

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061419\
 Data File : VX010303.D
 Acq On : 14 Jun 2019 16:16
 Operator : JC/SP
 Sample : K3315-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20190607

Quant Time: Jun 15 01:22:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	313507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	480981	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	428950	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202949	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	142015	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
35) Dibromofluoromethane	5.50	113	145182	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
50) Toluene-d8	8.71	98	558409	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.13	95	193420	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	

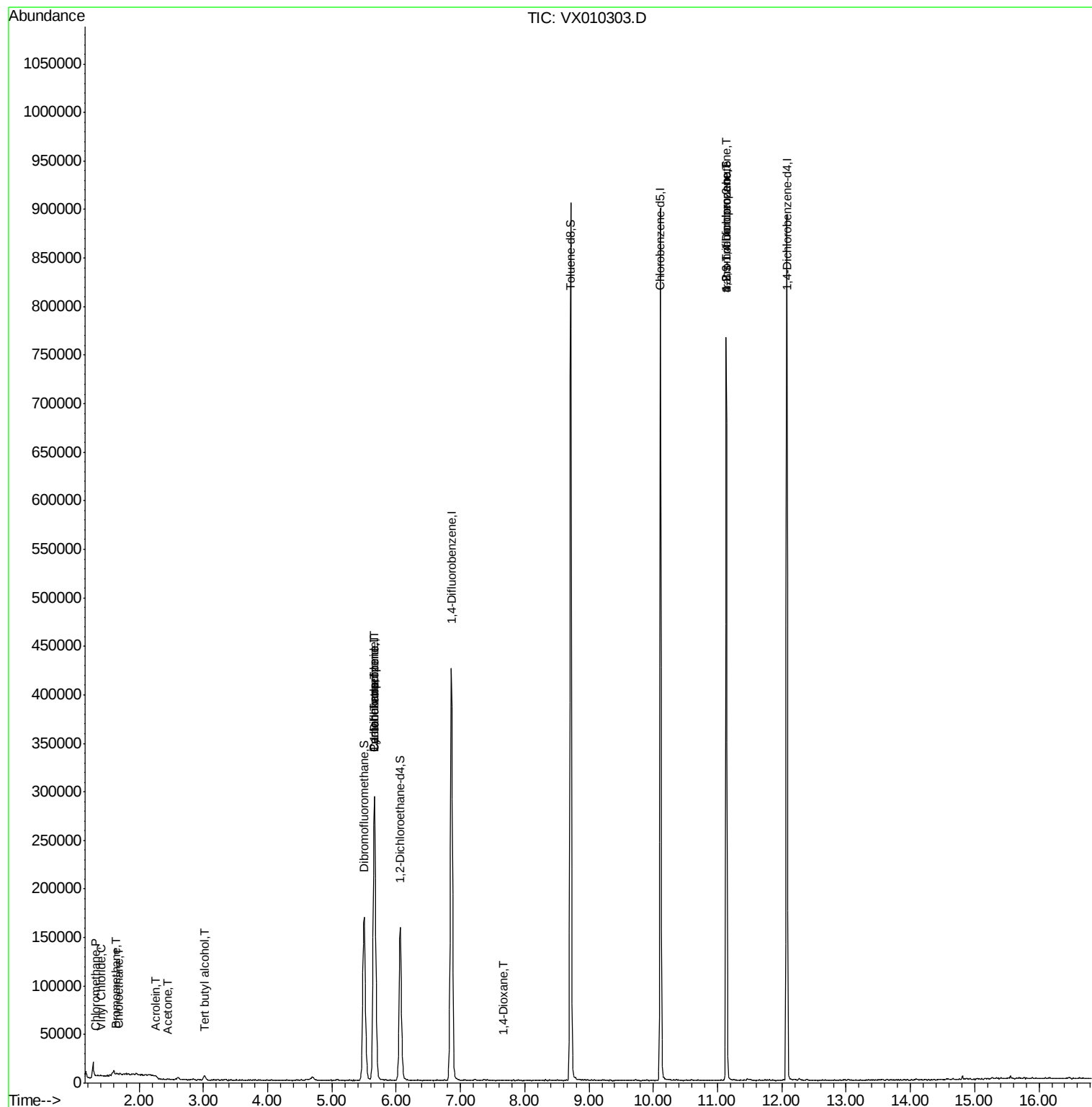
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	771	0.269	ug/l #	64
4) Vinyl Chloride	1.41	62	582	0.216	ug/l #	74
5) Bromomethane	1.65	94	516	0.508	ug/l #	63
6) Chloroethane	1.68	64	1399	1.031	ug/l #	64
11) Tert butyl alcohol	3.01	59	2565	3.422	ug/l #	79
13) Acrolein	2.26	56	79	0.578	ug/l #	1
16) Acetone	2.44	43	783	0.544	ug/l	95
31) Cyclohexane	5.66	56	5105	1.146	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19203	4.894	ug/l #	52
38) Carbon Tetrachloride	5.66	117	26859	6.047	ug/l #	16
49) 1,4-Dioxane	7.66	88	19	0.209	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	87821	21.634	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	87821	47.799	ug/l #	10

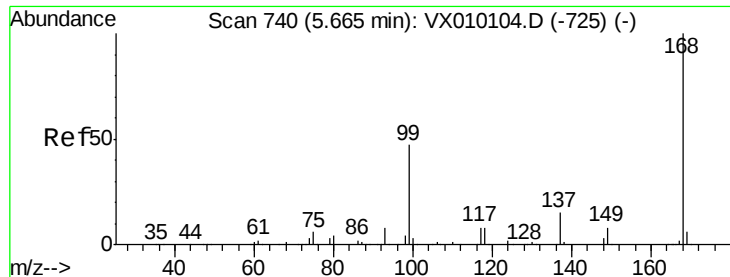
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

