

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082018\
 Data File : VX004149.D
 Acq On : 20 Aug 2018 13:36
 Operator : JC/MD
 Sample : J4541-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS039MW002-180815

Quant Time: Aug 21 01:01:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	281241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	428765	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	408059	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216532	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	214361	54.10	ug/l	0.00
Spiked Amount			Recovery	=	108.20%	
35) Dibromofluoromethane	5.51	113	187331	58.38	ug/l	0.00
Spiked Amount			Recovery	=	116.76%	
50) Toluene-d8	8.71	98	651490	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	11.14	95	211413	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	

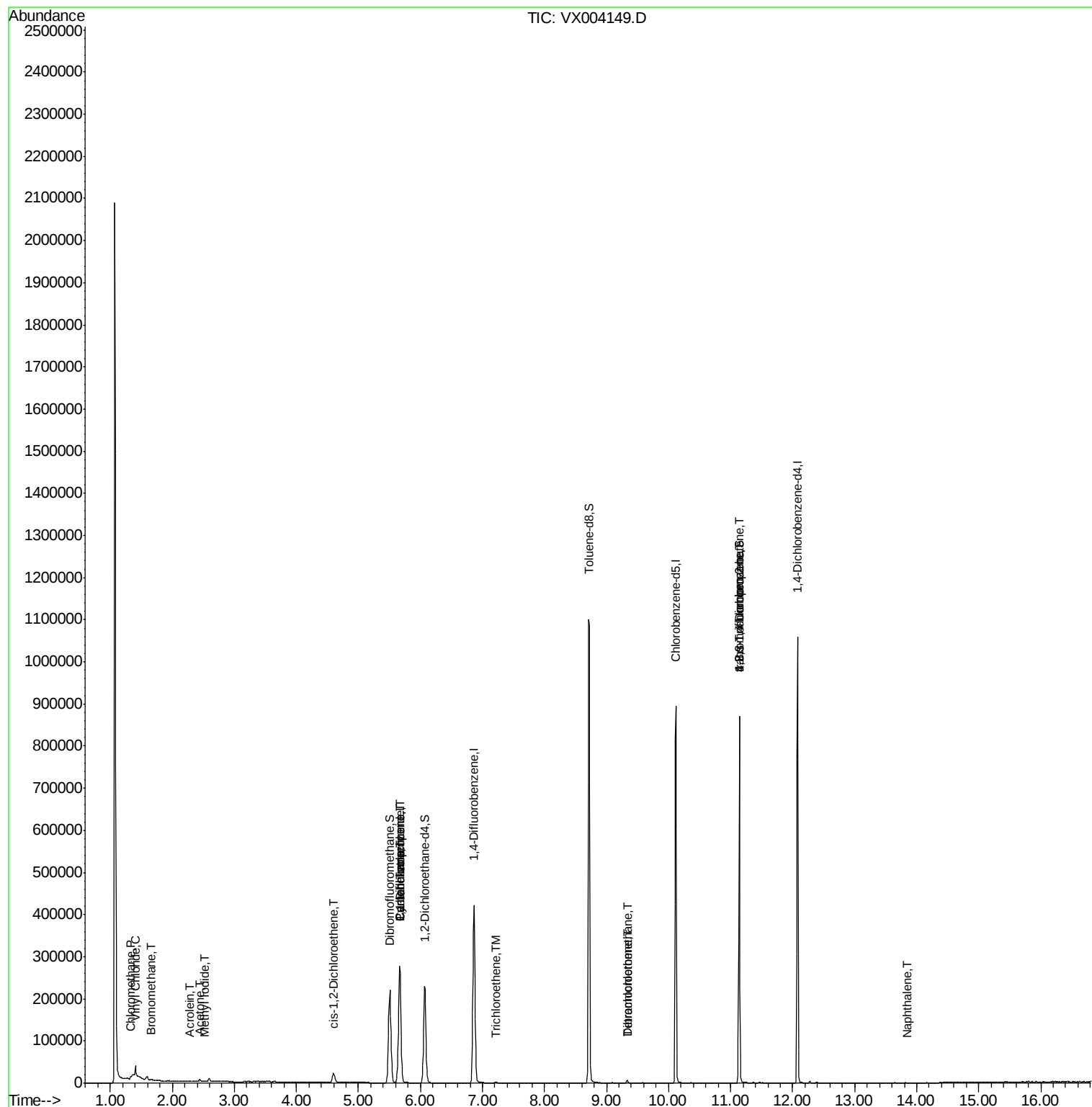
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	6322	1.88	ug/l	98
4) Vinyl Chloride	1.40	62	15344	4.22	ug/l #	68
5) Bromomethane	1.65	94	942	0.33	ug/l	99
6) Chloroethane	1.91	64	549	Below Cal	#	82
10) Methyl Iodide	2.53	142	592	5.17	ug/l #	94
13) Acrolein	2.29	56	80	11.09	ug/l #	1
16) Acetone	2.43	43	4960	2.41	ug/l	90
20) Methylene Chloride	2.86	84	630	Below Cal	#	87
27) cis-1,2-Dichloroethene	4.60	96	13733	3.63	ug/l	91
31) Cyclohexane	5.66	56	5030	0.92	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19069	3.91	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24708	5.21	ug/l #	16
44) Trichloroethene	7.22	130	816	0.21	ug/l	95
60) Dibromochloromethane	9.34	129	965	0.26	ug/l #	11
64) Tetrachloroethene	9.34	164	1192	0.31	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	103956	23.94	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	103956	74.11	ug/l #	9
95) Naphthalene	13.84	128	347	1.17	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

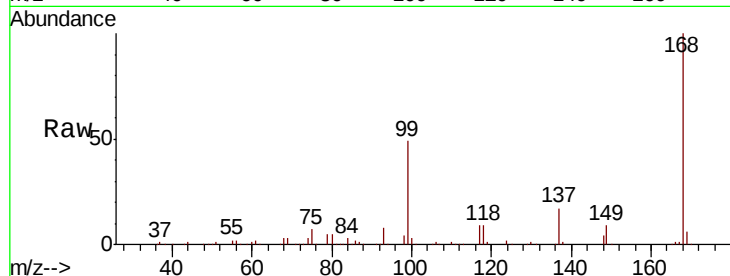
SS039MW002-180815

Tot Ion:168 Resp: 281241

Ion Ratio Lower Upper

168 100

99 48.8 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

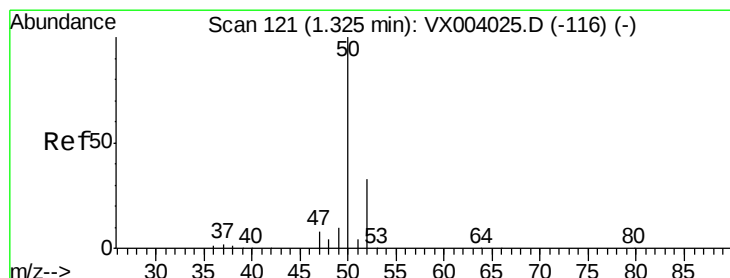
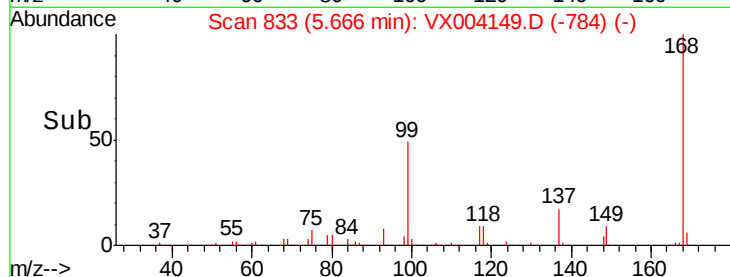
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.88 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004149.D

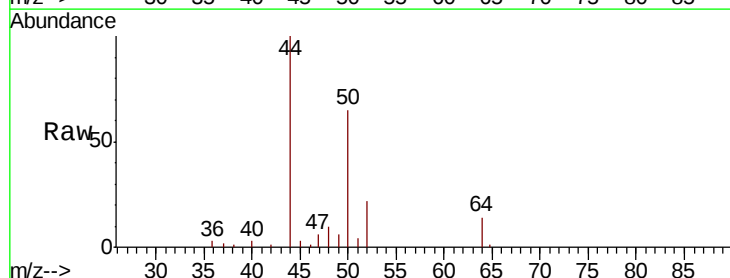
Acq: 20 Aug 2018 13:36

Tgt Ion: 50 Resp: 6322

Ion Ratio Lower Upper

50 100

52 34.5 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

5000

4000

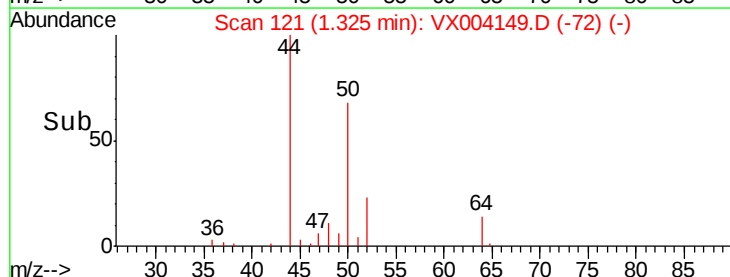
3000

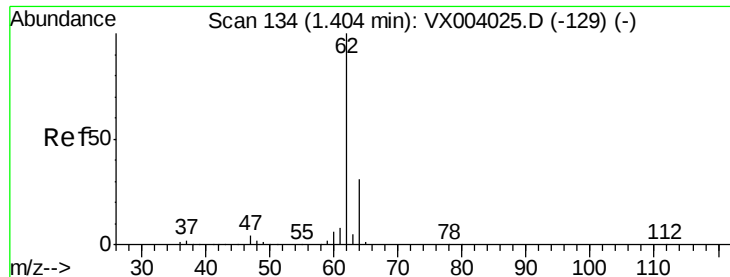
2000

1000

0

Time--> 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 4.22 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

