

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071219\
 Data File : VX010836.D
 Acq On : 12 Jul 2019 15:16
 Operator : JC/SP
 Sample : K3782-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0539-190711

Quant Time: Jul 13 01:39:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	197872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	312161	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	291127	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132979	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	102851	55.44	ug/l	0.00
Spiked Amount			Recovery	=	110.88%	
35) Dibromofluoromethane	5.50	113	96507	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
50) Toluene-d8	8.71	98	369756	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	11.13	95	127625	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	

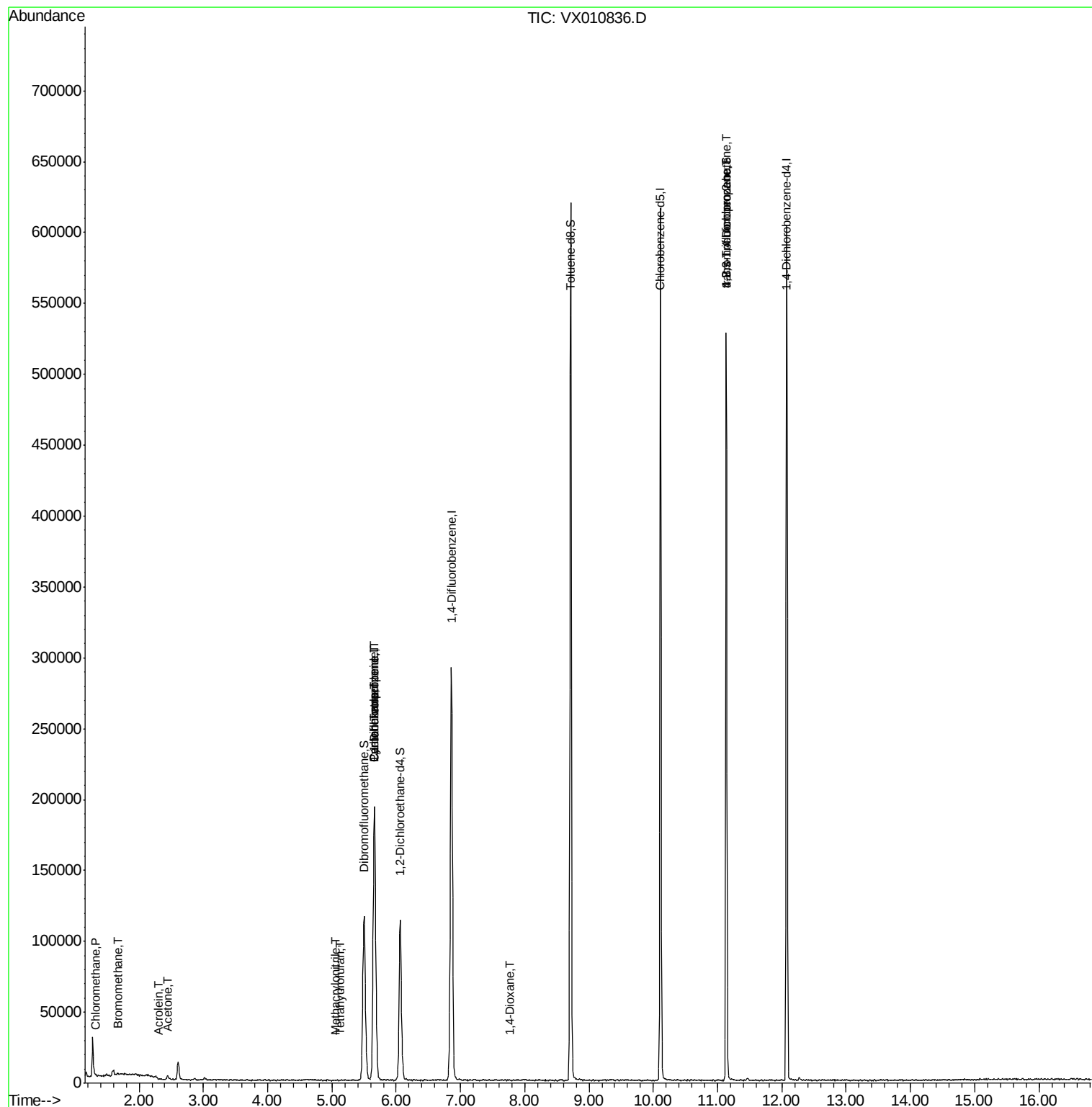
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	707	0.441	ug/l	99
5) Bromomethane	1.67	94	458	0.536	ug/l #	65
13) Acrolein	2.30	56	74	0.230	ug/l #	1
16) Acetone	2.44	43	3849	4.140	ug/l	90
29) Tetrahydrofuran	5.12	42	208	0.246	ug/l #	35
31) Cyclohexane	5.66	56	3639	1.358	ug/l #	31
36) 1,1-Dichloropropene	5.66	75	12967	5.227	ug/l #	48
38) Carbon Tetrachloride	5.67	117	17829	6.637	ug/l #	15
41) Methacrylonitrile	5.05	41	502	0.359	ug/l #	23
49) 1,4-Dioxane	7.77	88	46	0.814	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	61833	25.517	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61833	59.528	ug/l #	16

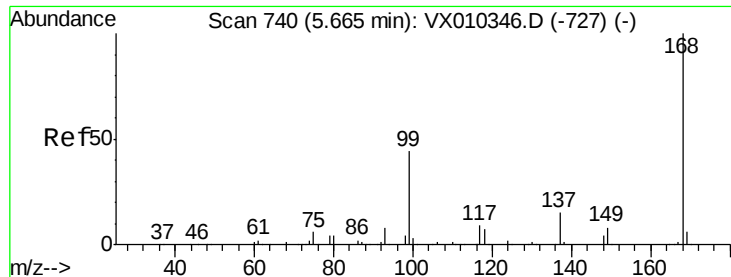
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

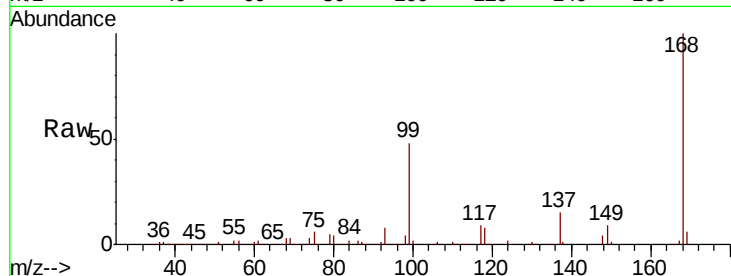
DUP-0539-190711

Tot Ion:168 Resp: 197872

Ion Ratio Lower Upper

168 100

99 48.5 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

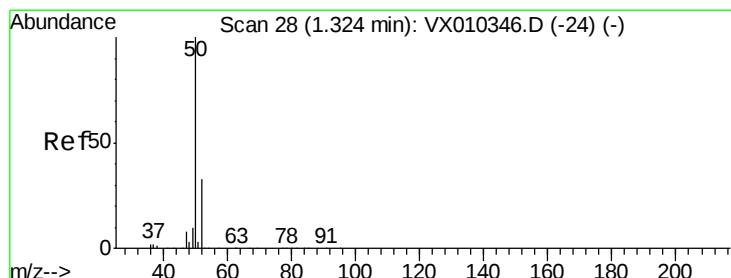
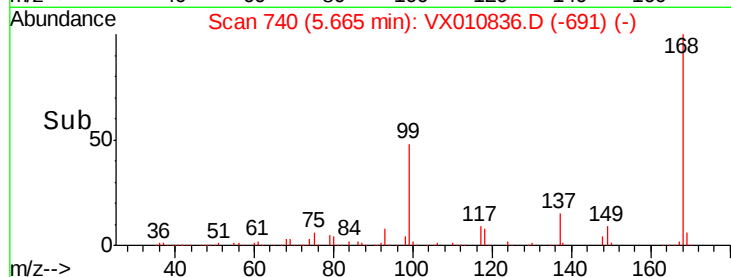
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.441 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010836.D