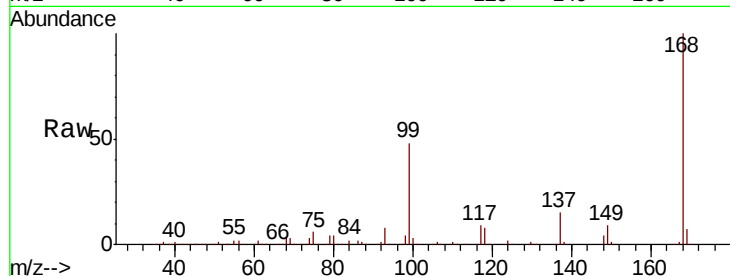
RE104D3-20190607

Tot Ion:168 Resp: 313507

Ion Ratio Lower Upper

168 100

99 48.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

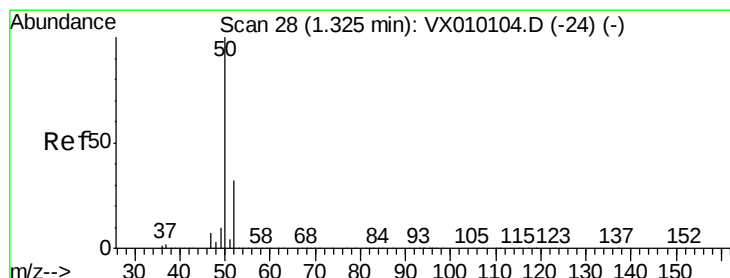
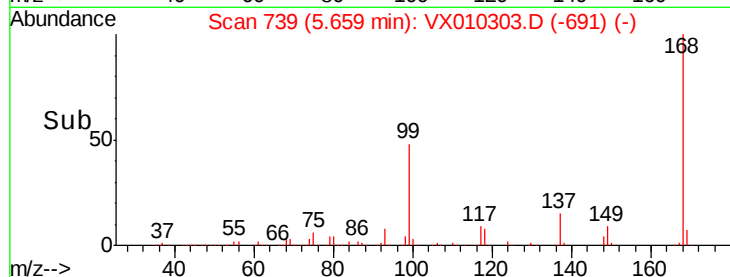
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.269 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010303.D

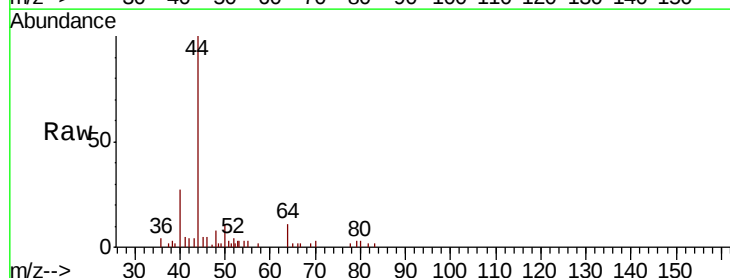
Acq: 14 Jun 2019 16:16

Tgt Ion: 50 Resp: 771

Ion Ratio Lower Upper

50 100

52 52.7 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

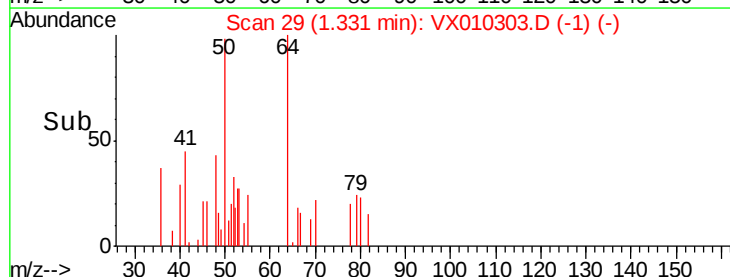
300

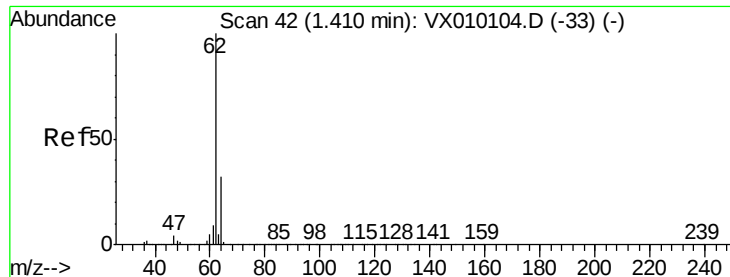
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.216 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

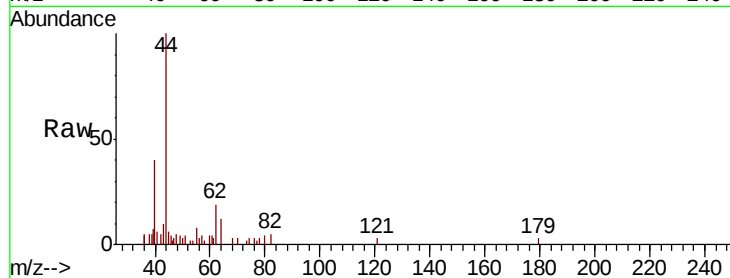
RE104D3-20190607

Tot Ion: 62 Resp: 582

Ion Ratio Lower Upper

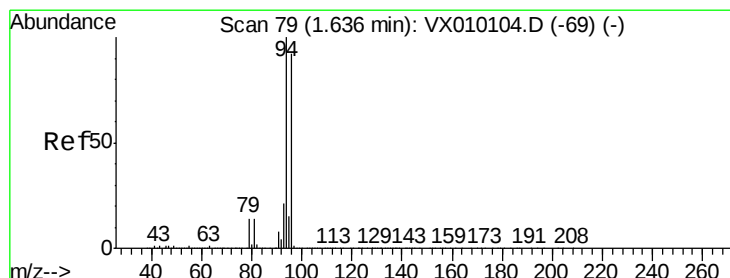
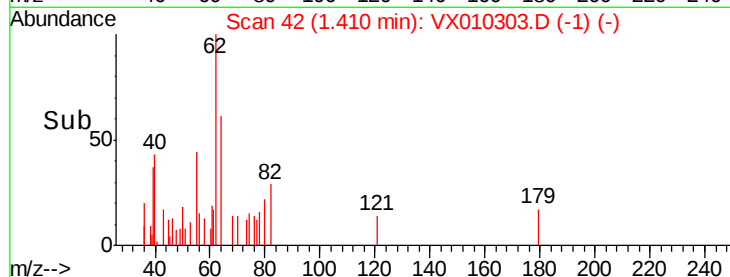
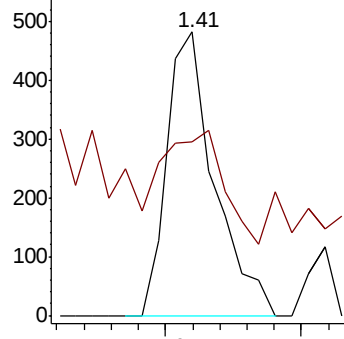
62 100

