

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052419\
 Data File : VX009876.D
 Acq On : 24 May 2019 10:25
 Operator : JC/SP
 Sample : VX0524WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0524WBL01

Quant Time: May 25 00:11:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	160269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	256880	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	226324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95186	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	118612	54.21	ug/l	0.00
Spiked Amount			Recovery	=	108.42%	
35) Dibromofluoromethane	5.49	113	85662	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
50) Toluene-d8	8.71	98	349684	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	
62) 4-Bromofluorobenzene	11.13	95	114690	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.52	142	251	4.725	ug/l #	65
11) Tert butyl alcohol	3.02	59	1076	2.125	ug/l #	93
13) Acrolein	2.29	56	436	0.951	ug/l #	34
15) Acrylonitrile	3.14	53	312	0.252	ug/l #	59
16) Acetone	2.44	43	969	0.825	ug/l #	67
17) Carbon Disulfide	2.57	76	996	0.236	ug/l	100
25) 2-Butanone	4.68	43	589	0.323	ug/l	95
28) Bromochloromethane	5.00	49	89	Below Cal	#	20
29) Tetrahydrofuran	5.16	42	611	0.520	ug/l #	41
31) Cyclohexane	5.65	56	3926	1.214	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13251	5.551	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15191	7.004	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	60303	27.311	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	60303	69.880	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

Instrument :

MSVOA_X

ClientSampleId :

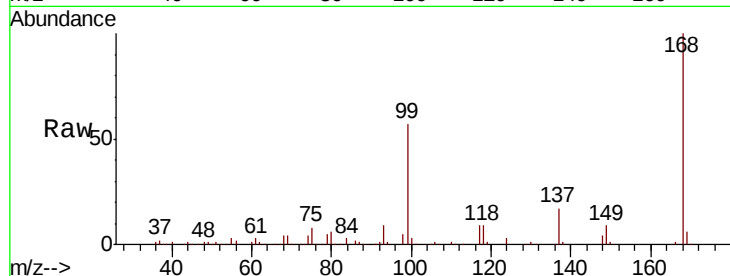
VX0524WBL01

Tot Ion:168 Resp: 160269

Ion Ratio Lower Upper

168 100

99 56.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

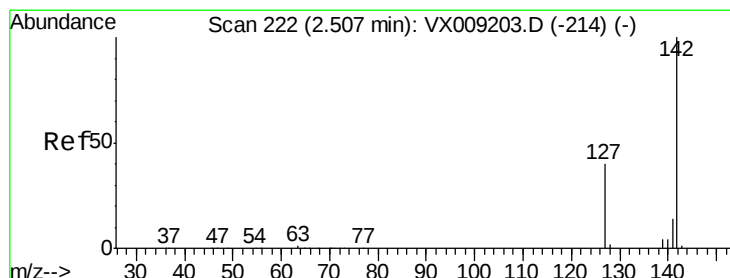
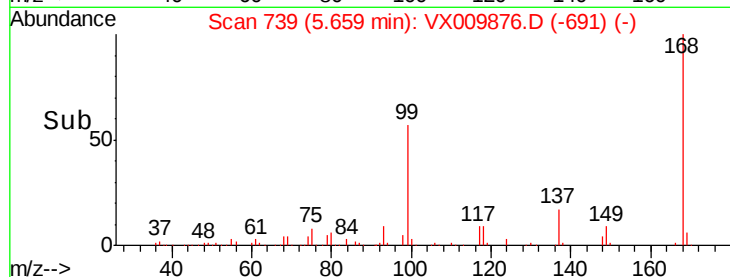
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 4.725 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

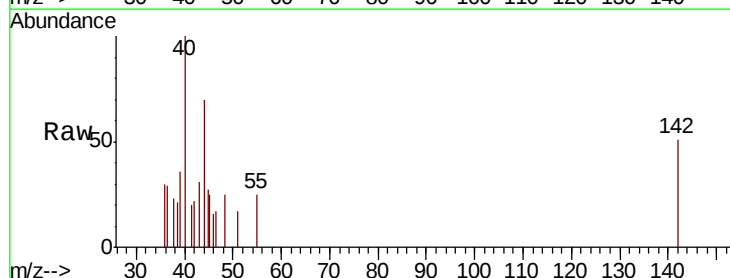
Tgt Ion:142 Resp: 251

Ion Ratio Lower Upper

142 100

127 18.7 32.7 49.1#

141 0.0 11.5 17.3#



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

200

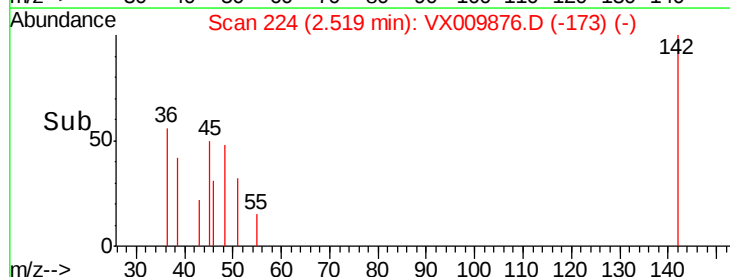
150

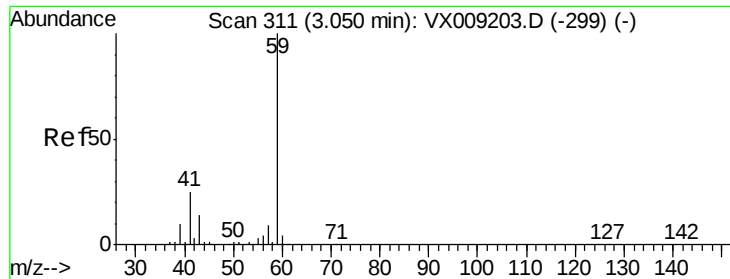
100

50

0

Time--> 2.50 2.55

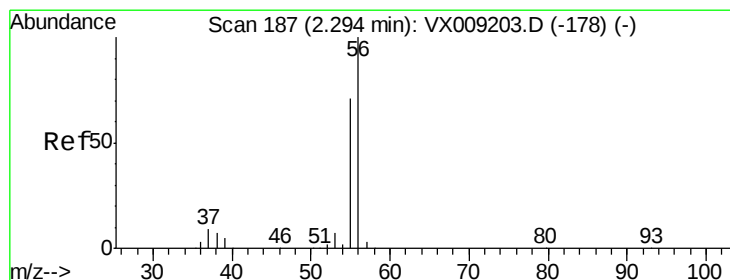
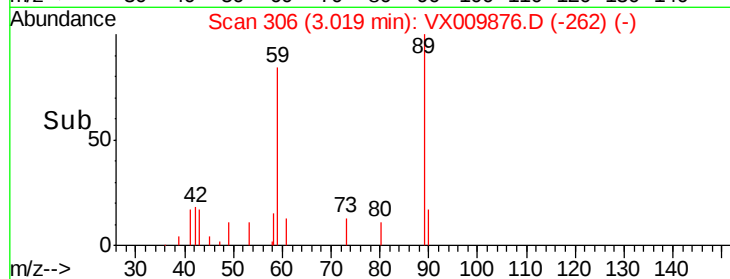
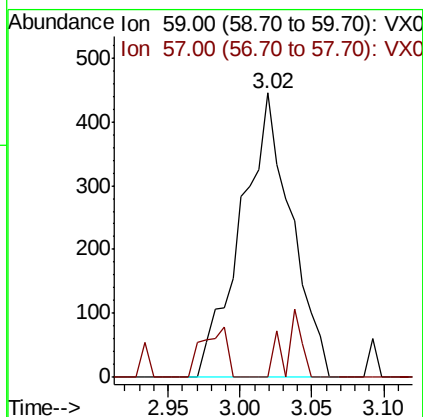
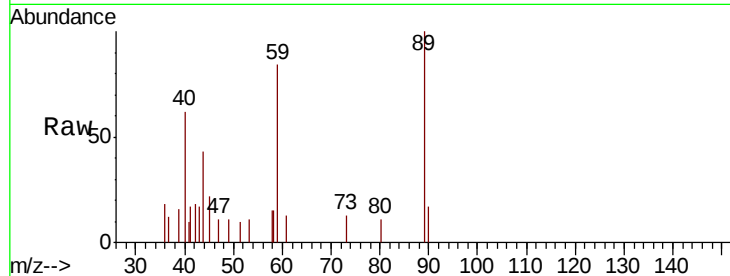




