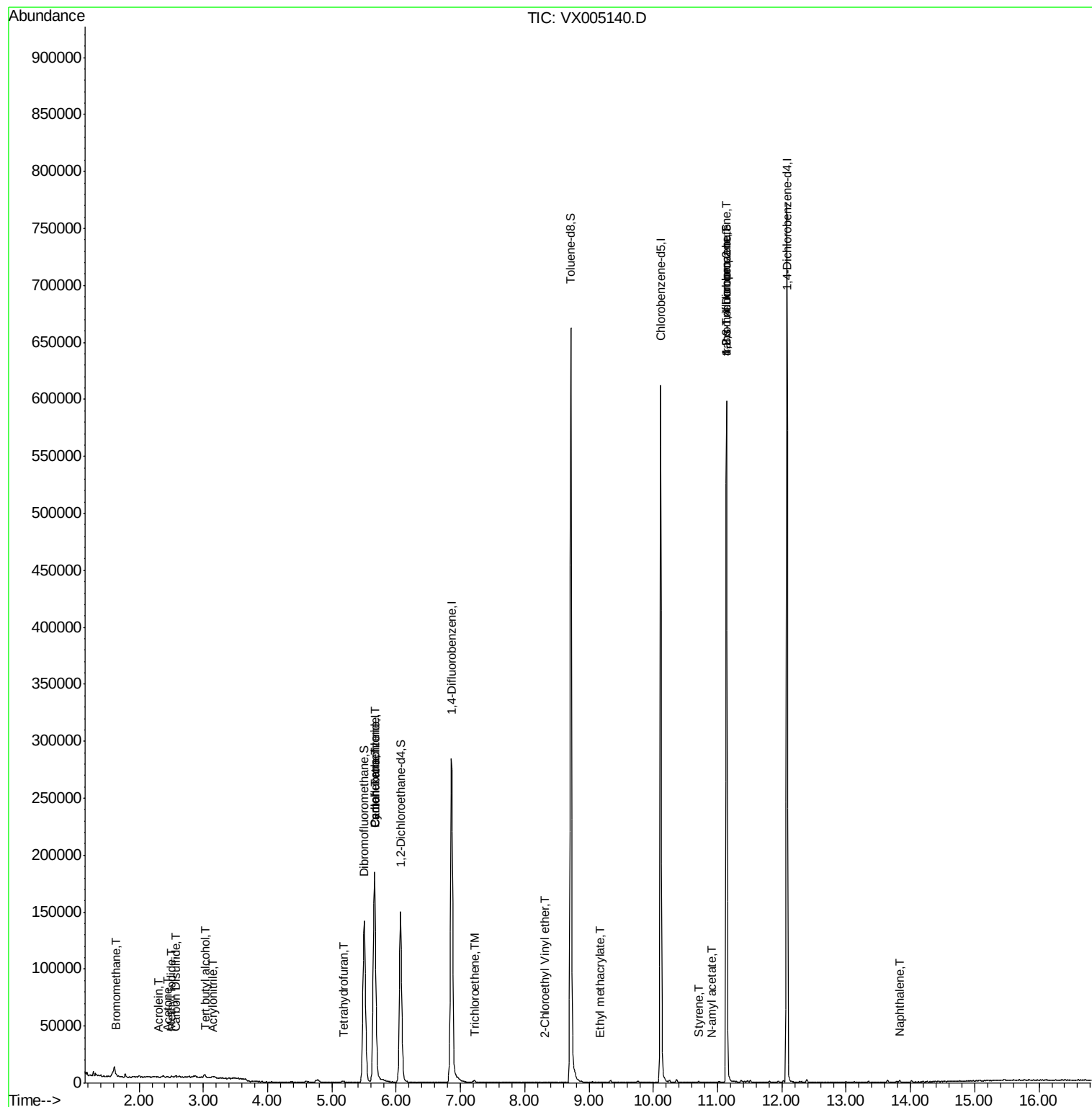
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	466	0.267	ug/l #	67
6) Chloroethane	1.72	64	87	Below Cal	#	45
10) Methyl Iodide	2.51	142	755	0.272	ug/l #	91
11) Tert butyl alcohol	3.02	59	1700	2.248	ug/l #	80
13) Acrolein	2.30	56	166	0.308	ug/l #	37
15) Acrylonitrile	3.14	53	490	0.294	ug/l #	53
16) Acetone	2.44	43	669	0.424	ug/l #	74
17) Carbon Disulfide	2.57	76	1748	0.284	ug/l	96
20) Methylene Chloride	2.85	84	555	Below Cal		92
29) Tetrahydrofuran	5.17	42	1013	0.700	ug/l #	54
31) Cyclohexane	5.66	56	3716	1.080	ug/l #	12
38) Carbon Tetrachloride	5.67	117	16452	4.548	ug/l #	17
44) Trichloroethene	7.22	130	792	0.299	ug/l	83
56) Ethyl methacrylate	9.18	69	40	2.871	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.31	63	78	14.275	ug/l #	49
70) Styrene	10.71	104	273	2.174	ug/l #	78
74) N-amyl acetate	10.91	43	109	1.767	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	74266	20.666	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	389	Below Cal		92
81) trans-1,4-Dichloro-2-buten	11.14	75	74266	56.111	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	666	Below Cal		94
95) Naphthalene	13.83	128	907	0.787	ug/l #	93

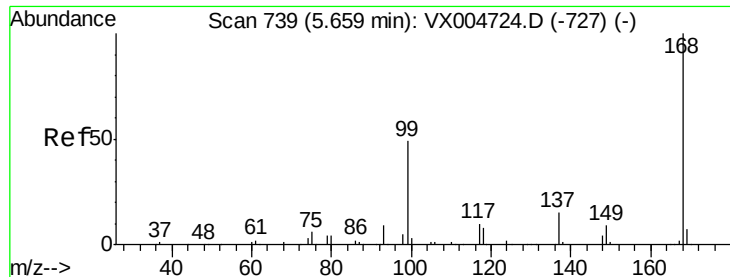
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampled :
VX1008WBL02

Quant Time: Oct 09 05:59:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

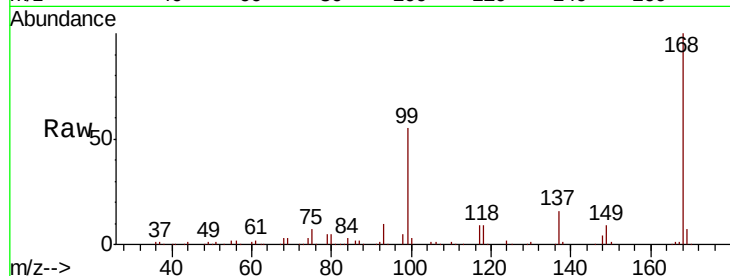
VX1008WBL02

Tot Ion:168 Resp: 189358

Ion Ratio Lower Upper

168 100

99 54.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

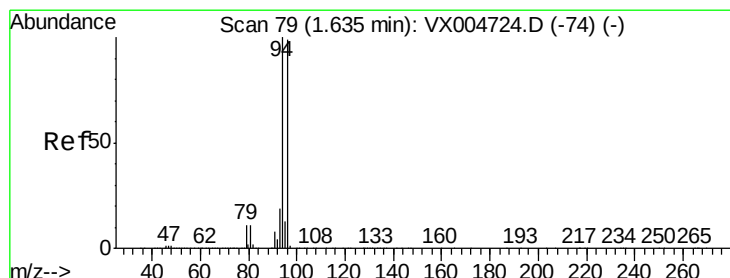
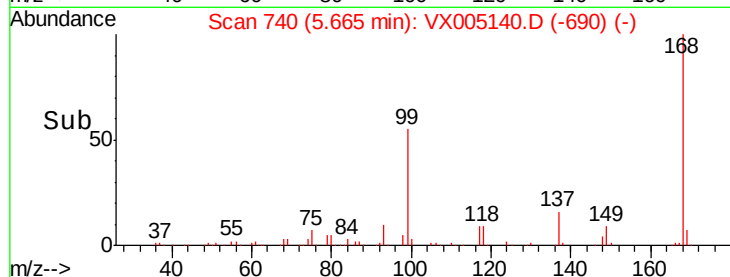
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.267 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005140.D