64 17.6 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.508 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010303.D

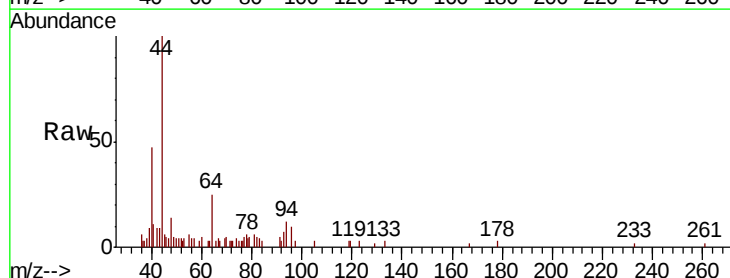
Acq: 14 Jun 2019 16:16

Tgt Ion: 94 Resp: 516

Ion Ratio Lower Upper

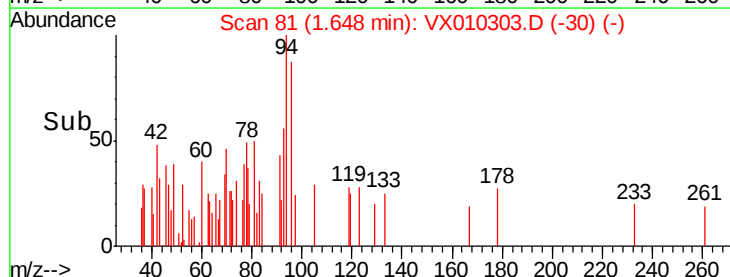
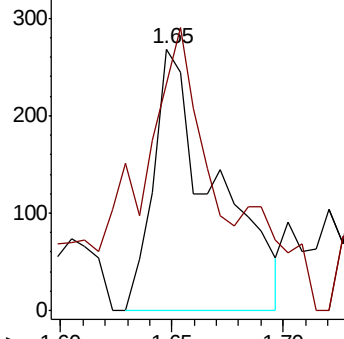
94 100

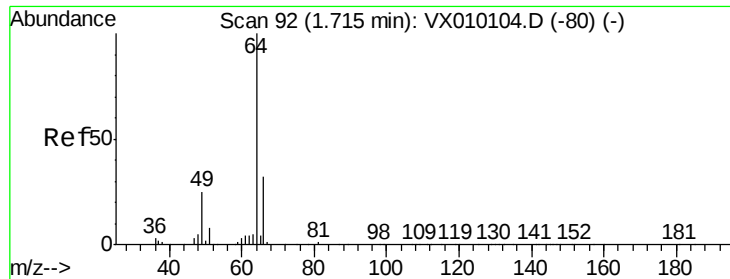
96 59.7 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.031 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

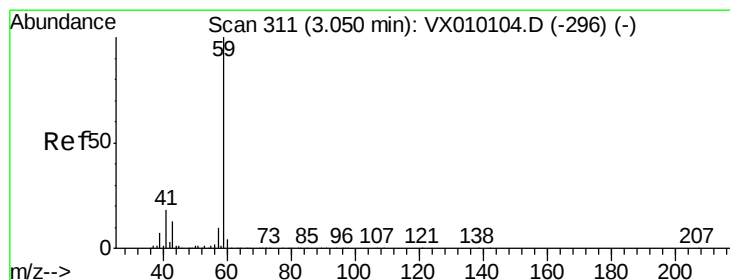
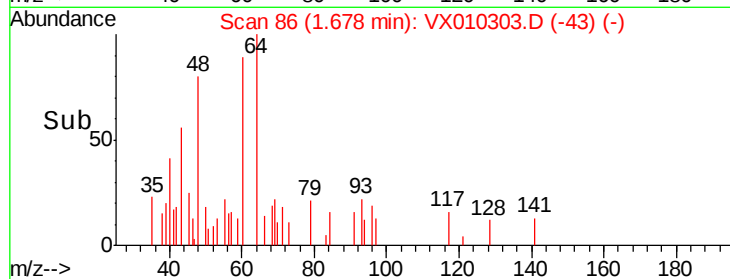
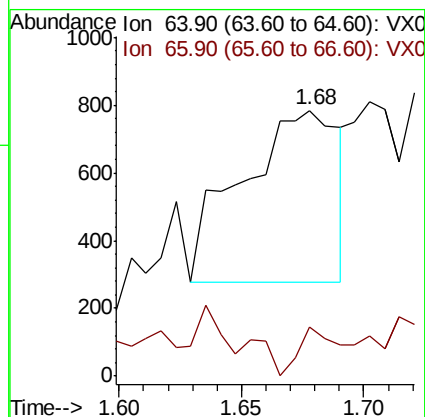
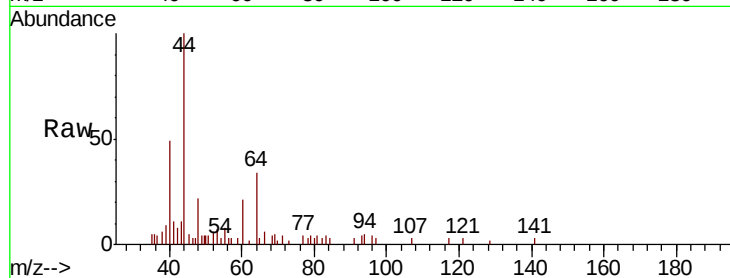
RE104D3-20190607

