

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082418\
 Data File : VX004248.D
 Acq On : 24 Aug 2018 15:49
 Operator : JC/MD
 Sample : J4648-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TMW-2

Quant Time: Aug 25 00:29:47 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	5.66	168	295549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	462361	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	410083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	239250	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	200554	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	
35) Dibromofluoromethane	5.50	113	175513	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
50) Toluene-d8	8.71	98	648177	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
62) 4-Bromofluorobenzene	11.14	95	218304	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	

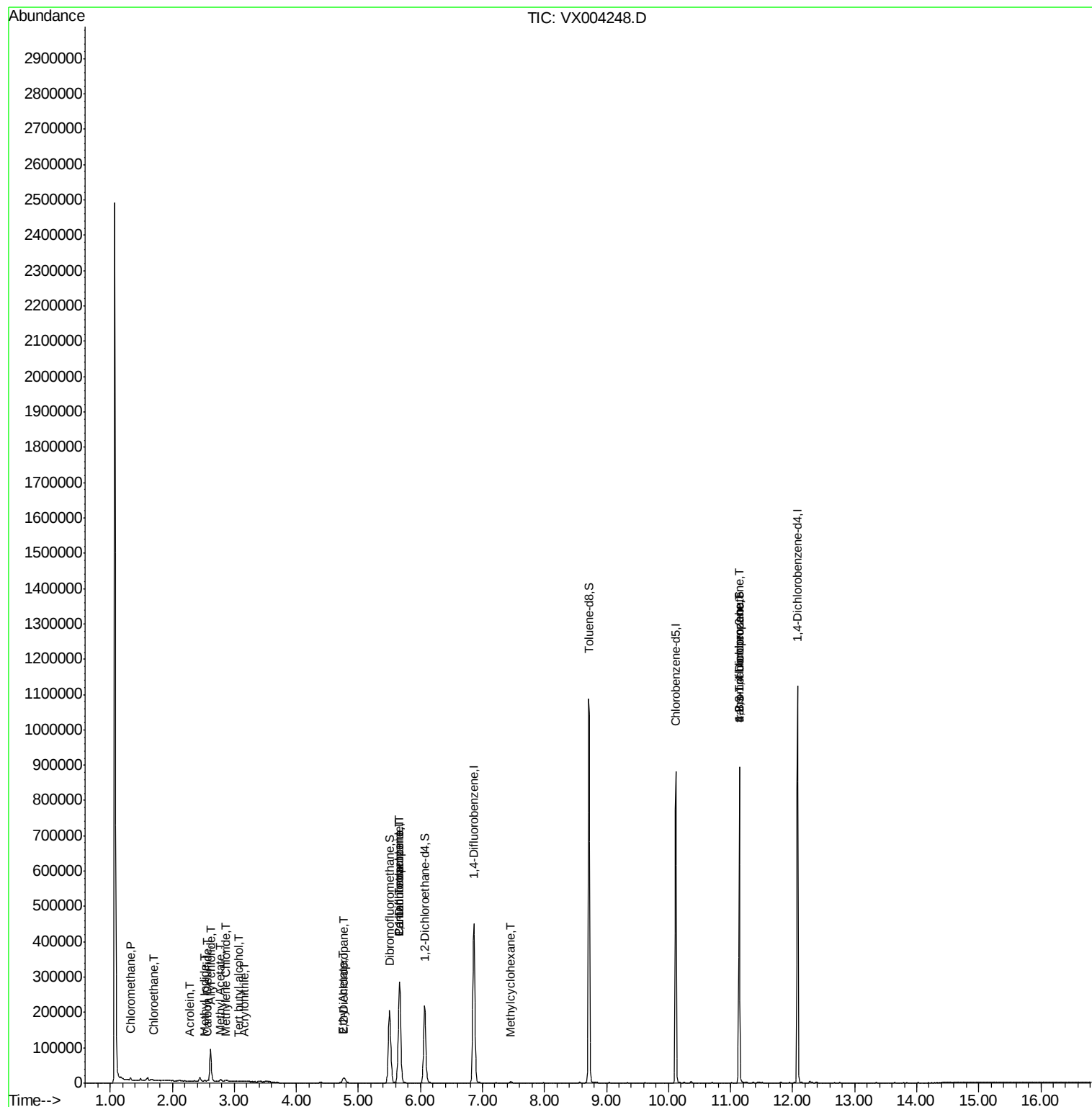
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	4555	1.49	ug/l	94
5) Bromomethane	1.65	94	1220	Below Cal		94
6) Chloroethane	1.70	64	258	1.05	ug/l #	62
10) Methyl Iodide	2.53	142	1285	4.58	ug/l	92
11) Tert butyl alcohol	3.07	59	571	0.70	ug/l #	83
13) Acrolein	2.29	56	274	1.38	ug/l #	1
14) Allyl chloride	2.62	41	8724	1.52	ug/l #	66
15) Acrylonitrile	3.16	53	410	0.20	ug/l #	24
16) Acetone	2.45	43	11802	Below Cal		92
17) Carbon Disulfide	2.57	76	1673	0.99	ug/l #	86
18) Methyl Acetate	2.78	43	5216	0.91	ug/l	92
20) Methylene Chloride	2.86	84	907	0.24	ug/l #	87
25) 2-Butanone	4.70	43	650	Below Cal	#	89
26) 2,2-Dichloropropane	4.76	77	1553	0.32	ug/l #	52
36) 1,1-Dichloropropene	5.66	75	19652	3.78	ug/l #	49
37) Ethyl Acetate	4.75	43	1038	0.20	ug/l #	67
38) Carbon Tetrachloride	5.66	117	25490	5.21	ug/l #	16
39) Methylcyclohexane	7.46	83	1412	0.24	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	105485	21.68	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	105485	70.34	ug/l #	10
94) Hexachlorobutadiene	13.79	225	145	Below Cal		91

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

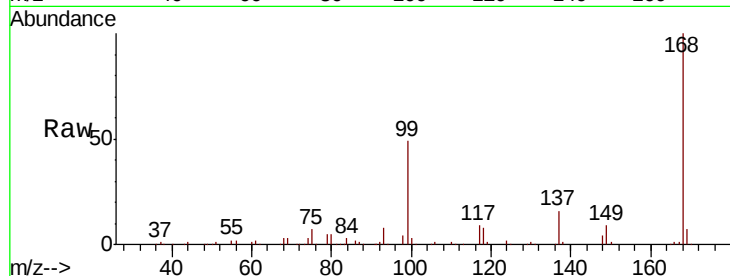
TMW-2

Tot Ion:168 Resp: 295549

Ion Ratio Lower Upper

168 100

99 49.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

60000

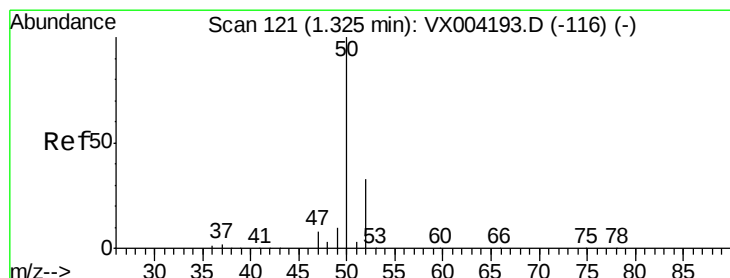
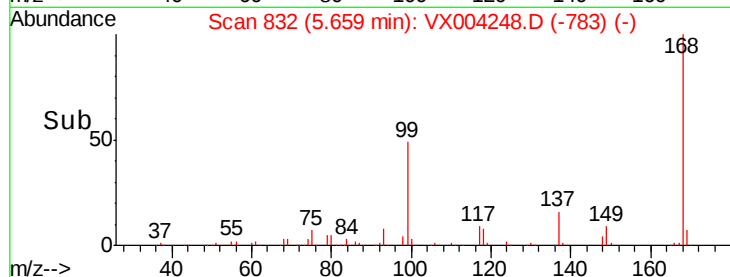
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 1.49 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004248.D

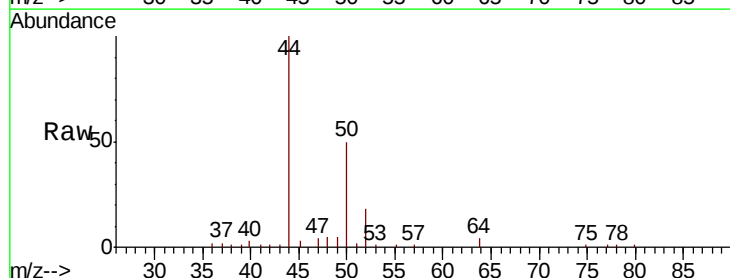
Acq: 24 Aug 2018 15:49

Tgt Ion: 50 Resp: 4555

Ion Ratio Lower Upper

50 100

52 35.9 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

4000

3000

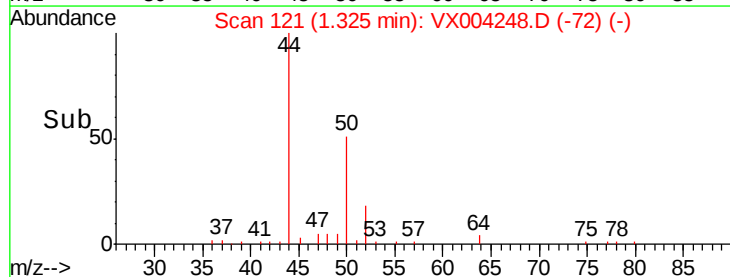
2000

1000

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampled :