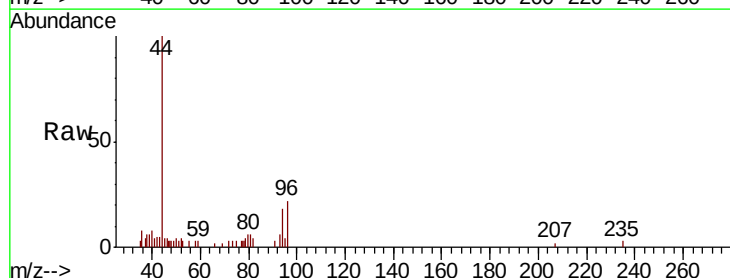
Acq: 08 Oct 2018 21:49

Tgt Ion: 94 Resp: 466

Ion Ratio Lower Upper

94 100

96 132.0 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

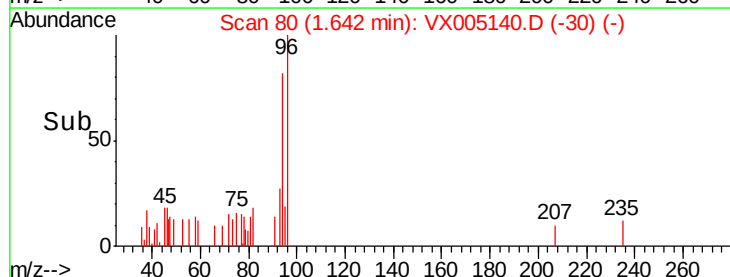
600

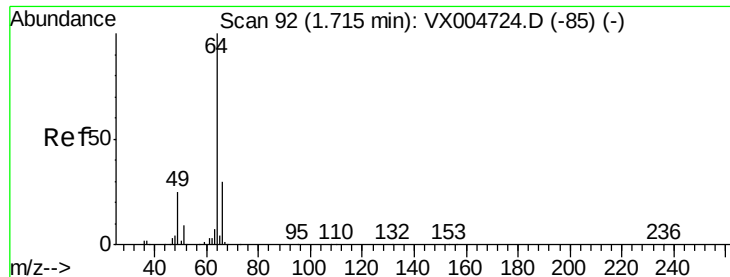
400

200

0

Time--> 1.60 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

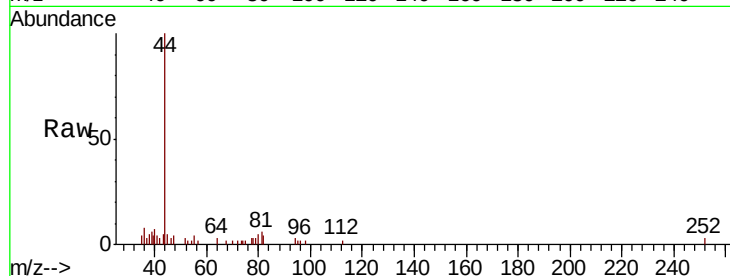
VX1008WBL02

Tot Ion: 64 Resp: 87

Ion Ratio Lower Upper

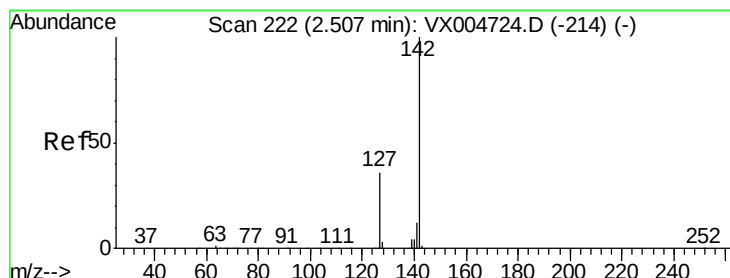
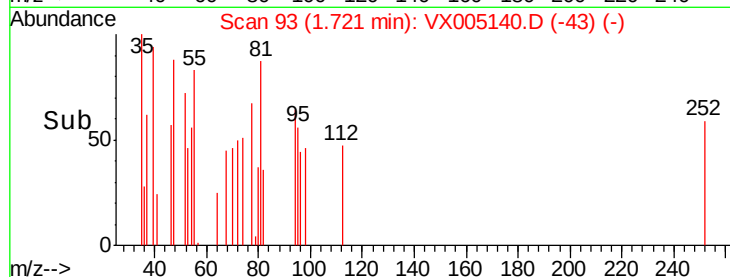
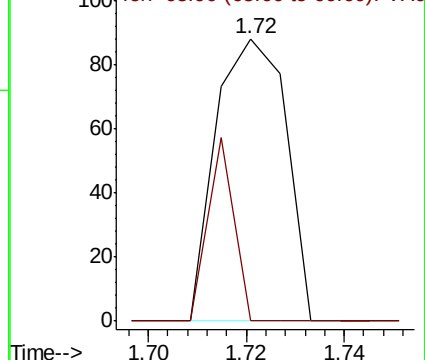
64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.272 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

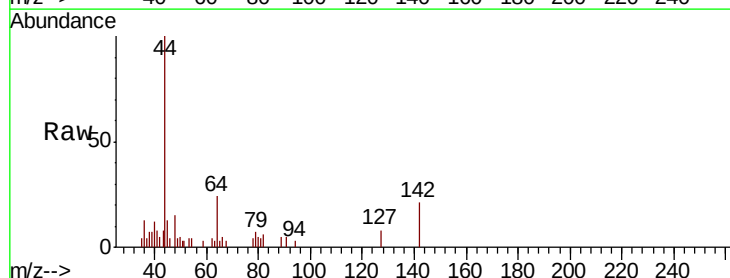
Tgt Ion: 142 Resp: 755

Ion Ratio Lower Upper

142 100

127 43.4 30.1 45.1

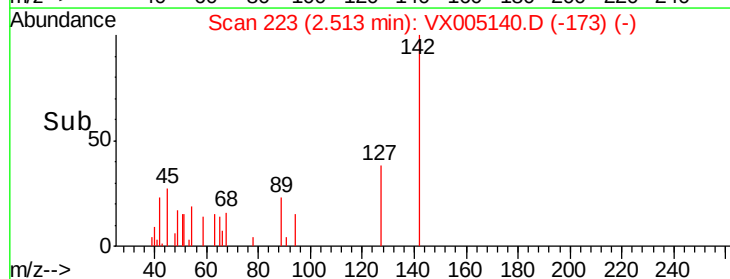
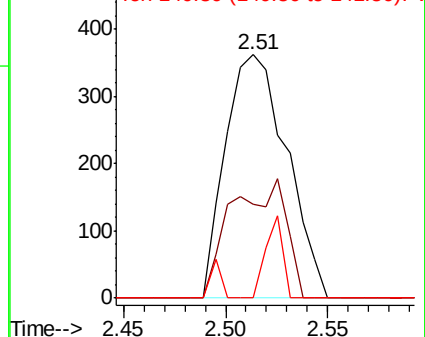
141 9.5 10.1 15.1#

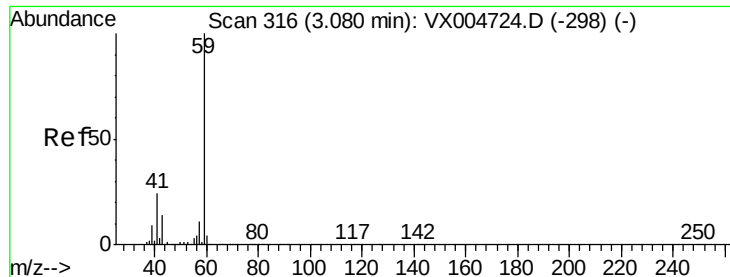


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

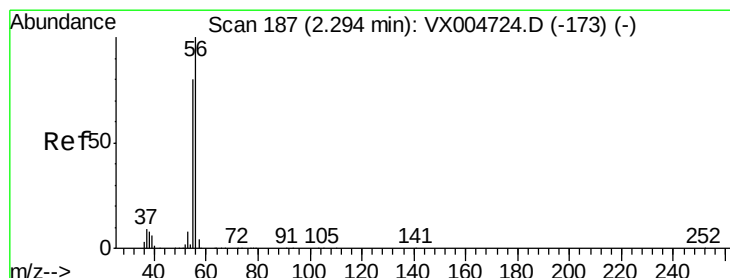
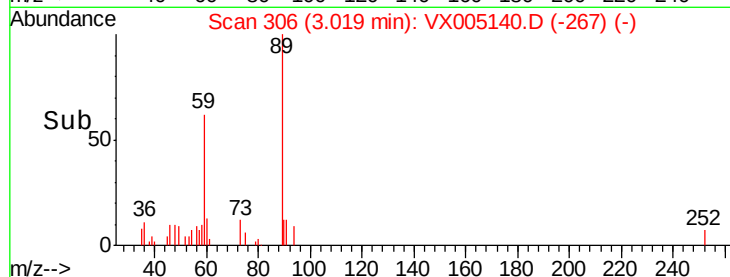
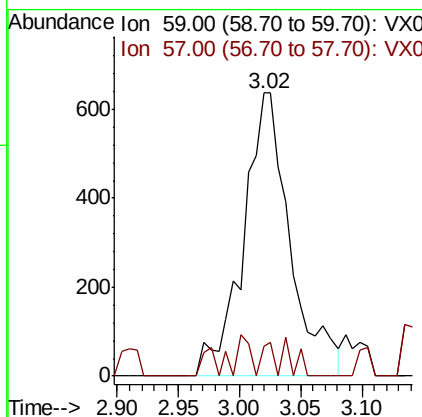
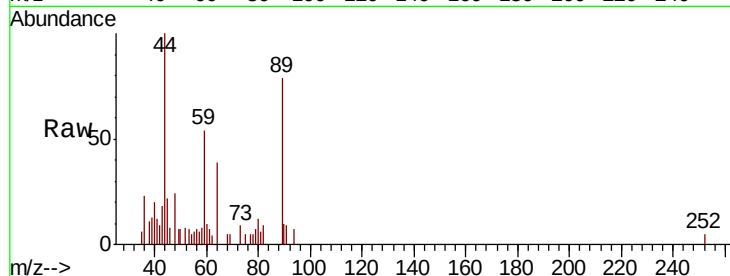




#11
Tert butyl alcohol
Concen: 2.248 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005140.D
Acq: 08 Oct 2018 21:49