Tot Ion: 64 Resp: 1399

Ion Ratio Lower Upper

64 100

66 11.4 25.1 37.7#



#11

Tert butyl alcohol

Concen: 3.422 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX010303.D

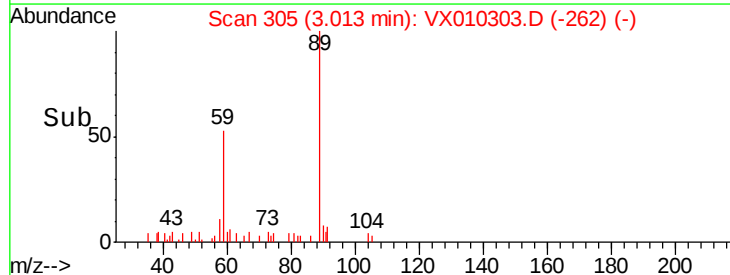
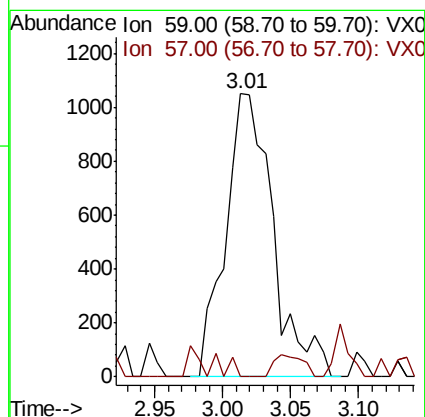
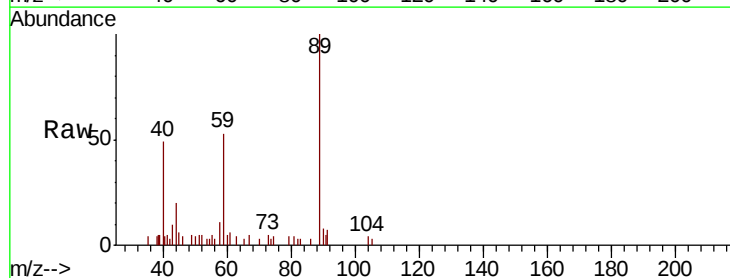
Acq: 14 Jun 2019 16:16

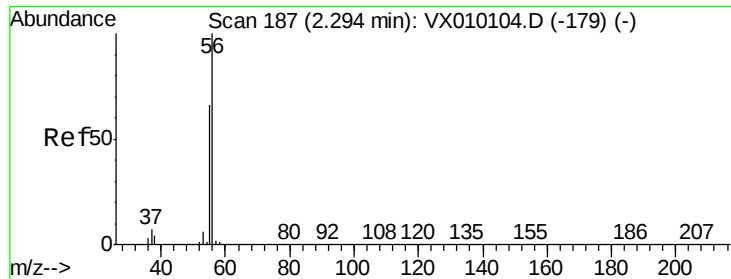
Tgt Ion: 59 Resp: 2565

Ion Ratio Lower Upper

59 100

57 2.3 8.2 12.2#





#13

Acrolein

Concen: 0.578 ug/l

RT: 2.26 min Scan# 182

Delta R.T. -0.03 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

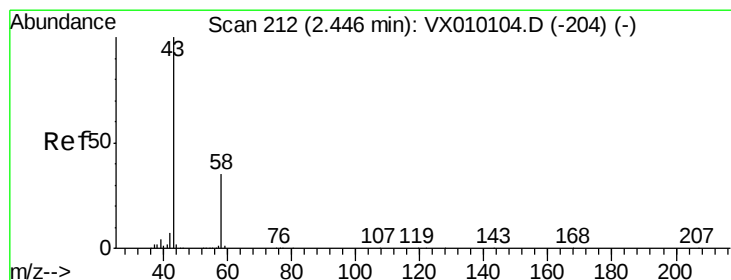
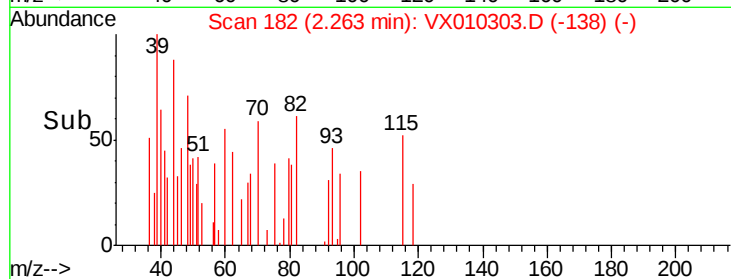
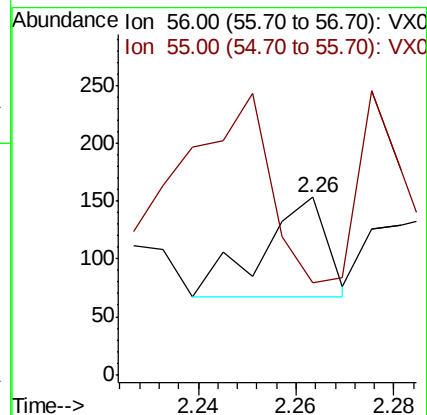
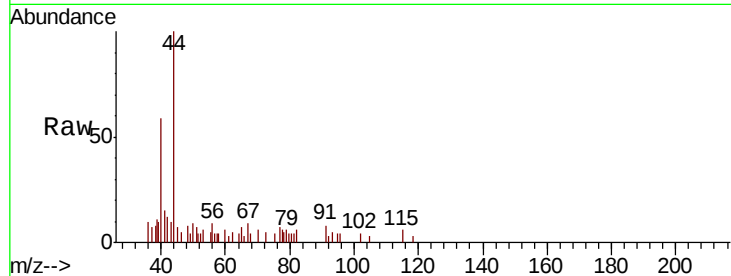
RE104D3-20190607