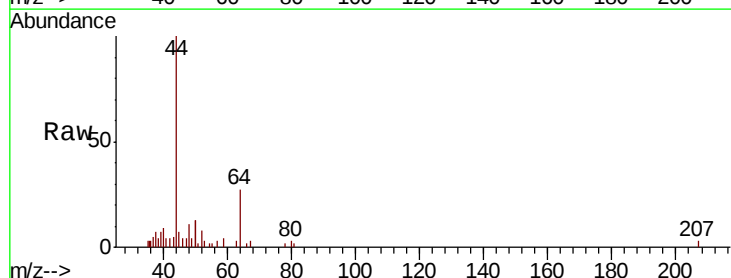
Acq: 12 Jul 2019 15:16

Tgt Ion: 50 Resp: 707

Ion Ratio Lower Upper

50 100

52 32.7 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

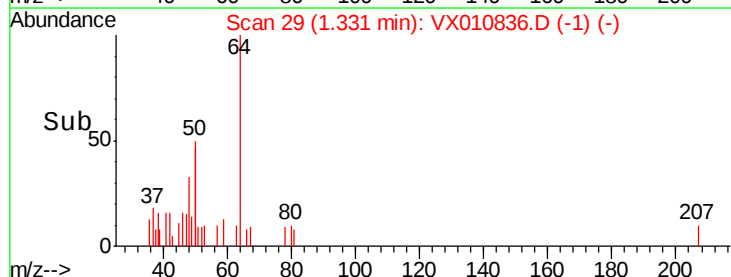
600

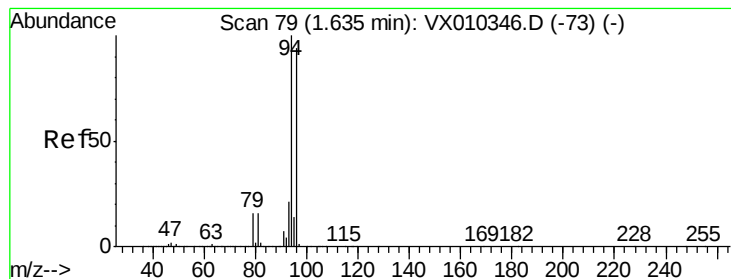
400

200

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.536 ug/l

RT: 1.67 min Scan# 85

Delta R.T. 0.04 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

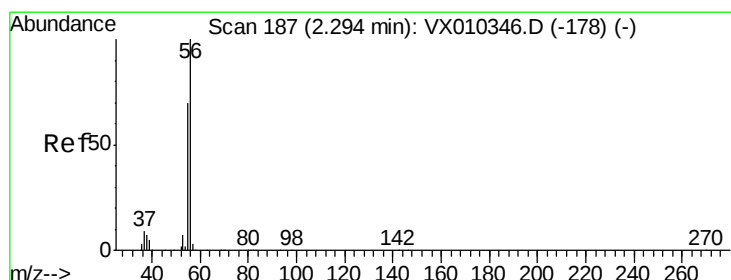
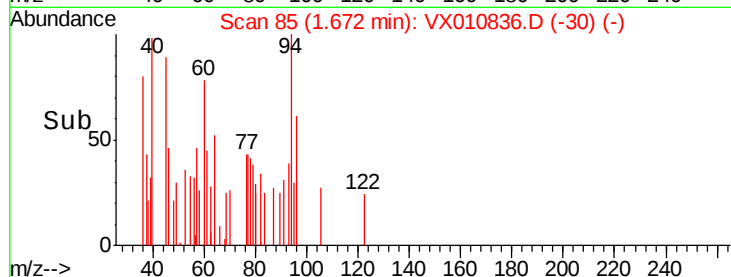
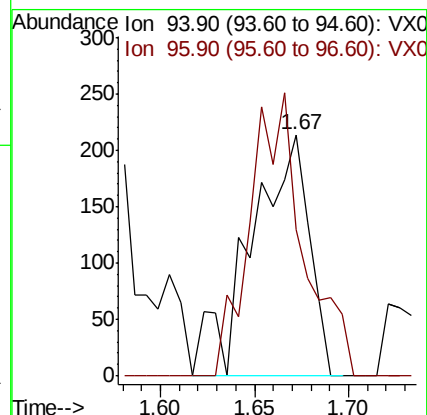
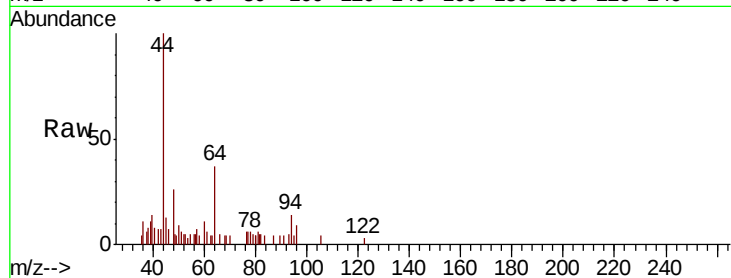
DUP-0539-190711