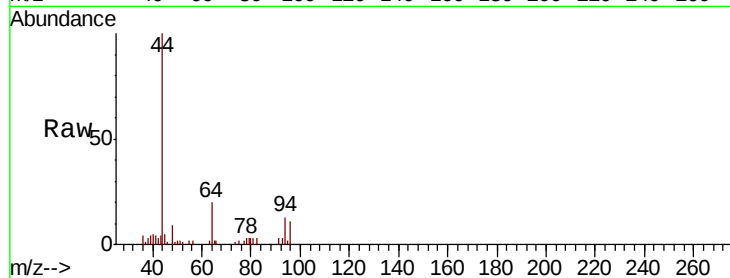
TMW-2

Tot Ion: 94 Resp: 1220

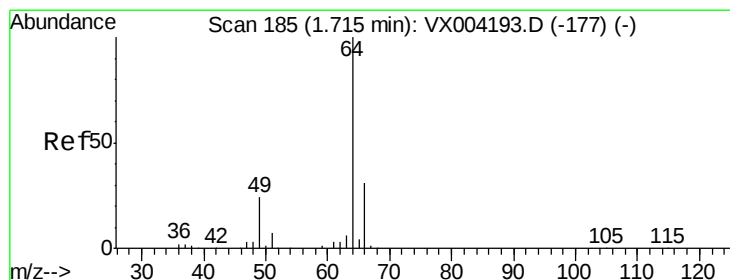
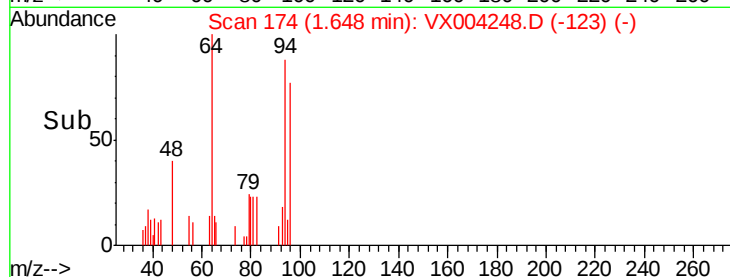
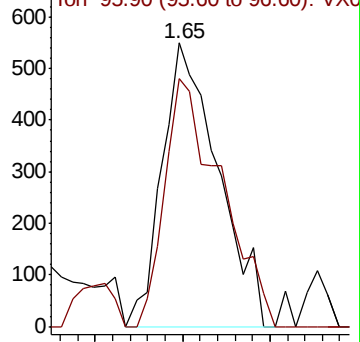
Ion Ratio Lower Upper

94 100

96 87.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 1.05 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.01 min

Lab File: VX004248.D

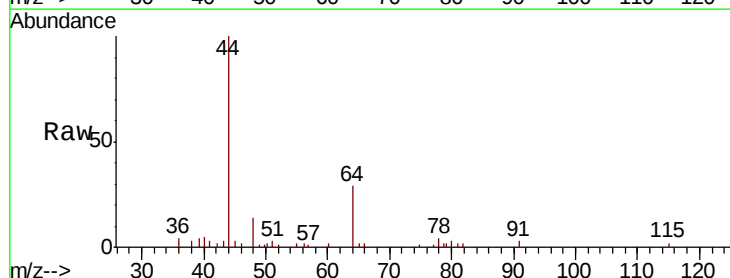
Acq: 24 Aug 2018 15:49

Tgt Ion: 64 Resp: 258

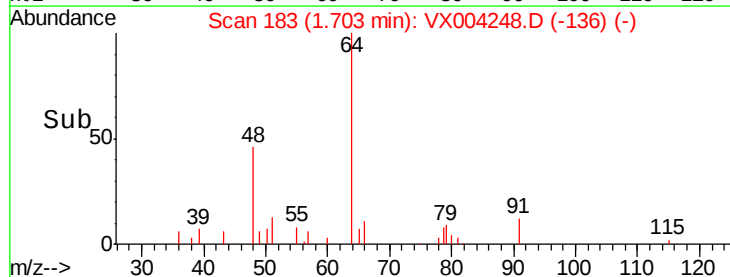
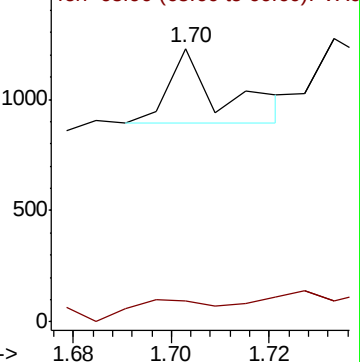
Ion Ratio Lower Upper

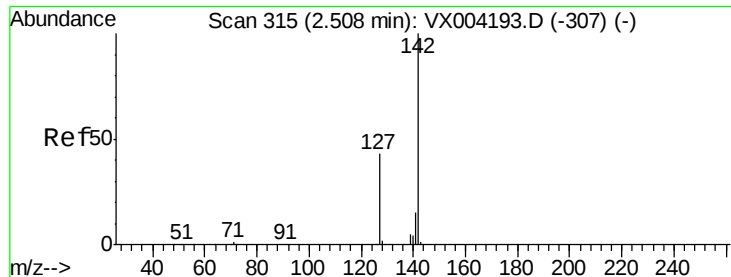
64 100

66 10.1 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

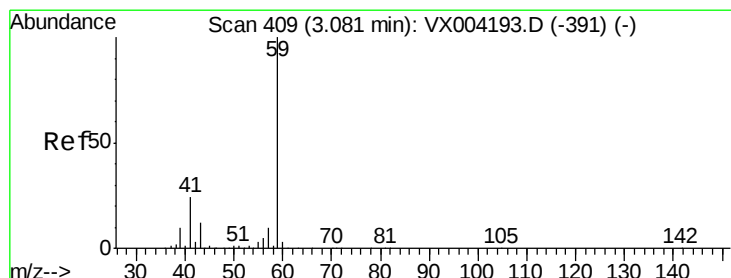
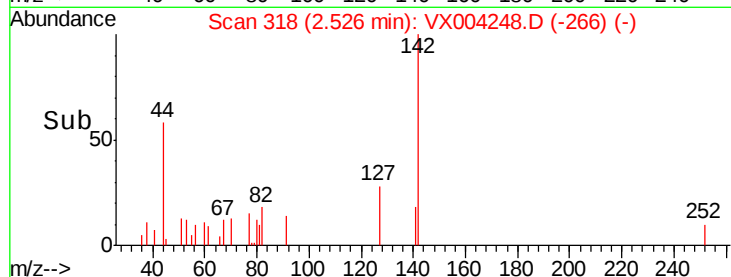
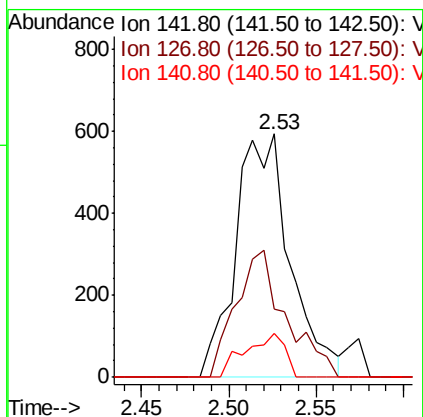
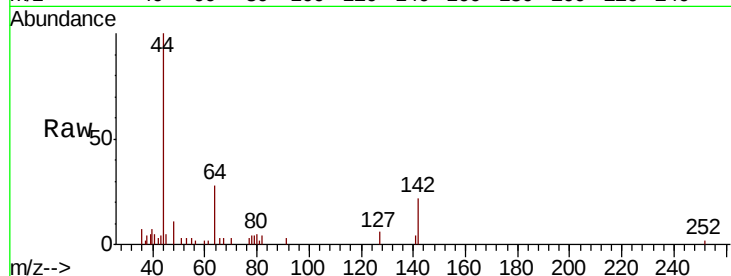




#10
Methvl Iodide
Concen: 4.58 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX004248.D
Acq: 24 Aug 2018 15:49

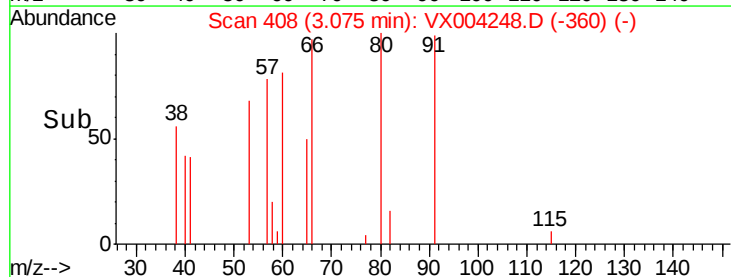
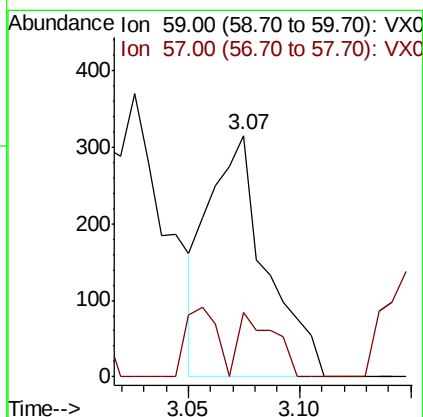
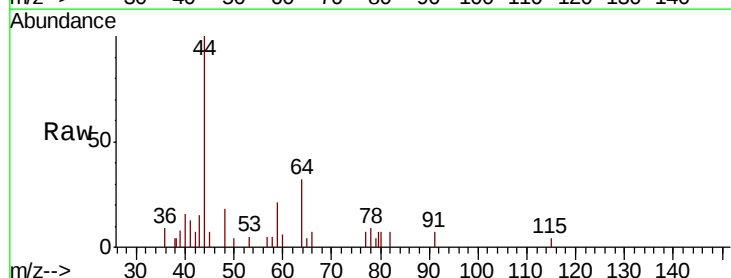
Instrument :
MSVOA_X
ClientSampleId :
TMW-2

