

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004303.D
 Acq On : 29 Aug 2018 20:44
 Operator : JC/MD
 Sample : VX0829WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0829WBL02

Quant Time: Aug 30 02:11:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	259006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	407123	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	384265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	207215	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	186250	55.17	ug/l	0.00
Spiked Amount			Recovery	=	110.34%	
35) Dibromofluoromethane	5.50	113	164313	54.25	ug/l	0.00
Spiked Amount			Recovery	=	108.50%	
50) Toluene-d8	8.71	98	585863	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.14	95	198184	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	

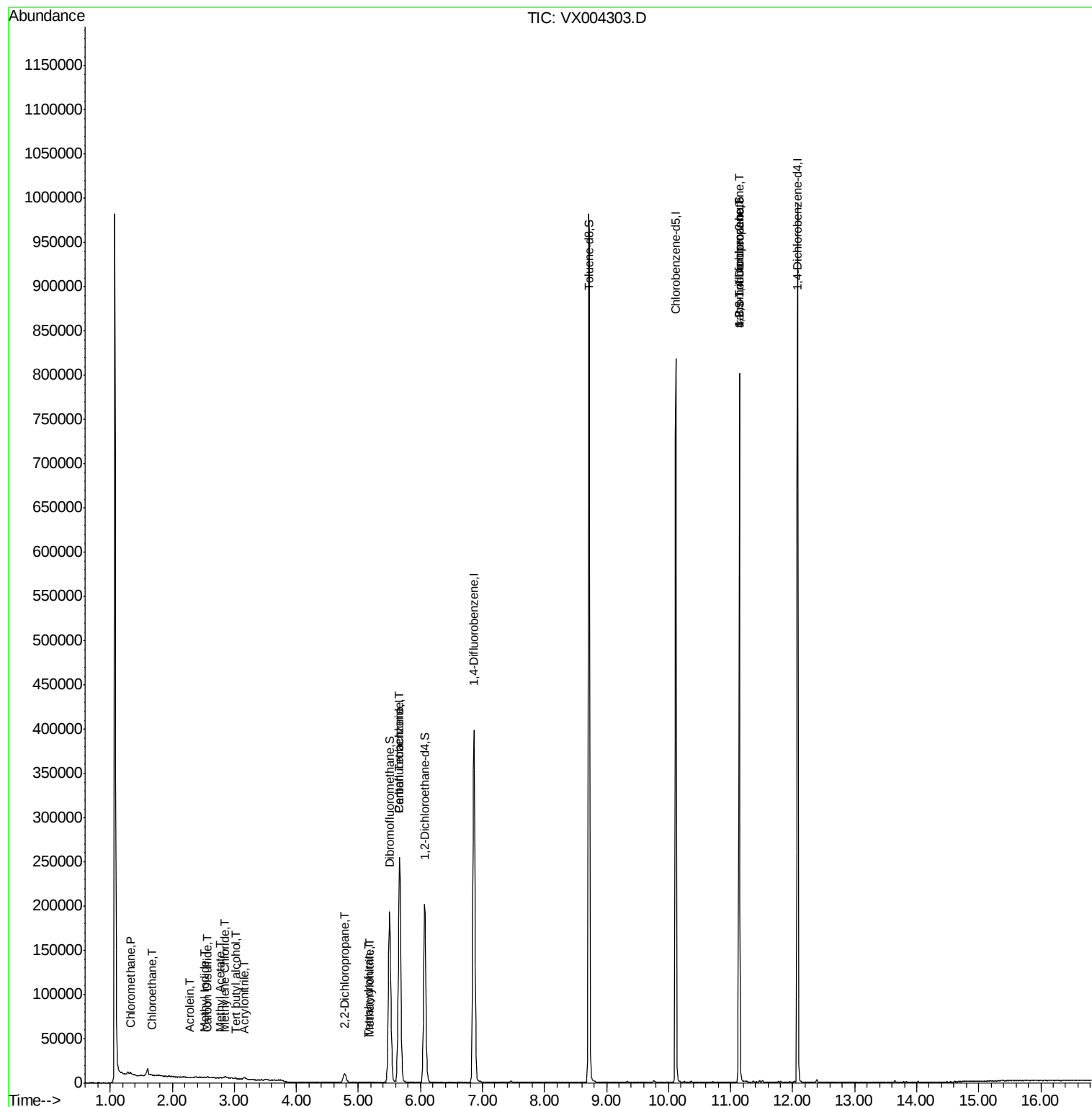
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	987	0.59	ug/l	97
5) Bromomethane	1.64	94	1538	Below Cal		91
6) Chloroethane	1.67	64	655	1.21	ug/l #	55
10) Methyl Iodide	2.52	142	1322	4.63	ug/l #	93
11) Tert butyl alcohol	3.02	59	918	1.28	ug/l #	92
13) Acrolein	2.29	56	191	1.10	ug/l	95
15) Acrylonitrile	3.15	53	454	0.25	ug/l #	9
16) Acetone	2.45	43	753	Below Cal		94
17) Carbon Disulfide	2.57	76	1805	1.03	ug/l #	91
18) Methyl Acetate	2.78	43	1010	0.20	ug/l #	89
20) Methylene Chloride	2.85	84	882	0.27	ug/l	87
25) 2-Butanone	4.70	43	132	Below Cal	#	47
26) 2,2-Dichloropropane	4.78	77	1114	0.26	ug/l #	52
29) Tetrahydrofuran	5.17	42	695	0.48	ug/l #	55
38) Carbon Tetrachloride	5.67	117	22464	5.22	ug/l #	15
41) Methacrylonitrile	5.18	41	534	0.20	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	94099	22.33	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	94099	72.45	ug/l #	10
94) Hexachlorobutadiene	13.79	225	278	Below Cal		96

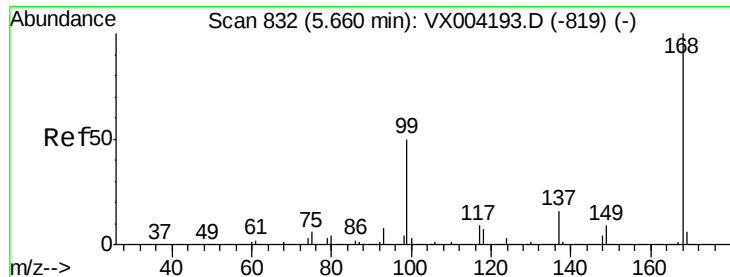
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 30 00:44:18 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

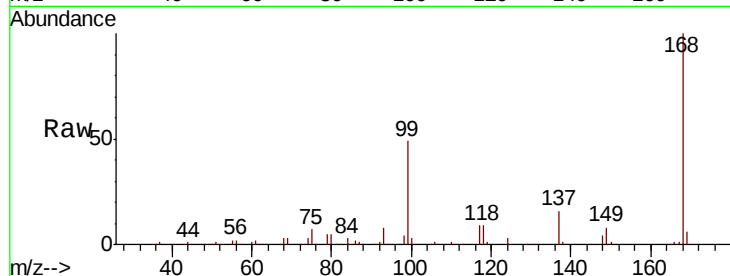
VX0829WBL02

Tot Ion:168 Resp: 259006

Ion Ratio Lower Upper

168 100

99 48.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

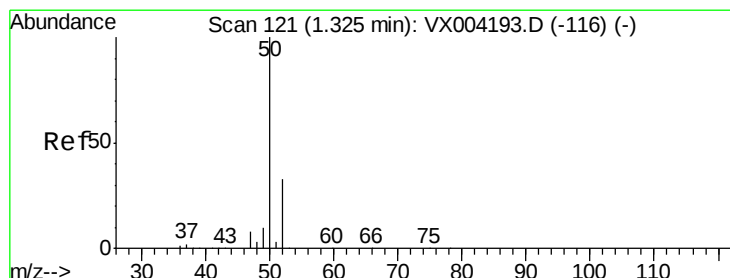
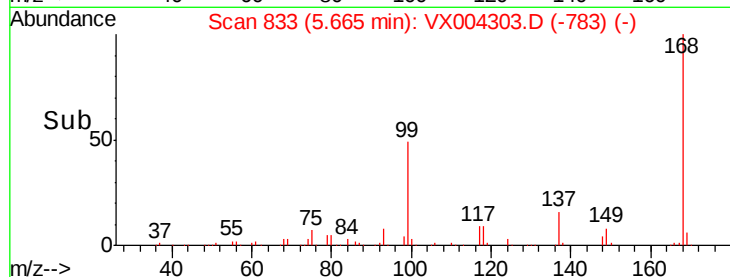
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.59 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004303.D