Tot Ion: 94 Resp: 458

Ion Ratio Lower Upper

94 100

96 60.7 75.5 113.3#



#13

Acrolein

Concen: 0.230 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010836.D

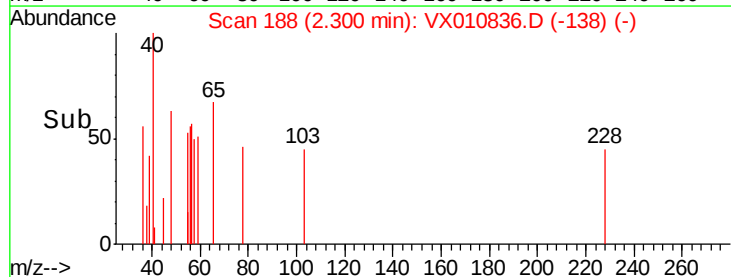
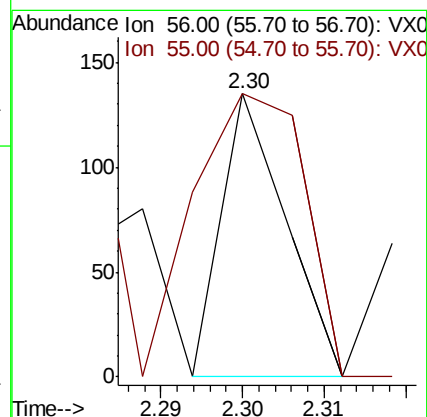
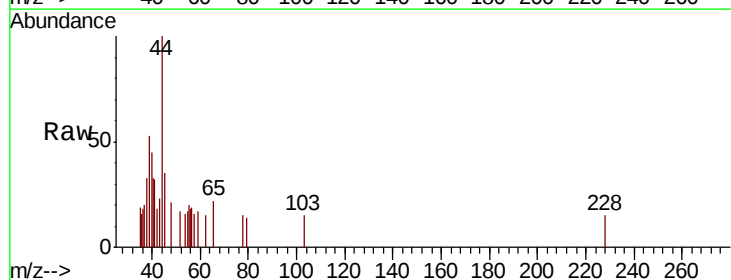
Acq: 12 Jul 2019 15:16

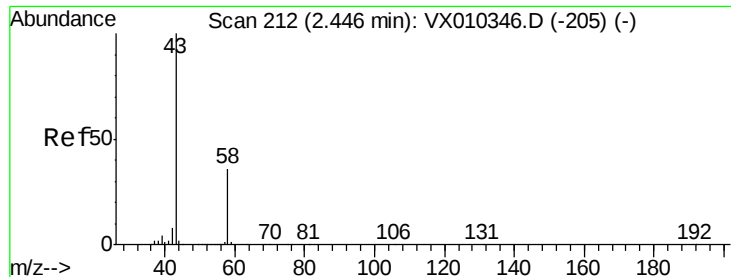
Tgt Ion: 56 Resp: 74

Ion Ratio Lower Upper

56 100

55 171.6 56.9 85.3#





#16

Acetone

Concen: 4.140 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

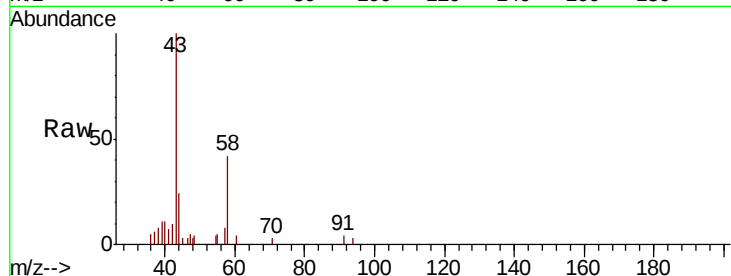
DUP-0539-190711

Tot Ion: 43 Resp: 3849

Ion Ratio Lower Upper

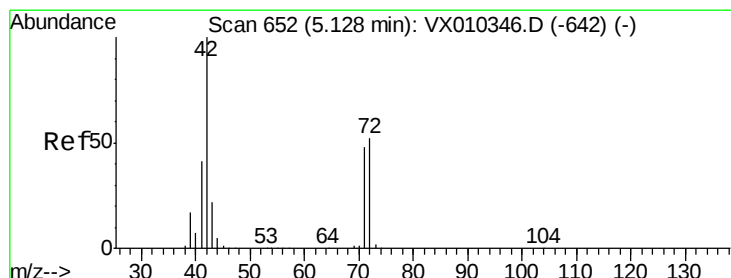
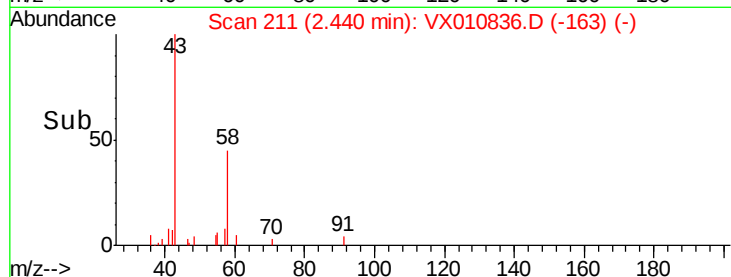
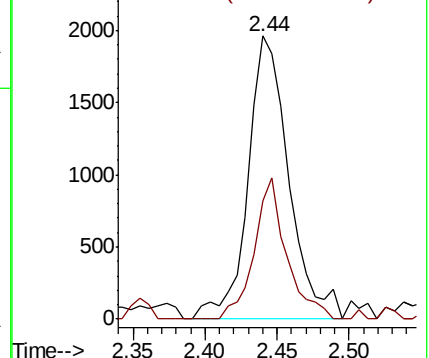
43 100

58 41.7 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#29

Tetrahydrofuran

Concen: 0.246 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.01 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

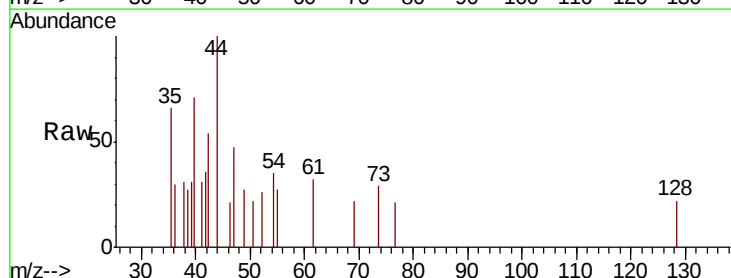
Tgt Ion: 42 Resp: 208

Ion Ratio Lower Upper

42 100

72 9.1 40.6 60.8#

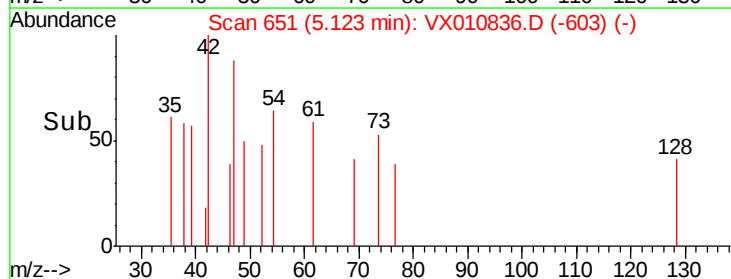
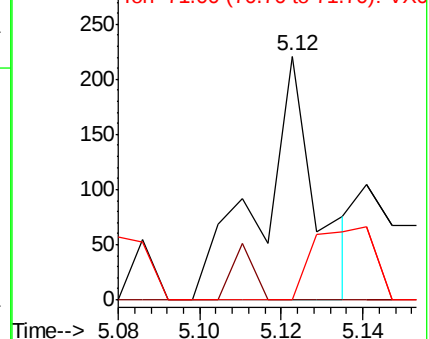
71 0.0 37.8 56.8#