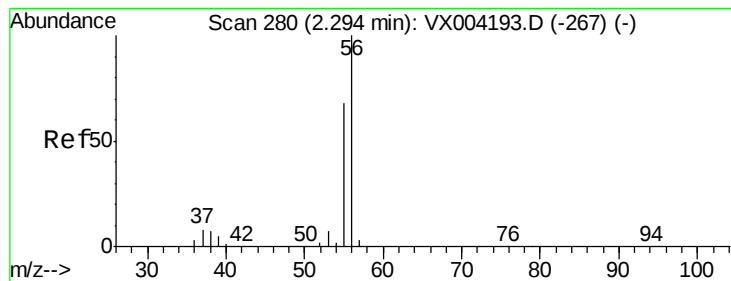
Tot Ion:142 Resp: 1285
Ion Ratio Lower Upper
142 100
127 48.0 33.8 50.6
141 13.1 11.4 17.0



#11
Tert butyl alcohol
Concen: 0.70 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004248.D
Acq: 24 Aug 2018 15:49

Tgt Ion: 59 Resp: 571
Ion Ratio Lower Upper
59 100
57 16.5 8.2 12.4#





#13

Acrolein

Concen: 1.38 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampled :

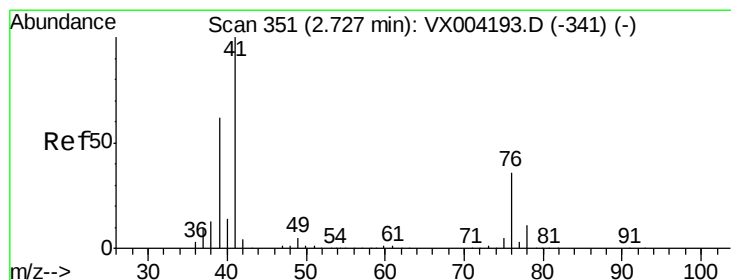
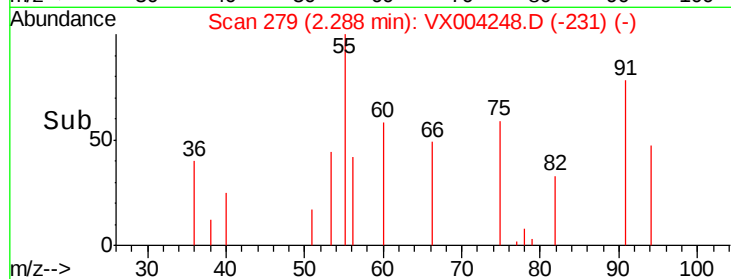
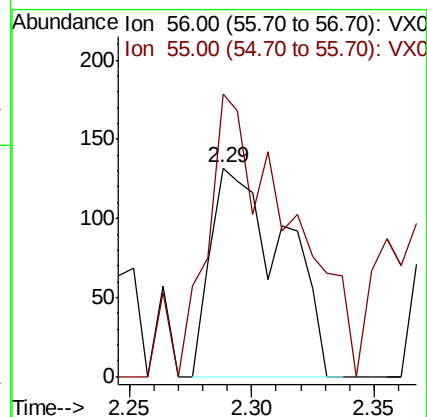
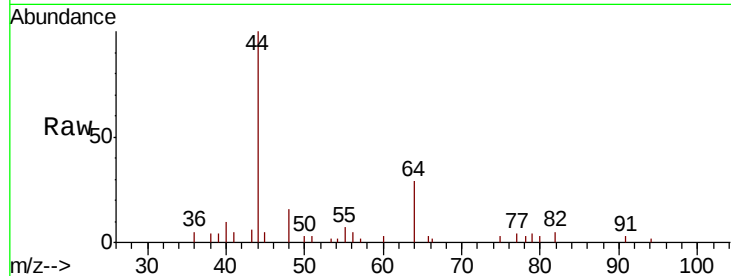
TMW-2

Tot Ion: 56 Resp: 274

Ion Ratio Lower Upper

56 100

55 157.3 54.7 82.1#



#14

Allyl chloride

Concen: 1.52 ug/l

RT: 2.62 min Scan# 333

Delta R.T. -0.11 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

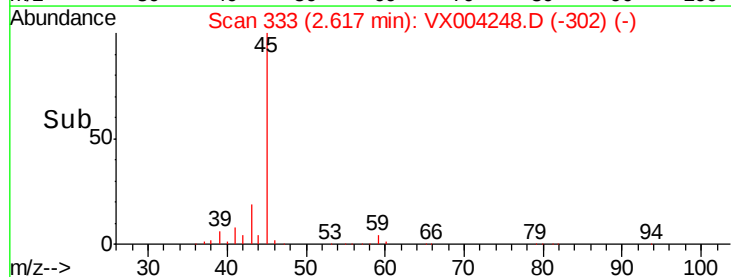
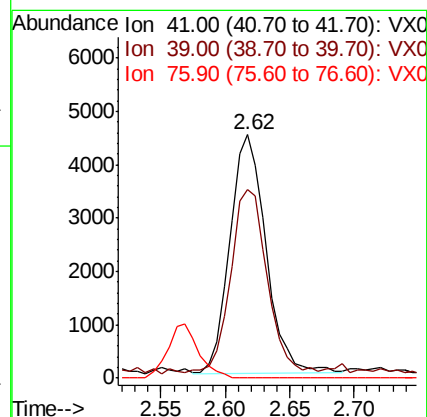
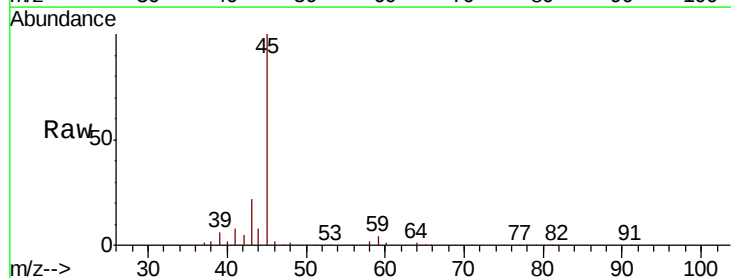
Tgt Ion: 41 Resp: 8724

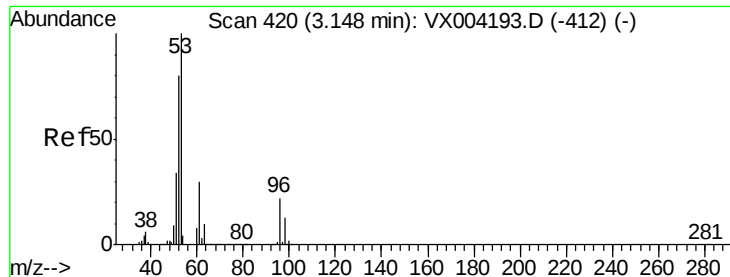
Ion Ratio Lower Upper

41 100

39 77.0 48.9 73.3#

76 0.0 26.7 40.1#





#15

Acrylonitrile

Concen: 0.20 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampled :

TMW-2

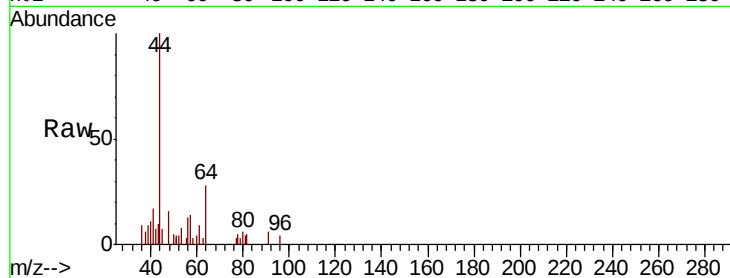
Tot Ion: 53 Resp: 410

Ion Ratio Lower Upper

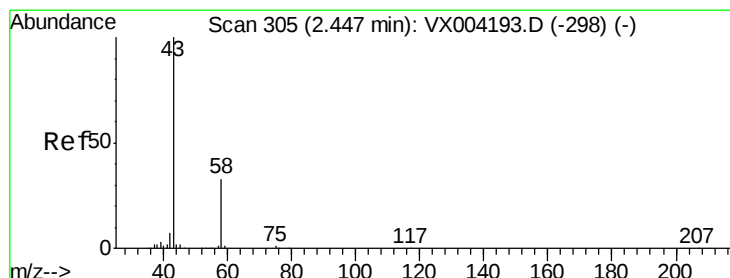
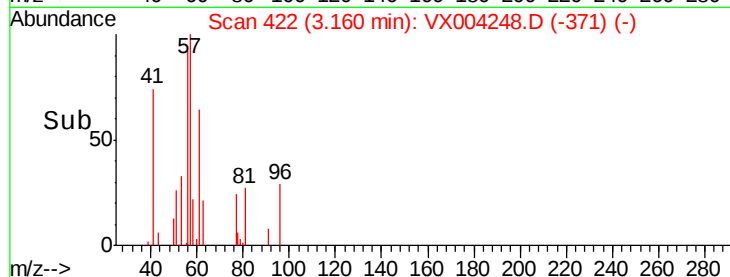
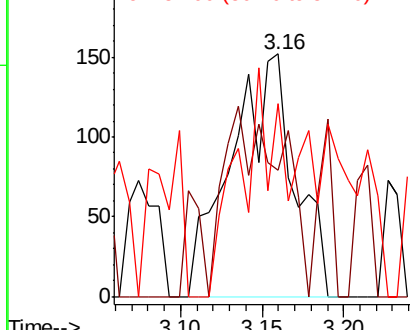
53 100

52 0.0 65.2 97.8#

51 59.5 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: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004248.D