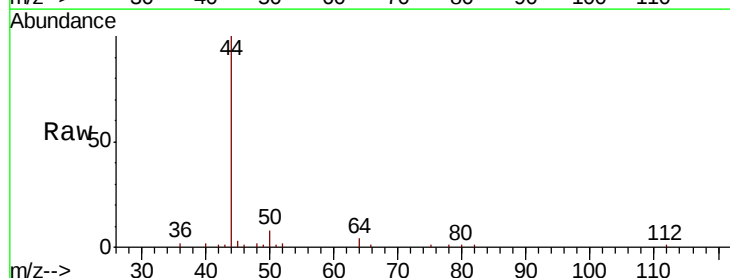
Acq: 29 Aug 2018 20:44

Tgt Ion: 50 Resp: 987

Ion Ratio Lower Upper

50 100

52 31.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

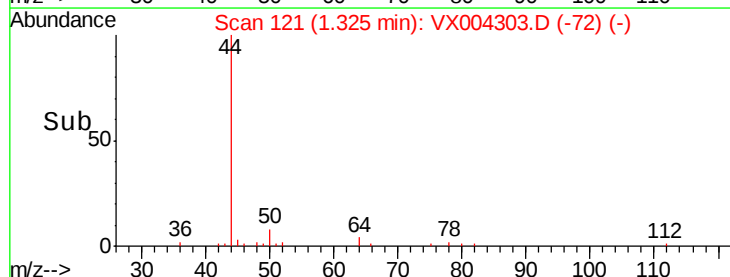
400

200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

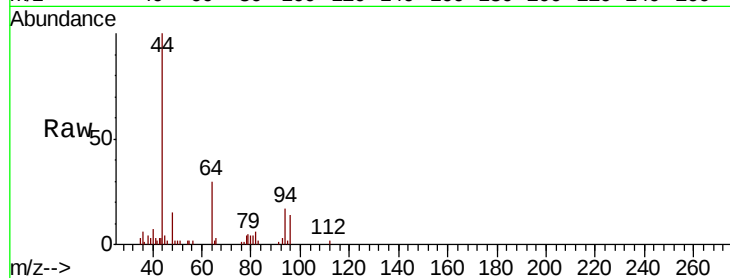
VX0829WBL02

Tot Ion: 94 Resp: 1538

Ion Ratio Lower Upper

94 100

96 84.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

400

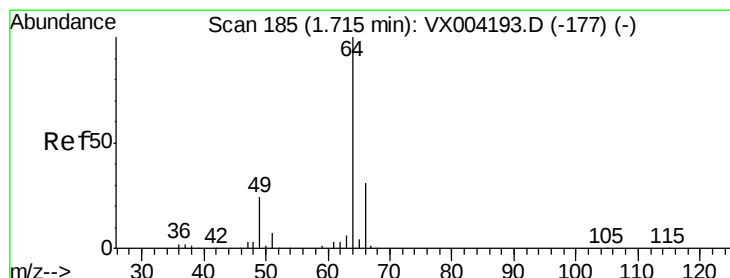
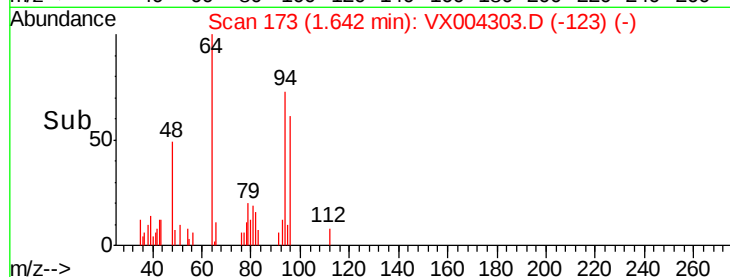
200

0

1.60 1.65 1.70 1.75

1.64

Time-->



#6

Chloroethane

Concen: 1.21 ug/l

RT: 1.67 min Scan# 177

Delta R.T. -0.05 min

Lab File: VX004303.D

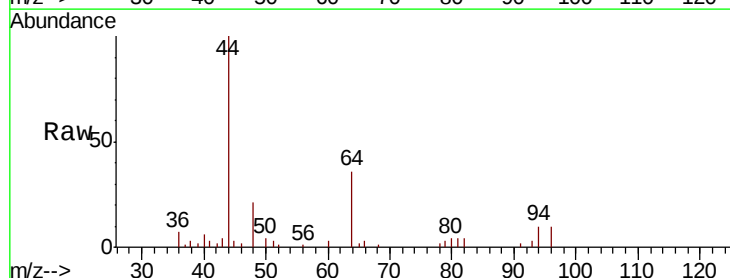
Acq: 29 Aug 2018 20:44

Tgt Ion: 64 Resp: 655

Ion Ratio Lower Upper

64 100

66 6.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1500

1000

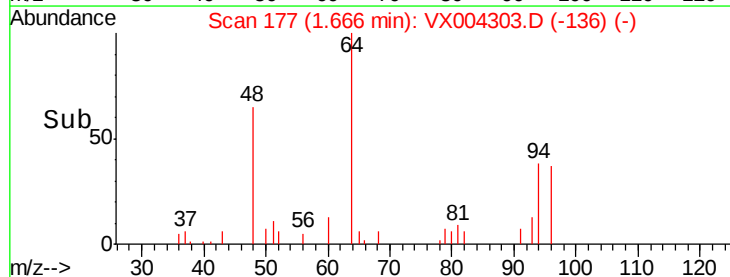
500

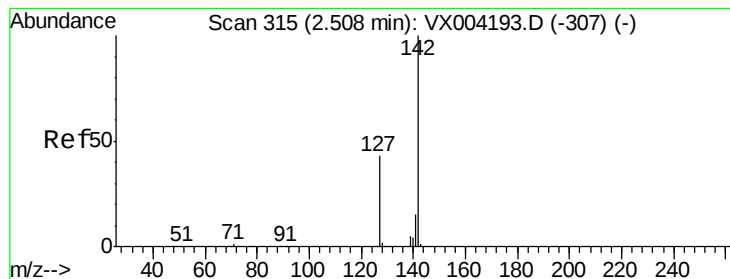
0

1.60 1.62 1.64 1.66 1.68

1.67

Time-->





#10

Methvl Iodide

Concen: 4.63 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

VX0829WBL02

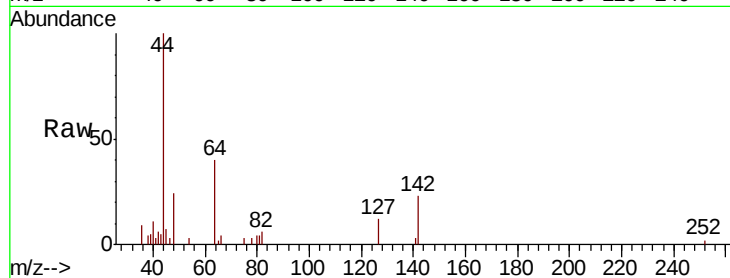
Tot Ion:142 Resp: 1322

Ion Ratio Lower Upper

142 100

127 46.8 33.8 50.6

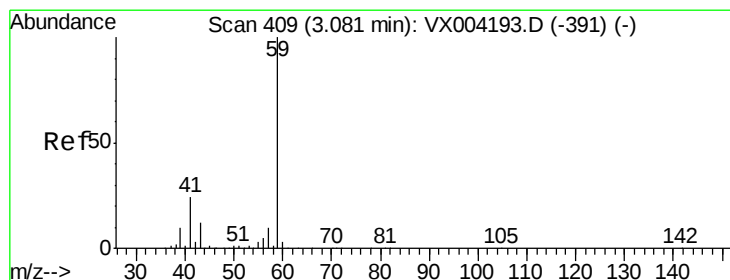
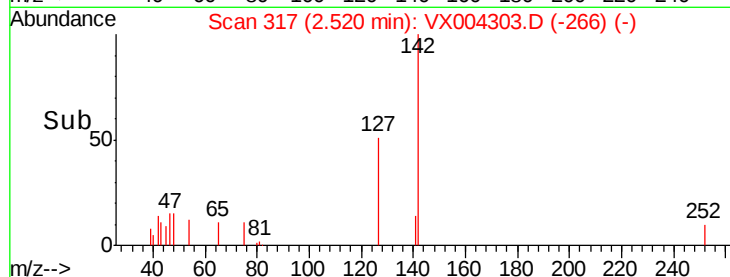
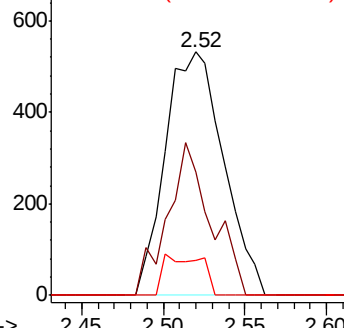
141 11.0 11.4 17.0#