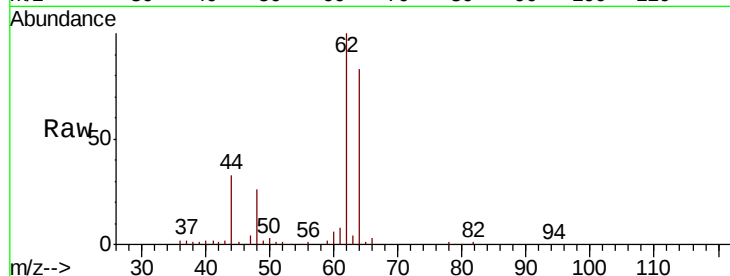
SS039MW002-180815

Tot Ion: 62 Resp: 15344

Ion Ratio Lower Upper

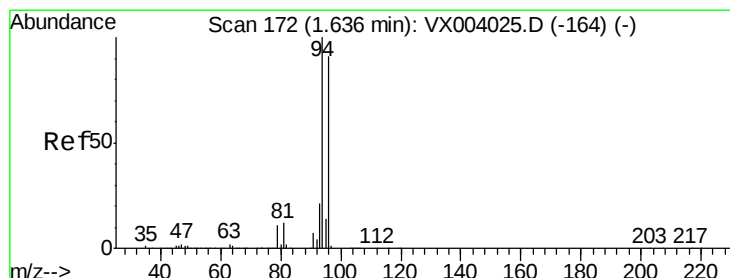
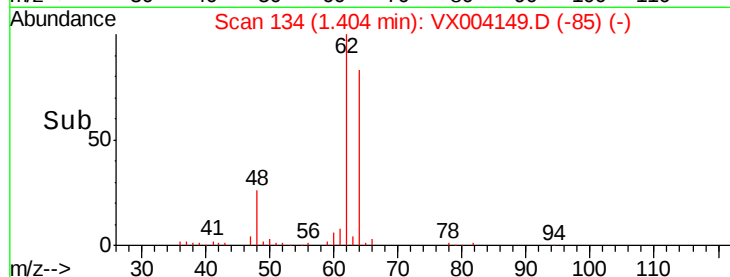
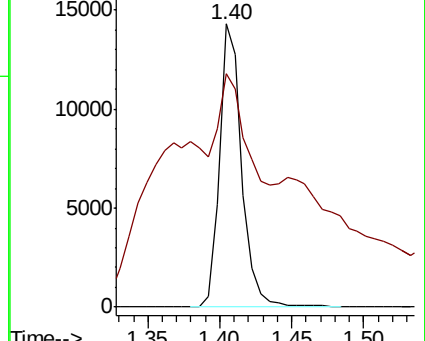
62 100

64 50.4 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.33 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004149.D

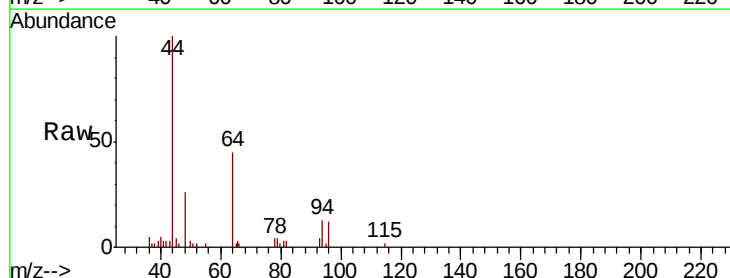
Acq: 20 Aug 2018 13:36

Tgt Ion: 94 Resp: 942

Ion Ratio Lower Upper

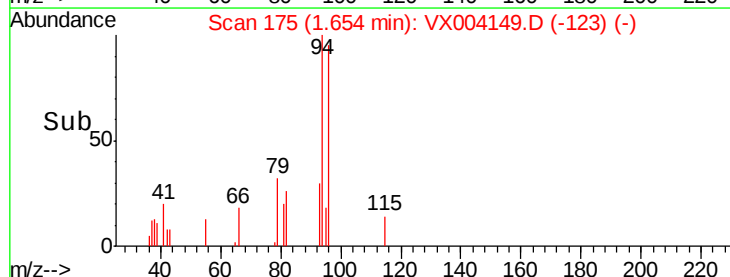
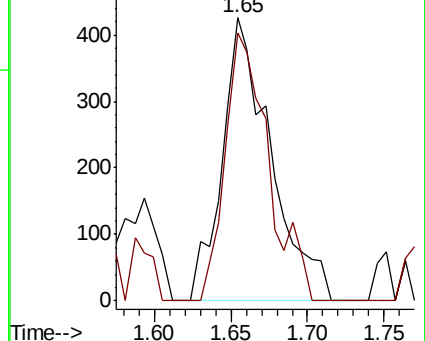
94 100

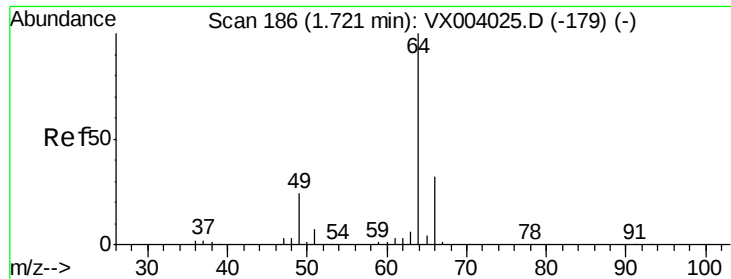
96 94.6 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.91 min Scan# 217

Delta R.T. 0.19 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

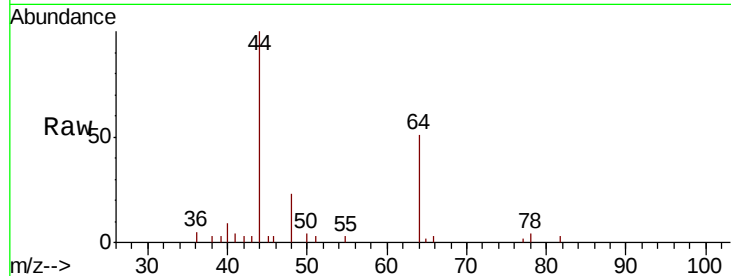
SS039MW002-180815

Tot Ion: 64 Resp: 549

Ion Ratio Lower Upper

64 100

66 23.1 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

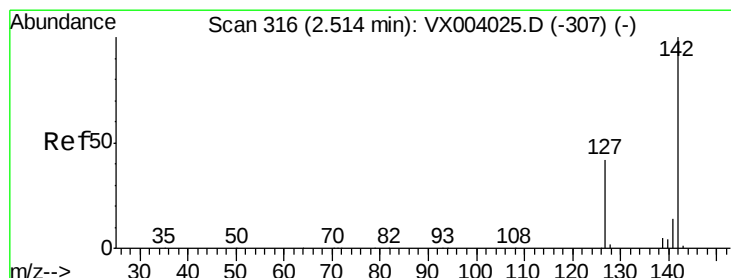
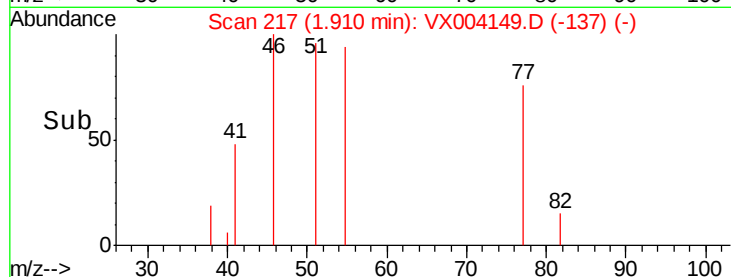
1.91