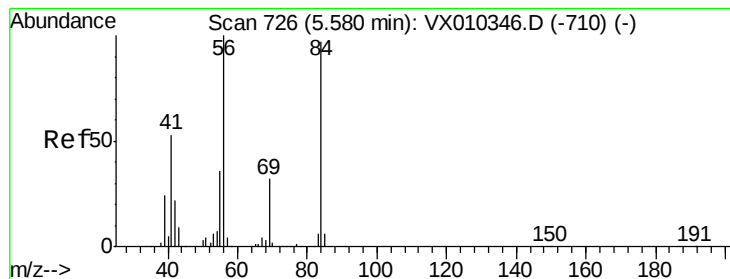


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.358 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0539-190711

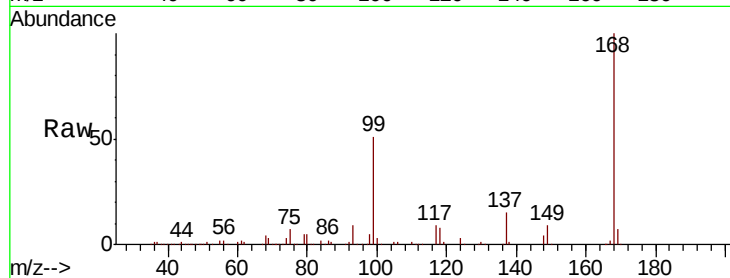
Tot Ion: 56 Resp: 3639

Ion Ratio Lower Upper

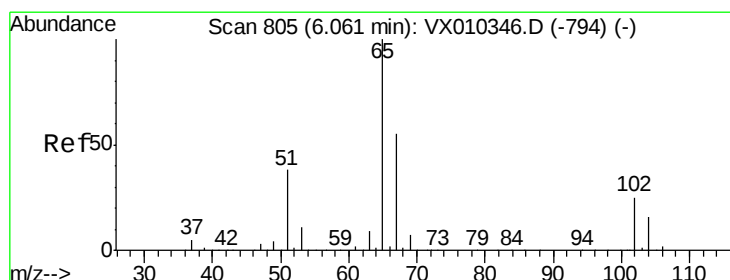
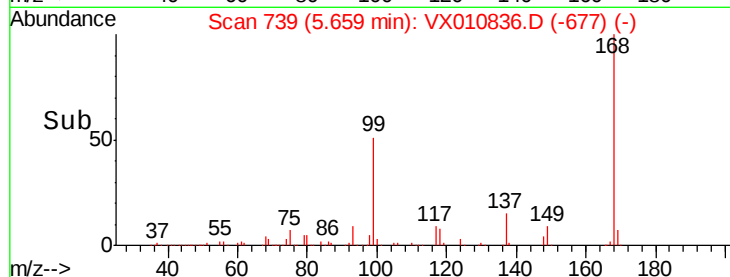
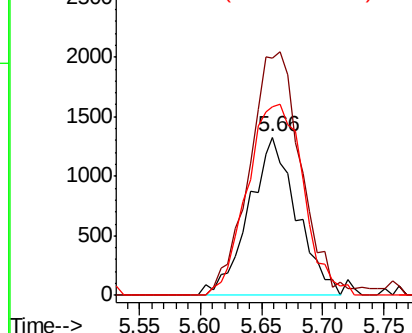
56 100

69 149.4 25.9 38.9#

84 119.3 78.0 117.0#



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: 55.438 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX010836.D

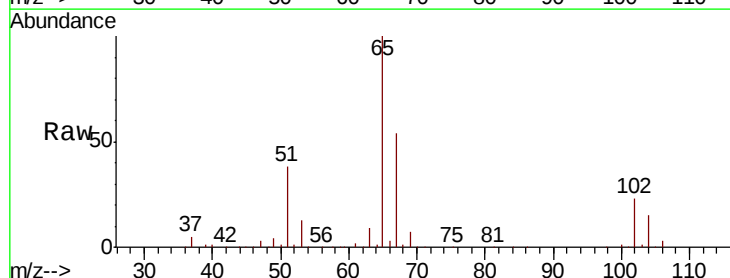
Acq: 12 Jul 2019 15:16

Tgt Ion: 65 Resp: 102851

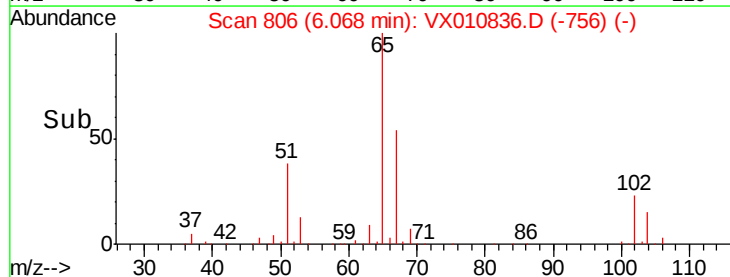
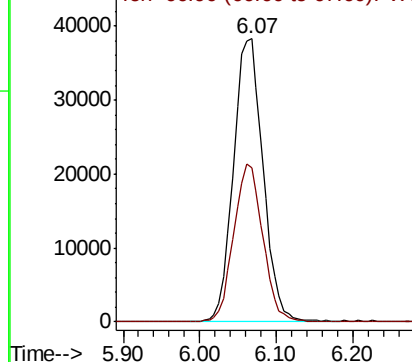
Ion Ratio Lower Upper