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: 1.28 ug/l

RT: 3.02 min Scan# 399

Delta R.T. -0.06 min

Lab File: VX004303.D

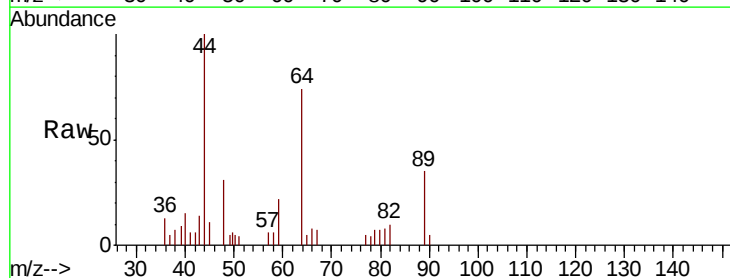
Acq: 29 Aug 2018 20:44

Tgt Ion: 59 Resp: 918

Ion Ratio Lower Upper

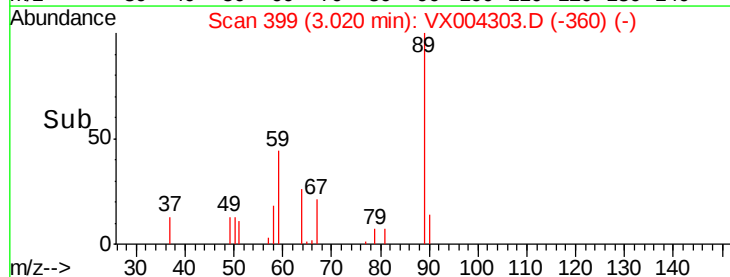
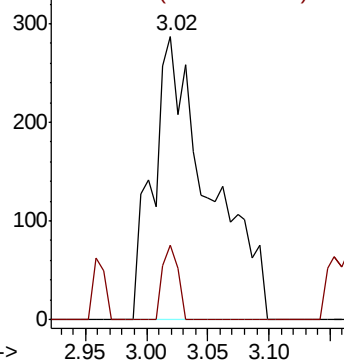
59 100

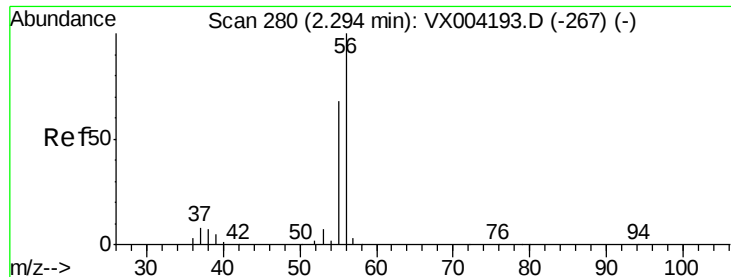
57 7.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.10 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampled :

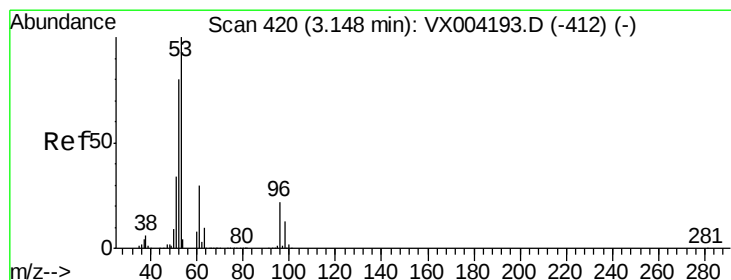
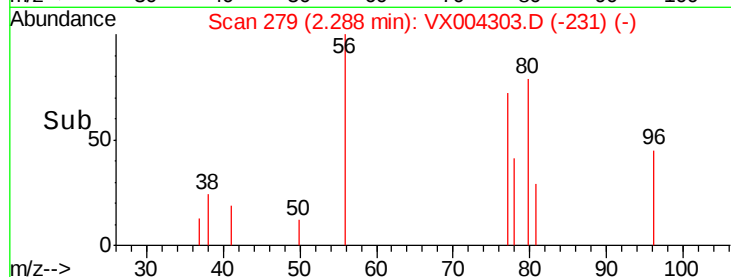
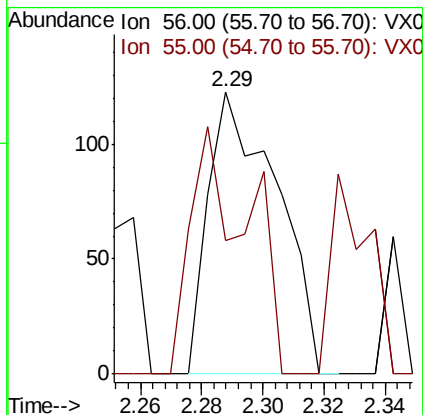
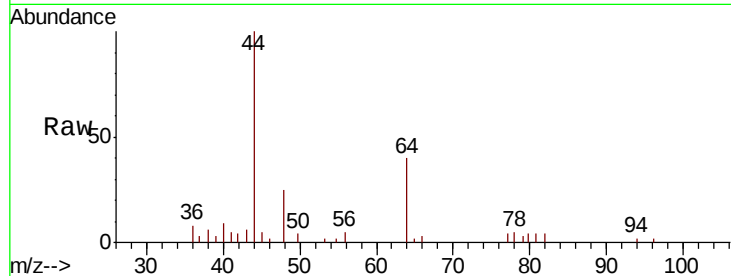
VX0829WBL02

Tot Ion: 56 Resp: 191

Ion Ratio Lower Upper

56 100

55 72.3 54.7 82.1



#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.01 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

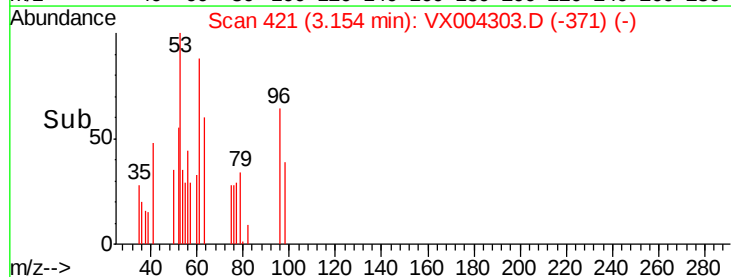
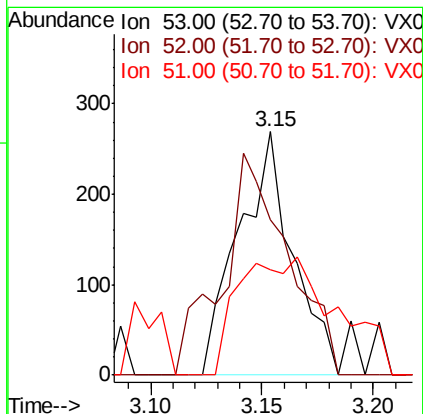
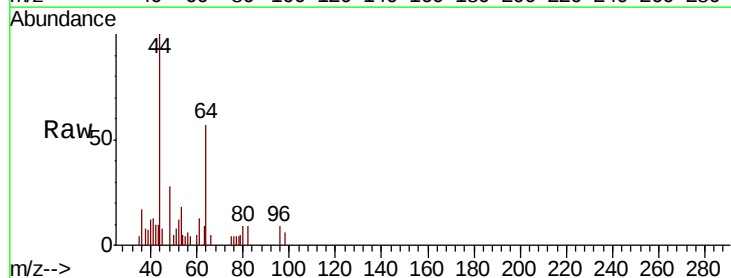
Tgt Ion: 53 Resp: 454

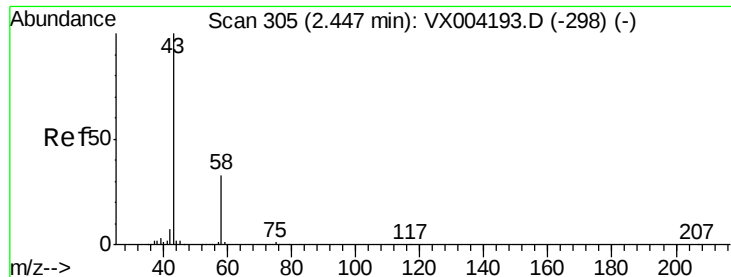
Ion Ratio Lower Upper

53 100

52 0.0 65.2 97.8#

51 87.2 28.2 42.2#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

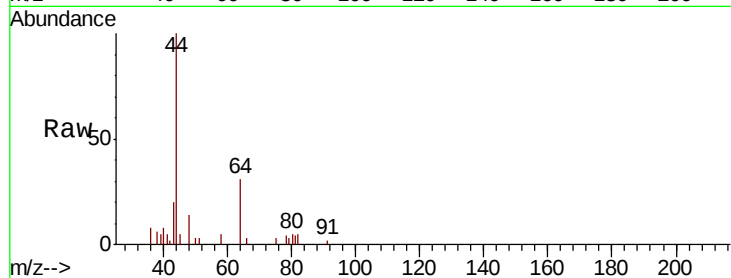
VX0829WBL02

Tot Ion: 43 Resp: 753

Ion Ratio Lower Upper

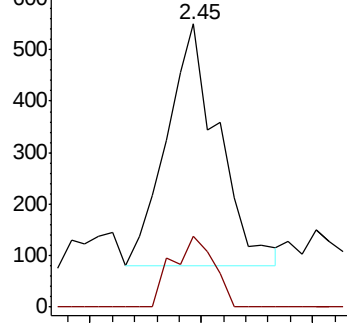
43 100

58 29.4 26.2 39.4

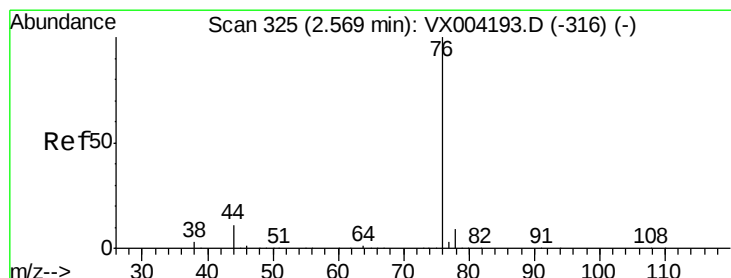
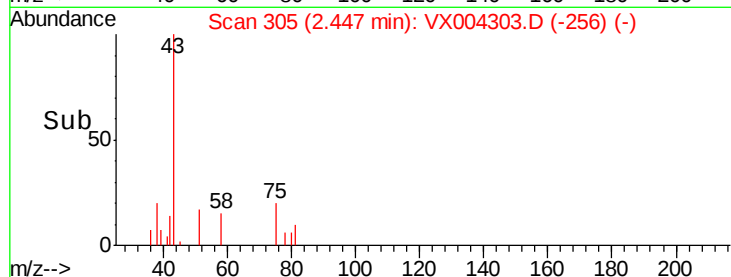