#11
Tert butyl alcohol
Concen: 2.125 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009876.D
Acq: 24 May 2019 10:25

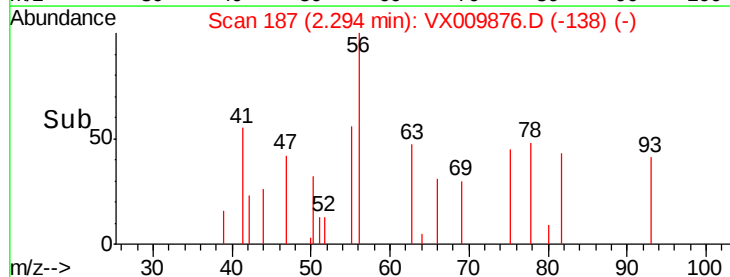
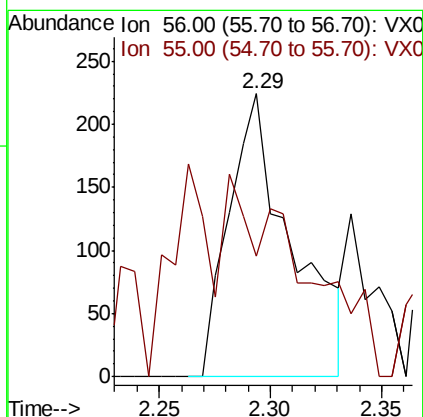
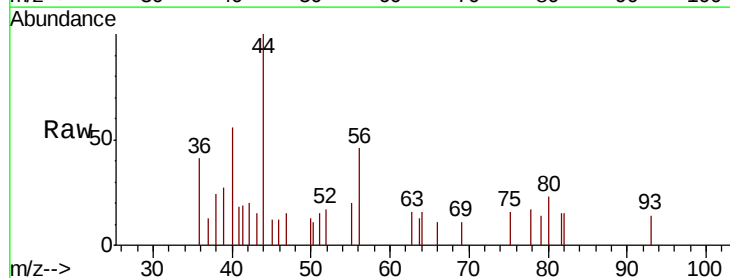
Instrument :
MSVOA_X
ClientSampleId :
VX0524WBL01

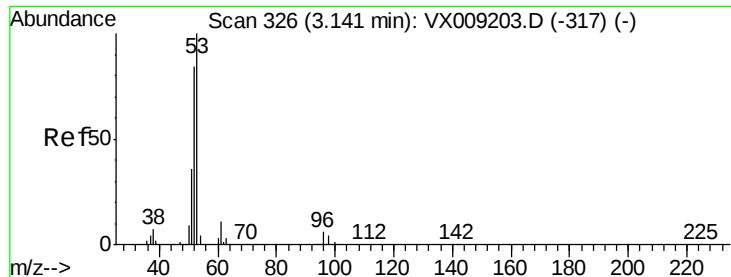
Tot Ion: 59 Resp: 1076
Ion Ratio Lower Upper
59 100
57 7.7 8.2 12.2#



#13
Acrolein
Concen: 0.951 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009876.D
Acq: 24 May 2019 10:25

Tgt Ion: 56 Resp: 436
Ion Ratio Lower Upper
56 100
55 16.3 56.6 85.0#





#15

Acrylonitrile

Concen: 0.252 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

Instrument :

MSVOA_X

ClientSampled :

VX0524WBL01

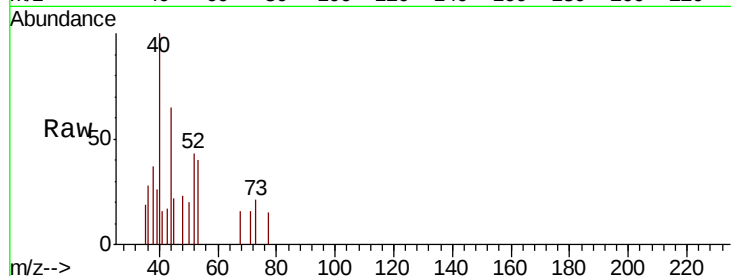
Tot Ion: 53 Resp: 312

Ion Ratio Lower Upper

53 100

52 130.8 66.9 100.3#

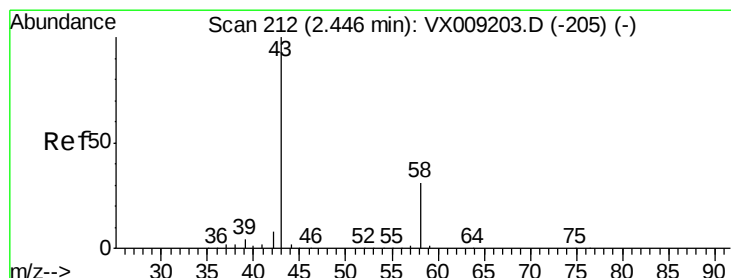
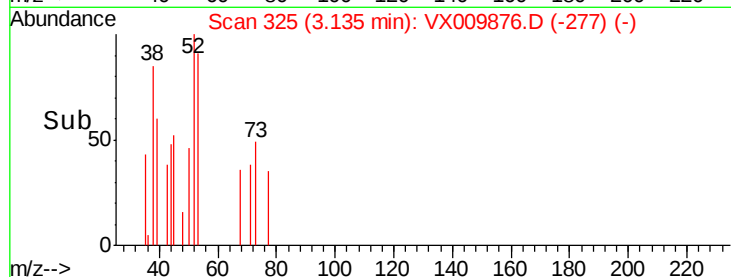
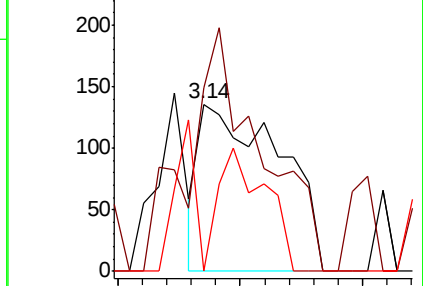
51 43.3 28.2 42.2#