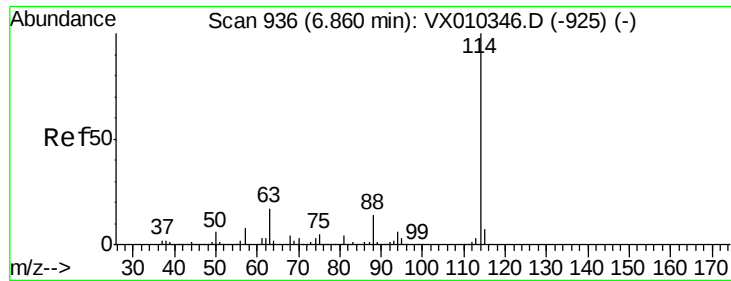
65 100

67 54.7 0.0 110.2



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0539-190711

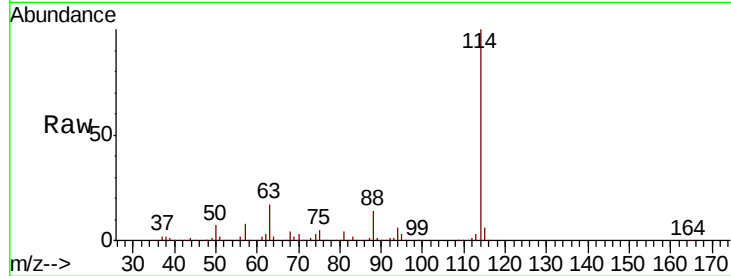
Tot Ion:114 Resp: 312161

Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.8

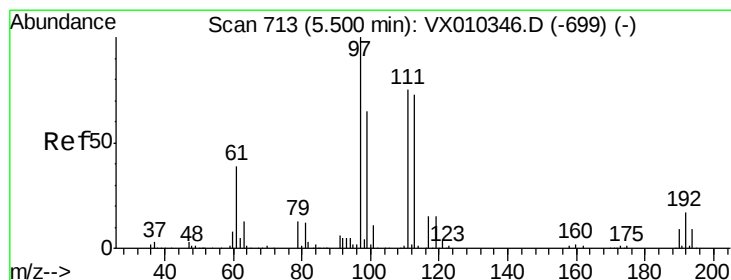
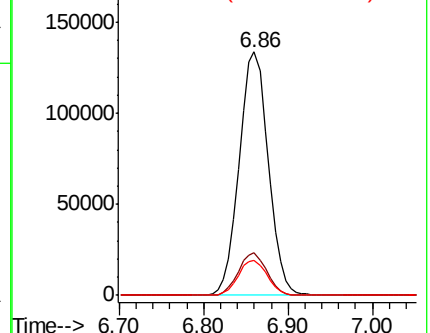
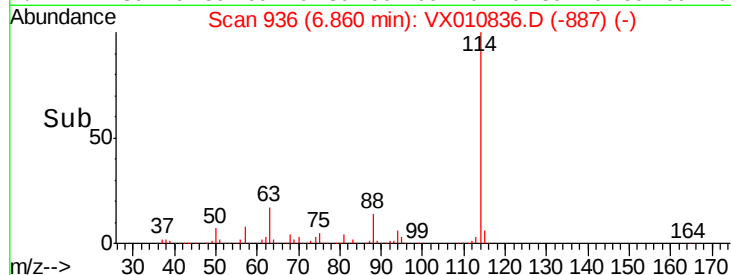
88 14.2 0.0 27.6



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: 50.529 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

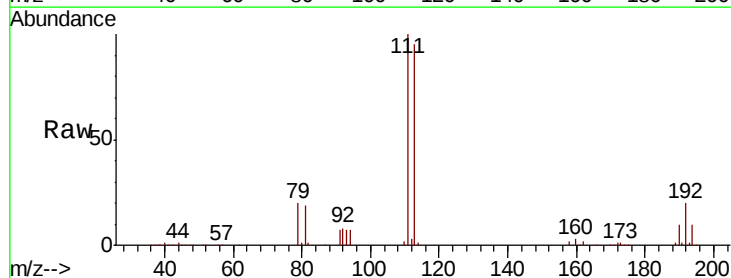
Tgt Ion:113 Resp: 96507

Ion Ratio Lower Upper

113 100

111 103.4 81.2 121.8

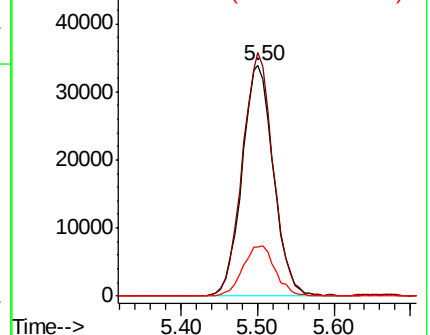
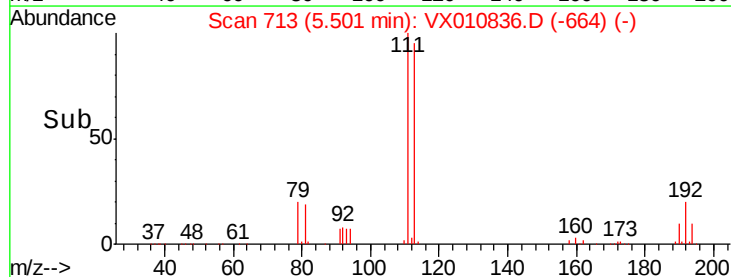
192 22.4 18.6 27.8

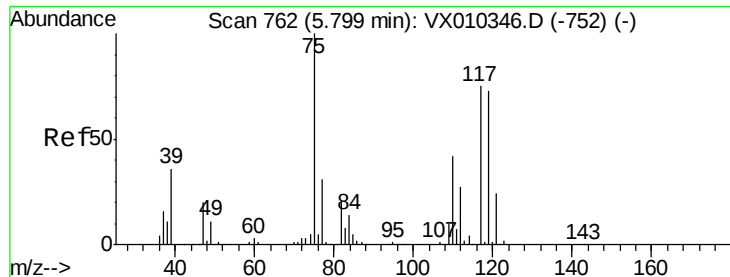


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.227 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

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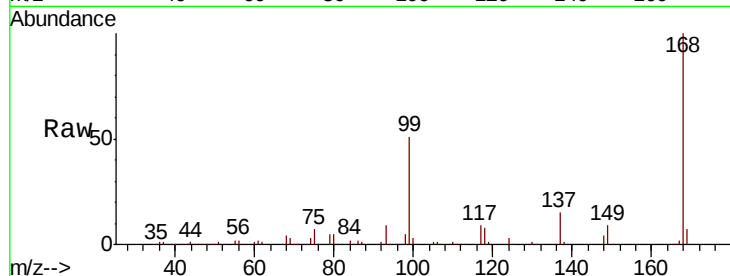
Tot Ion: 75 Resp: 12967

Ion Ratio Lower Upper

75 100

110 11.2 20.8 62.2#

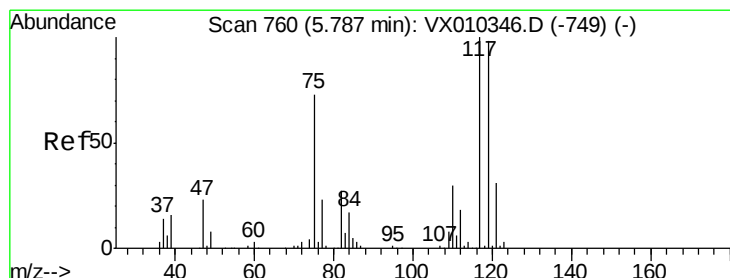
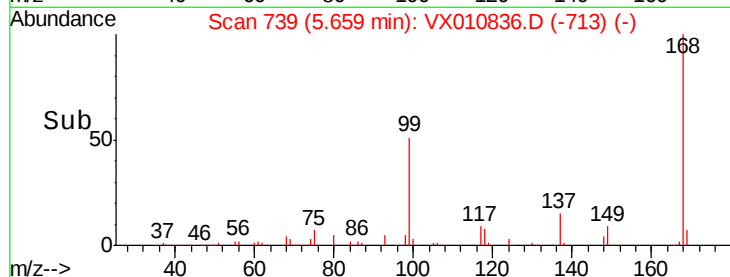
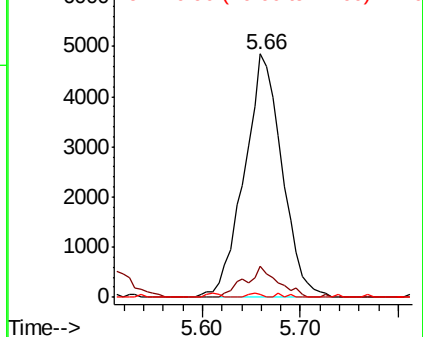
77 0.5 25.4 38.0#