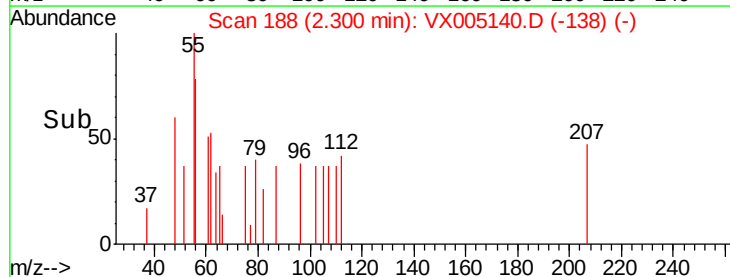
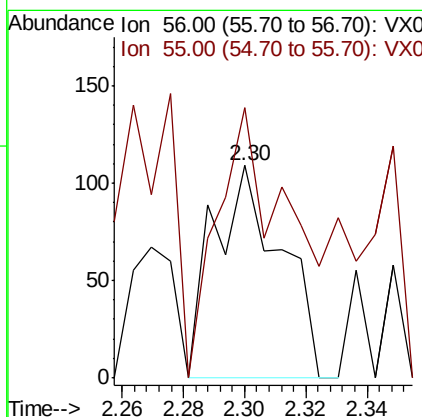
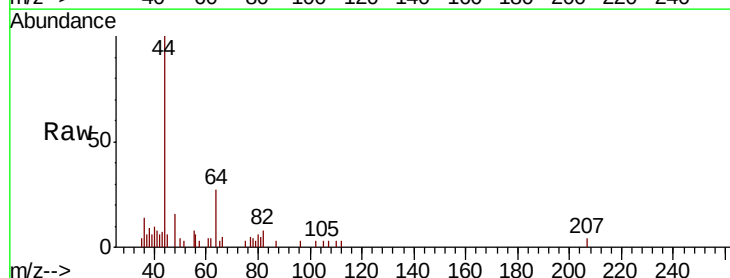
Instrument :
MSVOA_X
ClientSampleId :
VX1008WBL02

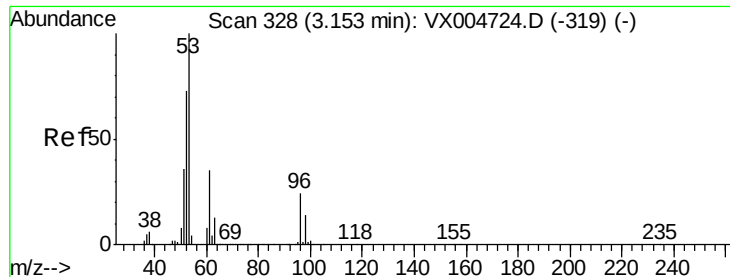
Tot Ion: 59 Resp: 1700
Ion Ratio Lower Upper
59 100
57 3.1 8.6 12.8#



#13
Acrolein
Concen: 0.308 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005140.D
Acq: 08 Oct 2018 21:49

Tgt Ion: 56 Resp: 166
Ion Ratio Lower Upper
56 100
55 134.3 63.4 95.2#





#15

Acrylonitrile

Concen: 0.294 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampled :

VX1008WBL02

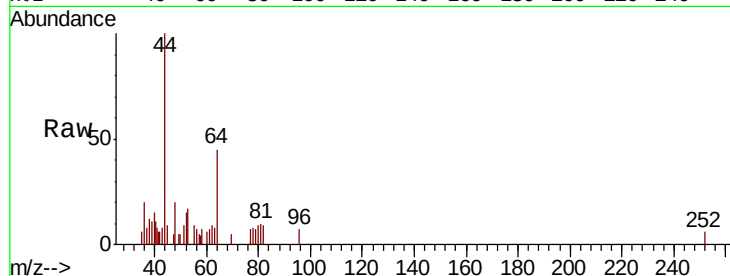
Tot Ion: 53 Resp: 490

Ion Ratio Lower Upper

53 100

52 127.8 63.0 94.4#

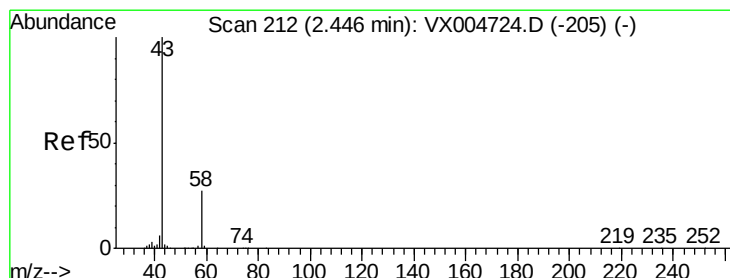
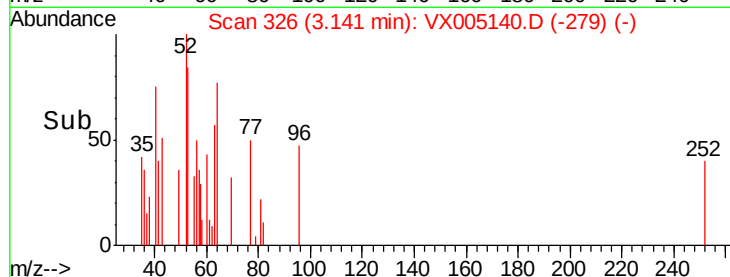
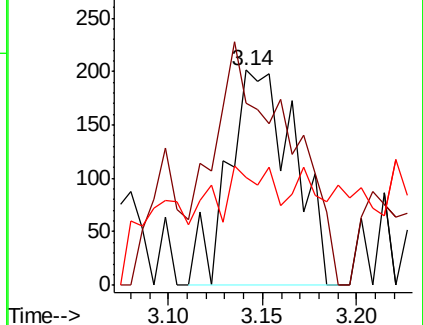
51 20.6 28.6 42.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.424 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005140.D

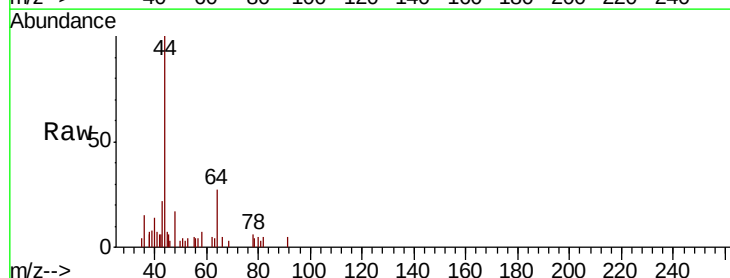
Acq: 08 Oct 2018 21:49

Tgt Ion: 43 Resp: 669

Ion Ratio Lower Upper

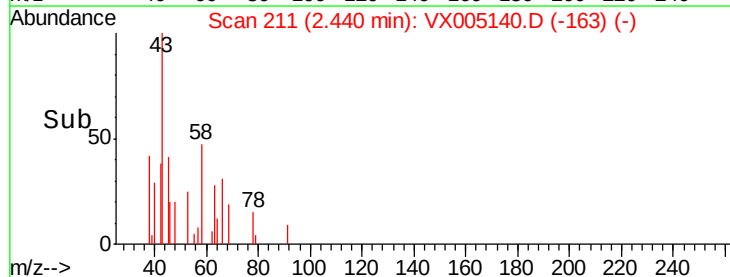
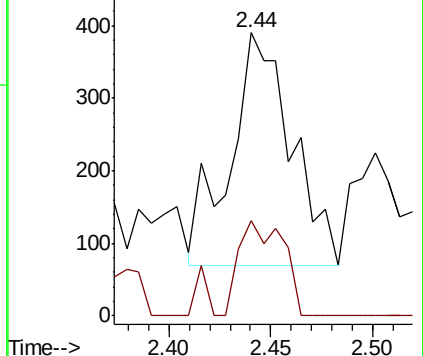
43 100

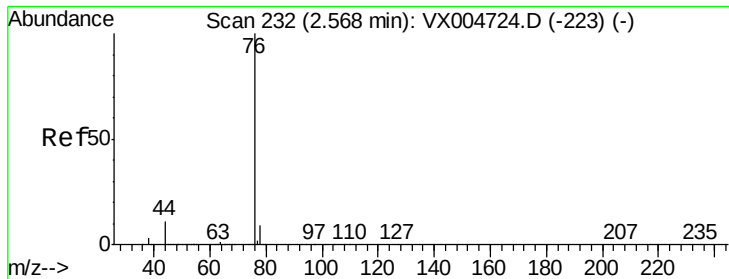
58 40.9 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

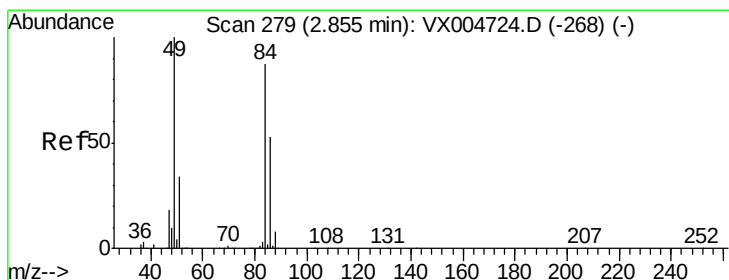
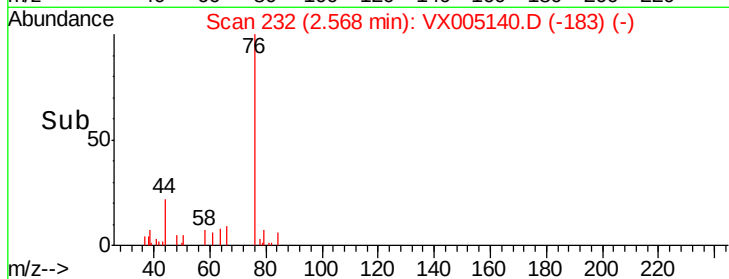
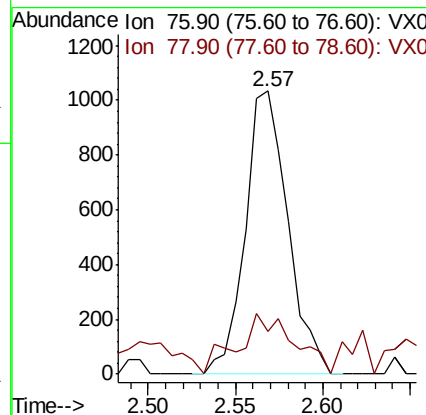
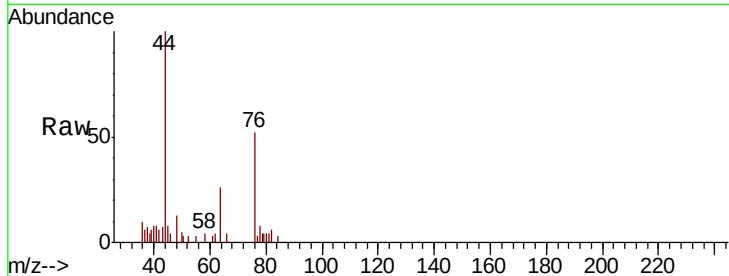