Tot Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 179.7 57.0 85.4#



#16

Acetone

Concen: 0.544 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010303.D

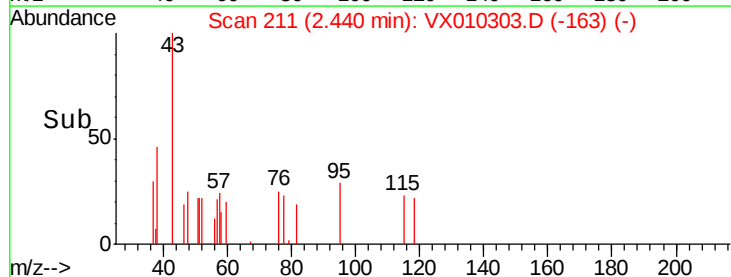
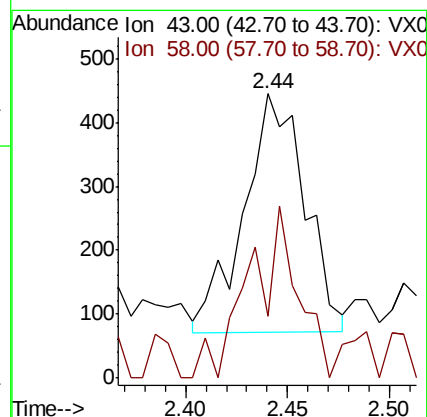
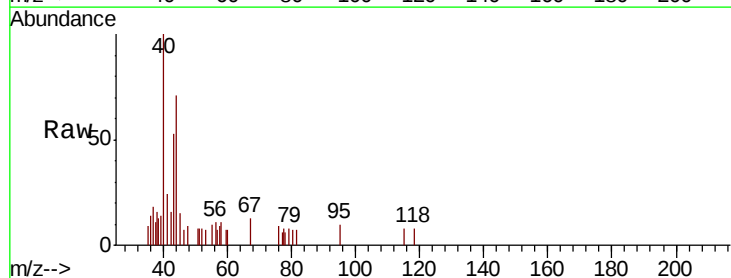
Acq: 14 Jun 2019 16:16

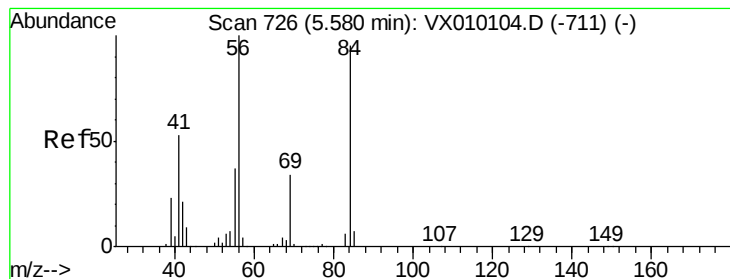
Tgt Ion: 43 Resp: 783

Ion Ratio Lower Upper

43 100

58 26.5 23.2 34.8





#31

Cyclohexane

Concen: 1.146 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190607

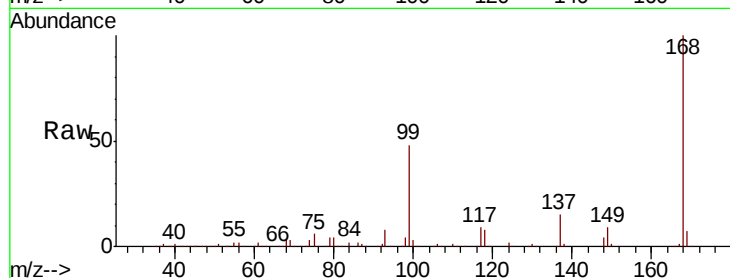
Tot Ion: 56 Resp: 5105

Ion Ratio Lower Upper

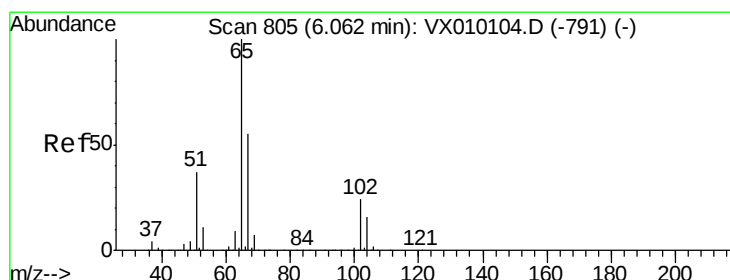
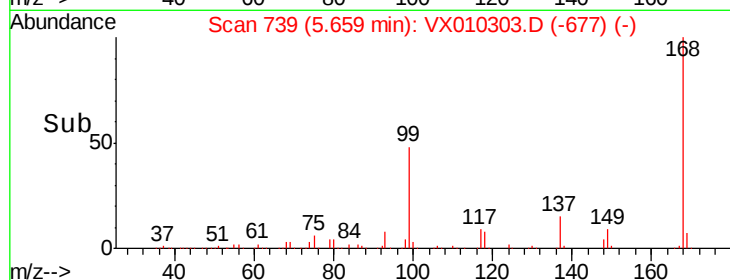
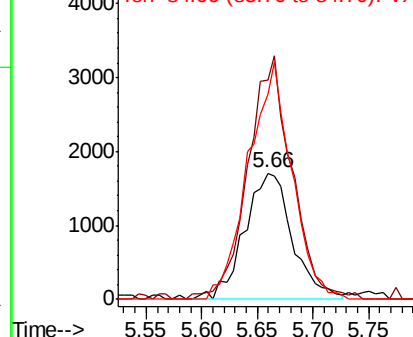
56 100

69 169.6 21.6 32.4#

84 162.7 56.8 85.2#



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: 46.407 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010303.D

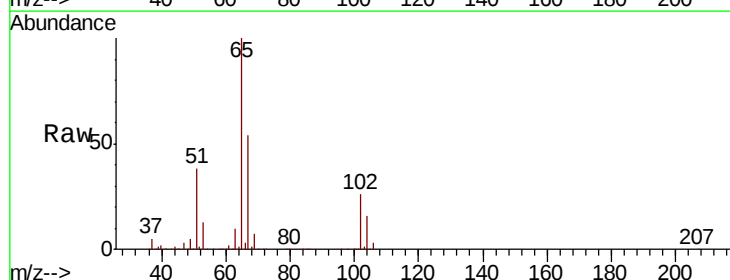
Acq: 14 Jun 2019 16:16

Tgt Ion: 65 Resp: 142015

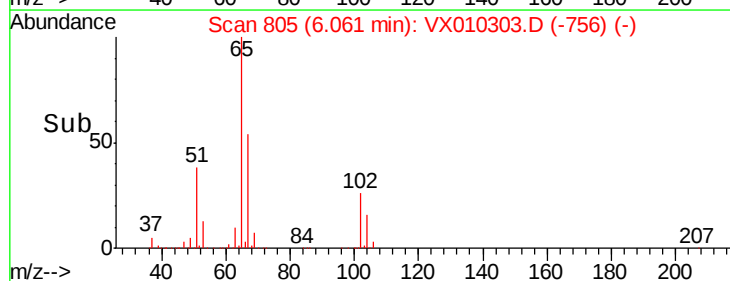
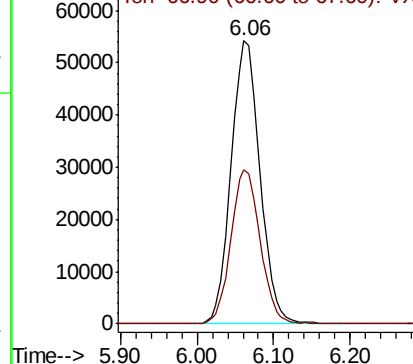
Ion Ratio Lower Upper