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: 1.03 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004303.D

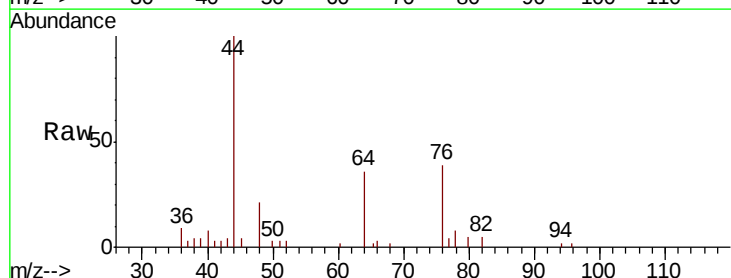
Acq: 29 Aug 2018 20:44

Tgt Ion: 76 Resp: 1805

Ion Ratio Lower Upper

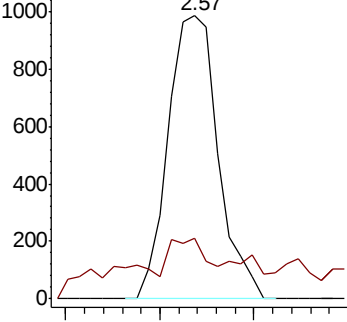
76 100

78 12.1 7.0 10.6#

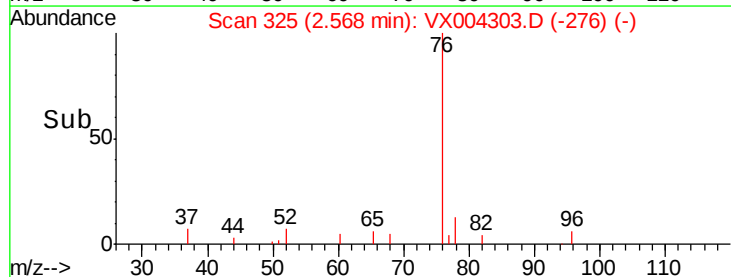


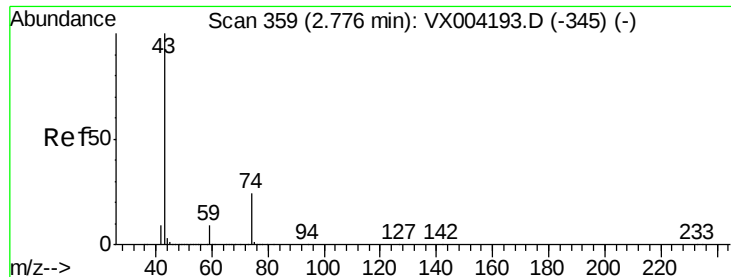
Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->

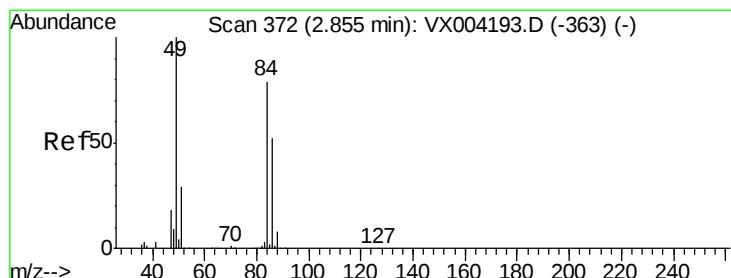
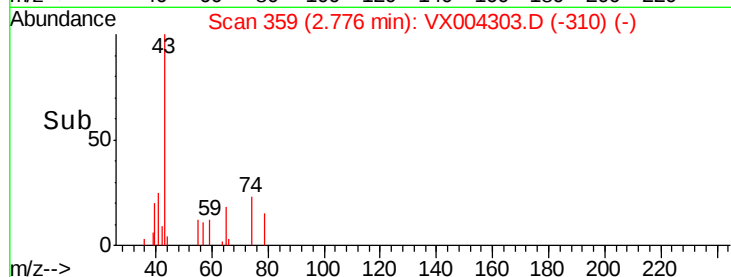
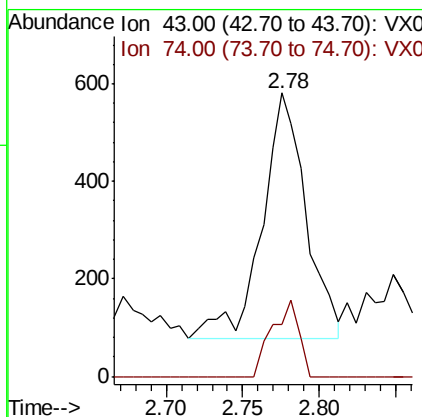
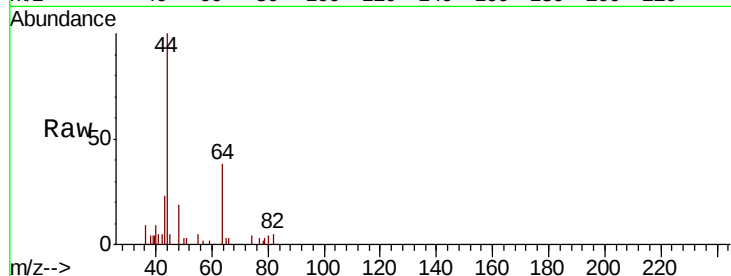




#18
Methvl Acetate
Concen: 0.20 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.00 min
Lab File: VX004303.D
Acq: 29 Aug 2018 20:44

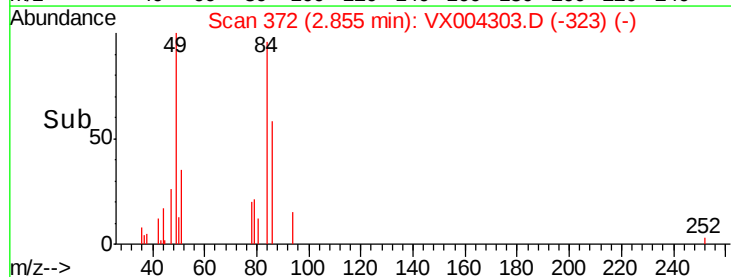
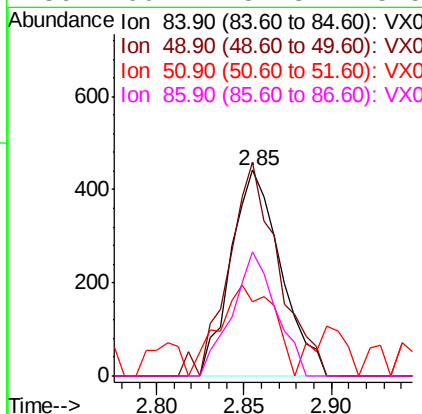
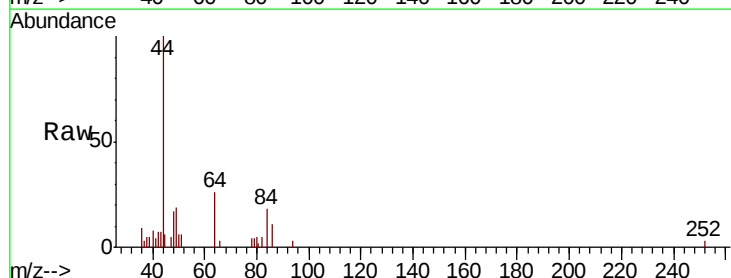
Instrument :
MSVOA_X
ClientSampleId :
VX0829WBL02

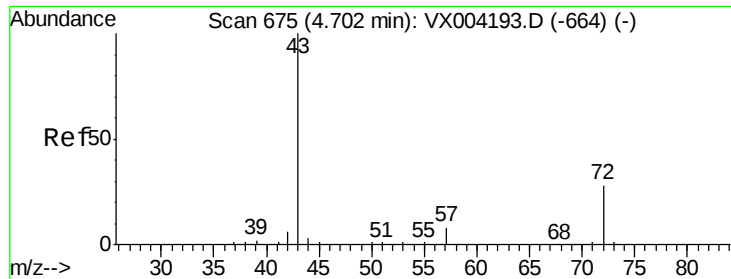
Tot Ion: 43 Resp: 1010
Ion Ratio Lower Upper
43 100
74 18.7 19.4 29.2#