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: 0.825 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009876.D

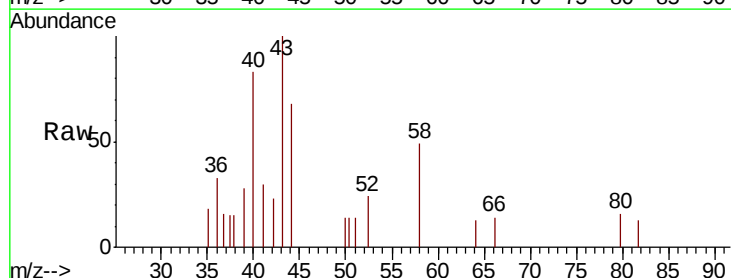
Acq: 24 May 2019 10:25

Tgt Ion: 43 Resp: 969

Ion Ratio Lower Upper

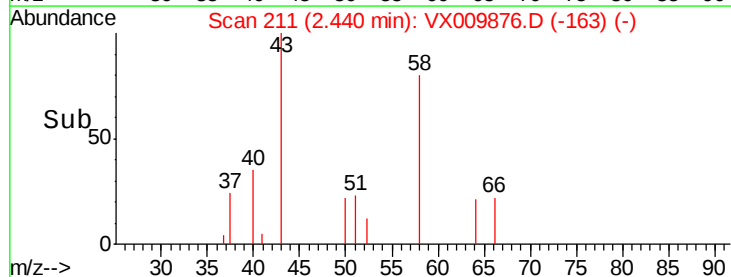
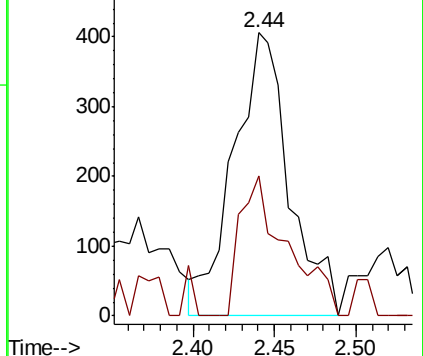
43 100

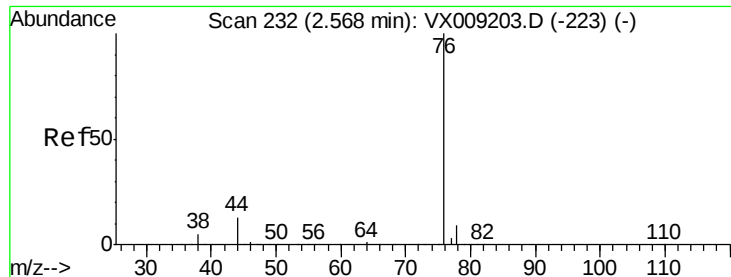
58 49.3 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.236 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

Instrument :

MSVOA_X

ClientSampleId :

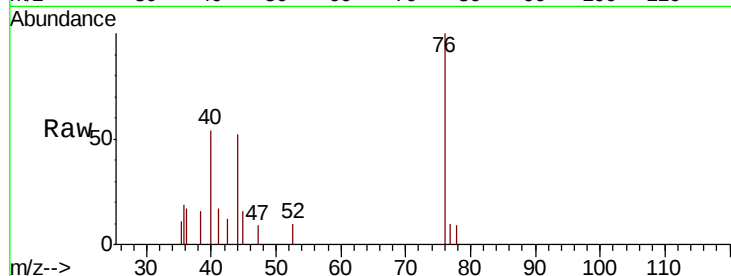
VX0524WBL01

Tot Ion: 76 Resp: 996

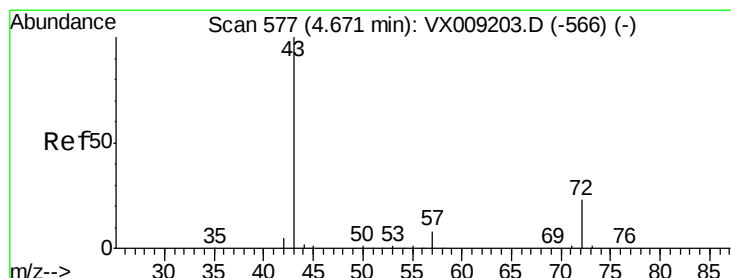
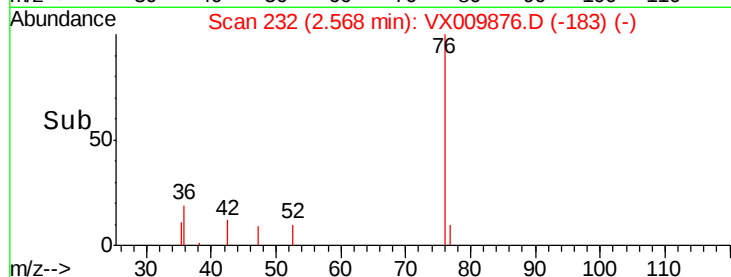
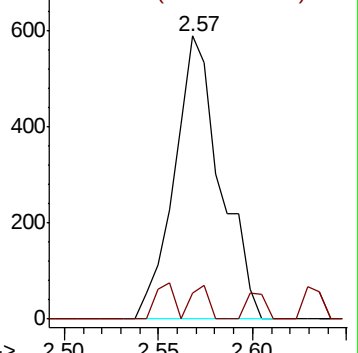
Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0



#25

2-Butanone

Concen: 0.323 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009876.D

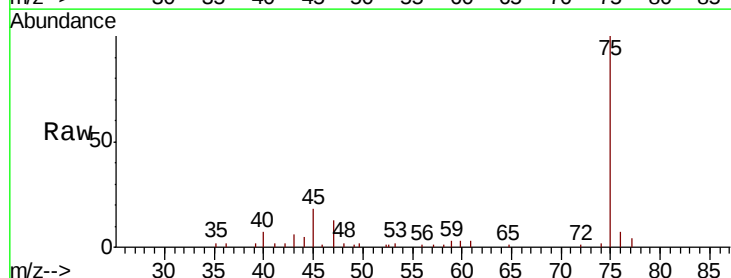
Acq: 24 May 2019 10:25

Tgt Ion: 43 Resp: 589

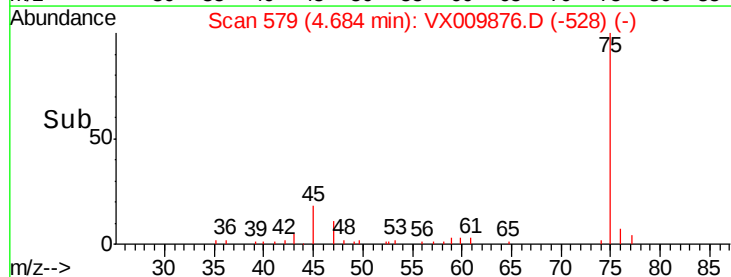
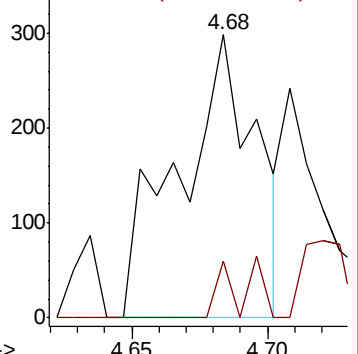
Ion Ratio Lower Upper