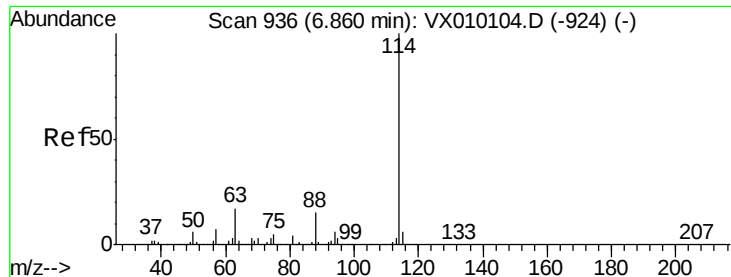
65 100

67 54.8 0.0 108.4



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: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

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RE104D3-20190607

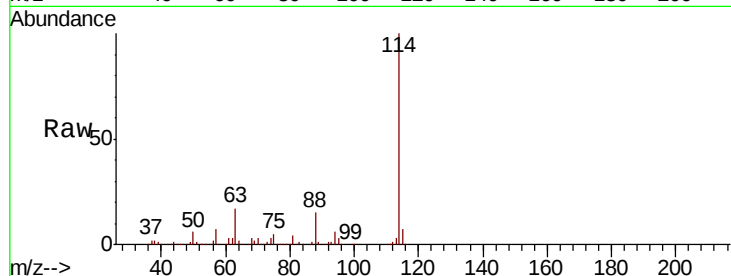
Tot Ion:114 Resp: 480981

Ion Ratio Lower Upper

114 100

63 16.6 0.0 47.4

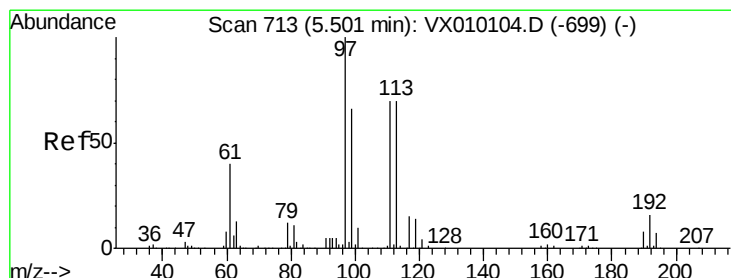
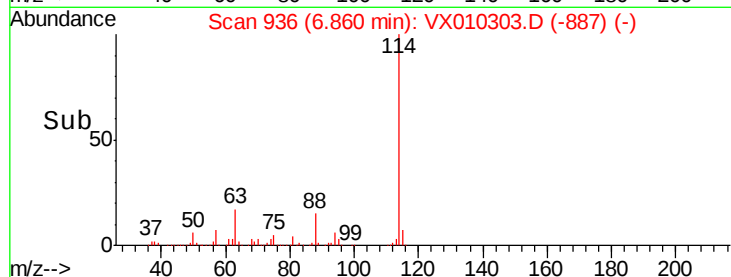
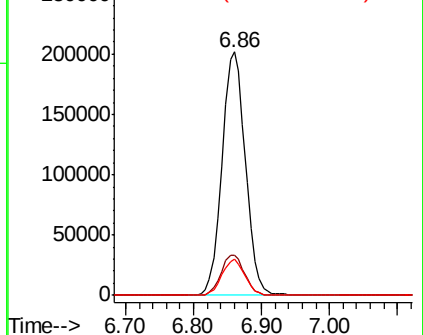
88 14.6 0.0 33.0



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: 48.935 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

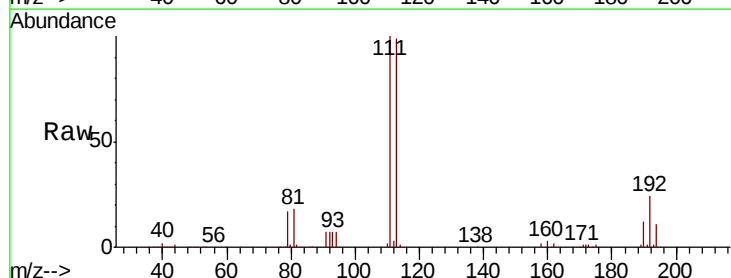
Tgt Ion:113 Resp: 145182

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.2

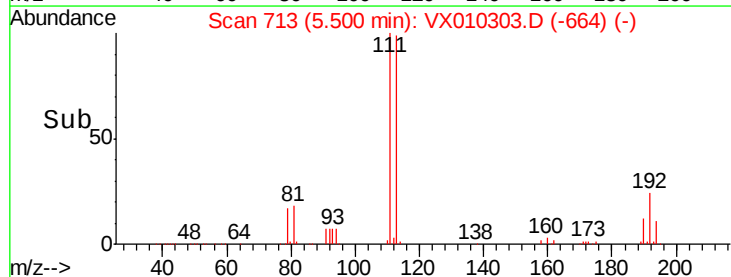
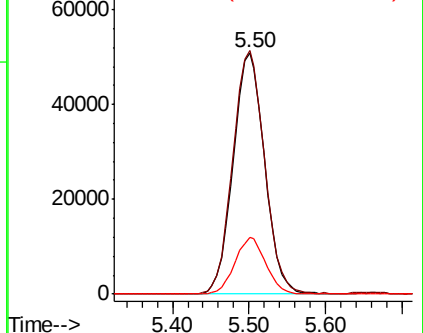
192 23.1 17.1 25.7