#17
Carbon Disulfide
Concen: 0.284 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX005140.D
Acq: 08 Oct 2018 21:49

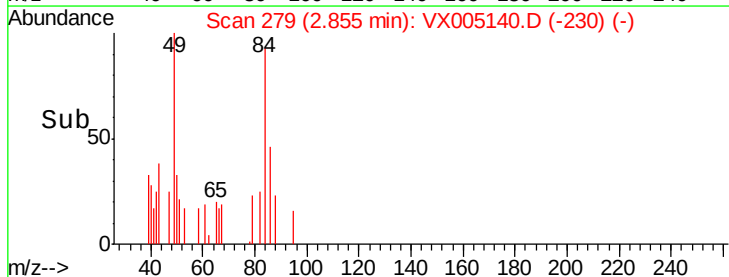
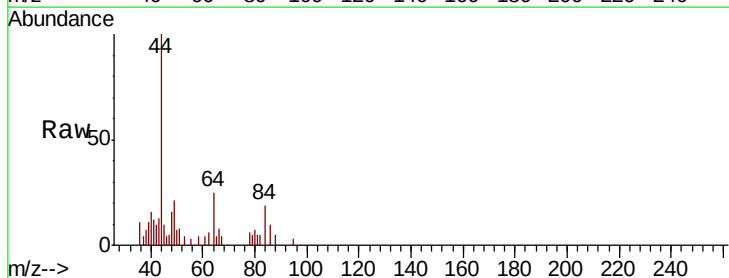
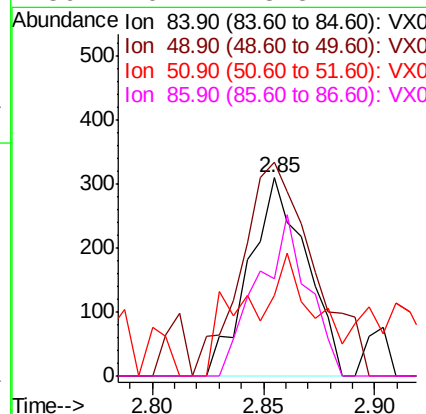
Instrument :
MSVOA_X
ClientSampleId :
VX1008WBL02

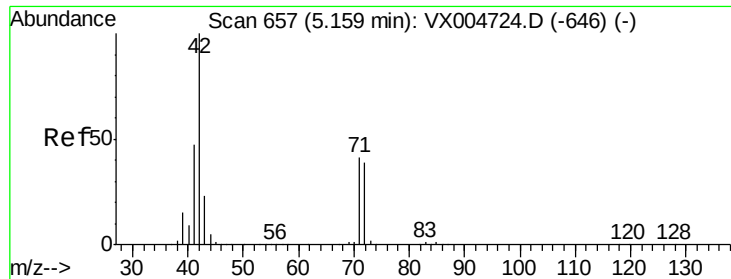
Tot Ion: 76 Resp: 1748
Ion Ratio Lower Upper
76 100
78 10.1 7.0 10.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005140.D
Acq: 08 Oct 2018 21:49

Tgt Ion: 84 Resp: 555
Ion Ratio Lower Upper
84 100
49 107.7 92.3 138.5
51 41.0 31.8 47.6
86 49.4 48.5 72.7





#29

Tetrahydrofuran

Concen: 0.700 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

VX1008WBL02

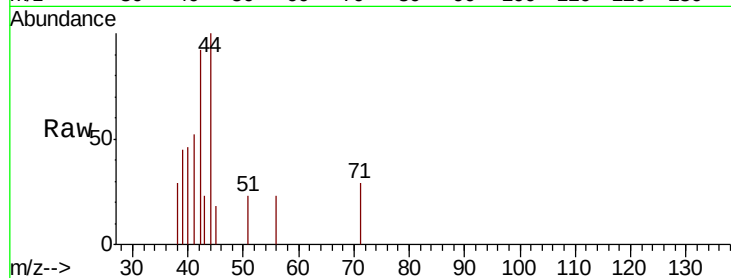
Tot Ion: 42 Resp: 1013

Ion Ratio Lower Upper

42 100

72 10.7 33.7 50.5#

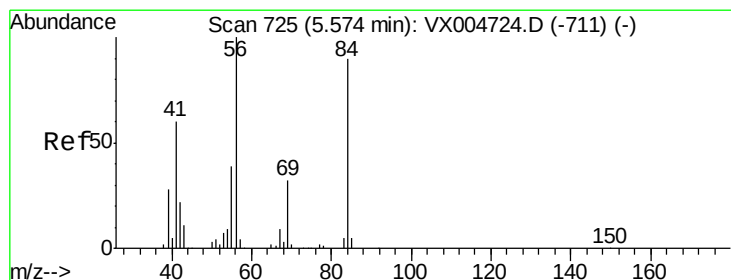
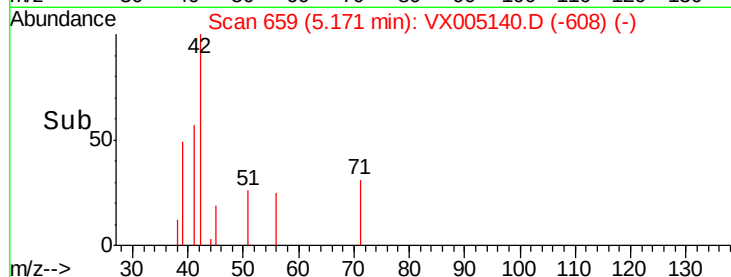
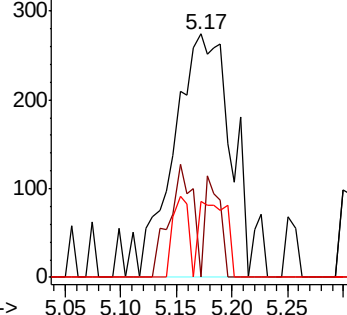
71 14.7 32.2 48.4#



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



#31

Cyclohexane

Concen: 1.080 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

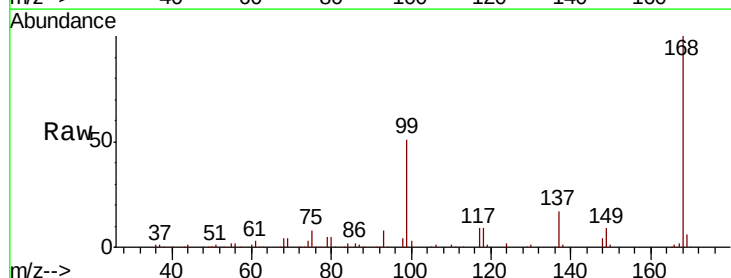
Tgt Ion: 56 Resp: 3716

Ion Ratio Lower Upper

56 100

69 175.5 25.9 38.9#

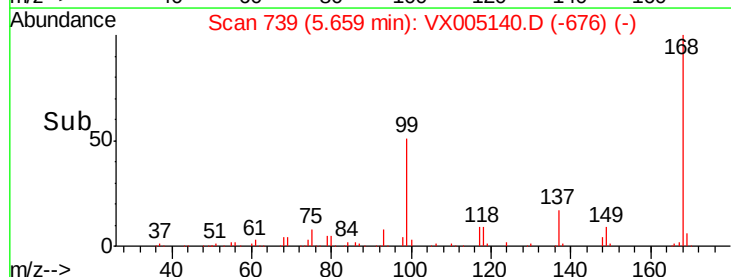
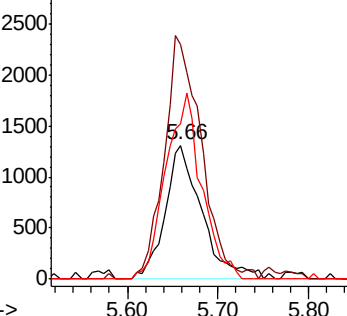
84 116.0 71.9 107.9#

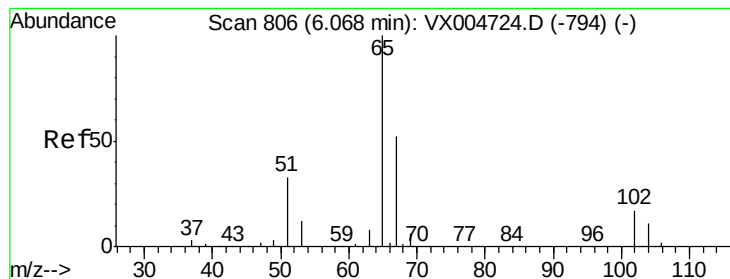


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.294 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