1000

500

0

Time-->



#10

Methyl Iodide

Concen: 5.17 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

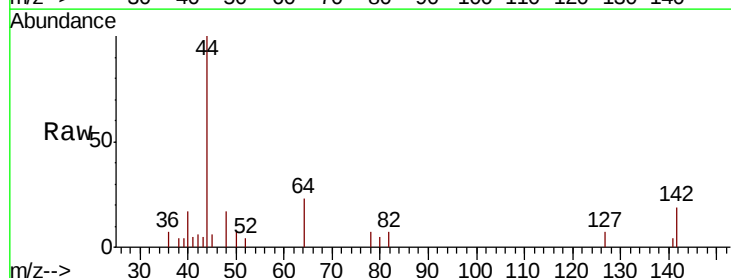
Tgt Ion: 142 Resp: 592

Ion Ratio Lower Upper

142 100

127 43.6 33.1 49.7

141 8.1 11.1 16.7#



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

400

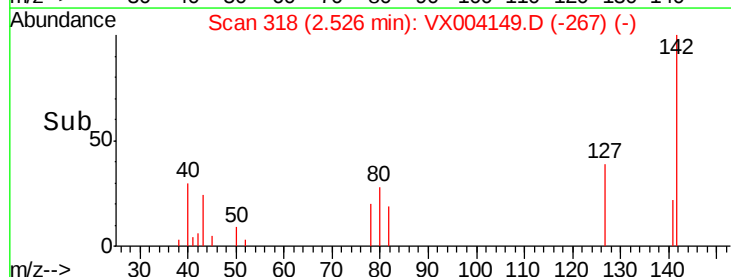
300

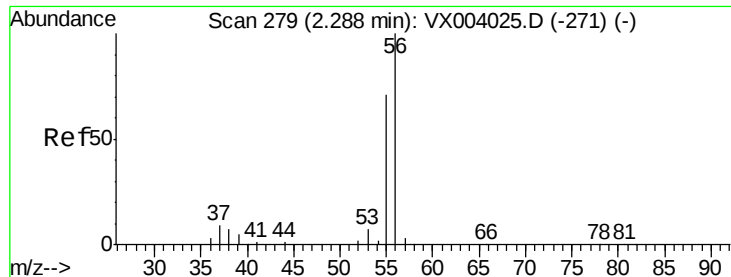
200

100

0

Time-->





#13

Acrolein

Concen: 11.09 ug/l

RT: 2.29 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

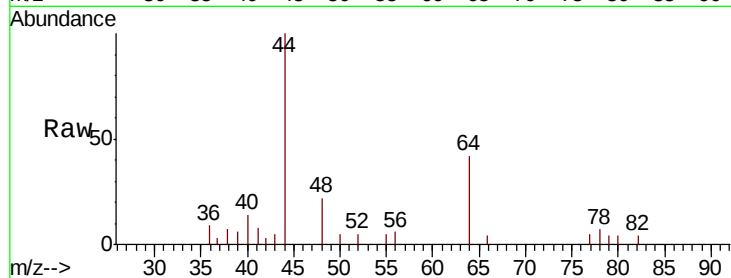
SS039MW002-180815

Tot Ion: 56 Resp: 80

Ion Ratio Lower Upper

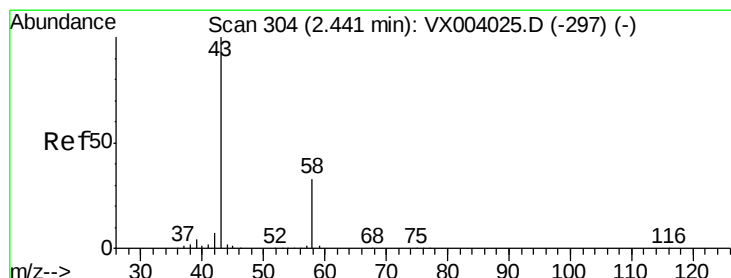
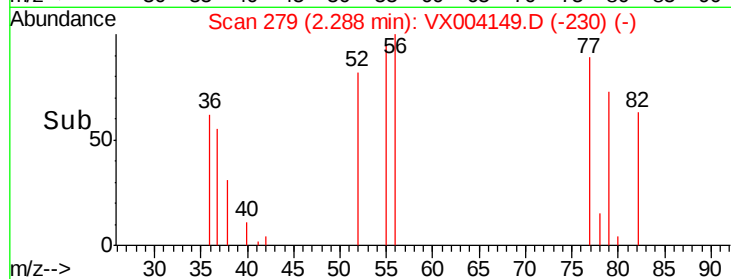
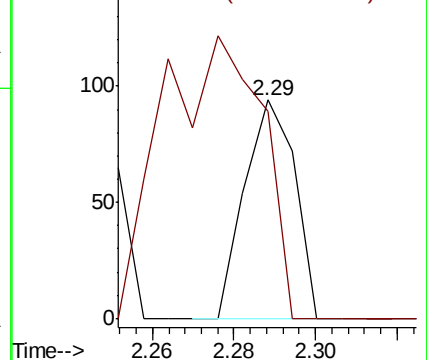
56 100

55 285.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.41 ug/l

RT: 2.43 min Scan# 303

Delta R.T. -0.01 min

Lab File: VX004149.D

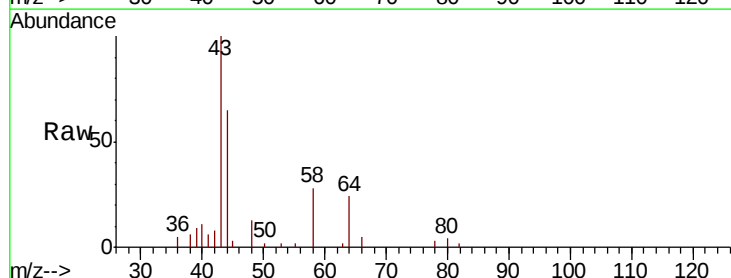
Acq: 20 Aug 2018 13:36

Tgt Ion: 43 Resp: 4960

Ion Ratio Lower Upper

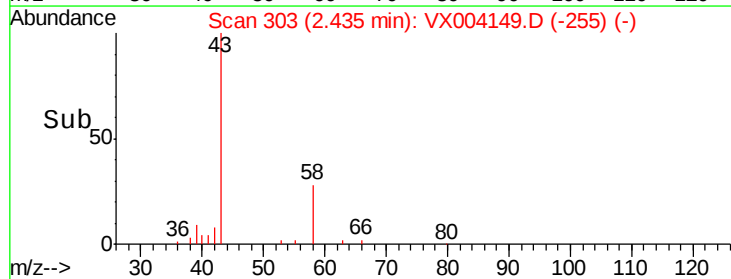
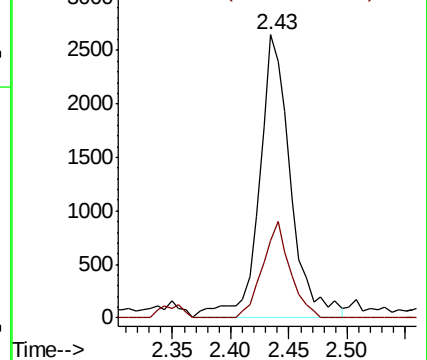
43 100

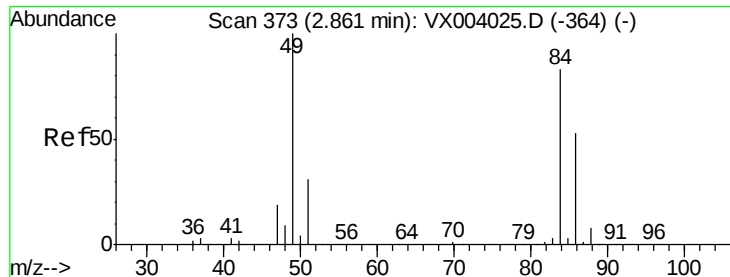
58 27.5 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

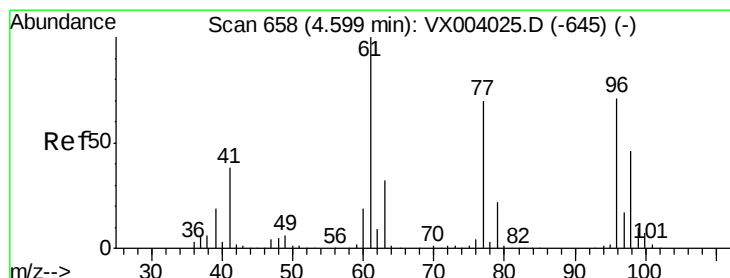
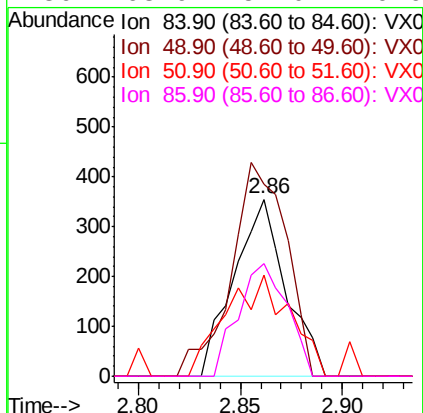
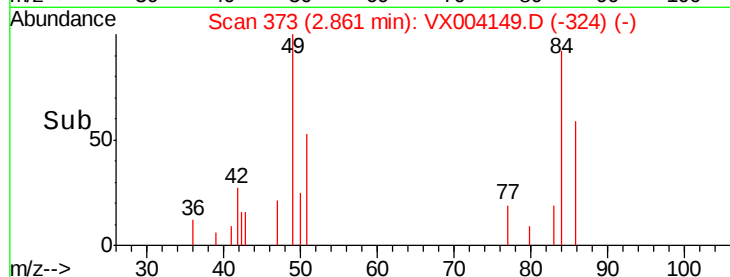
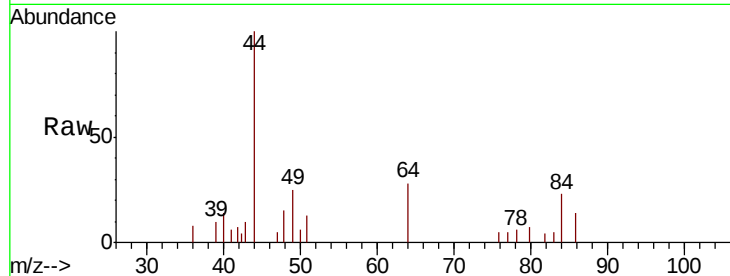