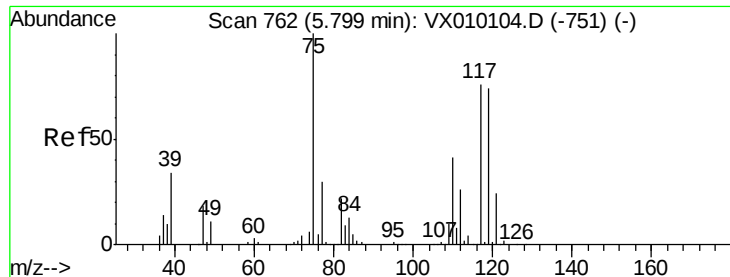


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

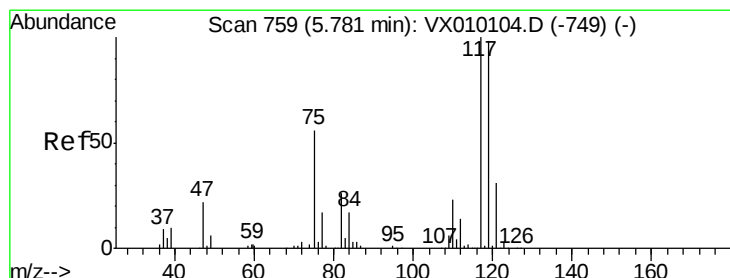
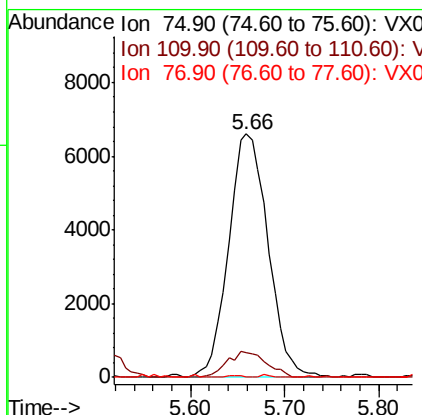
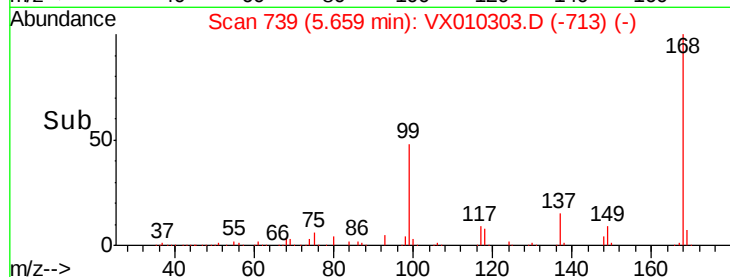
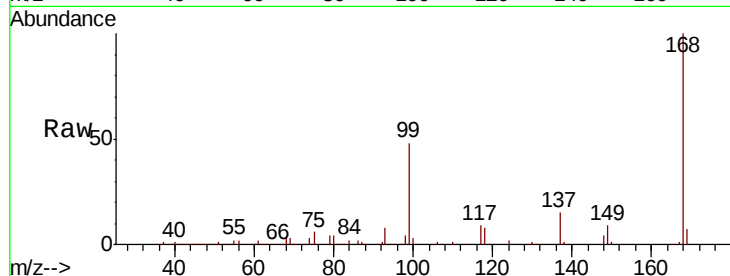




#36
 1,1-Dichloropropene
 Concen: 4.894 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010303.D
 Acq: 14 Jun 2019 16:16

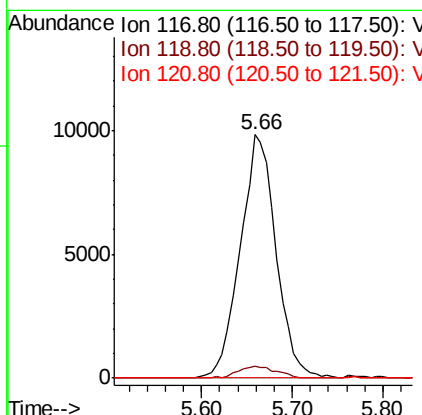
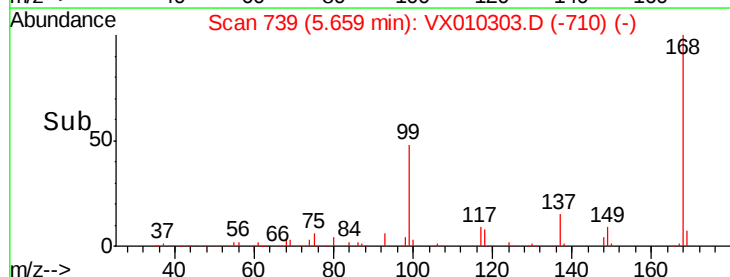
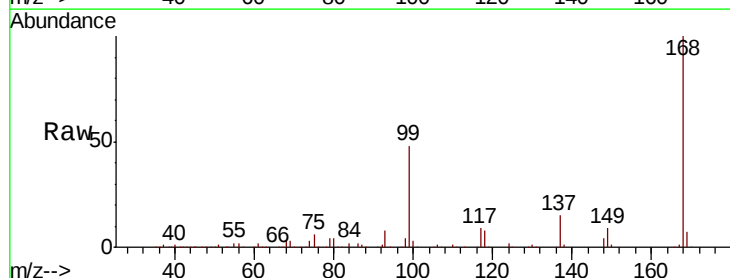
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20190607

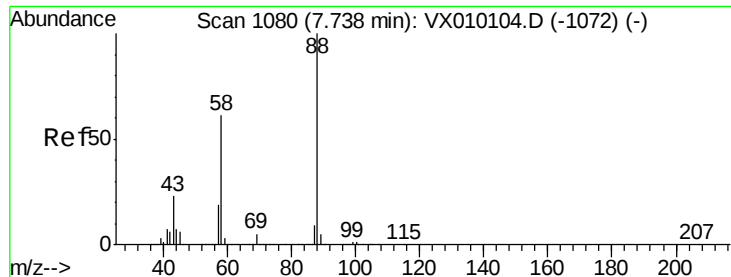
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	16.7	50.1#
77	0.3	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.047 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX010303.D
 Acq: 14 Jun 2019 16:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.3	115.9#
121	0.0	25.4	38.0#