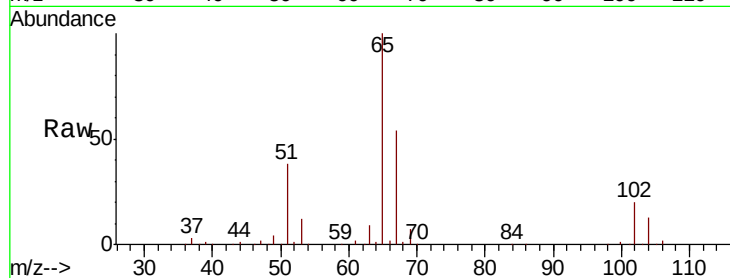
VX1008WBL02

Tot Ion: 65 Resp: 141455

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

50000

40000

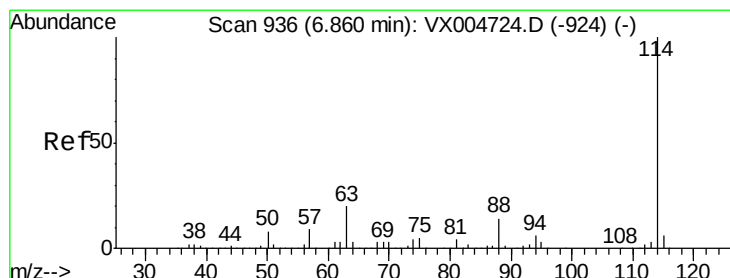
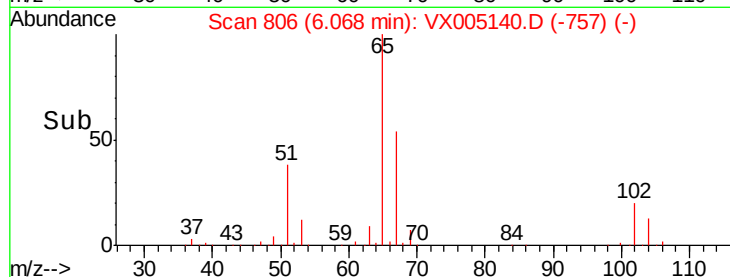
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

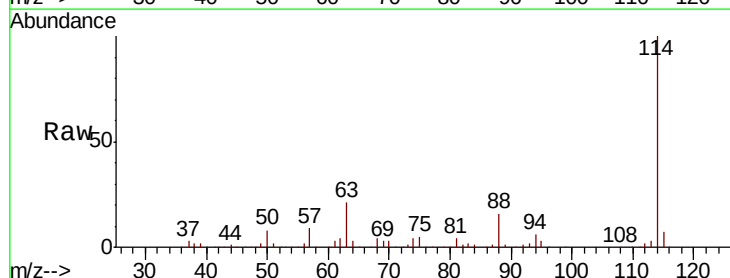
Tgt Ion: 114 Resp: 297600

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.8

88 15.8 0.0 27.0



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

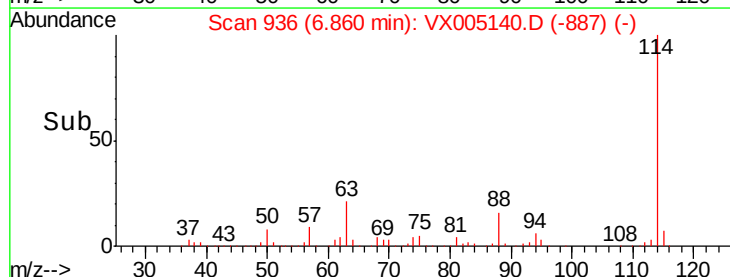
150000

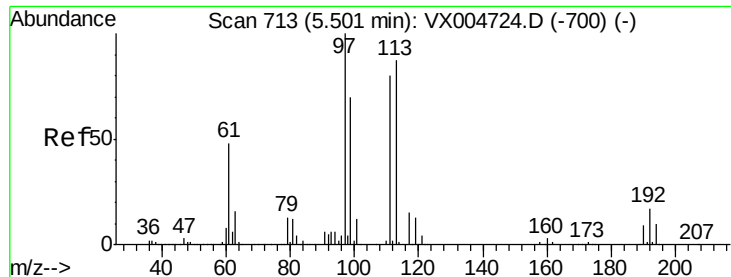
100000

50000

0

Time--> 6.80 7.00

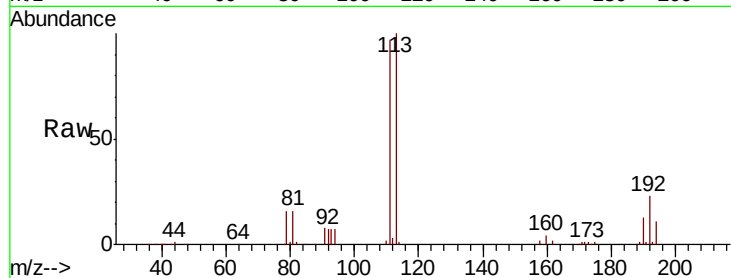




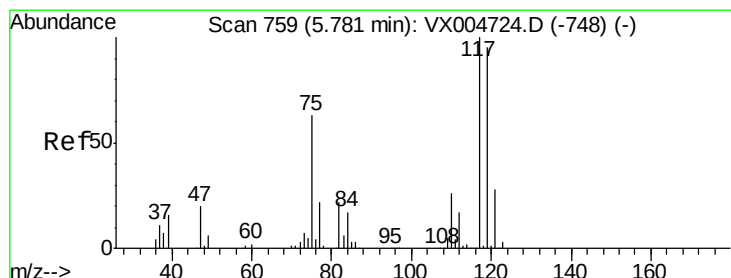
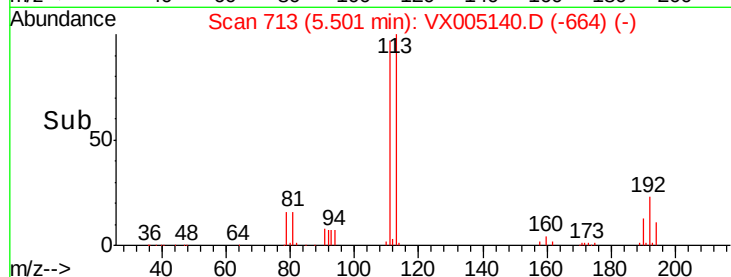
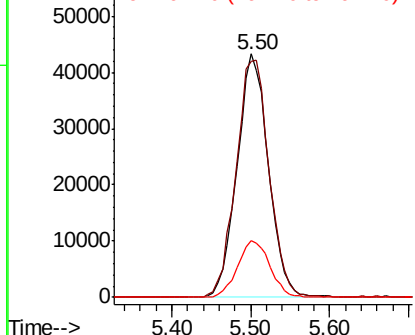
#35
Dibromofluoromethane
Concen: 47.540 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX005140.D
Acq: 08 Oct 2018 21:49

Instrument :
MSVOA_X
ClientSampleId :
VX1008WBL02

Tot Ion:113 Resp: 119906
Ion Ratio Lower Upper
113 100
111 102.9 77.0 115.4
192 23.9 17.0 25.6

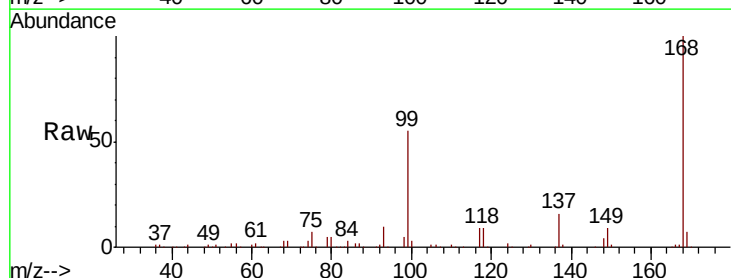


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

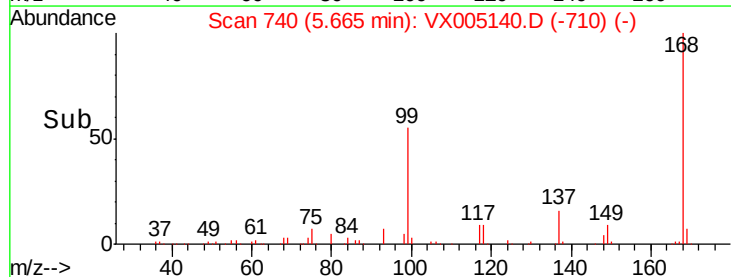
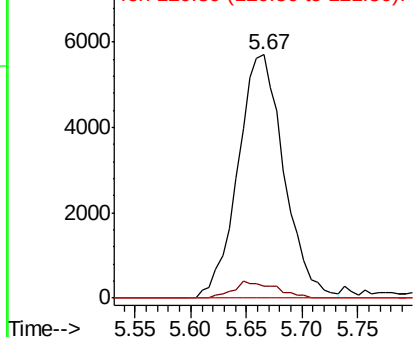


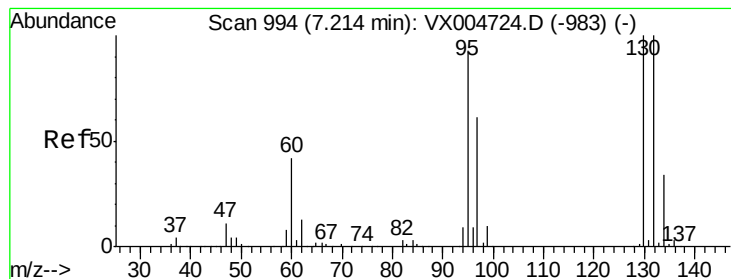
#38
Carbon Tetrachloride
Concen: 4.548 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005140.D
Acq: 08 Oct 2018 21:49

Tgt Ion:117 Resp: 16452
Ion Ratio Lower Upper
117 100
119 5.1 75.2 112.8#
121 0.0 22.5 33.7#