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004149.D
Acq: 20 Aug 2018 13:36

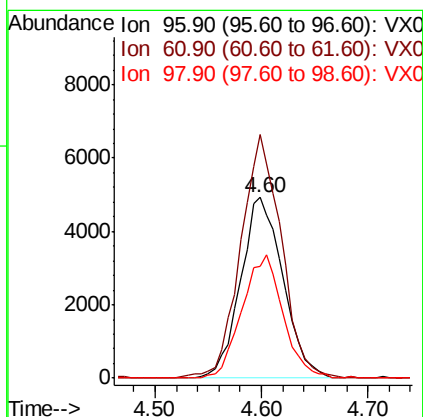
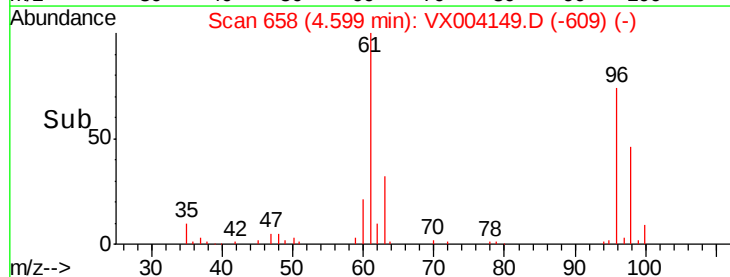
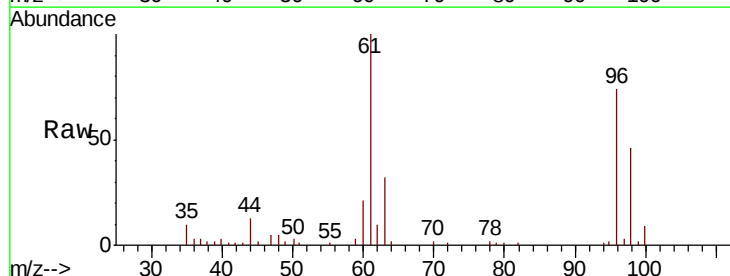
Instrument :
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SS039MW002-180815

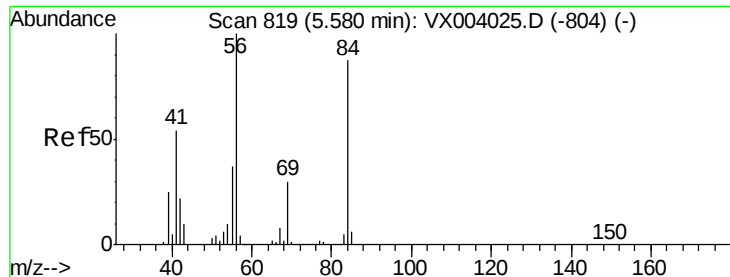
Tot Ion: 84 Resp: 630
Ion Ratio Lower Upper
84 100
49 108.5 98.9 148.3
51 57.5 29.9 44.9#
86 63.9 51.0 76.6



#27
cis-1,2-Dichloroethene
Concen: 3.63 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.00 min
Lab File: VX004149.D
Acq: 20 Aug 2018 13:36

Tgt Ion: 96 Resp: 13733
Ion Ratio Lower Upper
96 100
61 129.7 0.0 293.0
98 65.8 0.0 131.8

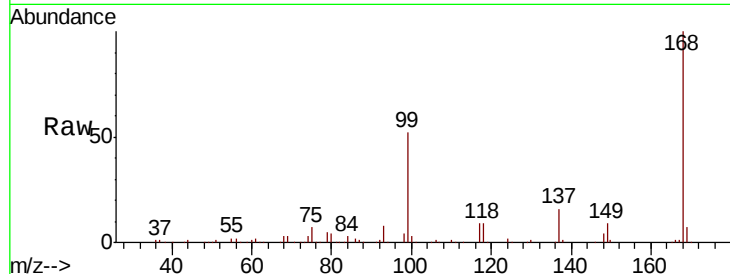




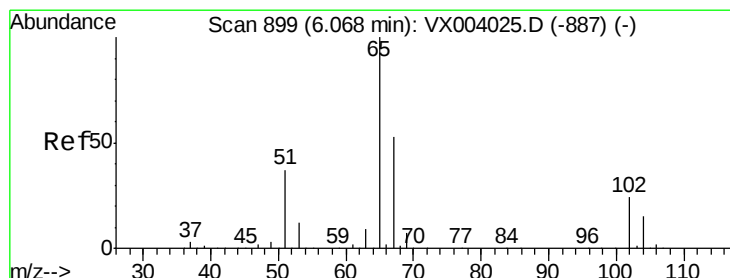
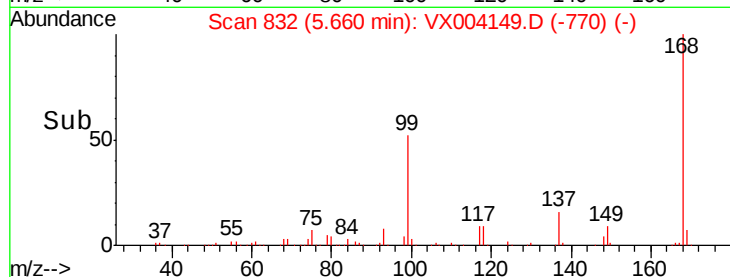
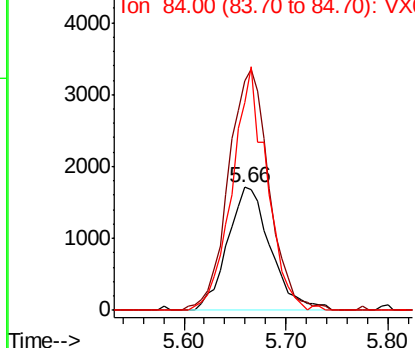
#31
Cyclohexane
Concen: 0.92 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX004149.D
Acq: 20 Aug 2018 13:36

Instrument :
MSVOA_X
ClientSampleId :
SS039MW002-180815

Tot Ion: 56 Resp: 5030
Ion Ratio Lower Upper
56 100
69 186.7 24.9 37.3#
84 168.4 71.7 107.5#

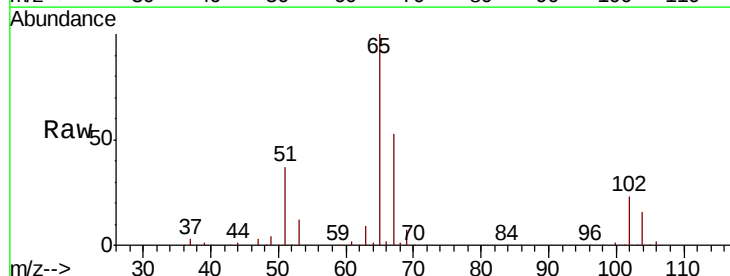


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

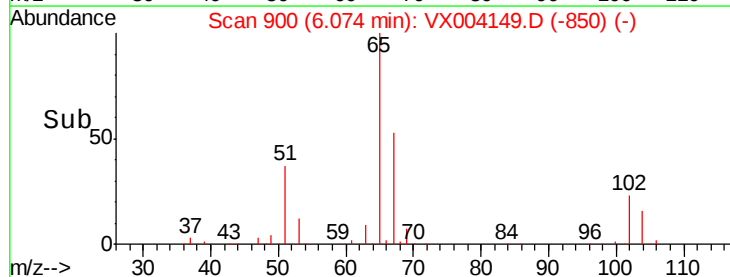
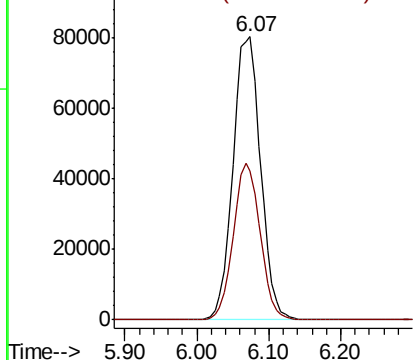


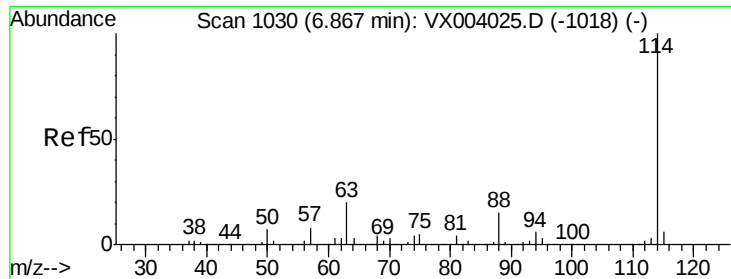
#33
1,2-Dichloroethane-d4
Concen: 54.10 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX004149.D
Acq: 20 Aug 2018 13:36