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: 6.637 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

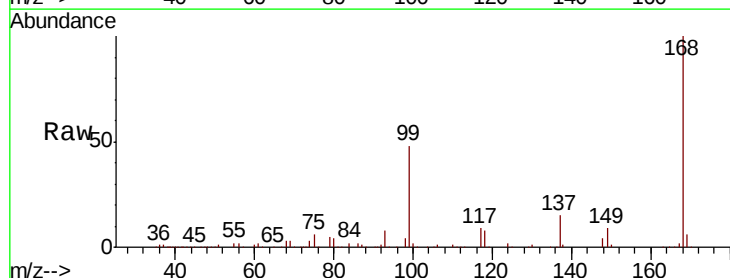
Tgt Ion: 117 Resp: 17829

Ion Ratio Lower Upper

117 100

119 4.6 78.2 117.4#

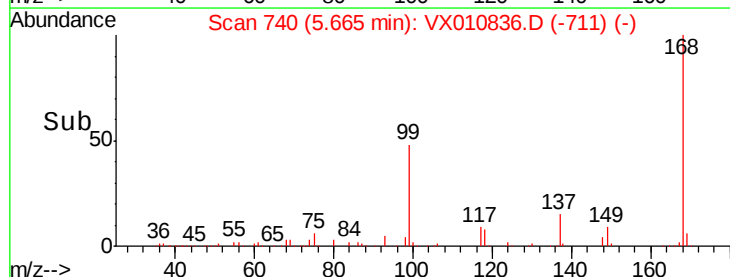
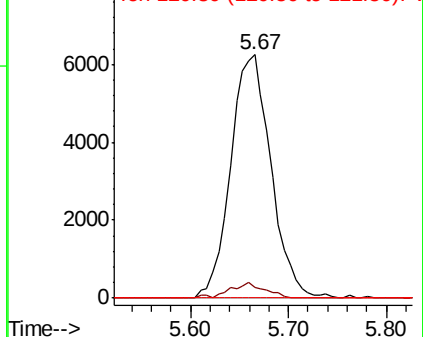
121 0.0 24.7 37.1#

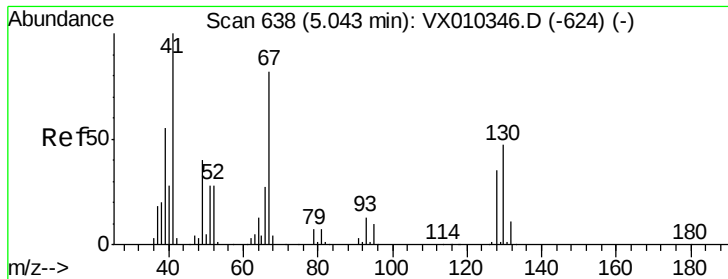


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.359 ug/l

RT: 5.05 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0539-190711

Tot Ion: 41 Resp: 502

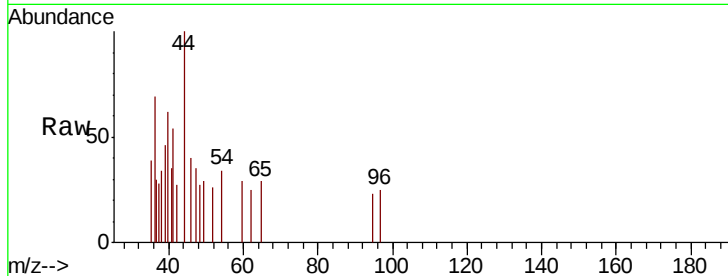
Ion Ratio Lower Upper

41 100

39 0.0 43.8 65.8#

67 0.0 66.6 100.0#

52 10.2 24.5 36.7#

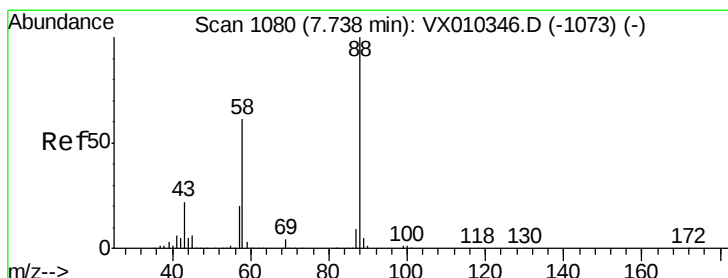
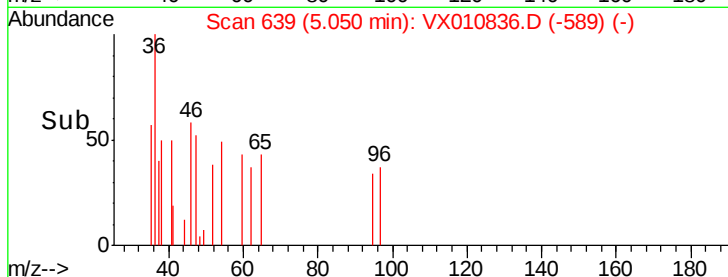
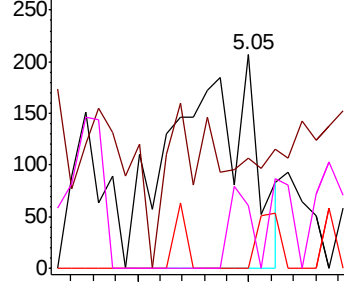


Abundance Ion 41.00 (40.70 to 41.70): VX0

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



#49

1,4-Dioxane

Concen: 0.814 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.04 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

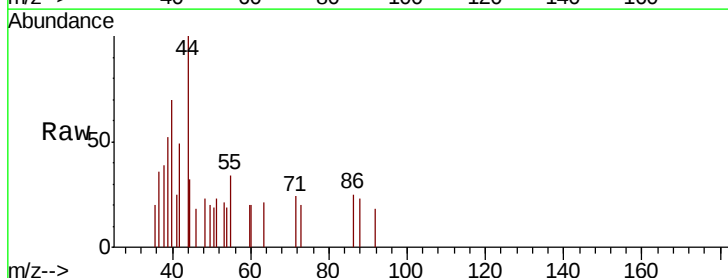
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 445.7 20.2 30.2#

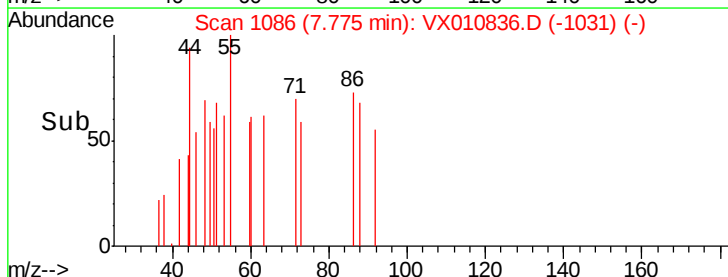
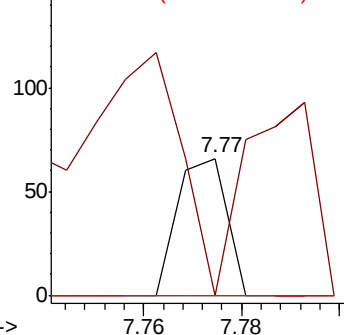
58 0.0 49.5 74.3#