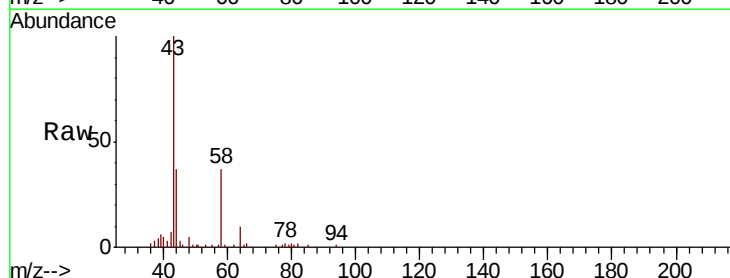
Acq: 24 Aug 2018 15:49

Tgt Ion: 43 Resp: 11802

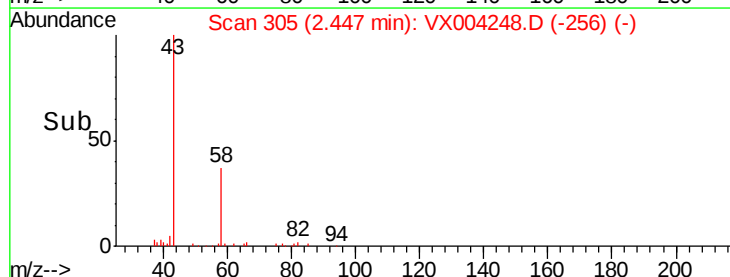
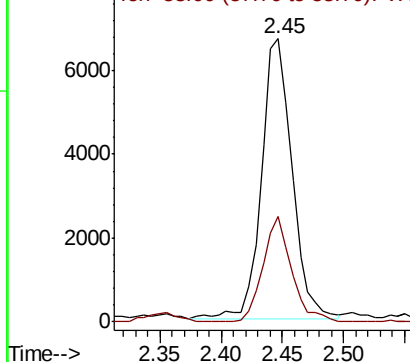
Ion Ratio Lower Upper

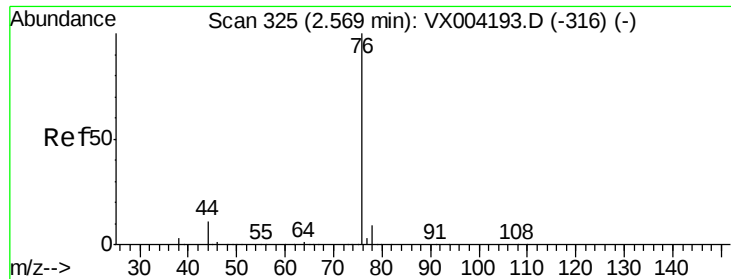
43 100

58 37.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

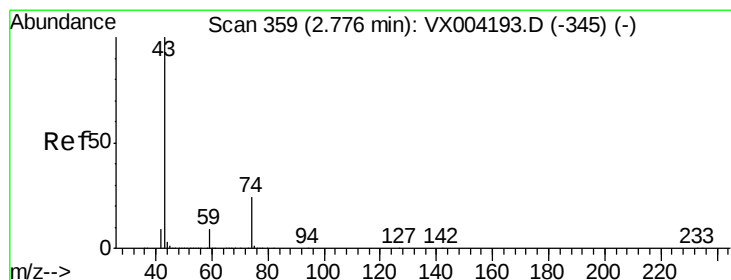
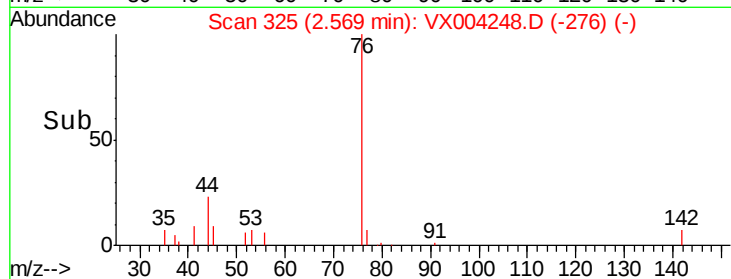
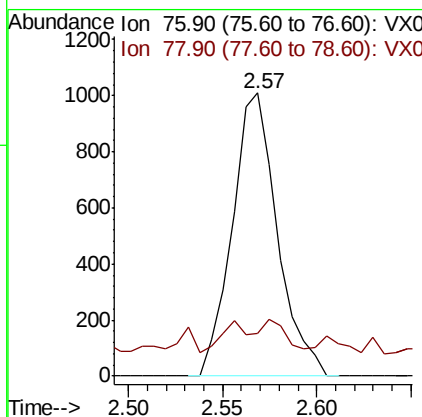
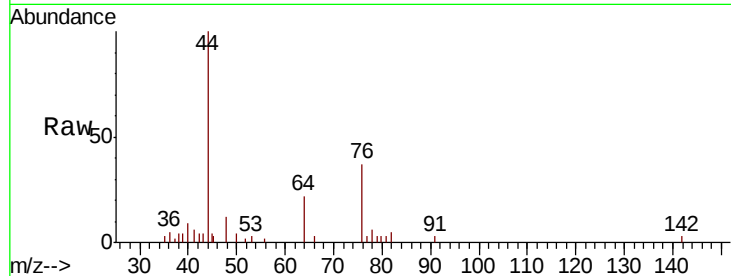




#17
Carbon Disulfide
Concen: 0.99 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX004248.D
Acq: 24 Aug 2018 15:49

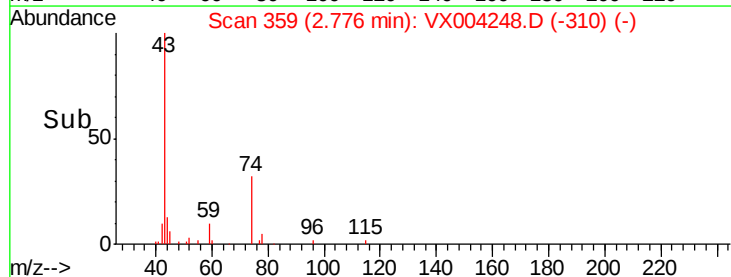
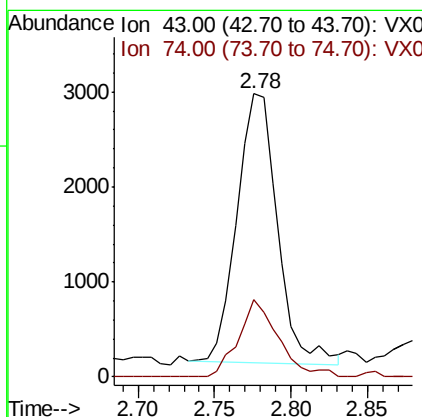
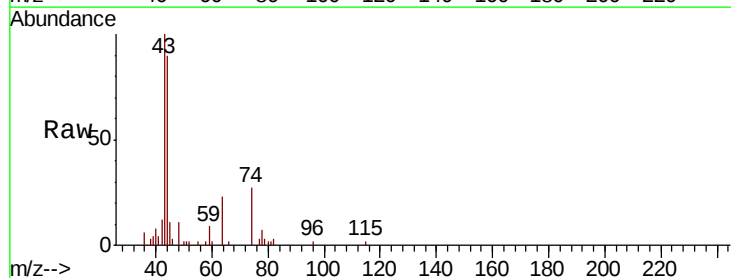
Instrument :
MSVOA_X
ClientSampled :
TMW-2

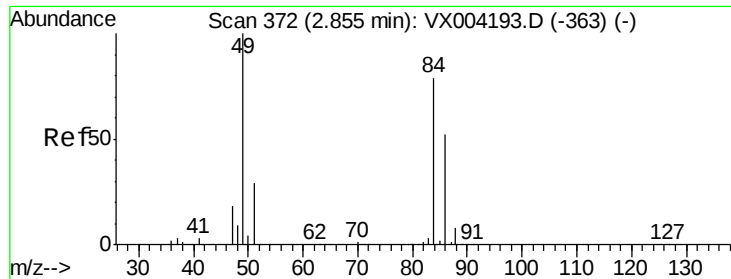
Tot Ion: 76 Resp: 1673
Ion Ratio Lower Upper
76 100
78 3.8 7.0 10.6#



#18
Methyl Acetate
Concen: 0.91 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.00 min
Lab File: VX004248.D
Acq: 24 Aug 2018 15:49

Tgt Ion: 43 Resp: 5216
Ion Ratio Lower Upper
43 100
74 28.3 19.4 29.2





#20

Methylene Chloride

Concen: 0.24 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampled :

TMW-2

Tot Ion: 84 Resp: 907

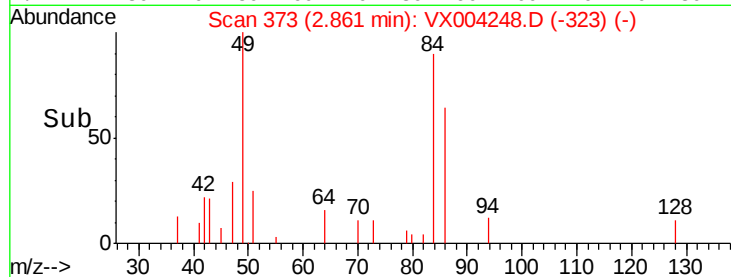
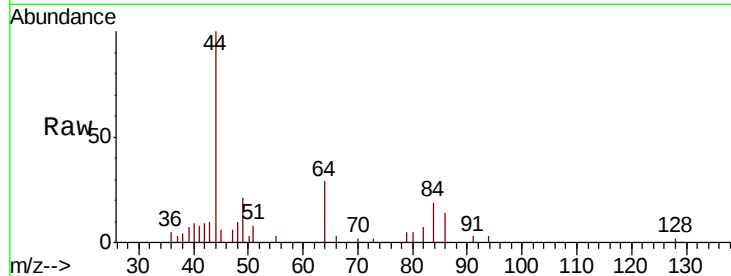
Ion Ratio Lower Upper