Tgt Ion: 65 Resp: 214361
Ion Ratio Lower Upper
65 100
67 53.6 0.0 105.8



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

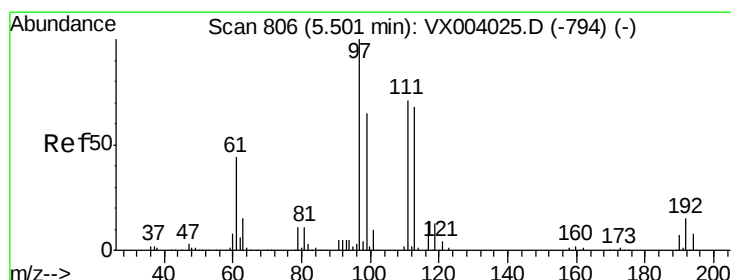
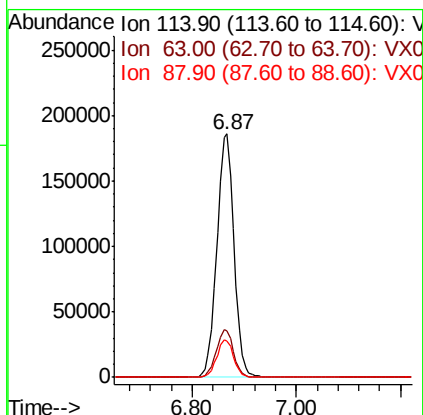
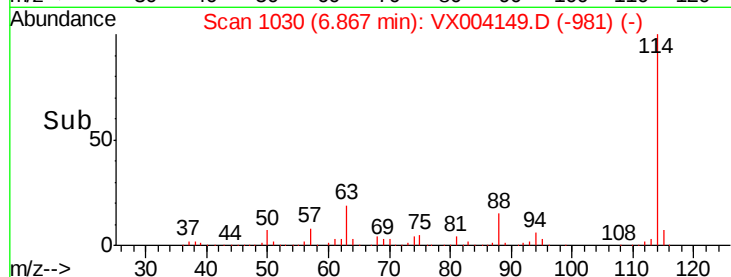
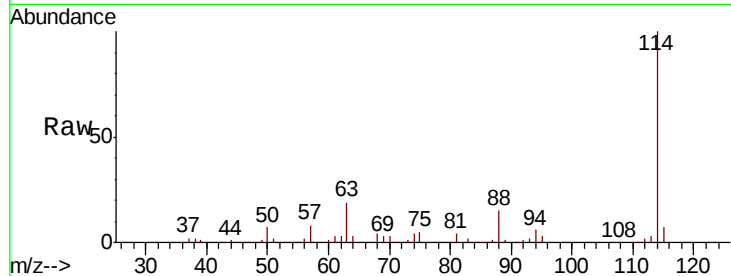




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX004149.D
 Acq: 20 Aug 2018 13:36

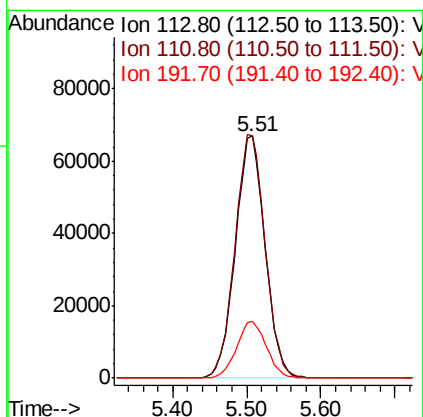
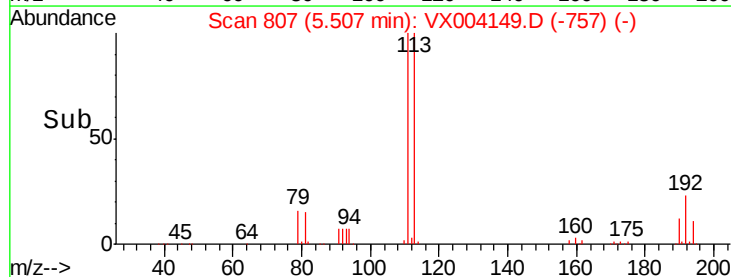
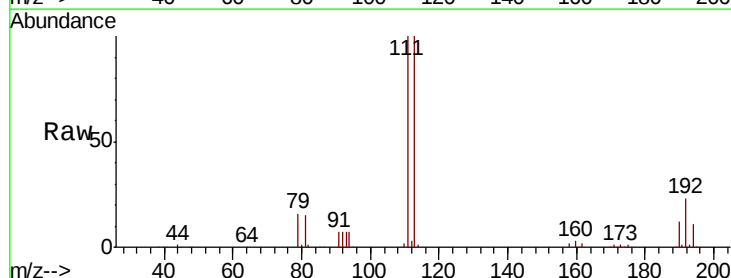
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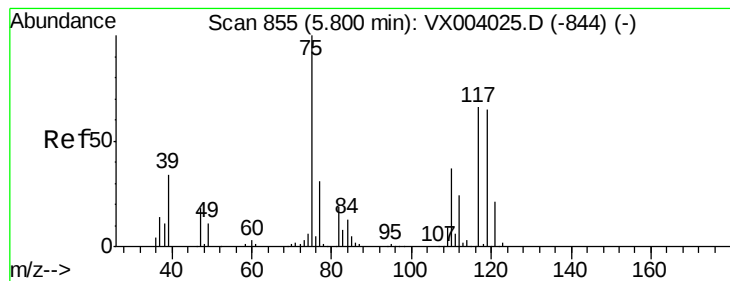
Tot Ion:114 Resp: 428765
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 15.1 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 58.38 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004149.D
 Acq: 20 Aug 2018 13:36

Tgt Ion:113 Resp: 187331
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.0 123.0
 192 23.5 19.0 28.4





#36

1,1-Dichloropropene

Concen: 3.91 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

SS039MW002-180815

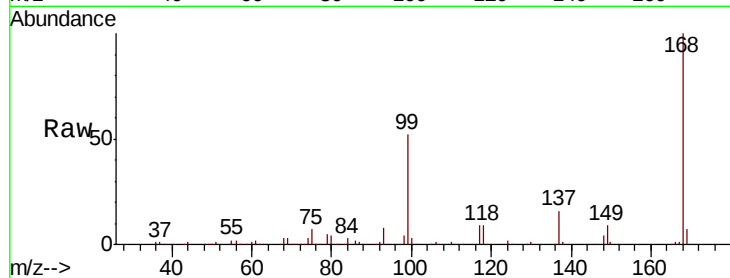
Tot Ion: 75 Resp: 19069

Ion Ratio Lower Upper

75 100

110 9.5 18.2 54.6#

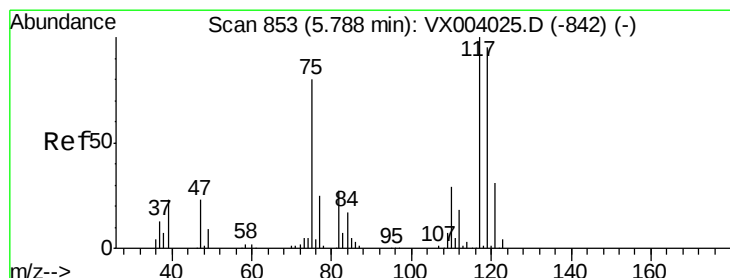
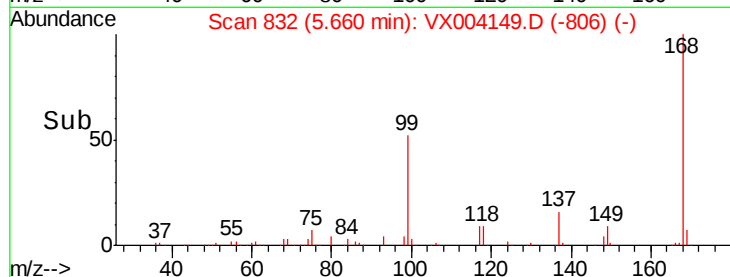
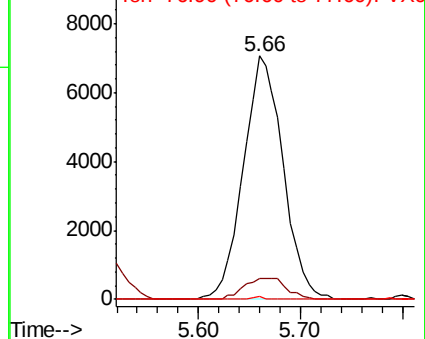
77 0.3 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.21 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