#20
Methylene Chloride
Concen: 0.27 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX004303.D
Acq: 29 Aug 2018 20:44

Tgt Ion: 84 Resp: 882
Ion Ratio Lower Upper
84 100
49 103.8 101.2 151.8
51 36.2 29.5 44.3
86 60.4 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

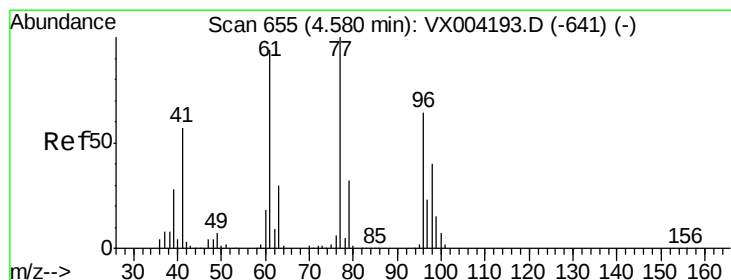
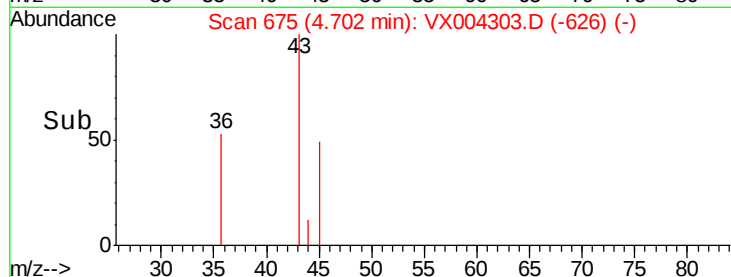
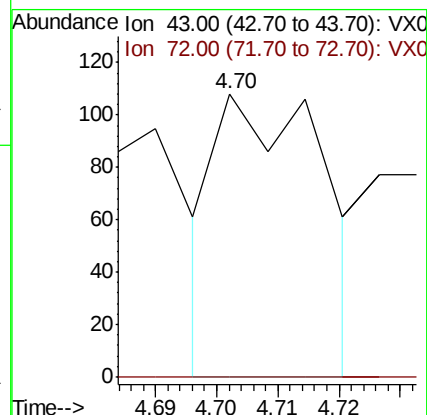
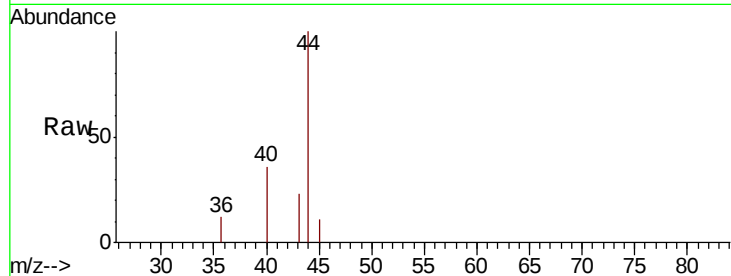
VX0829WBL02

Tot Ion: 43 Resp: 132

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#26

2,2-Dichloropropane

Concen: 0.26 ug/l

RT: 4.78 min Scan# 687

Delta R.T. 0.19 min

Lab File: VX004303.D

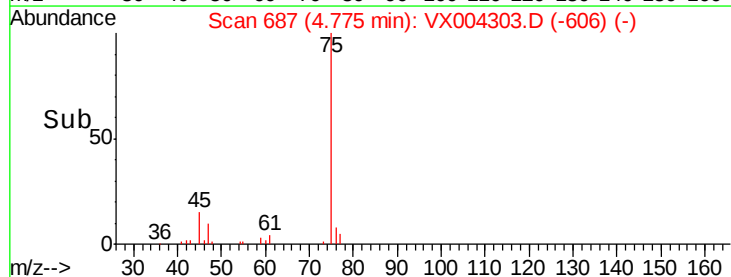
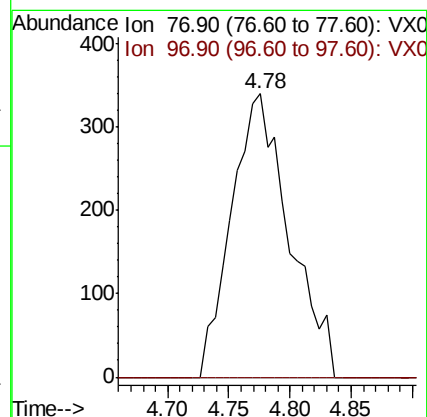
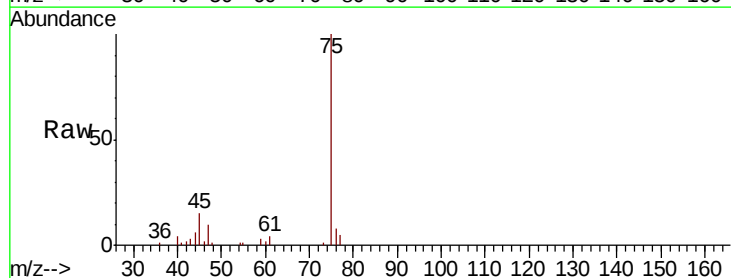
Acq: 29 Aug 2018 20:44

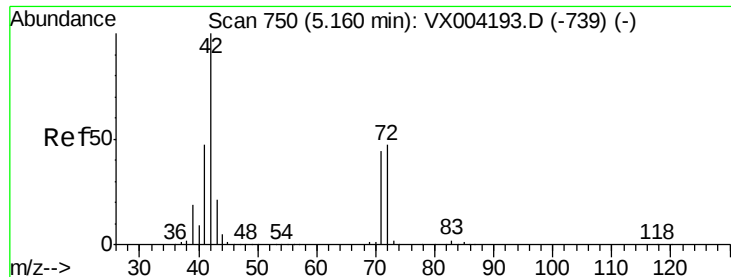
Tgt Ion: 77 Resp: 1114

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 0.48 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

VX0829WBL02

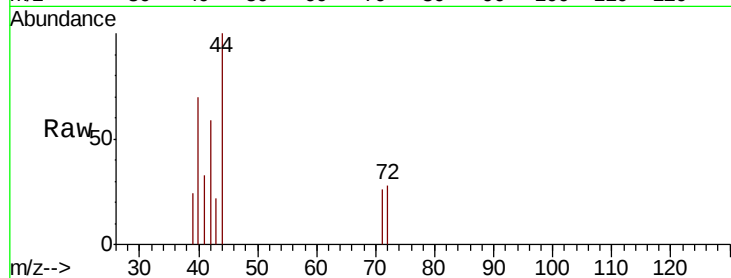
Tot Ion: 42 Resp: 695

Ion Ratio Lower Upper

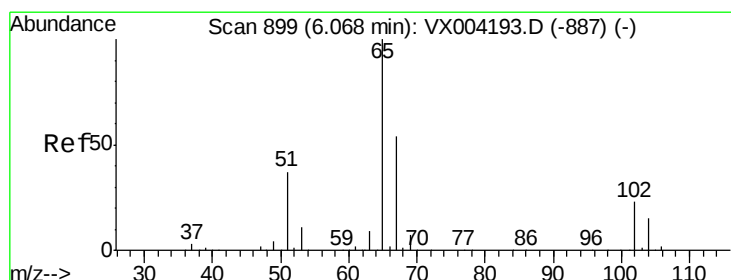
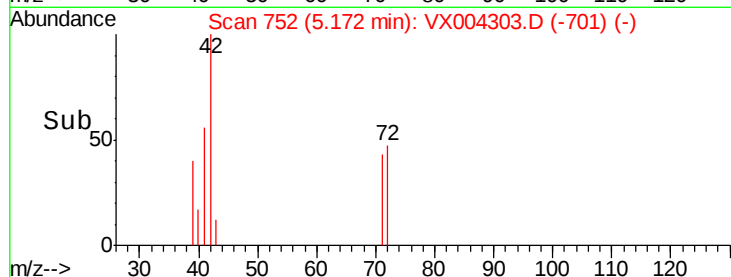
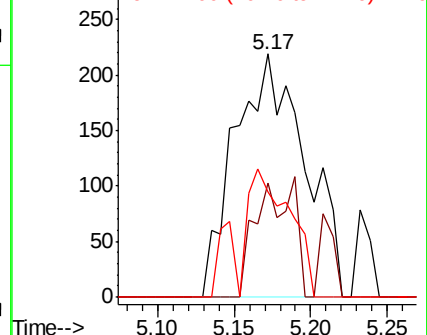
42 100

72 0.0 37.4 56.0#

71 31.4 34.5 51.7#



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: 55.17 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004303.D