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





#44

Trichloroethene

Concen: 0.299 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

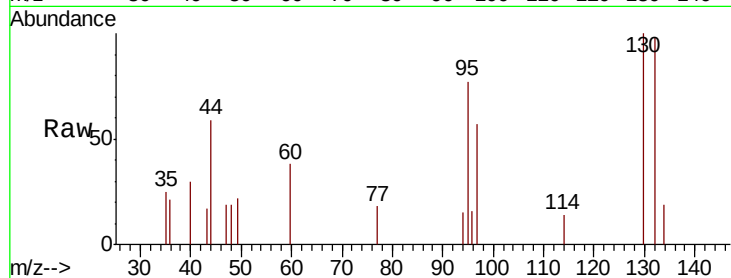
VX1008WBL02

Tot Ion:130 Resp: 792

Ion Ratio Lower Upper

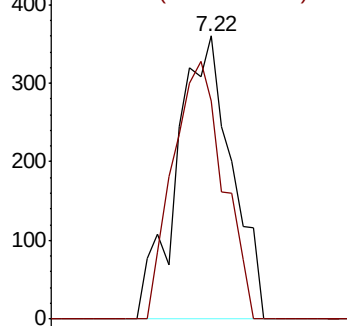
130 100

95 76.9 0.0 186.8

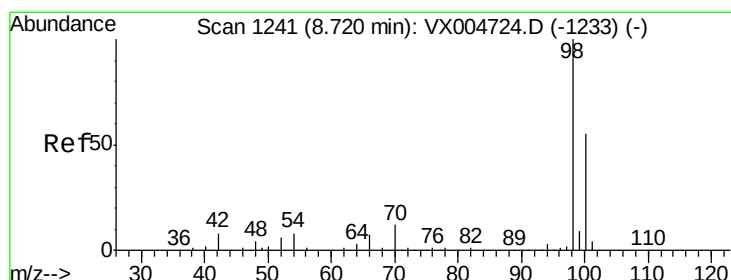
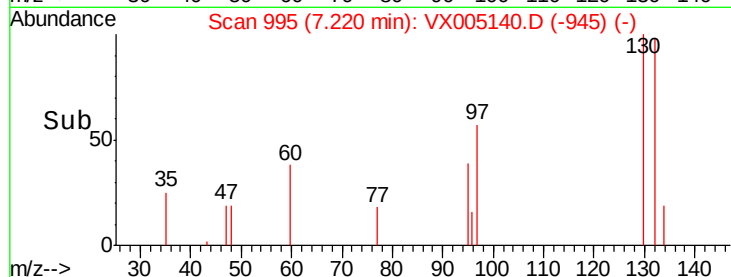


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



Time-->



#50

Toluene-d8

Concen: 50.427 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX005140.D

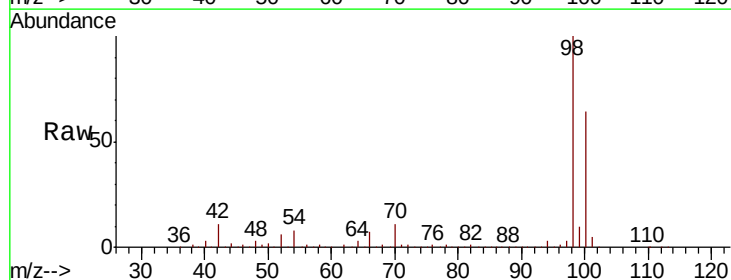
Acq: 08 Oct 2018 21:49

Tgt Ion: 98 Resp: 422832

Ion Ratio Lower Upper

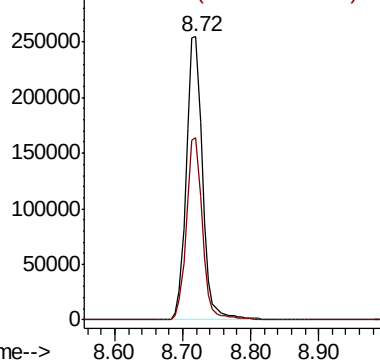
98 100

100 63.5 51.9 77.9

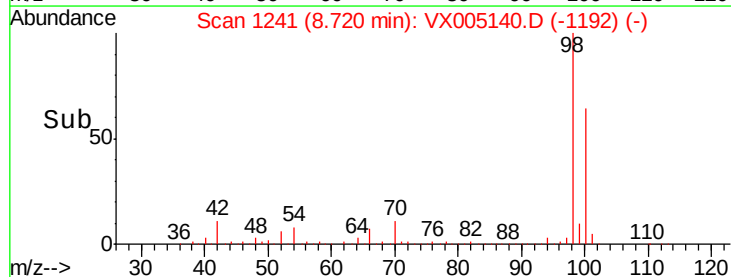


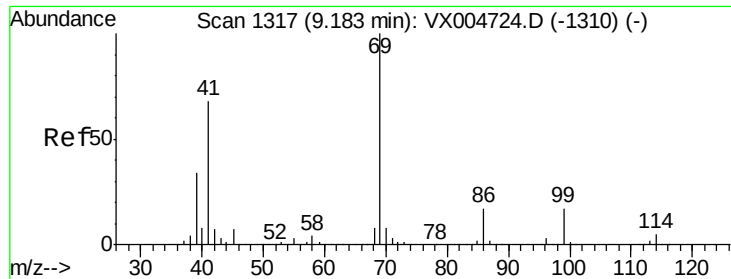
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#56

Ethyl methacrylate

Concen: 2.871 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampled :

VX1008WBL02

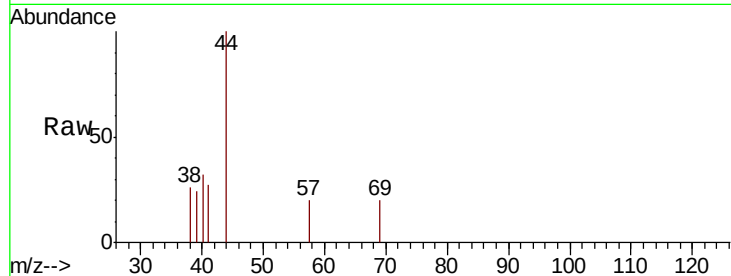
Tot Ion: 69 Resp: 40

Ion Ratio Lower Upper

69 100

41 425.0 56.9 85.3#

39 177.5 28.4 42.6#



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

200

150

100

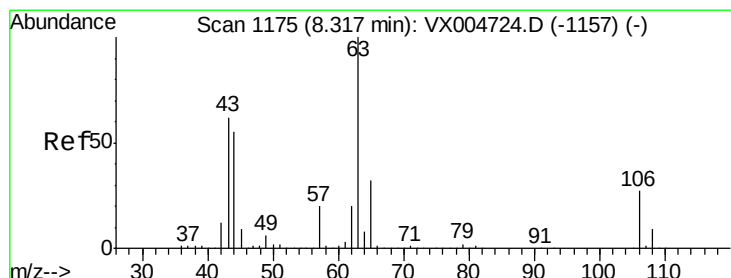
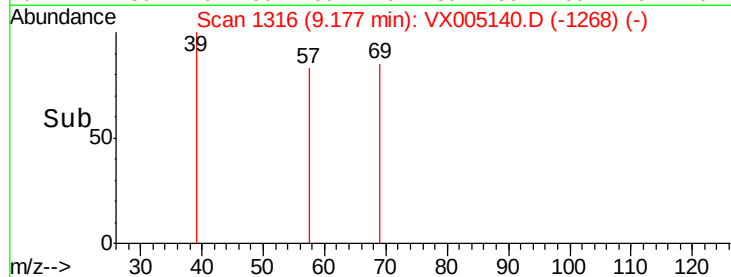
50

0

9.16 9.18 9.20

9.18

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 14.275 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VX005140.D