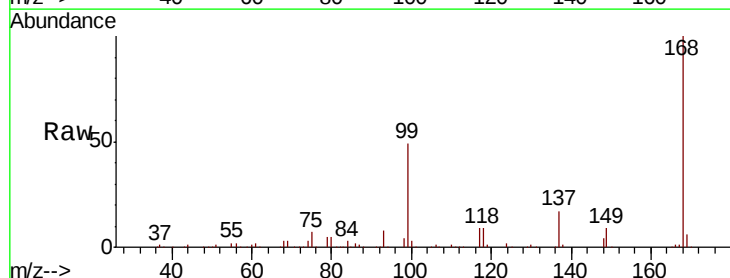
Tgt Ion: 117 Resp: 24708

Ion Ratio Lower Upper

117 100

119 6.8 79.5 119.3#

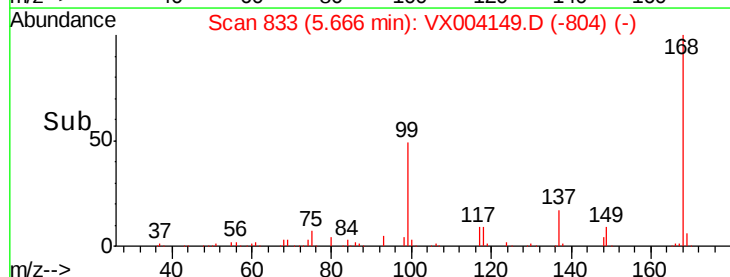
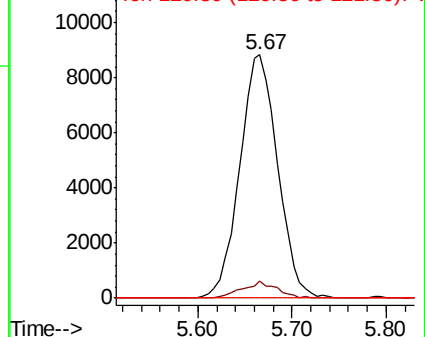
121 0.0 25.0 37.4#

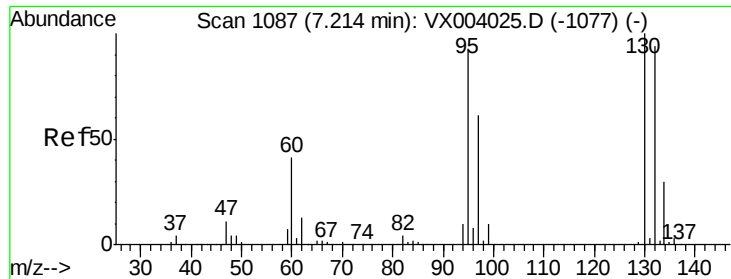


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

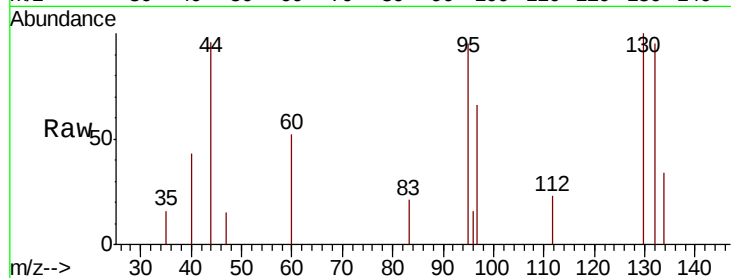




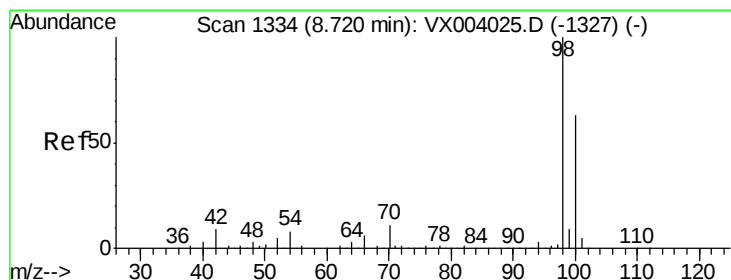
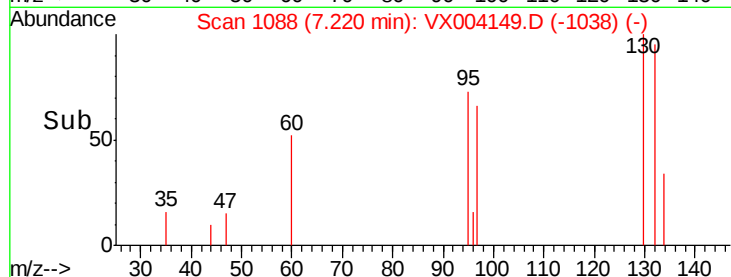
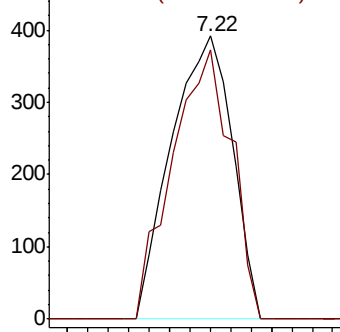
#44
 Trichloroethene
 Concen: 0.21 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX004149.D
 Acq: 20 Aug 2018 13:36

Instrument :
 MSVOA_X
 ClientSampleId :
 SS039MW002-180815

Tot Ion:130 Resp: 816
 Ion Ratio Lower Upper
 130 100
 95 94.9 0.0 199.4

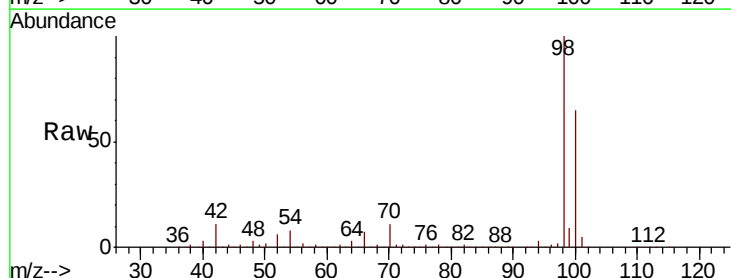


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

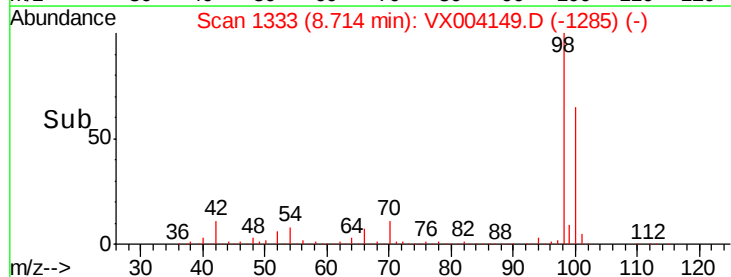
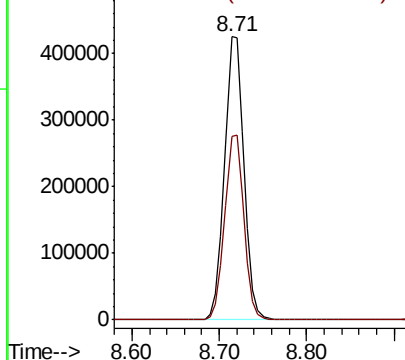


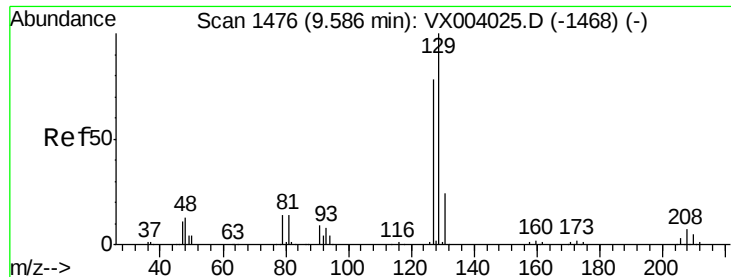
#50
 Toluene-d8
 Concen: 50.07 ug/l
 RT: 8.71 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VX004149.D
 Acq: 20 Aug 2018 13:36

Tgt Ion: 98 Resp: 651490
 Ion Ratio Lower Upper
 98 100
 100 65.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.26 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