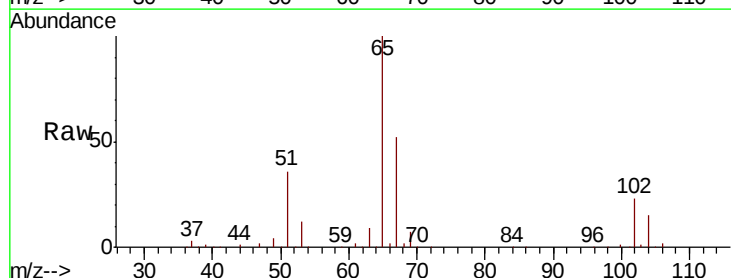
Acq: 29 Aug 2018 20:44

Tgt Ion: 65 Resp: 186250

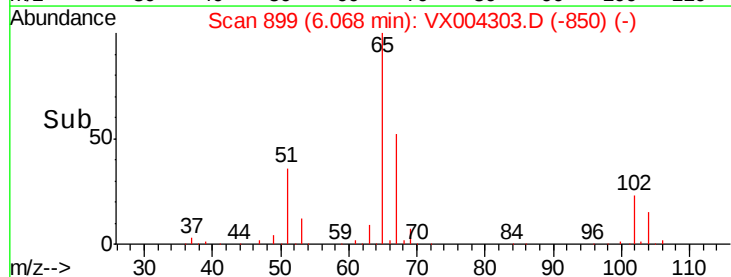
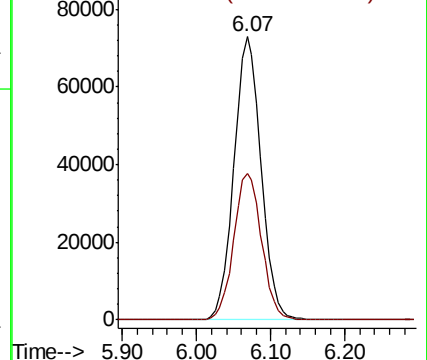
Ion Ratio Lower Upper

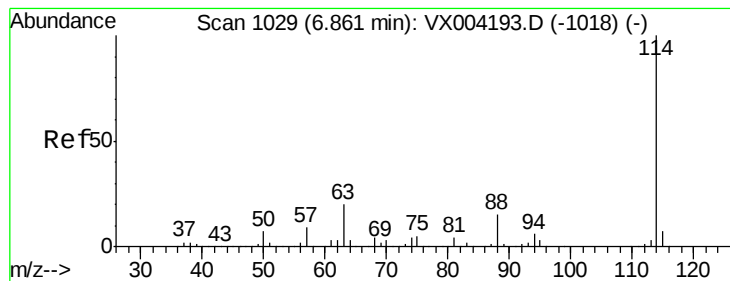
65 100

67 53.0 0.0 106.8



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

VX0829WBL02

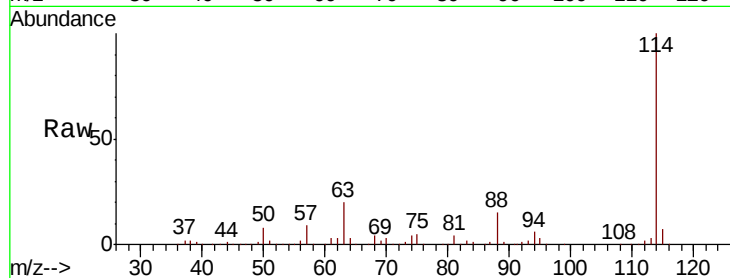
Tot Ion:114 Resp: 407123

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

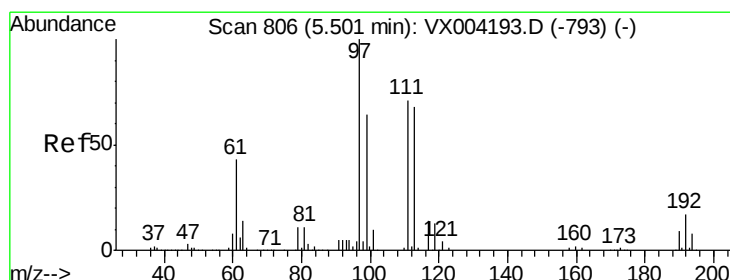
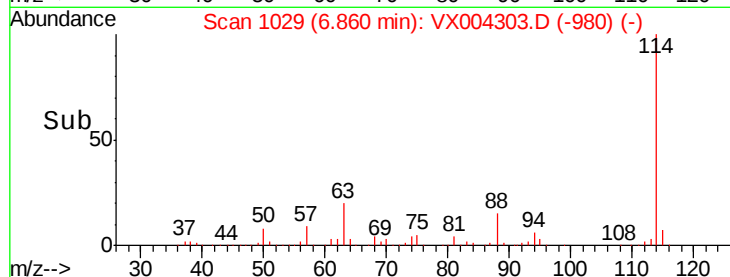
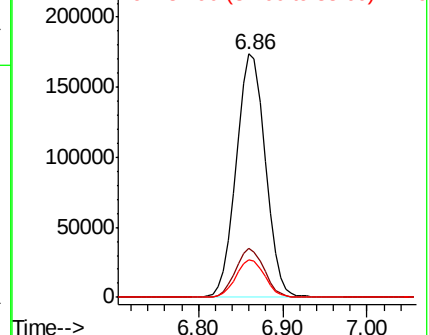
88 15.2 0.0 30.4



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: 54.25 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

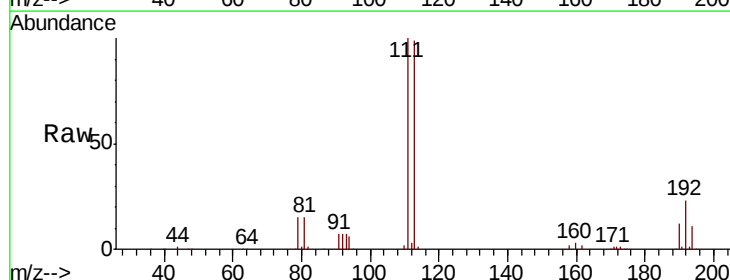
Tgt Ion:113 Resp: 164313

Ion Ratio Lower Upper

113 100

111 101.5 82.4 123.6

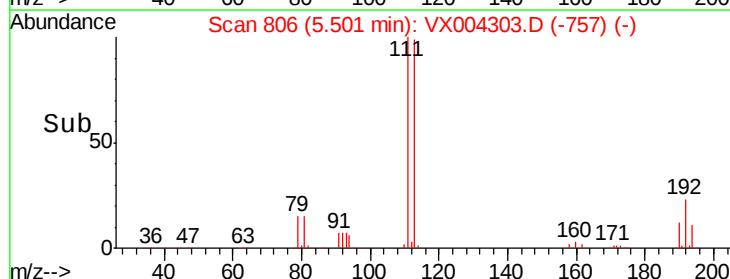
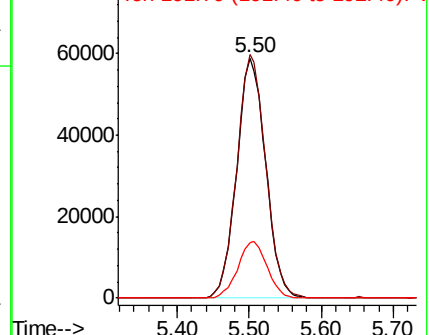
192 23.8 19.4 29.2

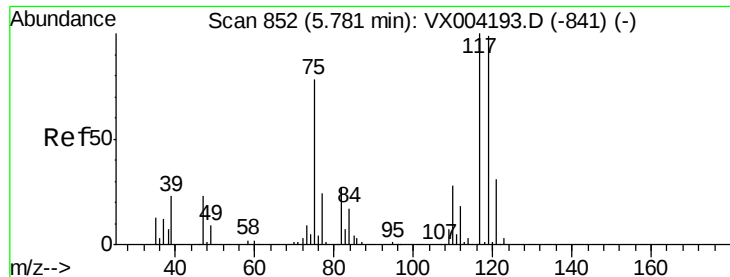


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

VX0829WBL02

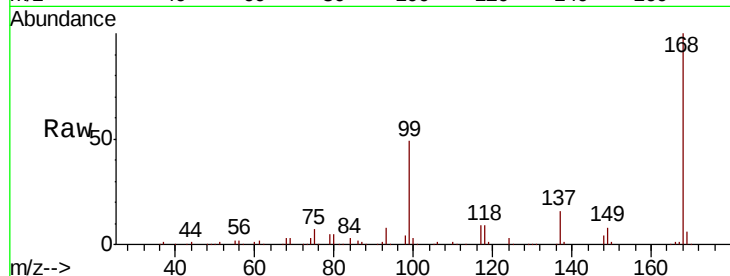
Tot Ion:117 Resp: 22464

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

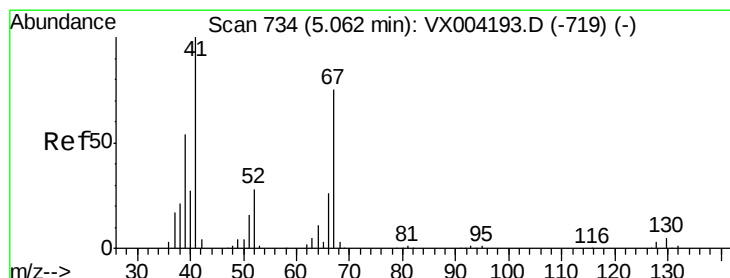
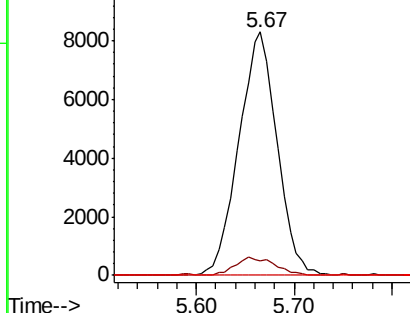
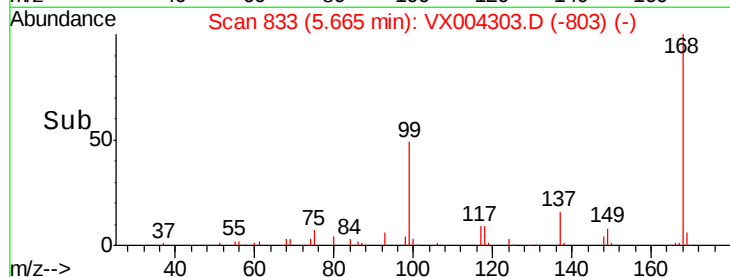
121 0.0 24.9 37.3#