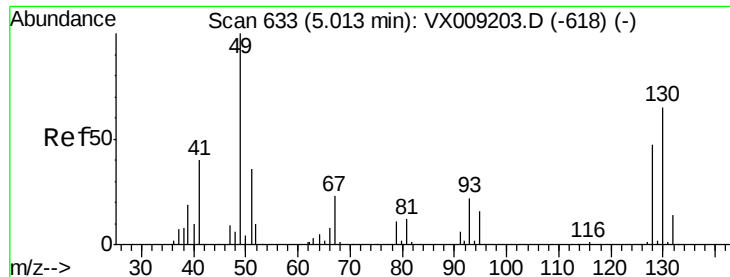
43 100

72 20.1 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.01 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

Instrument :

MSVOA_X

ClientSampleId :

VX0524WBL01

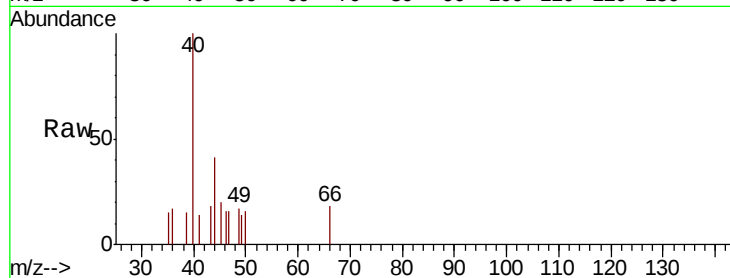
Tot Ion: 49 Resp: 89

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

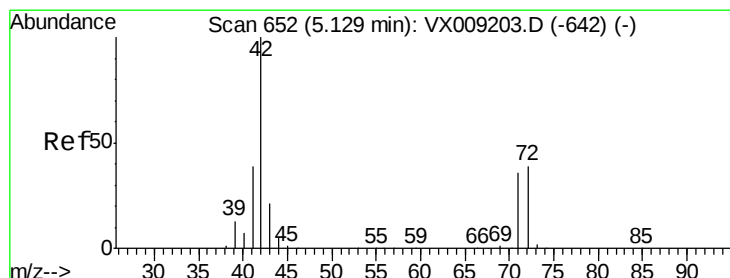
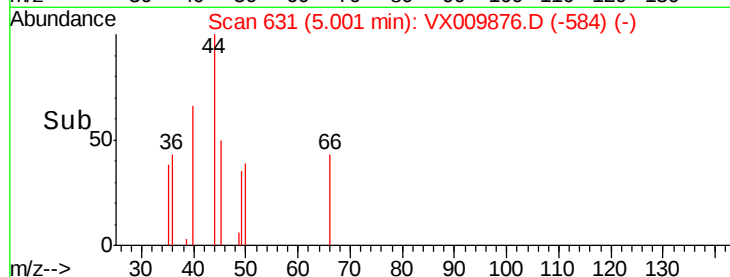
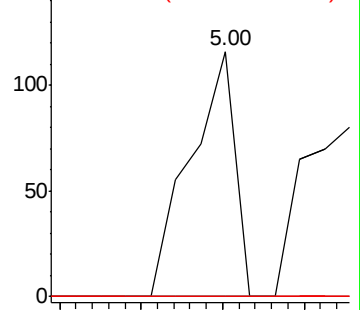
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.520 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

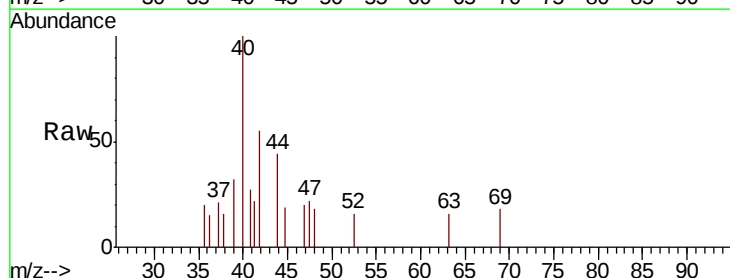
Tgt Ion: 42 Resp: 611

Ion Ratio Lower Upper

42 100

72 3.6 30.4 45.6#

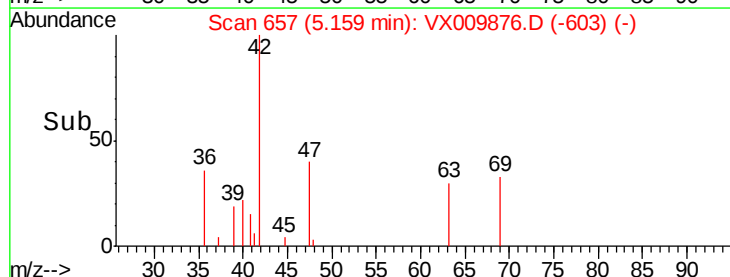
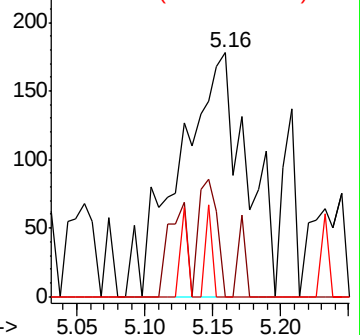
71 0.0 28.6 43.0#