84 100

49 110.7 101.2 151.8

51 26.8 29.5 44.3#

86 71.4 52.3 78.5

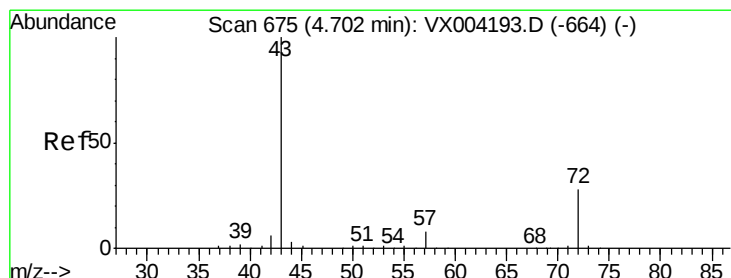
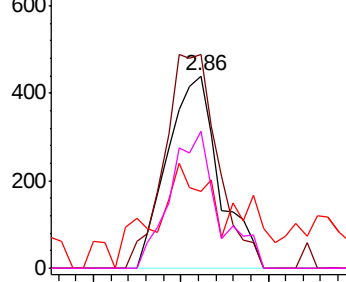


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: Below Cal

RT: 4.70 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX004248.D

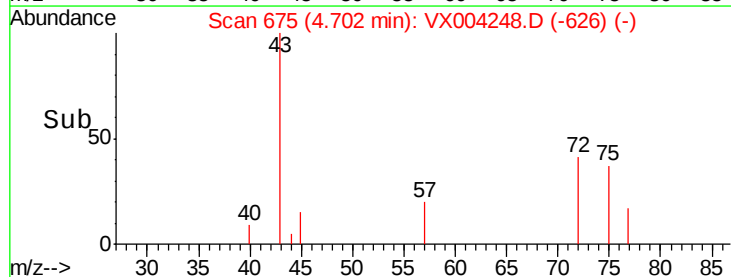
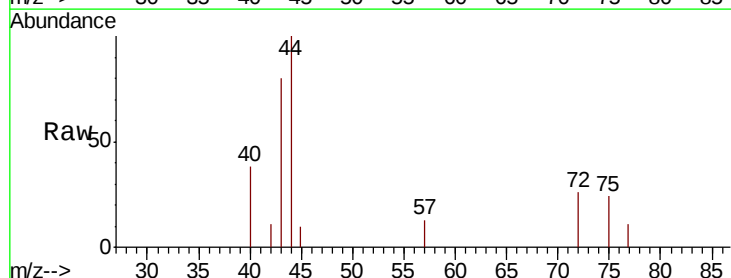
Acq: 24 Aug 2018 15:49

Tgt Ion: 43 Resp: 650

Ion Ratio Lower Upper

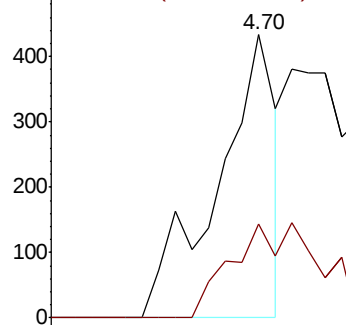
43 100

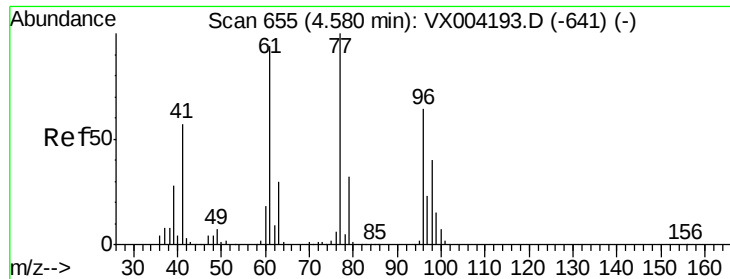
72 33.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.32 ug/l

RT: 4.76 min Scan# 684

Delta R.T. 0.18 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampled :

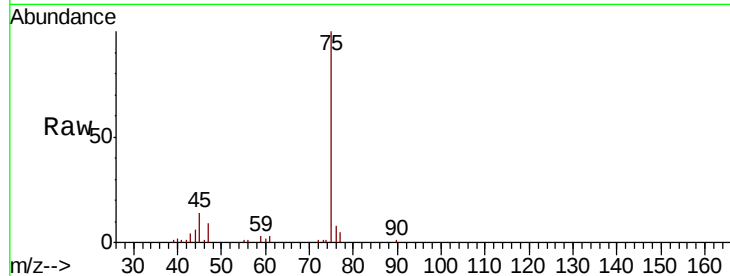
TMW-2

Tot Ion: 77 Resp: 1553

Ion Ratio Lower Upper

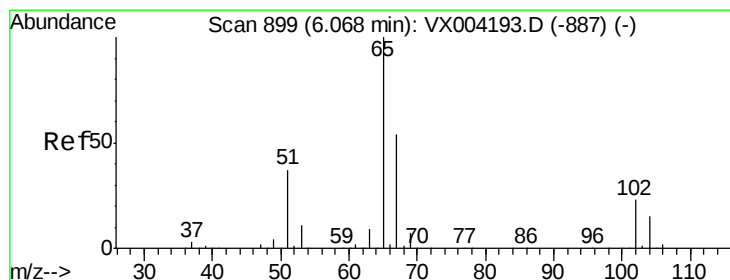
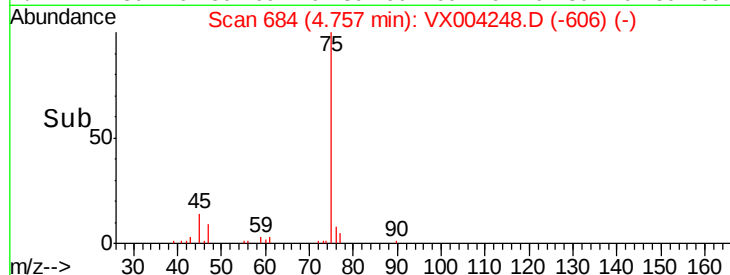
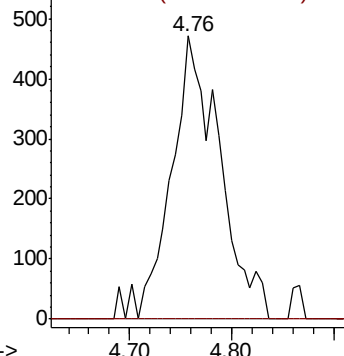
77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.06 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004248.D

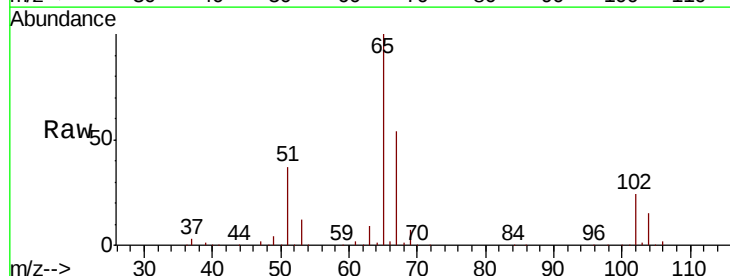
Acq: 24 Aug 2018 15:49

Tgt Ion: 65 Resp: 200554

Ion Ratio Lower Upper

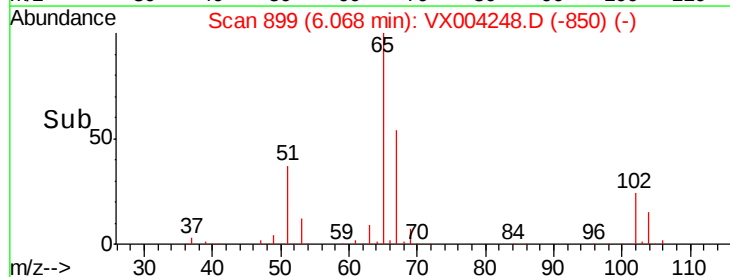
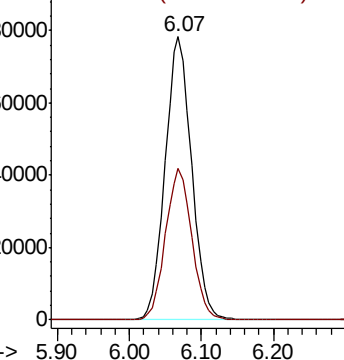
65 100

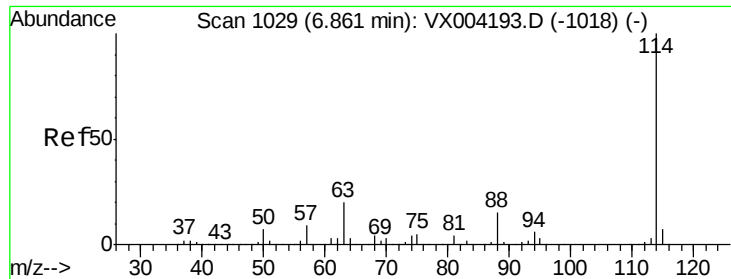
67 53.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