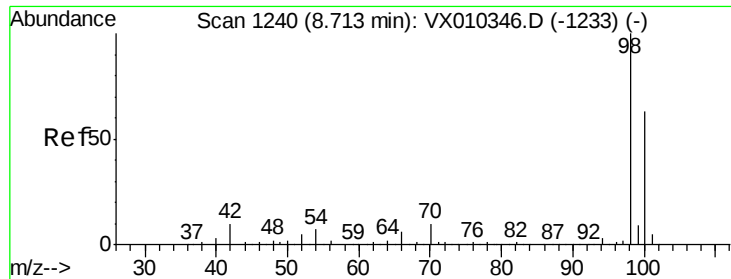


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.603 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

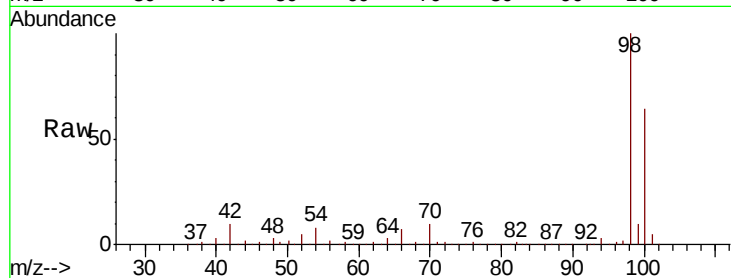
DUP-0539-190711

Tot Ion: 98 Resp: 369756

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

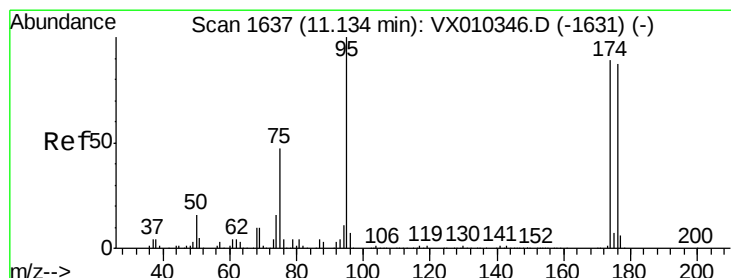
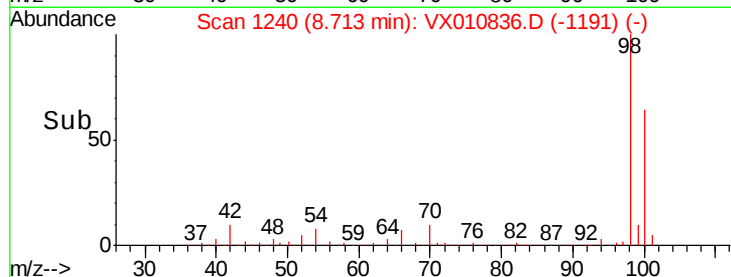
100000

50000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 48.379 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010836.D

Acq: 12 Jul 2019 15:16

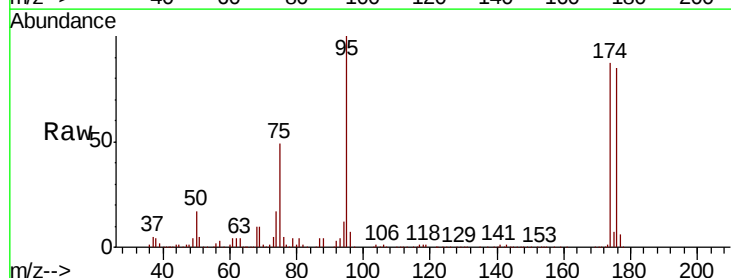
Tgt Ion: 95 Resp: 127625

Ion Ratio Lower Upper

95 100

174 92.7 0.0 187.6

176 90.4 0.0 184.0



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

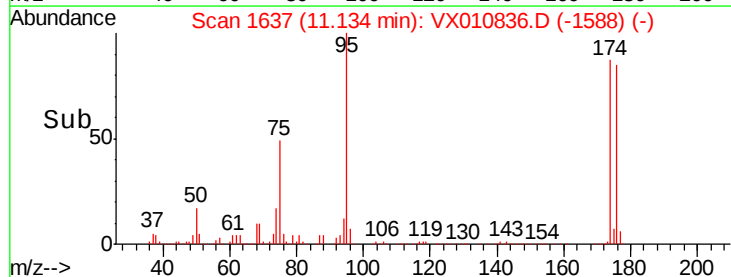
100000

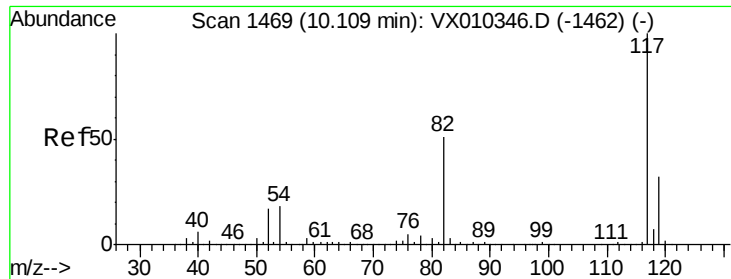
50000

0

11.10 11.13 11.16 11.19 11.22

Time-->

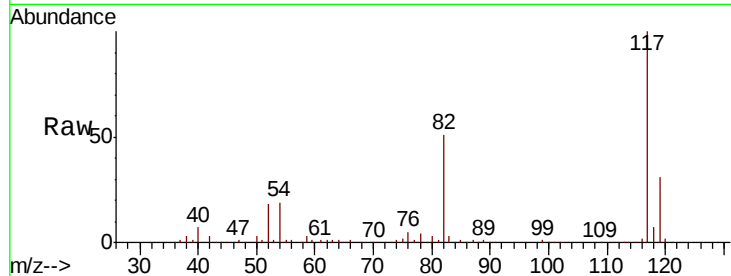




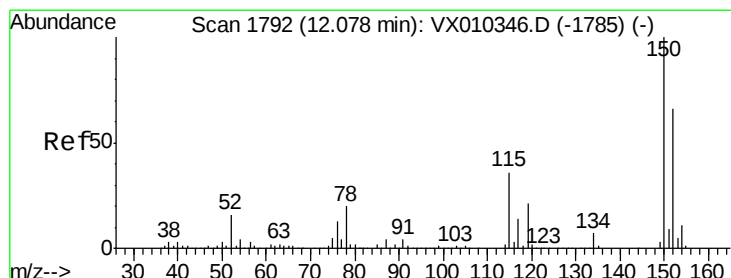
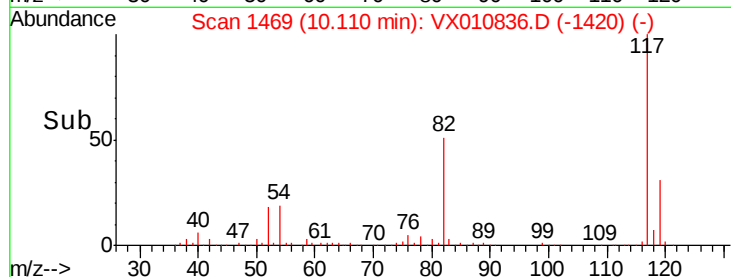
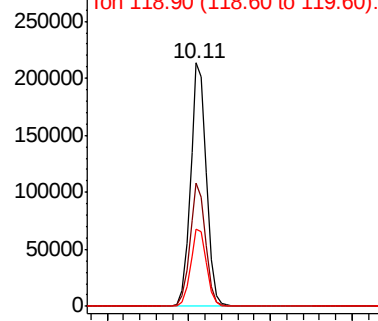
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010836.D
Acq: 12 Jul 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
DUP-0539-190711