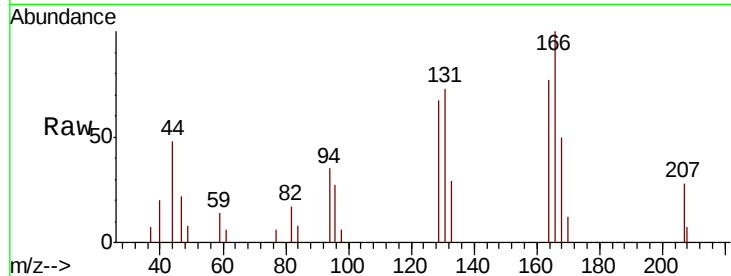
SS039MW002-180815

Tot Ion:129 Resp: 965

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

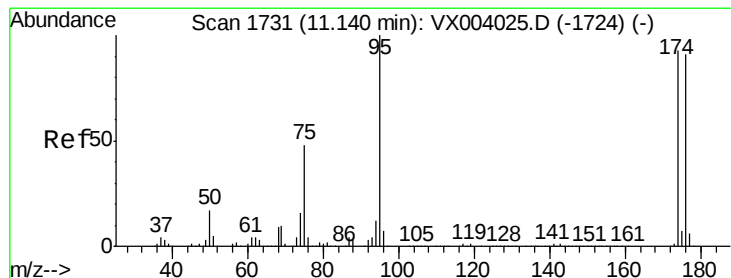
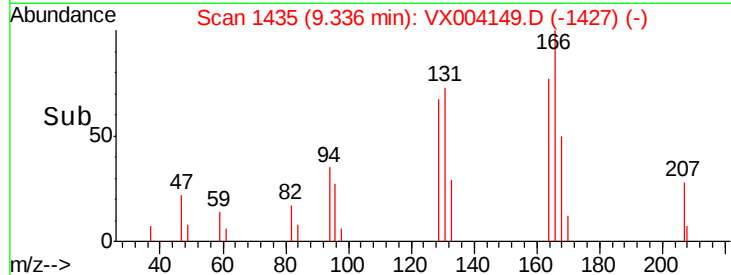
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.80 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

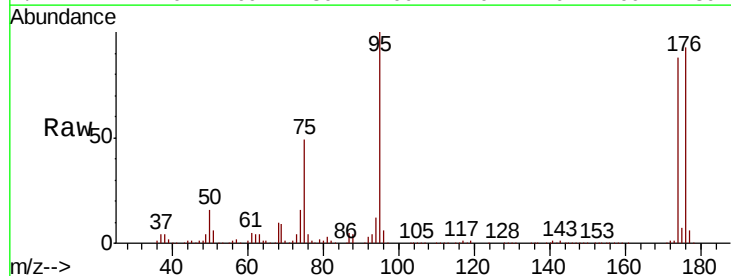
Tgt Ion: 95 Resp: 211413

Ion Ratio Lower Upper

95 100

174 91.8 0.0 182.8

176 92.3 0.0 179.0



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

11.14

200000

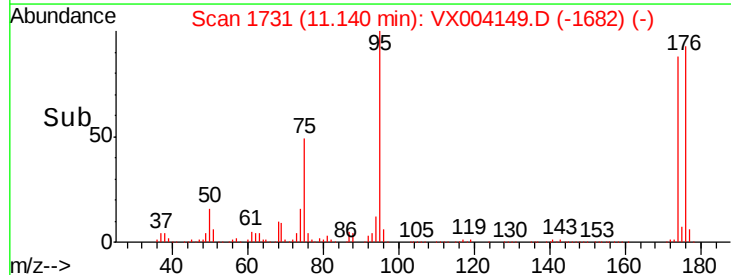
150000

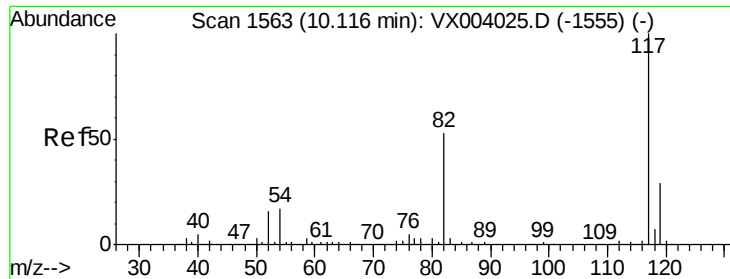
100000

50000

0

Time-->

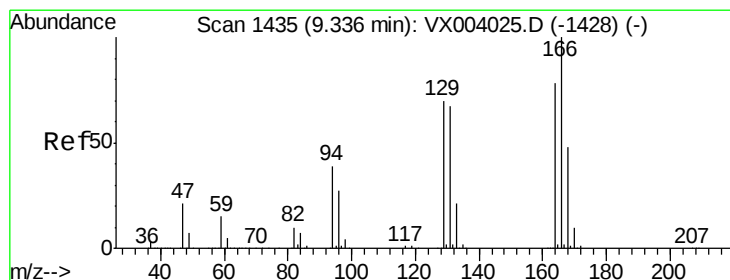
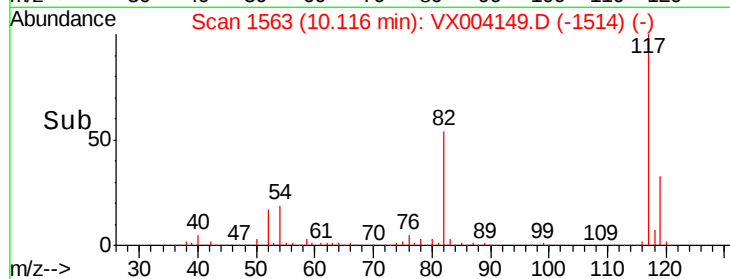
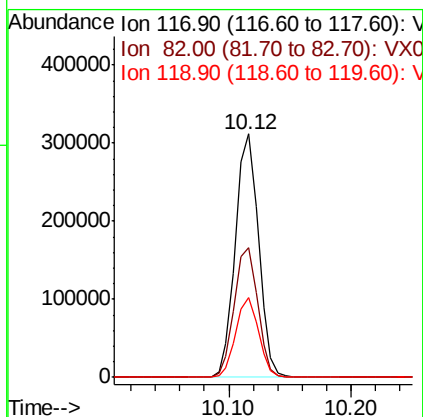
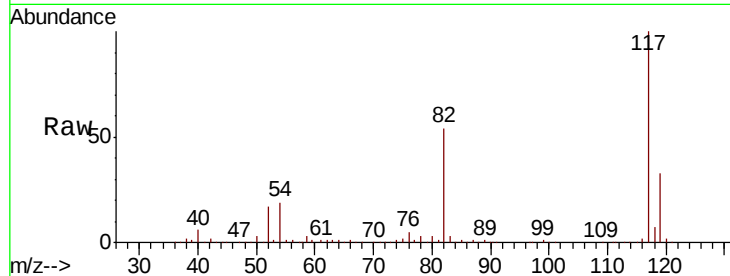




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004149.D
Acq: 20 Aug 2018 13:36

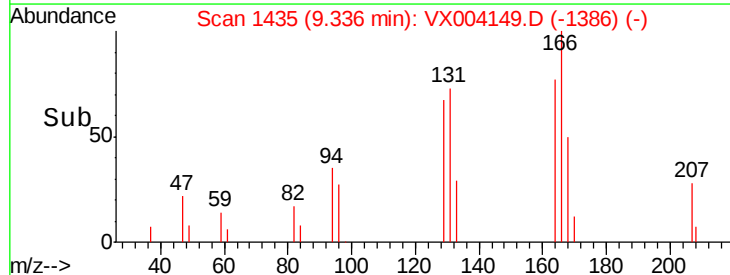
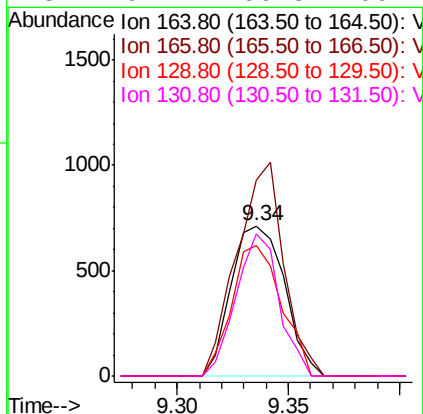
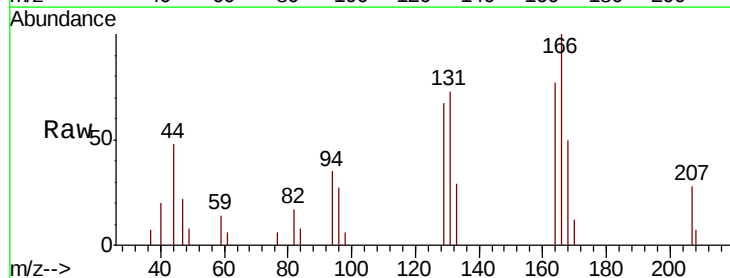
Instrument :
MSVOA_X
ClientSampleId :
SS039MW002-180815

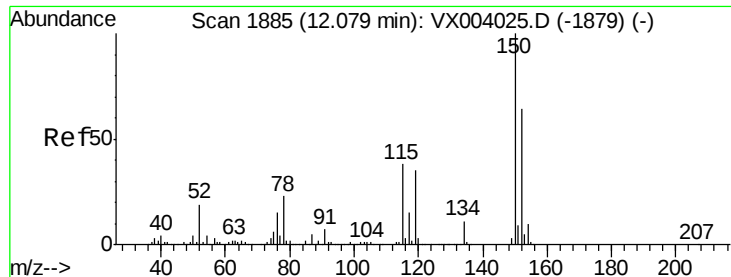
Tot Ion:117 Resp: 408059
Ion Ratio Lower Upper
117 100
82 53.5 45.4 68.0
119 32.7 26.6 40.0



#64
Tetrachloroethene
Concen: 0.31 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX004149.D
Acq: 20 Aug 2018 13:36

Tgt Ion:164 Resp: 1192
Ion Ratio Lower Upper
164 100
166 130.6 98.0 147.0
129 87.4 64.3 96.5
131 94.7 66.8 100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