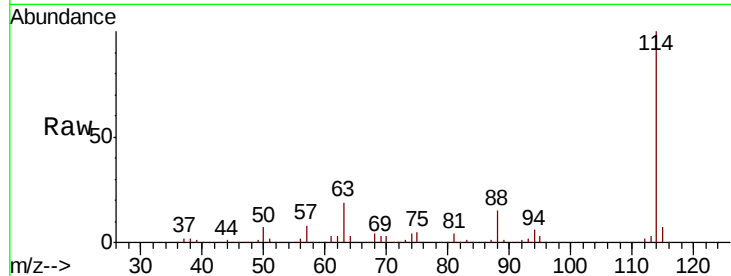




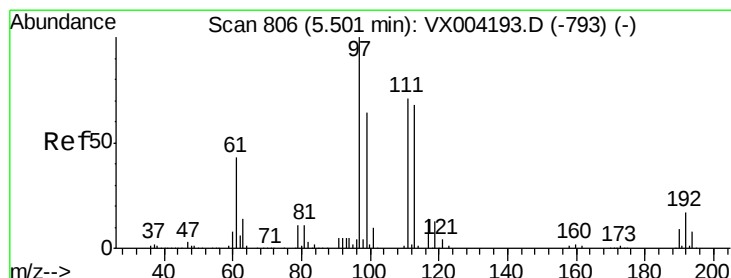
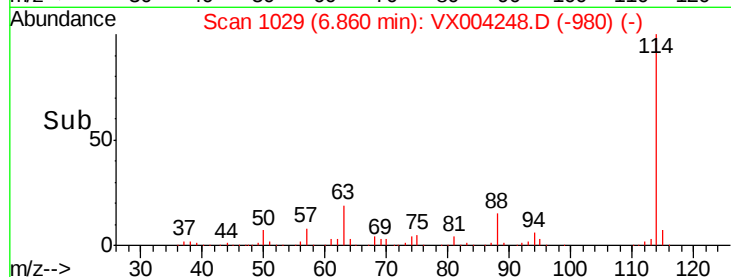
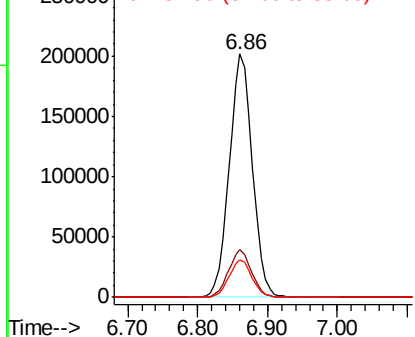
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004248.D
 Acq: 24 Aug 2018 15:49

Instrument :
 MSVOA_X
 ClientSampled :
 TMW-2

Tot Ion:114 Resp: 462361
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.0
 88 15.5 0.0 30.4

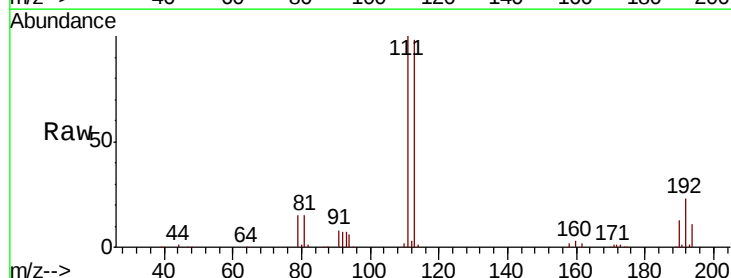


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

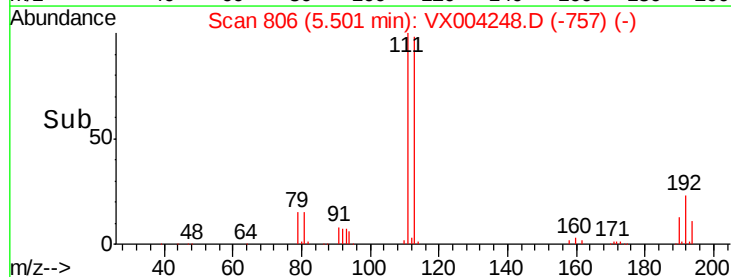
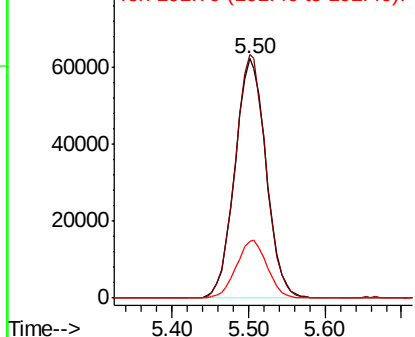


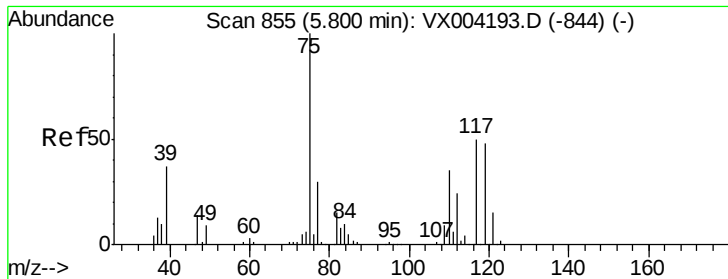
#35
 Dibromofluoromethane
 Concen: 51.03 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004248.D
 Acq: 24 Aug 2018 15:49

Tgt Ion:113 Resp: 175513
 Ion Ratio Lower Upper
 113 100
 111 100.6 82.4 123.6
 192 23.9 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





#36

1,1-Dichloropropene

Concen: 3.78 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampled :

TMW-2

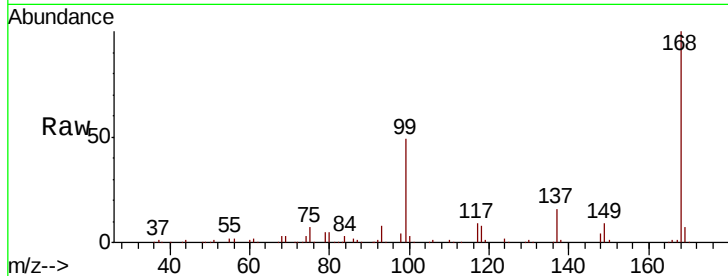
Tot Ion: 75 Resp: 19652

Ion Ratio Lower Upper

75 100

110 9.1 18.0 54.0#

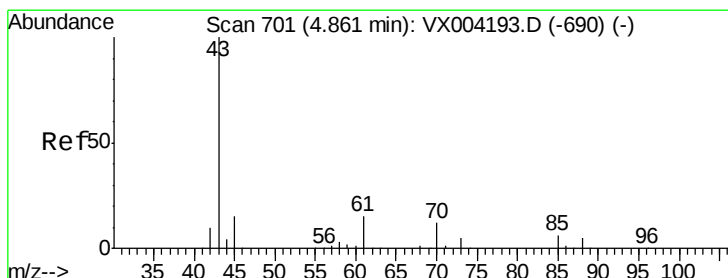
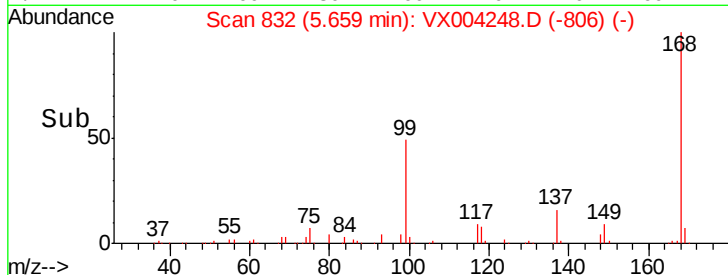
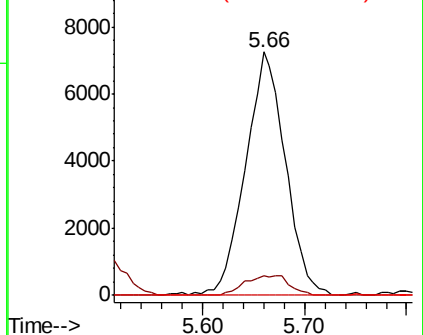
77 0.0 24.6 36.8#



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



#37

Ethyl Acetate

Concen: 0.20 ug/l

RT: 4.75 min Scan# 682

Delta R.T. -0.12 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

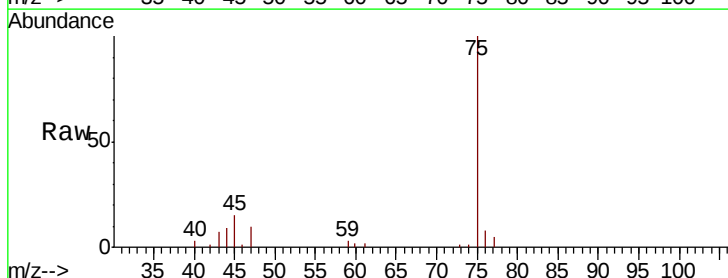
Tgt Ion: 43 Resp: 1038

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

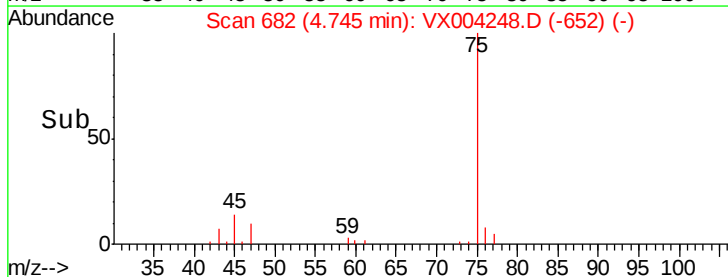
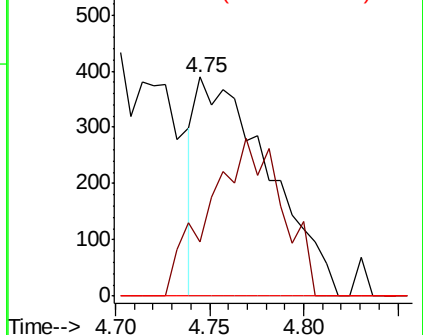
70 0.0 9.0 13.6#

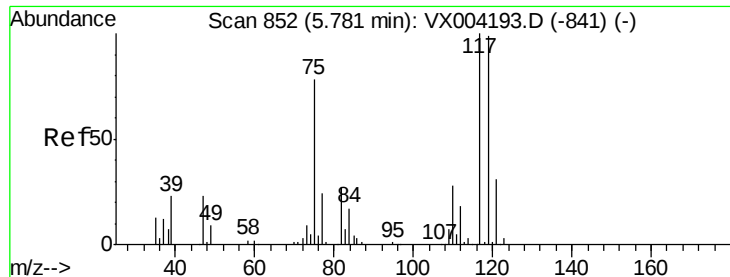


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.21 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