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: 0.20 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.12 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Tgt Ion: 41 Resp: 534

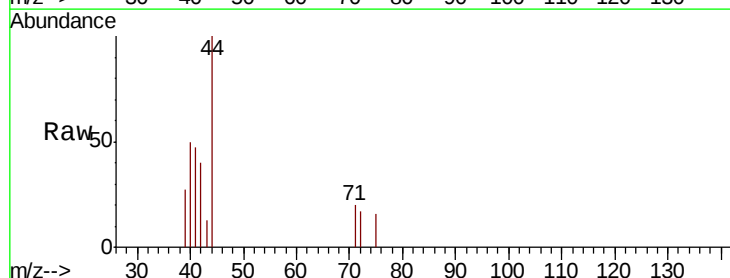
Ion Ratio Lower Upper

41 100

39 42.9 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

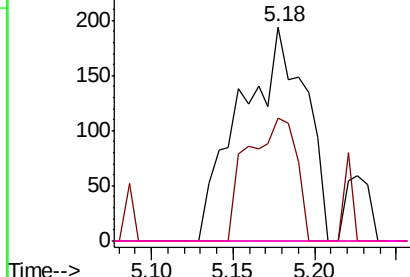
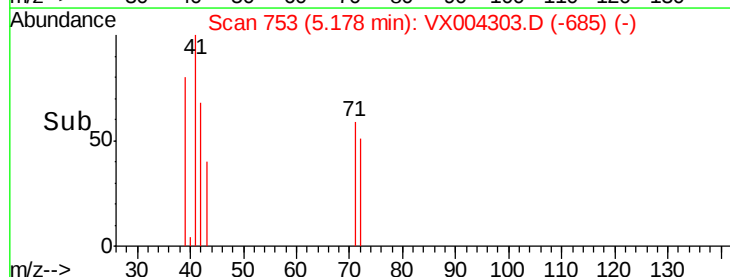


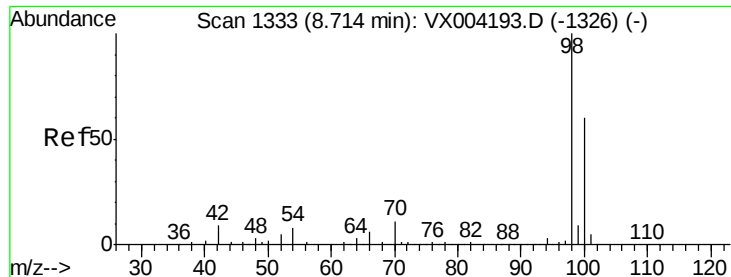
Abundance Ion 41.00 (40.70 to 41.70): VX0

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





#50

Toluene-d8

Concen: 51.25 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

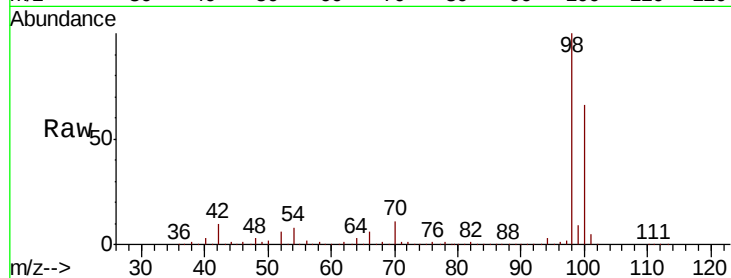
VX0829WBL02

Tot Ion: 98 Resp: 585863

Ion Ratio Lower Upper

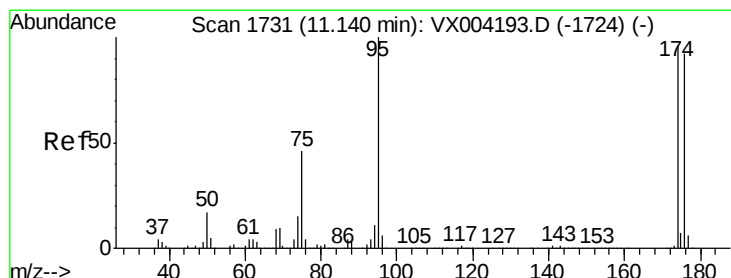
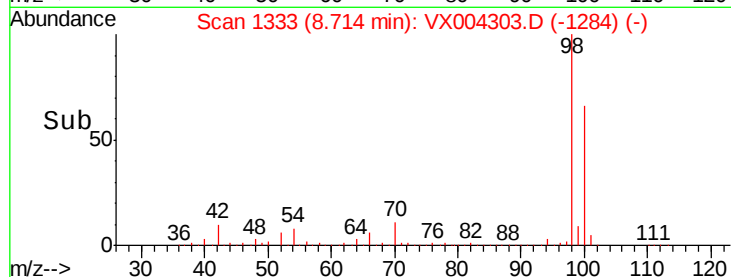
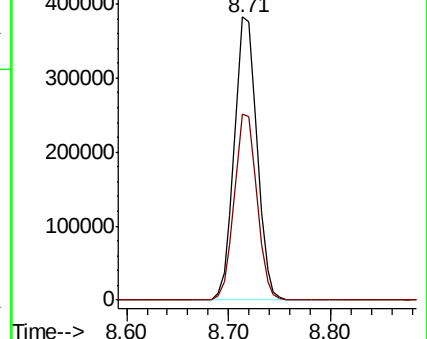
98 100

100 65.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 46.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

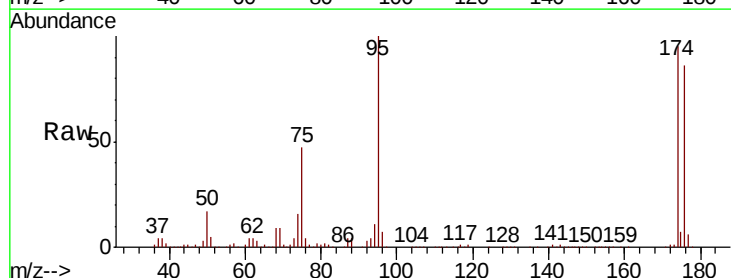
Tgt Ion: 95 Resp: 198184

Ion Ratio Lower Upper

95 100

174 93.0 0.0 185.2

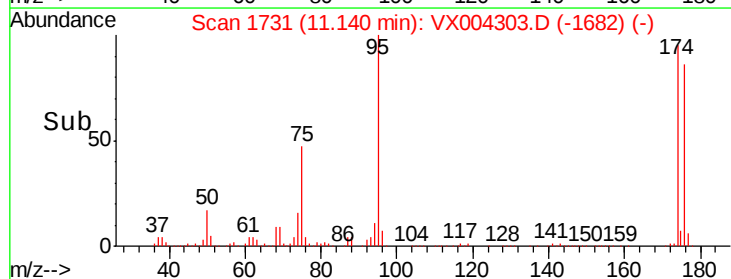
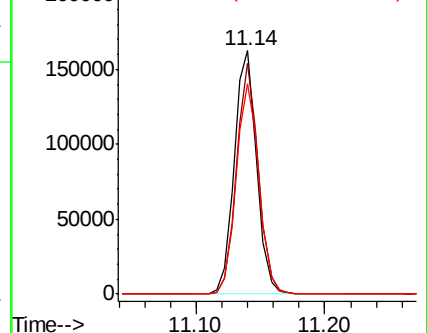
176 88.1 0.0 178.6