Tot Ion:117 Resp: 291127
Ion Ratio Lower Upper
117 100
82 50.6 41.2 61.8
119 31.5 25.5 38.3

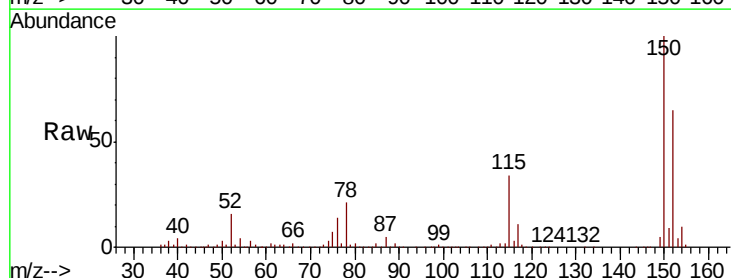


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

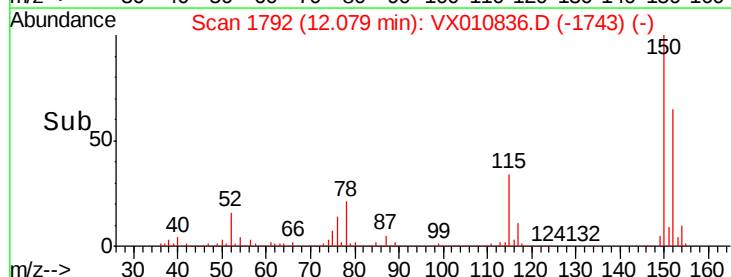
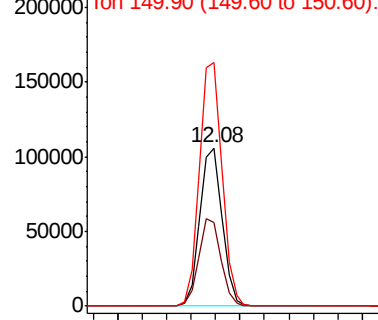


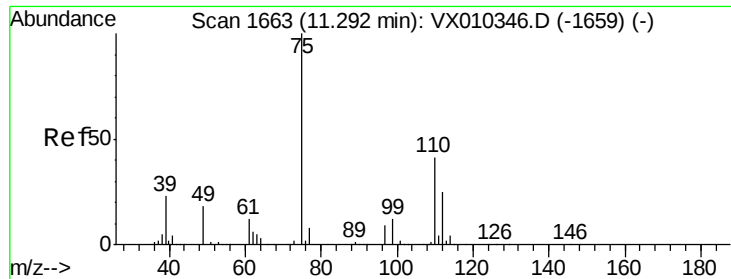
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010836.D
Acq: 12 Jul 2019 15:16

Tgt Ion:152 Resp: 132979
Ion Ratio Lower Upper
152 100
115 54.8 38.6 115.7
150 156.7 0.0 347.4



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

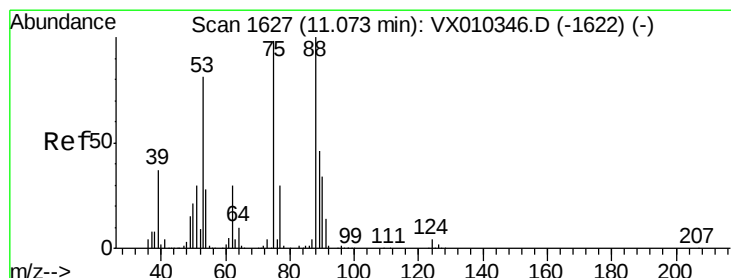
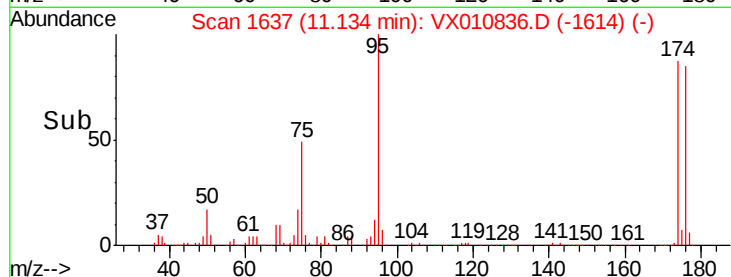
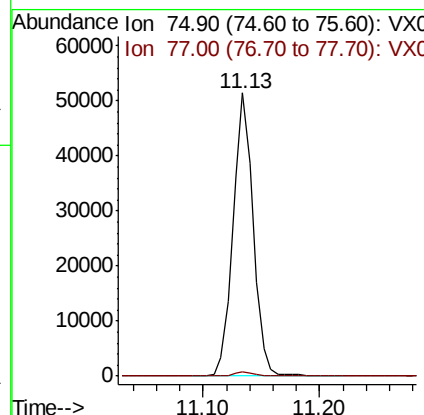
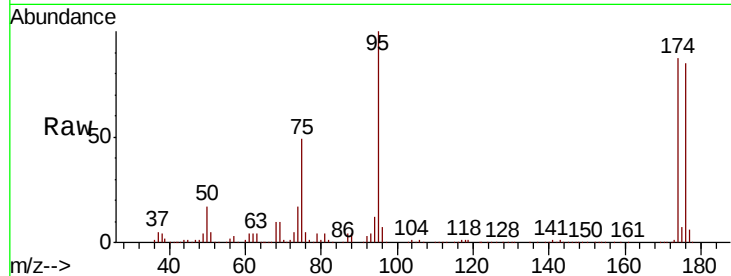




#76
 1,2,3-Trichloropropane
 Concen: 25.517 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010836.D
 Acq: 12 Jul 2019 15:16

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0539-190711

Tot Ion: 75 Resp: 61833
 Ion Ratio Lower Upper
 75 100
 77 1.7 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.528 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010836.D
 Acq: 12 Jul 2019 15:16

Tgt Ion: 75 Resp: 61833
 Ion Ratio Lower Upper
 75 100
 53 0.2 66.1 99.1#
 89 0.1 37.8 56.6#