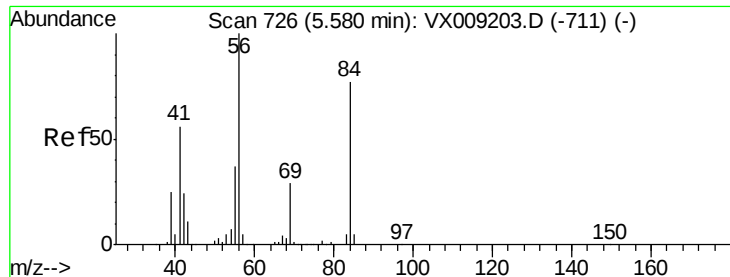


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

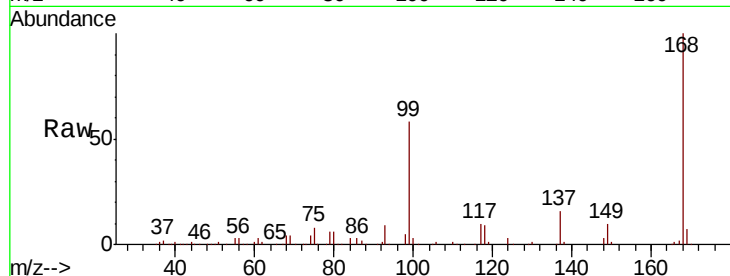




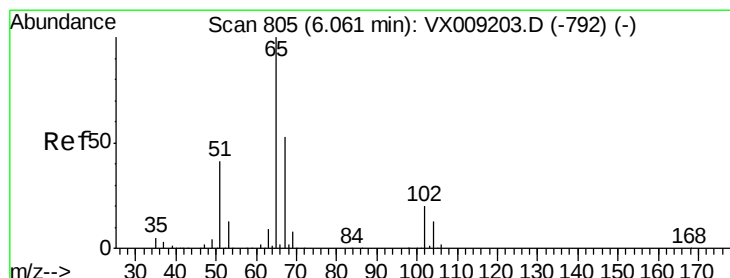
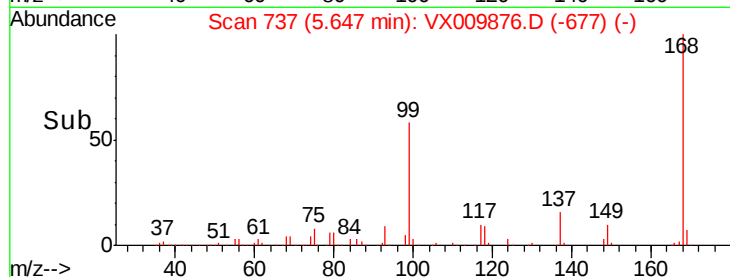
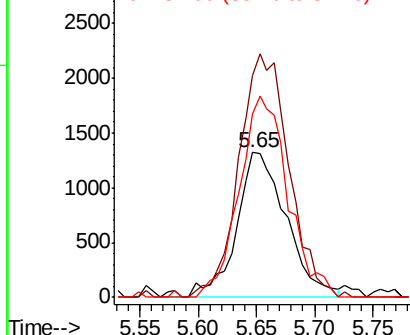
#31
Cyclohexane
Concen: 1.214 ug/l
RT: 5.65 min Scan# 737
Delta R.T. 0.07 min
Lab File: VX009876.D
Acq: 24 May 2019 10:25

Instrument :
MSVOA_X
ClientSampleId :
VX0524WBL01

Tot Ion: 56 Resp: 3926
Ion Ratio Lower Upper
56 100
69 153.1 23.4 35.0#
84 126.7 61.9 92.9#

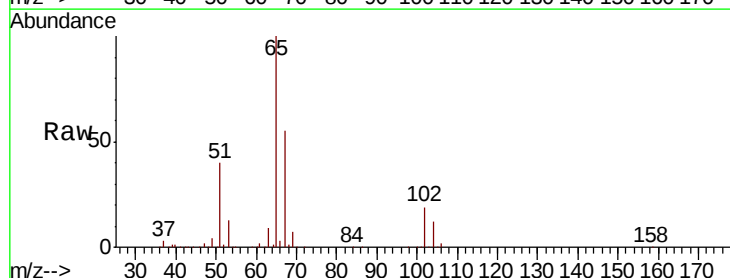


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

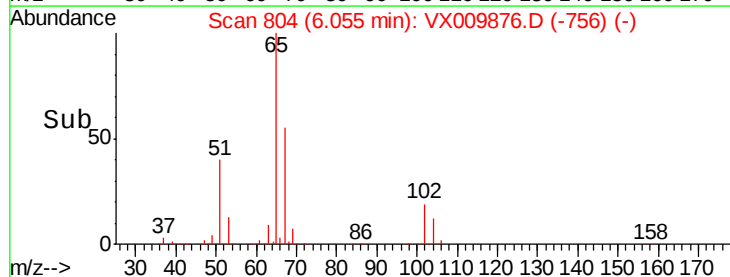
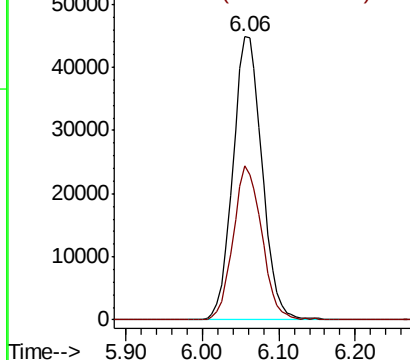


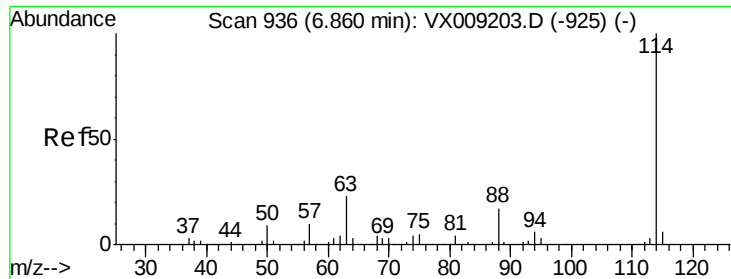
#33
1,2-Dichloroethane-d4
Concen: 54.214 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.01 min
Lab File: VX009876.D
Acq: 24 May 2019 10:25

Tgt Ion: 65 Resp: 118612
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

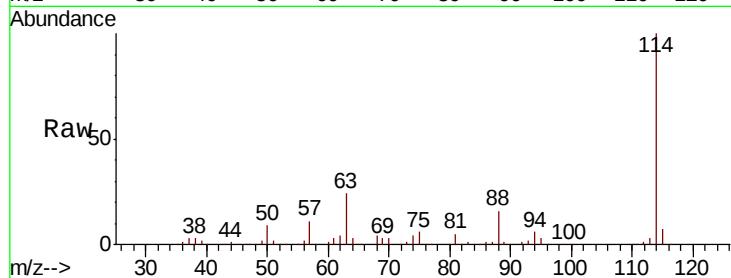




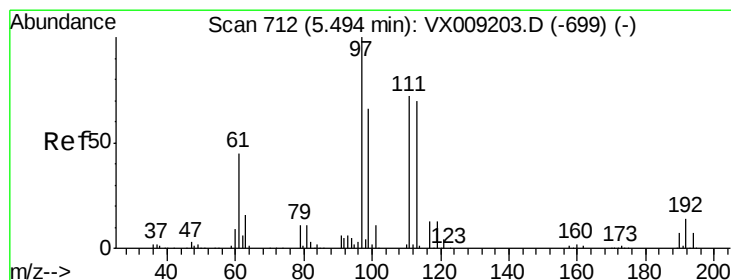
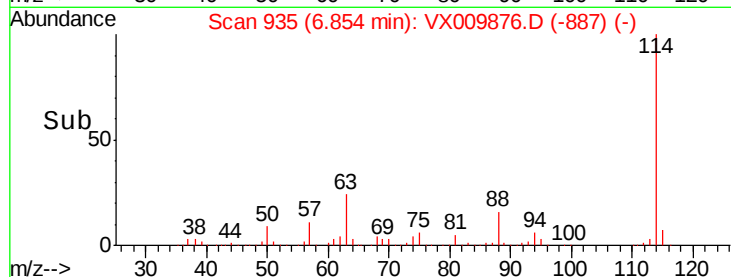
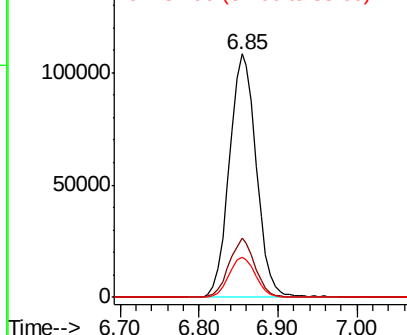
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX009876.D
 Acq: 24 May 2019 10:25