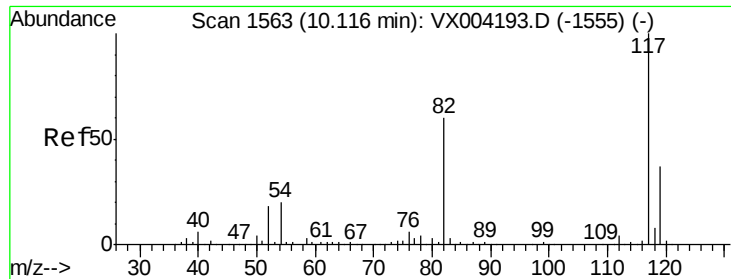


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

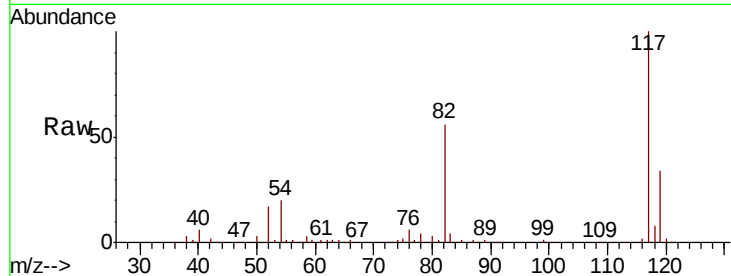




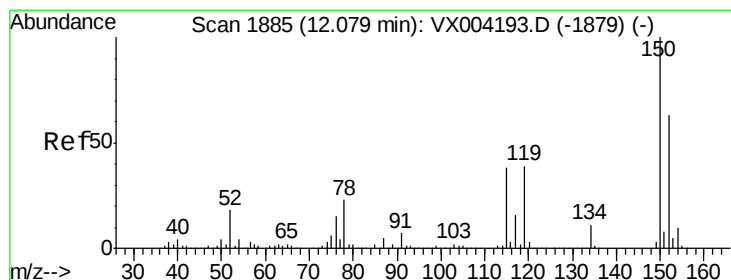
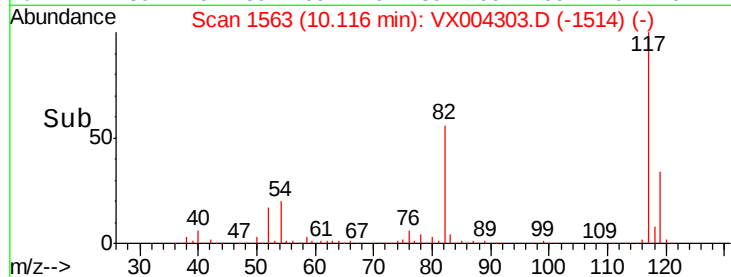
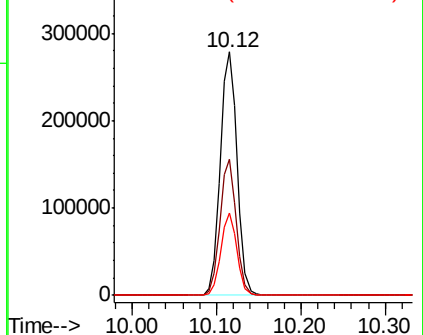
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004303.D
Acq: 29 Aug 2018 20:44

Instrument :
MSVOA_X
ClientSampleId :
VX0829WBL02

Tot Ion:117 Resp: 384265
Ion Ratio Lower Upper
117 100
82 55.9 47.8 71.6
119 33.6 29.3 43.9

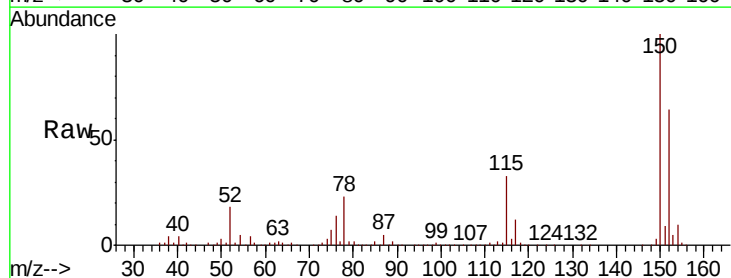


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

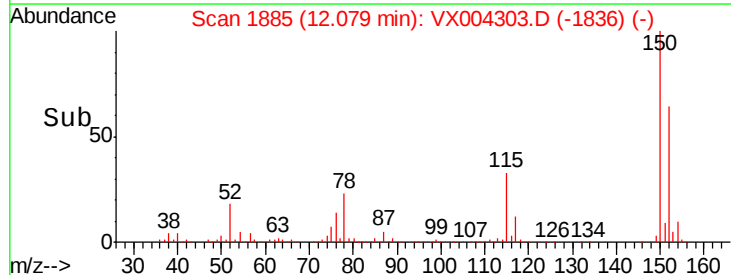
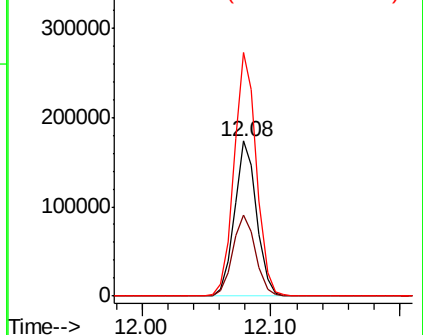


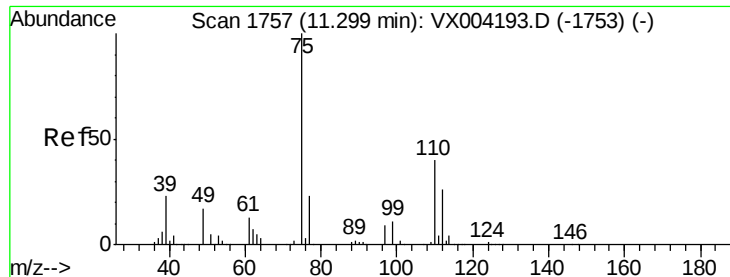
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004303.D
Acq: 29 Aug 2018 20:44

Tgt Ion:152 Resp: 207215
Ion Ratio Lower Upper
152 100
115 53.9 39.0 117.0
150 159.0 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





#76

1,2,3-Trichloropropane

Concen: 22.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

Instrument :

MSVOA_X

ClientSampleId :

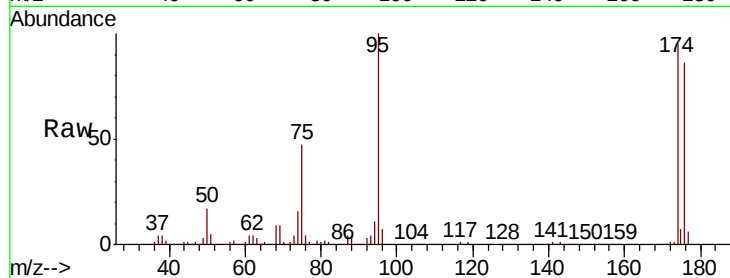
VX0829WBL02

Tot Ion: 75 Resp: 94099

Ion Ratio Lower Upper

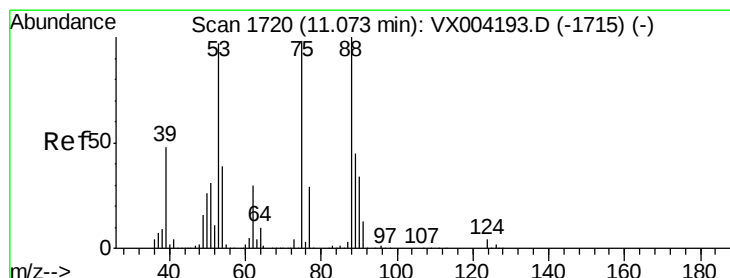
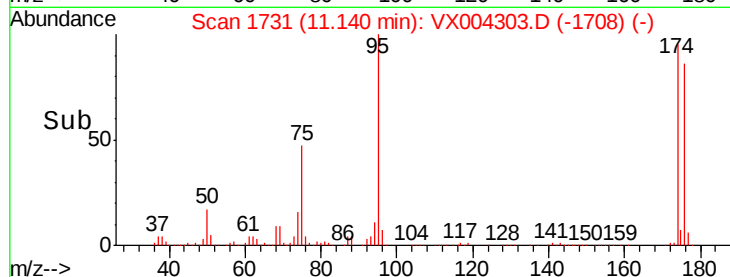
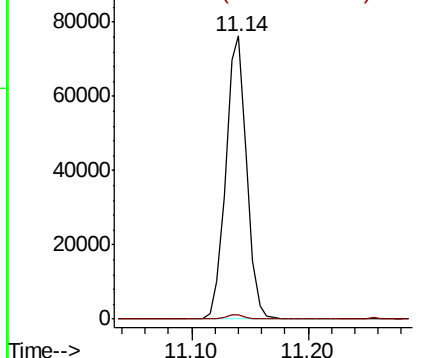
75 100

77 1.4 20.2 60.6#



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: 72.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004303.D

Acq: 29 Aug 2018 20:44

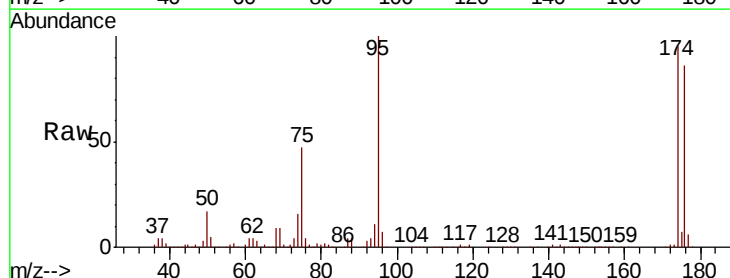
Tgt Ion: 75 Resp: 94099

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