TMW-2

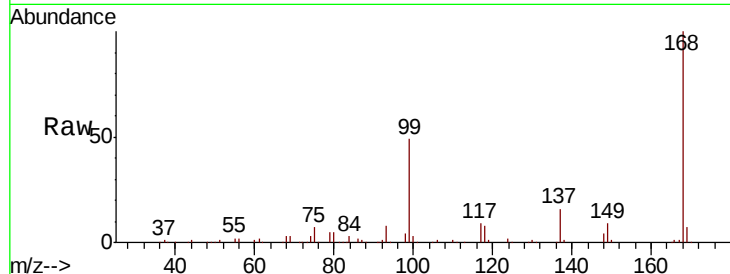
Tot Ion:117 Resp: 25490

Ion Ratio Lower Upper

117 100

119 6.5 78.8 118.2#

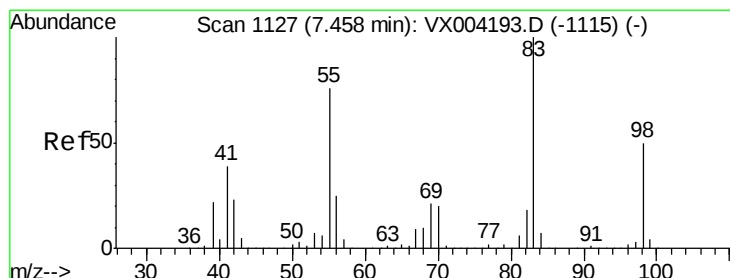
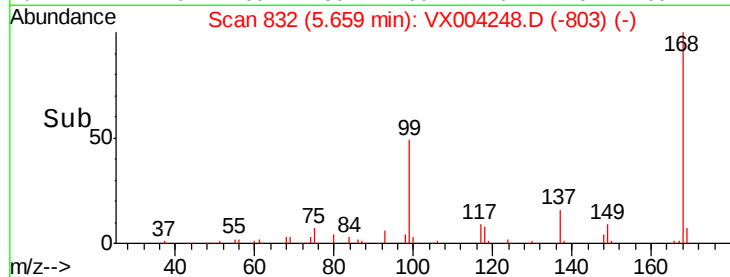
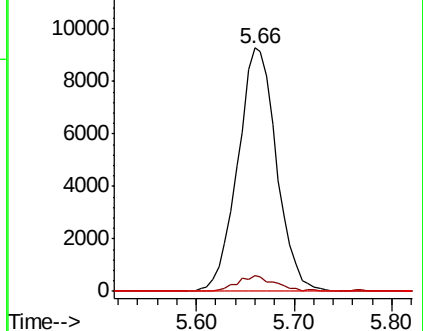
121 0.0 24.9 37.3#



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



#39

Methylcyclohexane

Concen: 0.24 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.01 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

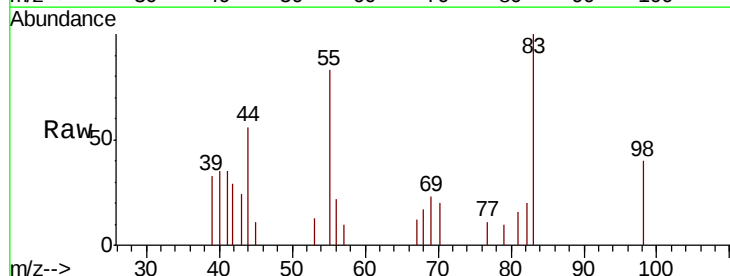
Tgt Ion: 83 Resp: 1412

Ion Ratio Lower Upper

83 100

55 83.0 61.0 91.4

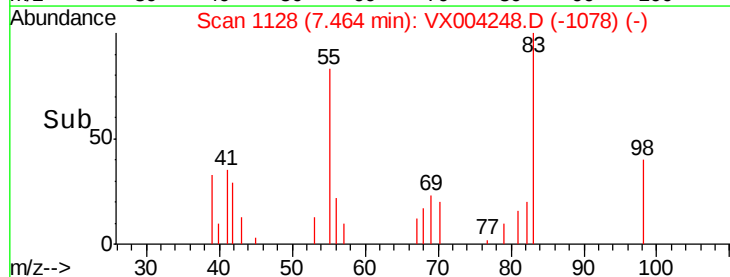
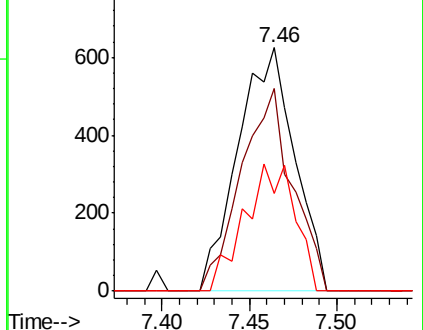
98 40.3 39.6 59.4

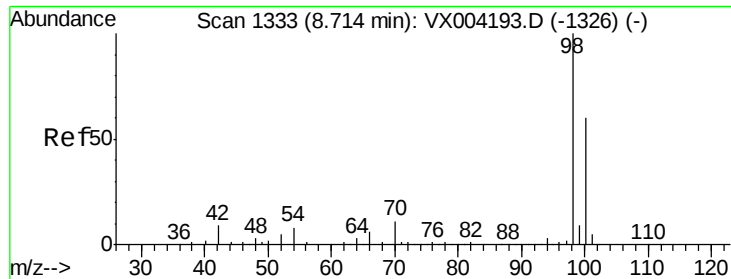


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 49.92 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

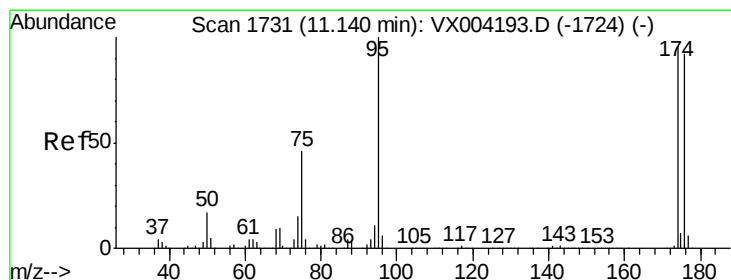
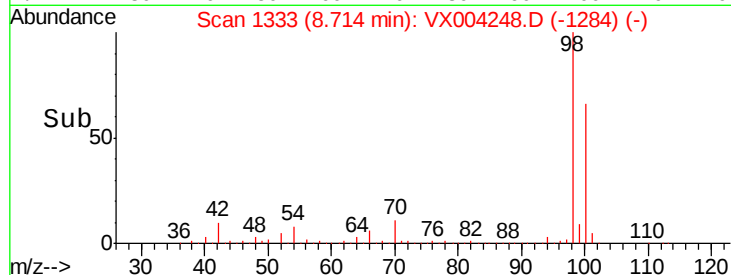
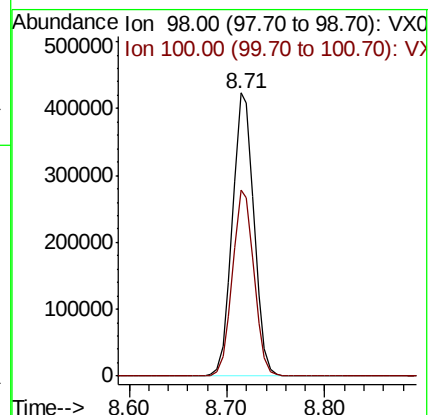
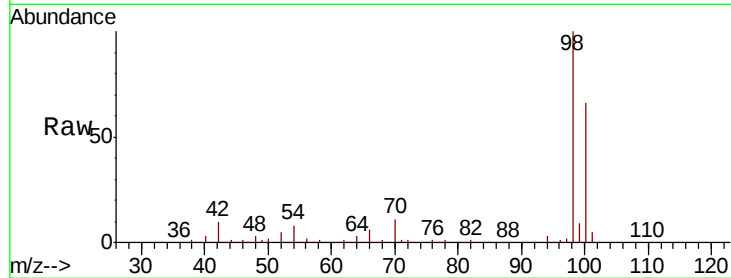
TMW-2

Tot Ion: 98 Resp: 648177

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004248.D

Acq: 24 Aug 2018 15:49

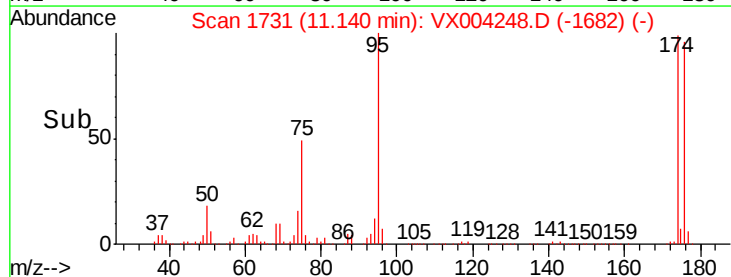
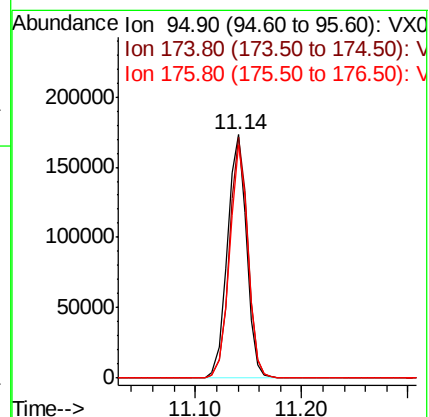
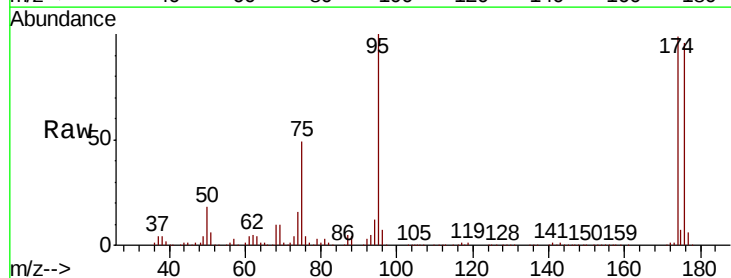
Tgt Ion: 95 Resp: 218304