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0524WBL01

Tot Ion:114 Resp: 256880
 Ion Ratio Lower Upper
 114 100
 63 24.2 0.0 45.6
 88 16.4 0.0 33.2

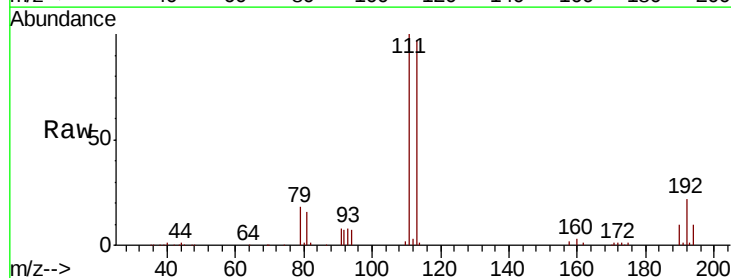


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

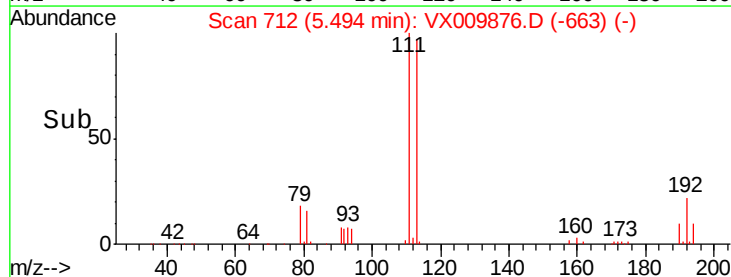
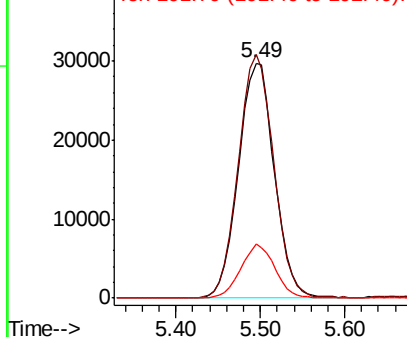


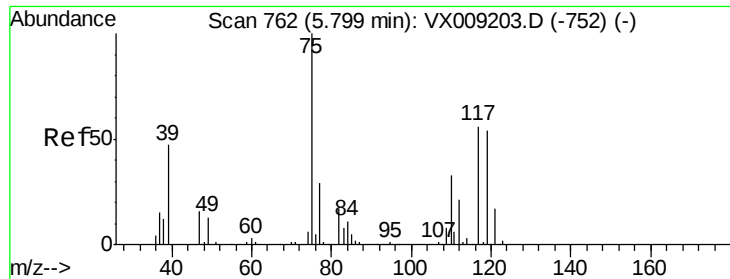
#35
 Dibromofluoromethane
 Concen: 53.046 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX009876.D
 Acq: 24 May 2019 10:25

Tgt Ion:113 Resp: 85662
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.8 124.2
 192 21.6 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

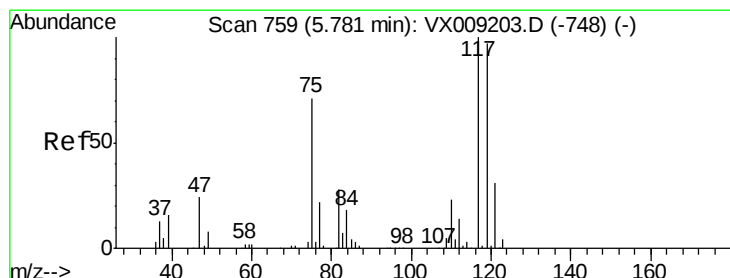
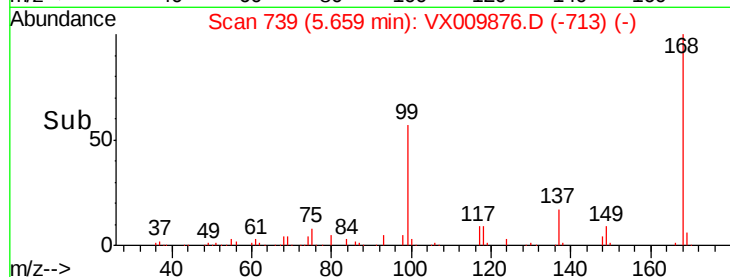
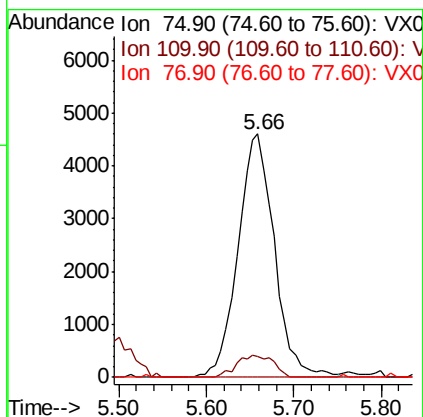
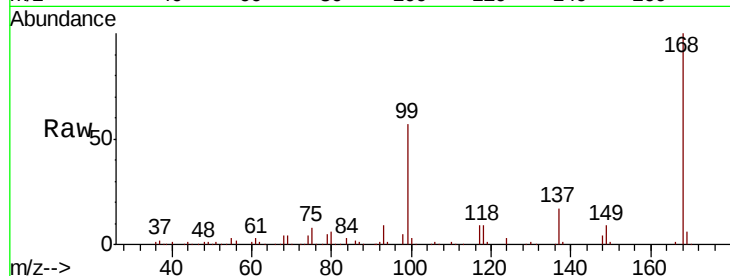




#36
 1,1-Dichloropropene
 Concen: 5.551 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009876.D
 Acq: 24 May 2019 10:25

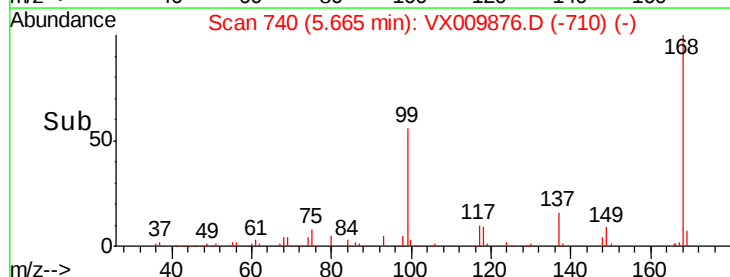
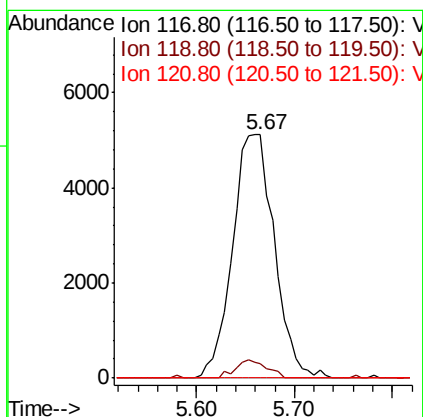
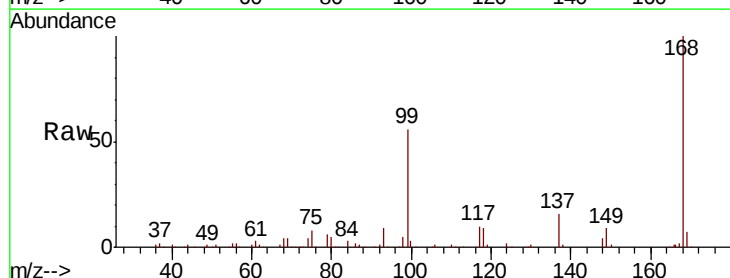
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0524WBL01