SS039MW002-180815

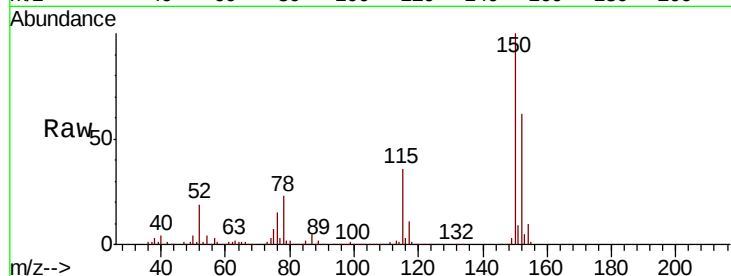
Tot Ion:152 Resp: 216532

Ion Ratio Lower Upper

152 100

115 55.5 39.1 117.3

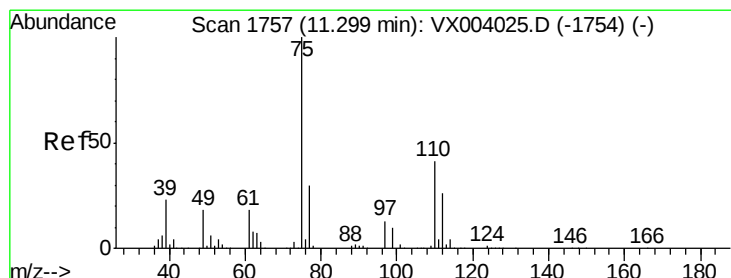
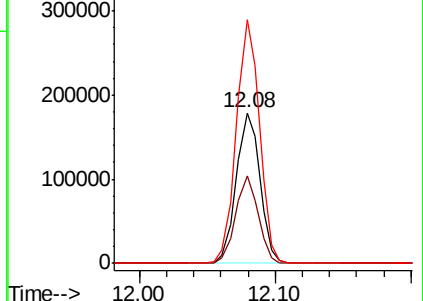
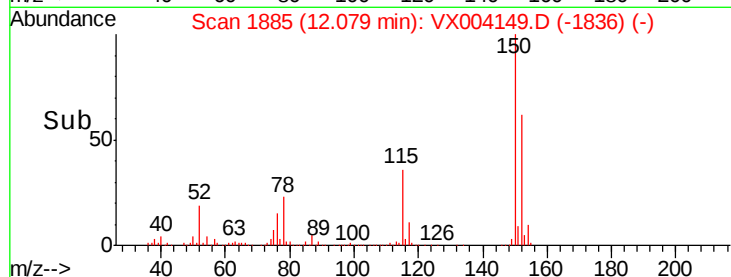
150 158.6 0.0 349.2



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: 23.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004149.D

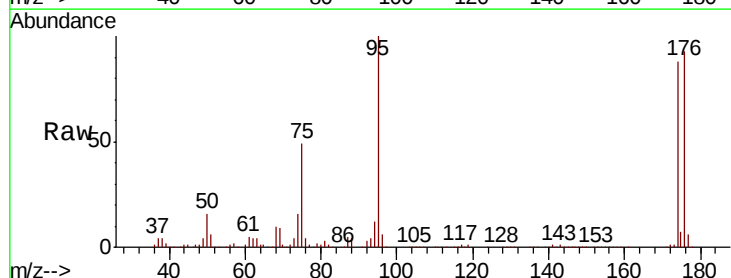
Acq: 20 Aug 2018 13:36

Tgt Ion: 75 Resp: 103956

Ion Ratio Lower Upper

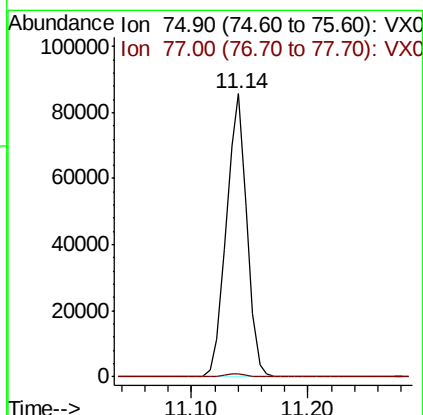
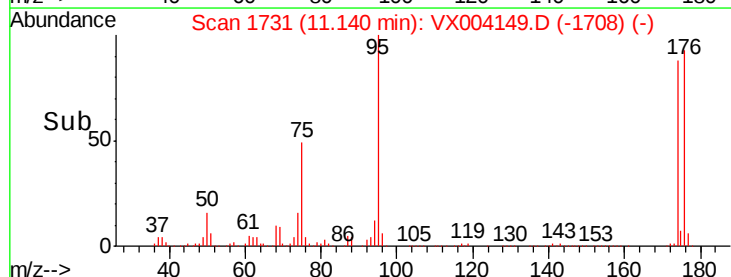
75 100

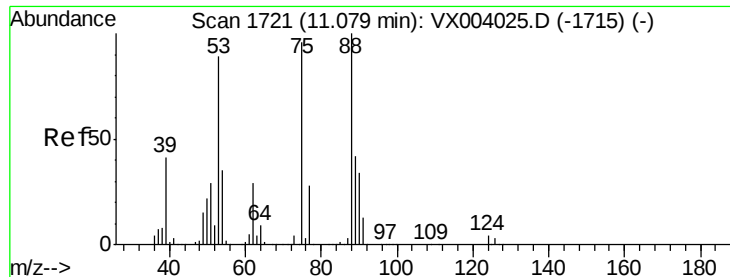
77 1.3 20.8 62.5#



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: 74.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

Instrument :

MSVOA_X

ClientSampleId :

SS039MW002-180815

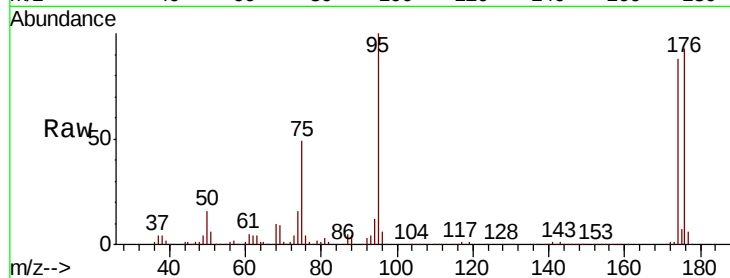
Tot Ion: 75 Resp: 103956

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

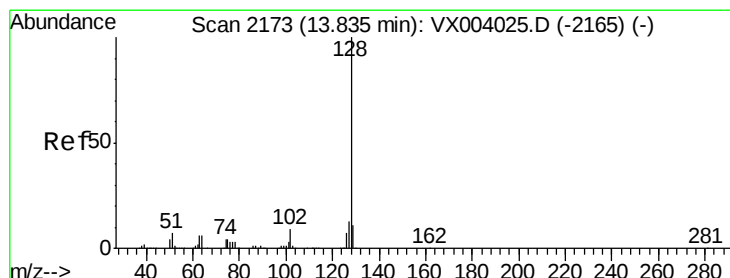
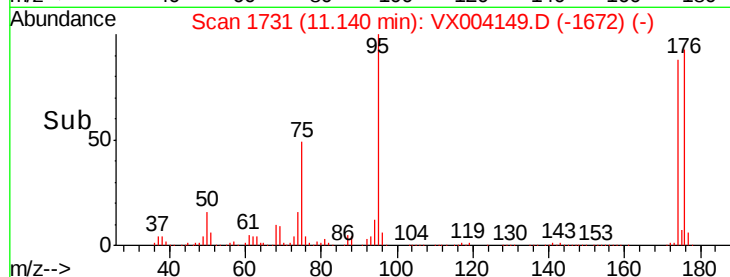
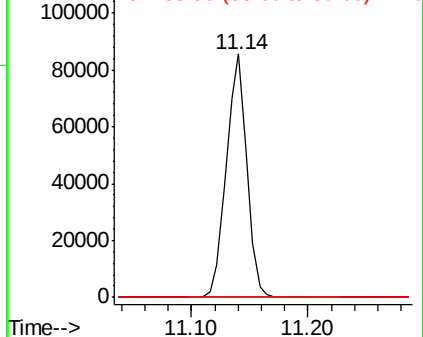
89 0.0 37.8 56.8#



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



#95

Naphthalene

Concen: 1.17 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX004149.D

Acq: 20 Aug 2018 13:36

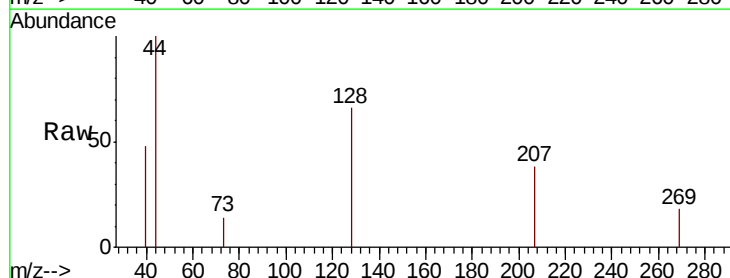
Tgt Ion: 128 Resp: 347

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



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