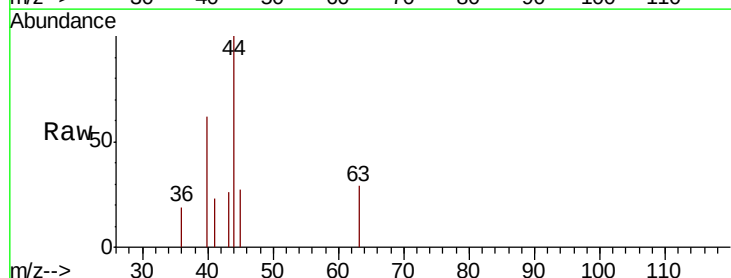
Acq: 08 Oct 2018 21:49

Tgt Ion: 63 Resp: 78

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

80

60

40

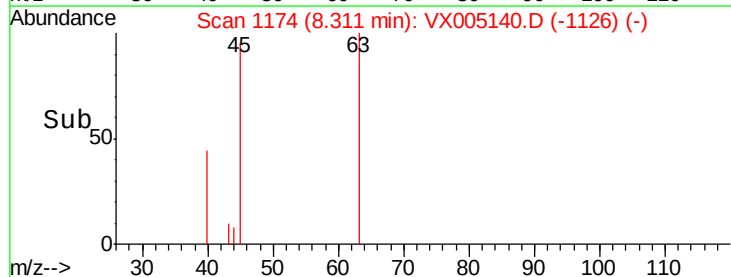
20

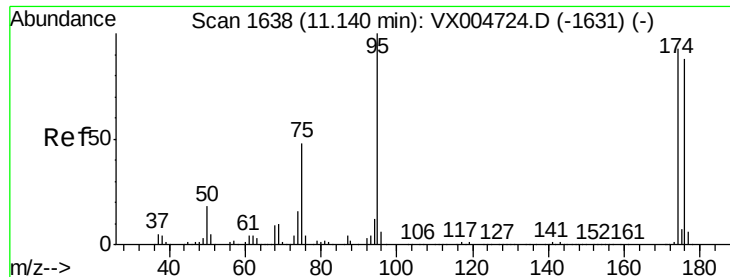
0

8.30 8.32 8.34

8.31

Time-->





#62

4-Bromofluorobenzene

Concen: 50.398 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

VX1008WBL02

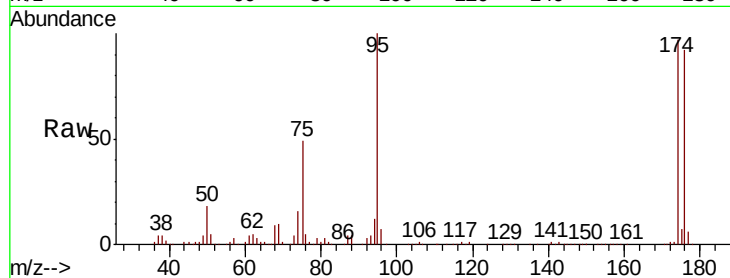
Tot Ion: 95 Resp: 152240

Ion Ratio Lower Upper

95 100

174 92.8 0.0 185.0

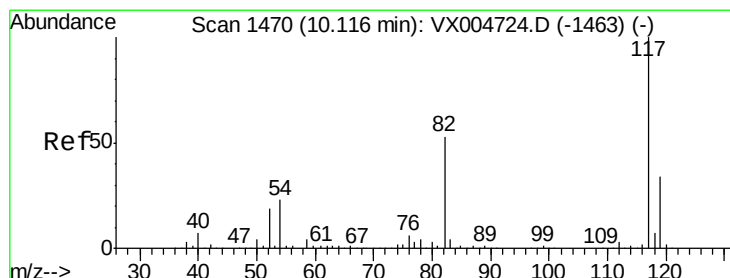
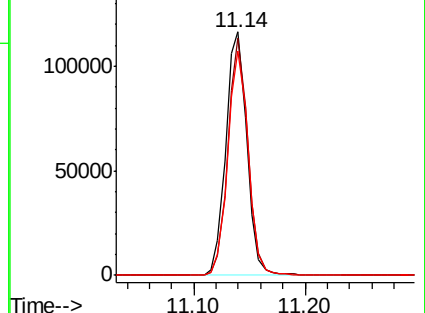
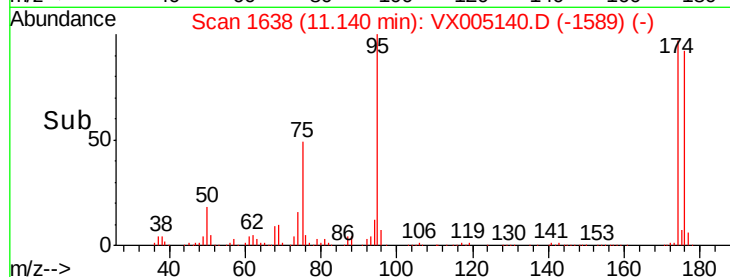
176 89.5 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VX005140.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005140.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005140.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

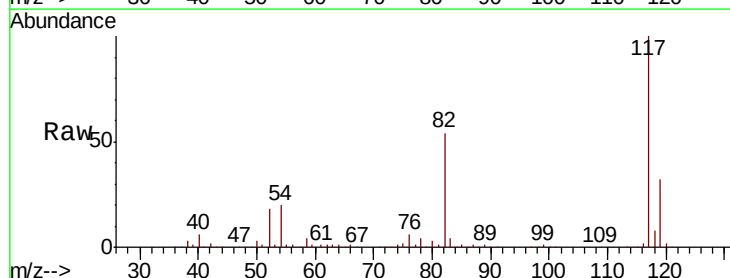
Tgt Ion: 117 Resp: 289115

Ion Ratio Lower Upper

117 100

82 54.4 42.2 63.4

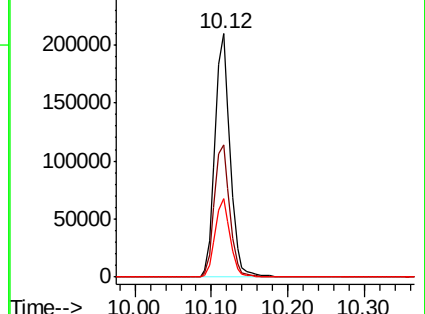
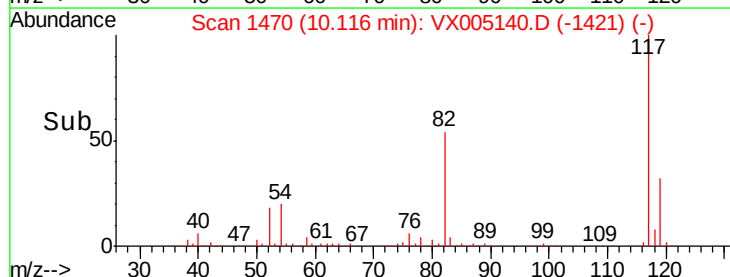
119 32.3 27.4 41.0

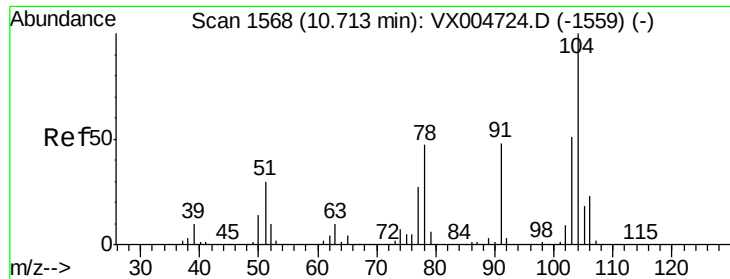


Abundance Ion 116.90 (116.60 to 117.60): VX005140.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005140.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005140.D (-1421) (-)





#70

Stvrene

Concen: 2.174 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

VX1008WBL02

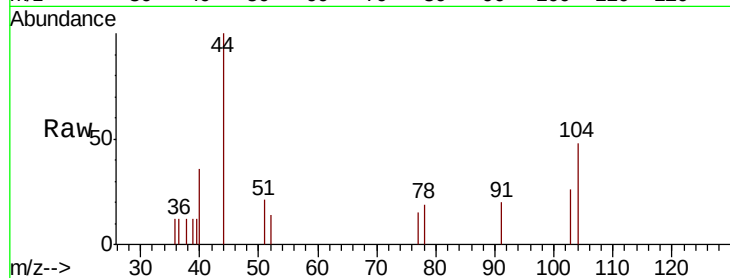
Tot Ion:104 Resp: 273

Ion Ratio Lower Upper

104 100

78 38.5 40.0 60.0#

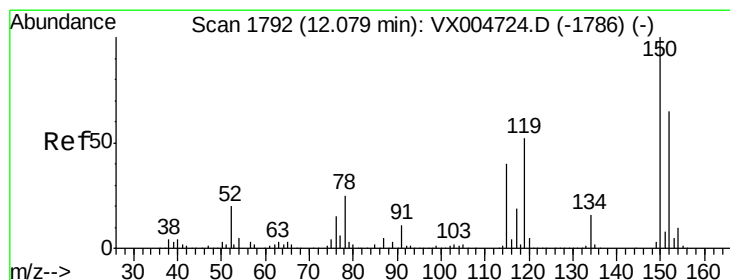
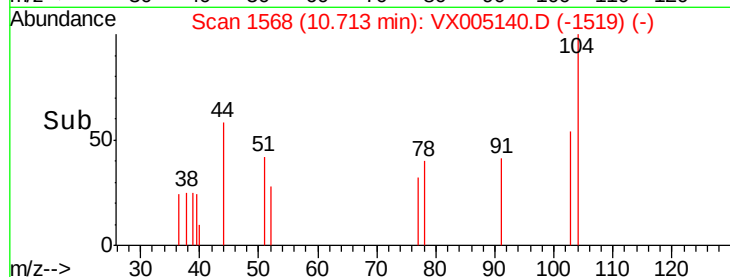
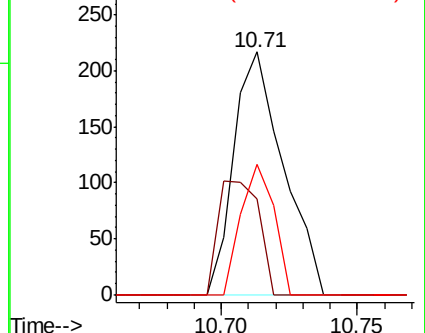
103 35.9 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): 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: VX005140.D

Acq: 08 Oct 2018 21:49

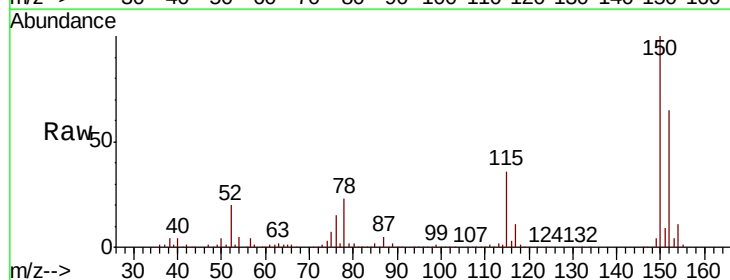
Tgt Ion:152 Resp: 160334

Ion Ratio Lower Upper

152 100

115 55.4 40.2 120.6

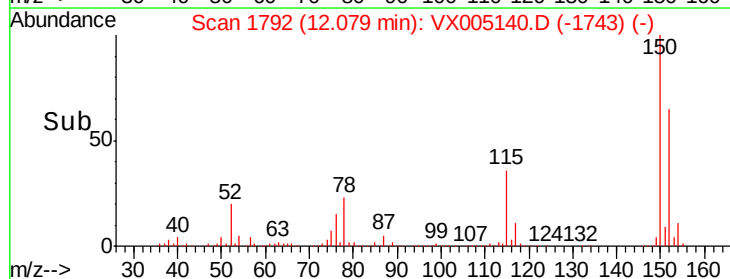
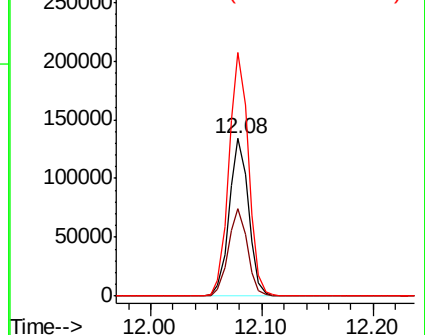
150 156.9 0.0 351.0