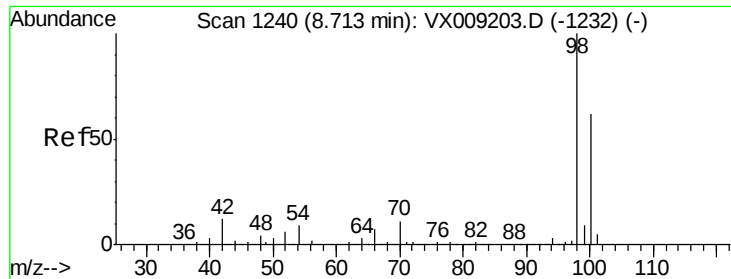
Tot Ion: 75 Resp: 13251
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.9 50.6#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.004 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009876.D
 Acq: 24 May 2019 10:25

Tgt Ion:117 Resp: 15191
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.5 116.3#
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 53.636 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

Instrument :

MSVOA_X

ClientSampled :

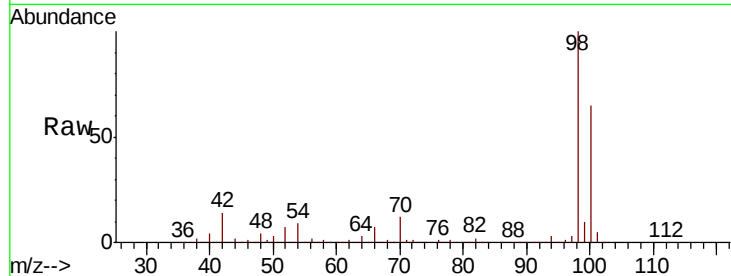
VX0524WBL01

Tot Ion: 98 Resp: 349684

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

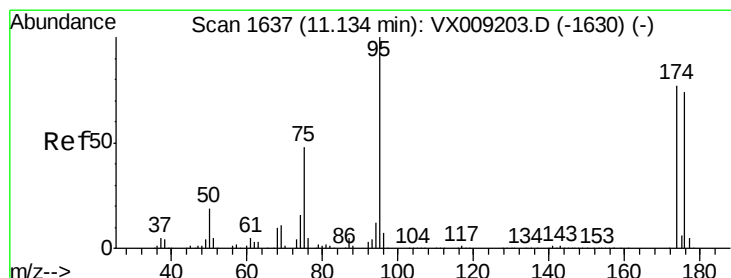
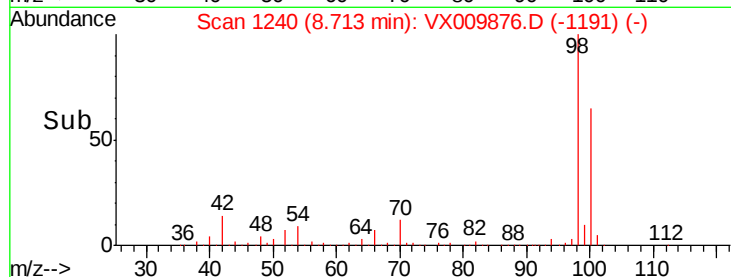
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.414 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