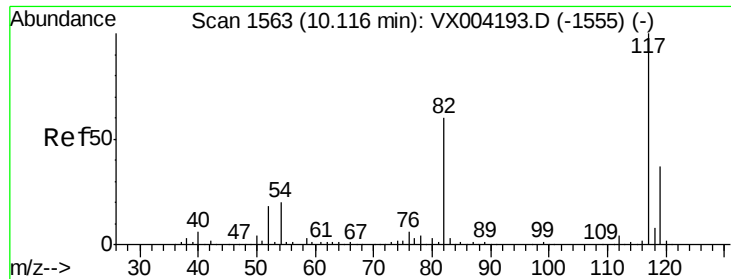
Ion Ratio Lower Upper

95 100

174 95.7 0.0 185.2

176 91.8 0.0 178.6

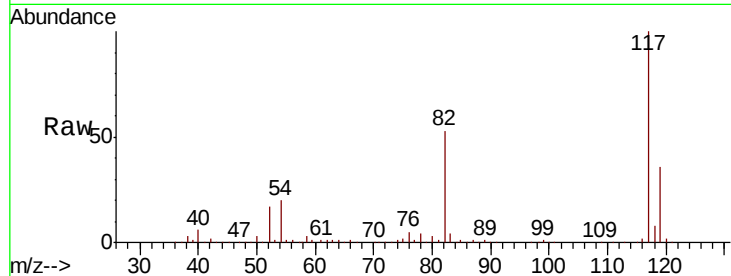




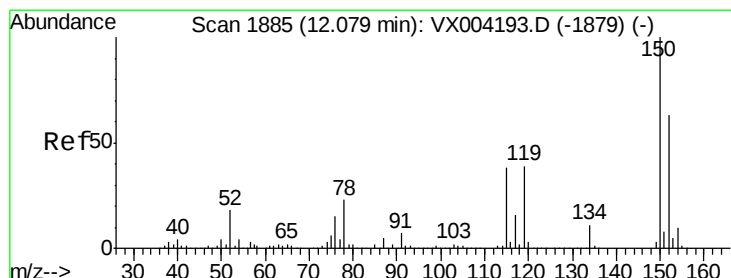
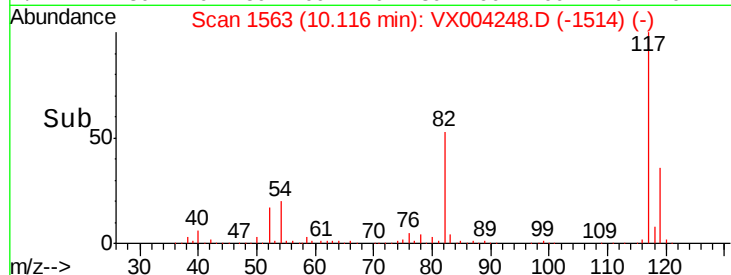
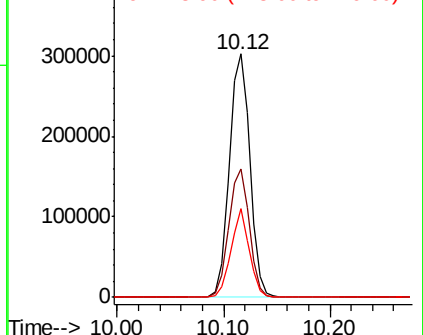
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004248.D
Acq: 24 Aug 2018 15:49

Instrument :
MSVOA_X
ClientSampleId :
TMW-2

Tot Ion:117 Resp: 410083
Ion Ratio Lower Upper
117 100
82 52.7 47.8 71.6
119 36.3 29.3 43.9

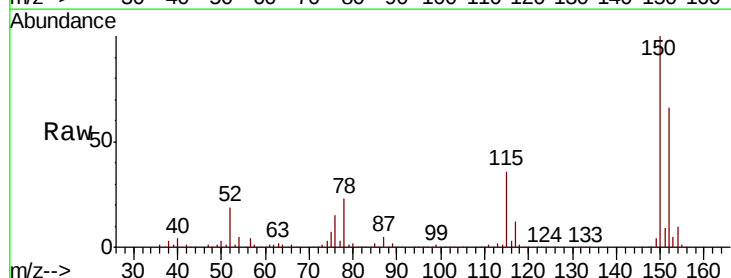


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

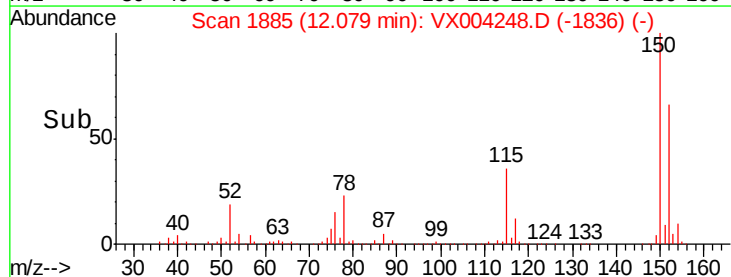
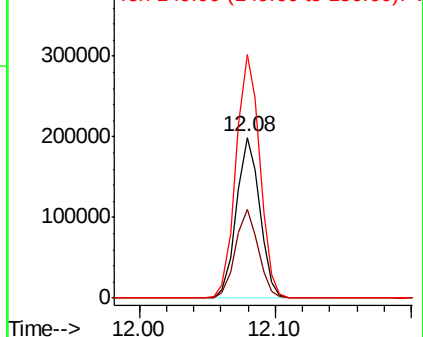


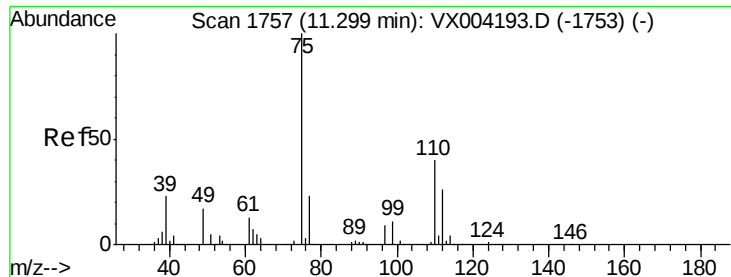
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004248.D
Acq: 24 Aug 2018 15:49

Tgt Ion:152 Resp: 239250
Ion Ratio Lower Upper
152 100
115 53.9 39.0 117.0
150 154.0 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

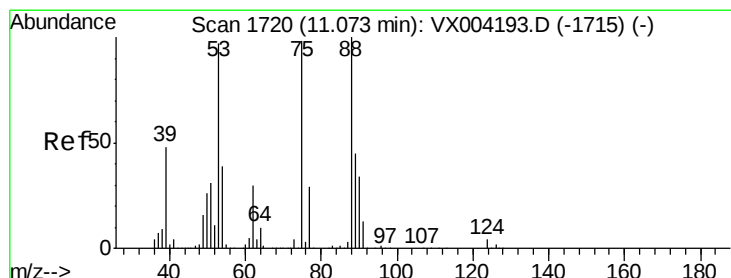
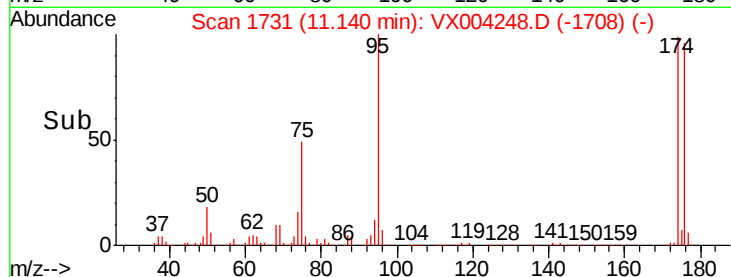
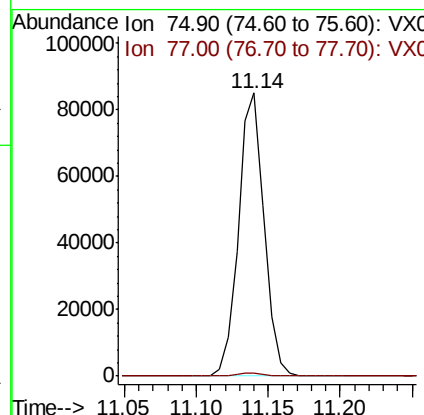
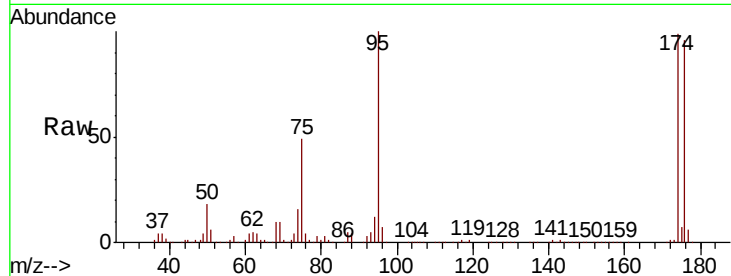




#76
 1,2,3-Trichloropropane
 Concen: 21.68 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX004248.D
 Acq: 24 Aug 2018 15:49

Instrument :
 MSVOA_X
 ClientSampled :
 TMW-2

Tot Ion: 75 Resp: 105485
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.34 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.07 min
 Lab File: VX004248.D
 Acq: 24 Aug 2018 15:49

Tgt Ion: 75 Resp: 105485
 Ion Ratio Lower Upper
 75 100
 53 0.1 80.1 120.1#
 89 0.0 37.2 55.8#