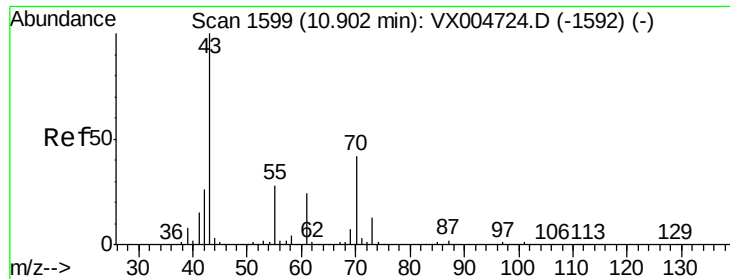


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.767 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

VX1008WBL02

Tot Ion: 43 Resp: 109

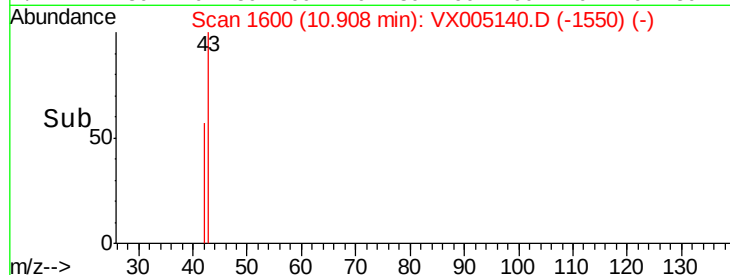
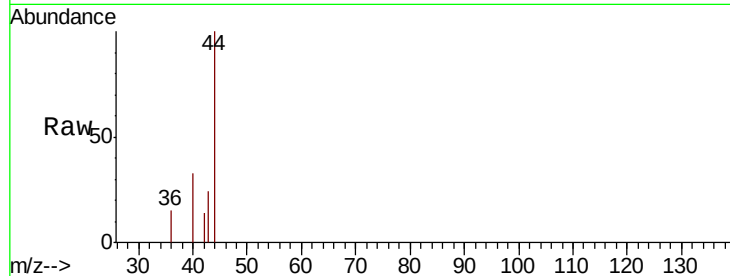
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

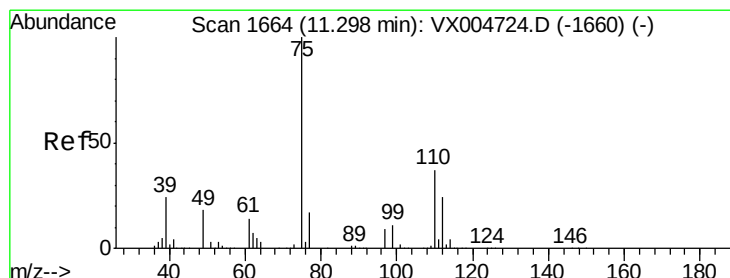
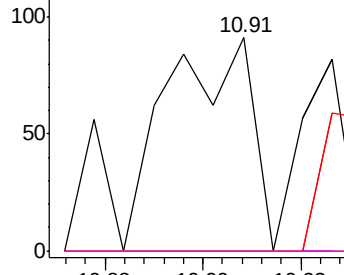


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.666 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005140.D

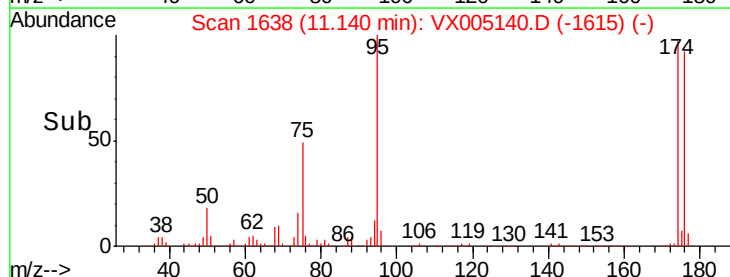
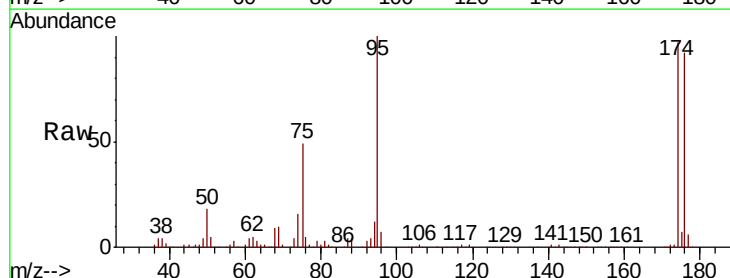
Acq: 08 Oct 2018 21:49

Tgt Ion: 75 Resp: 74266

Ion Ratio Lower Upper

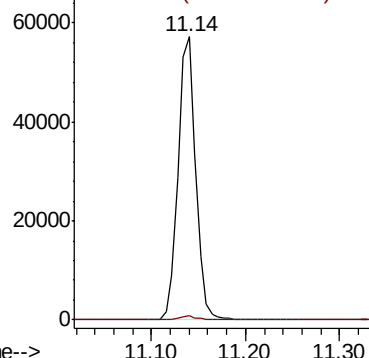
75 100

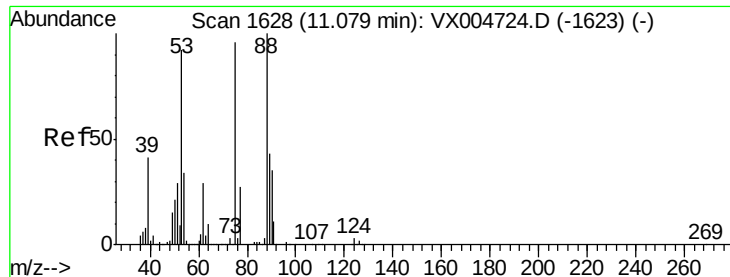
77 1.4 21.4 64.3#



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: 56.111 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

Instrument :

MSVOA_X

ClientSampleId :

VX1008WBL02

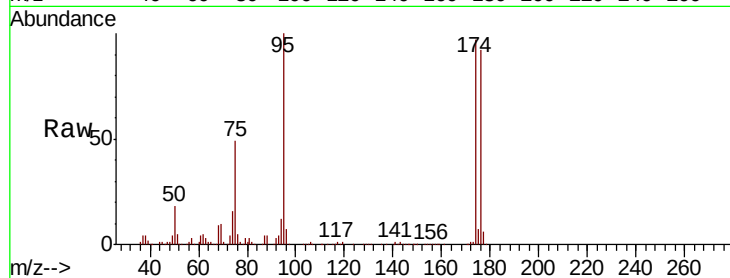
Tot Ion: 75 Resp: 74266

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

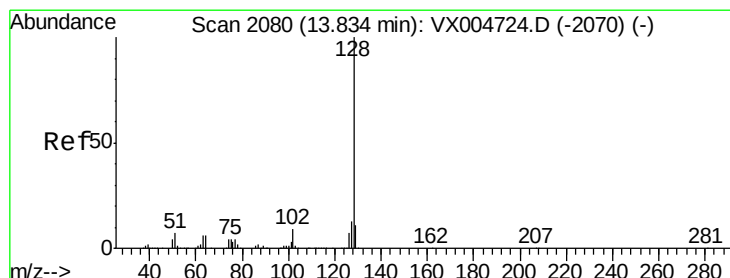
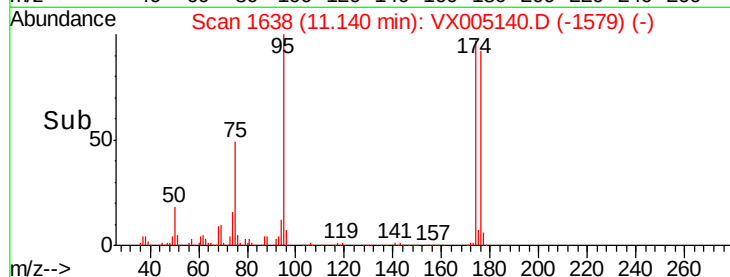
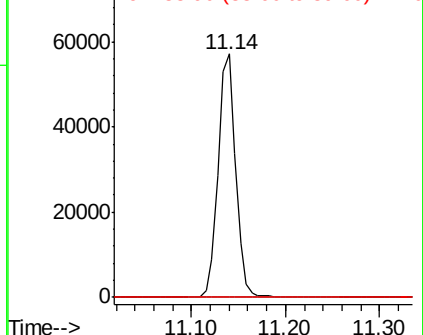
89 0.0 37.1 55.7#



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



#95

Naphthalene

Concen: 0.787 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005140.D

Acq: 08 Oct 2018 21:49

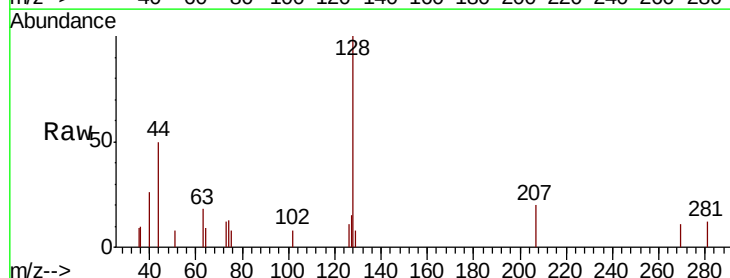
Tgt Ion: 128 Resp: 907

Ion Ratio Lower Upper

128 100

127 16.6 10.4 15.6#

129 12.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