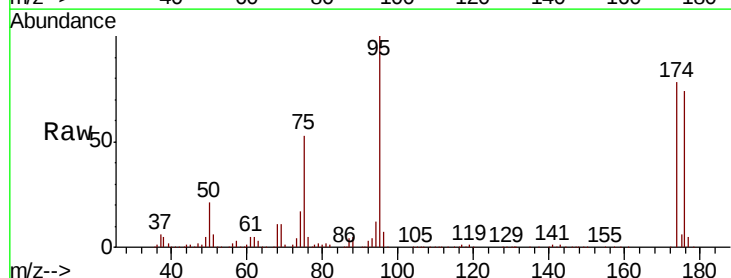
Tgt Ion: 95 Resp: 114690

Ion Ratio Lower Upper

95 100

174 80.9 0.0 161.6

176 77.6 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

120000

100000

80000

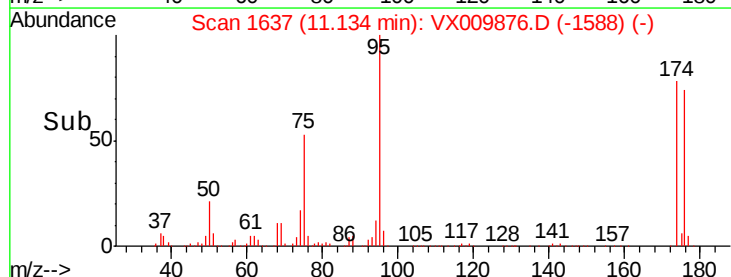
60000

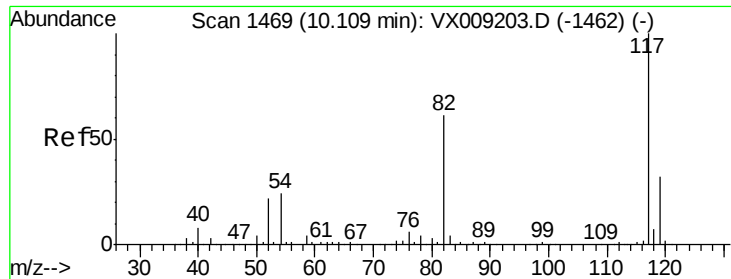
40000

20000

0

Time-->

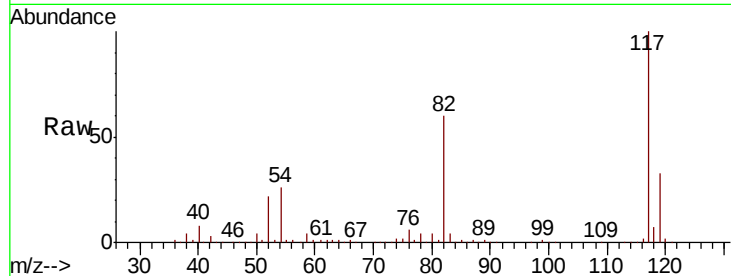




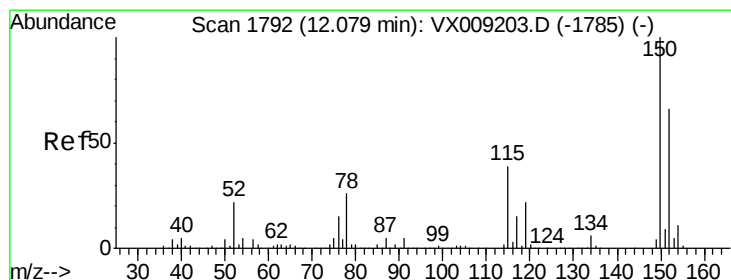
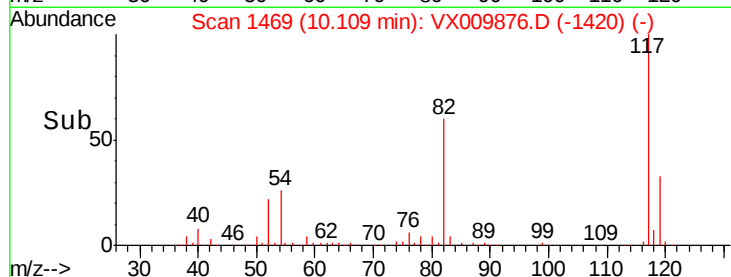
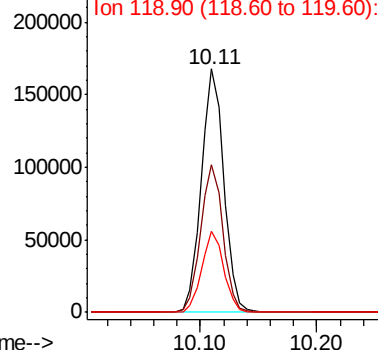
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009876.D
Acq: 24 May 2019 10:25

Instrument :
MSVOA_X
ClientSampleId :
VX0524WBL01

Tot Ion:117 Resp: 226324
Ion Ratio Lower Upper
117 100
82 60.5 48.8 73.2
119 33.1 25.8 38.6

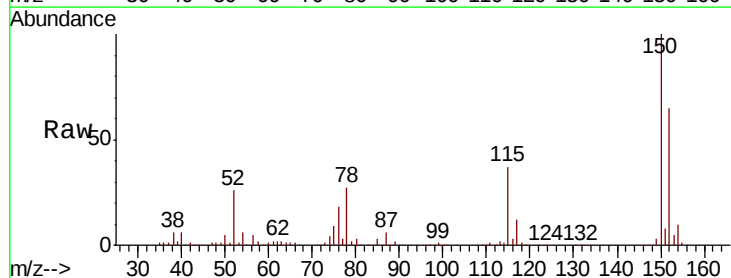


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

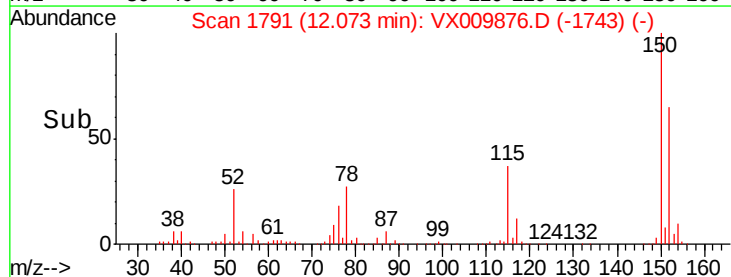
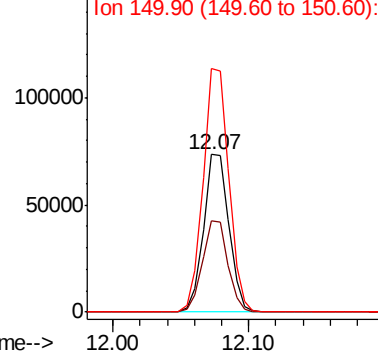


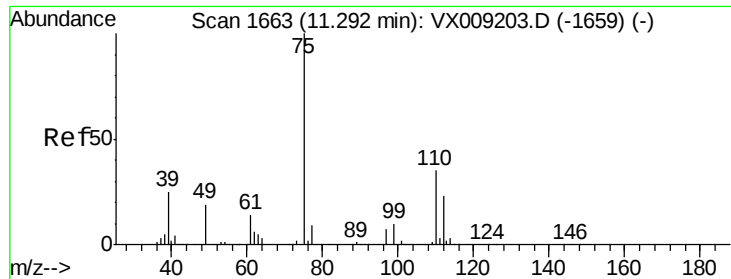
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX009876.D
Acq: 24 May 2019 10:25

Tgt Ion:152 Resp: 95186
Ion Ratio Lower Upper
152 100
115 58.0 41.2 123.6
150 156.1 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





#76

1,2,3-Trichloropropane

Concen: 27.311 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

Instrument :

MSVOA_X

ClientSampled :

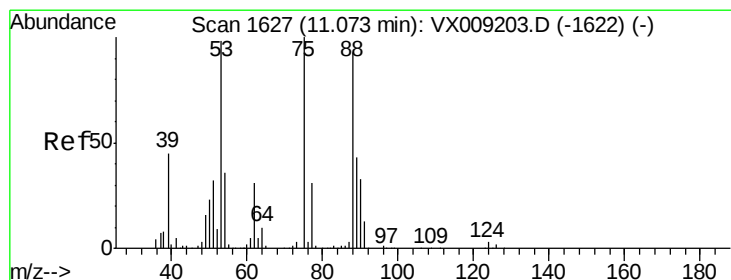
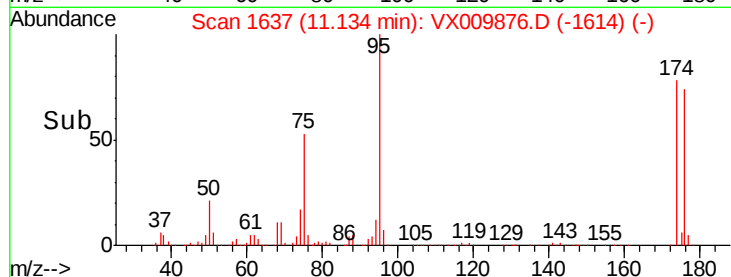
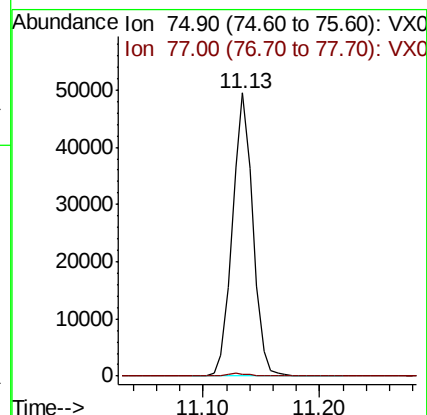
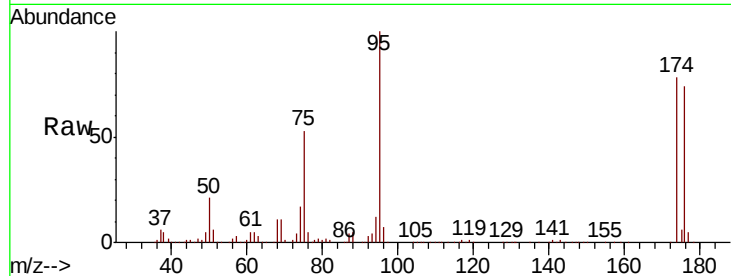
VX0524WBL01

Tot Ion: 75 Resp: 60303

Ion Ratio Lower Upper

75 100

77 1.1 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.880 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009876.D

Acq: 24 May 2019 10:25

Tgt Ion: 75 Resp: 60303

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.1 34.7 52.1#