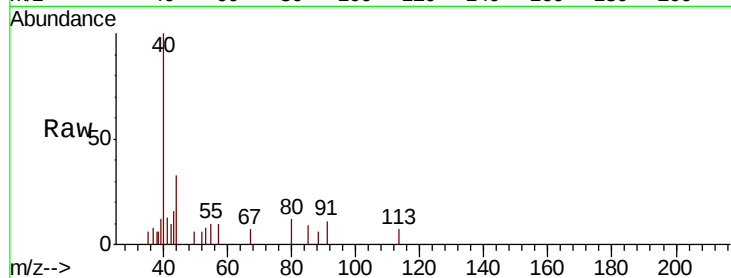




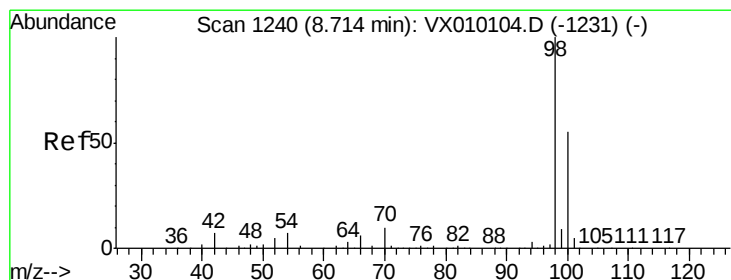
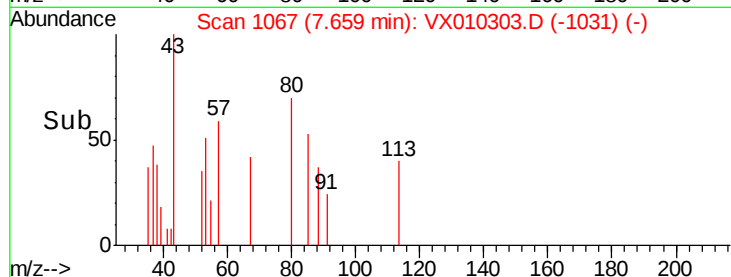
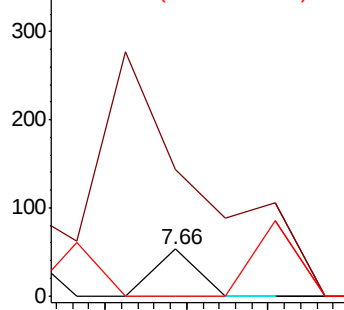
#49
1,4-Dioxane
Concen: 0.209 ug/l
RT: 7.66 min Scan# 1067
Delta R.T. -0.08 min
Lab File: VX010303.D
Acq: 14 Jun 2019 16:16

Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20190607

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1636.8 30.2 45.4#
58 115.8 64.0 96.0#

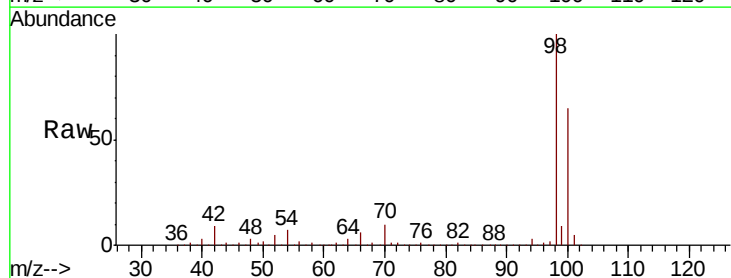


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

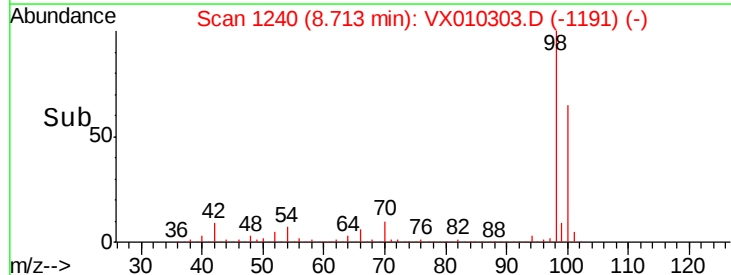
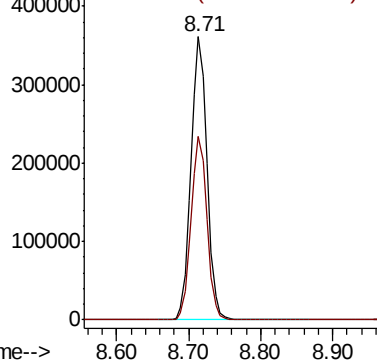


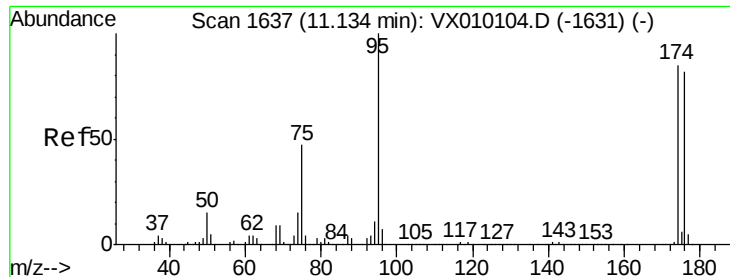
#50
Toluene-d8
Concen: 50.221 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010303.D
Acq: 14 Jun 2019 16:16

Tgt Ion: 98 Resp: 558409
Ion Ratio Lower Upper
98 100
100 64.5 51.5 77.3



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





#62

4-Bromofluorobenzene

Concen: 46.579 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190607

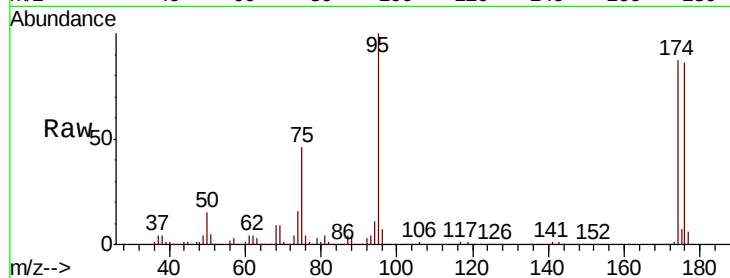
Tot Ion: 95 Resp: 193420

Ion Ratio Lower Upper

95 100

174 92.8 0.0 160.4

176 91.4 0.0 154.6



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

11.13

150000

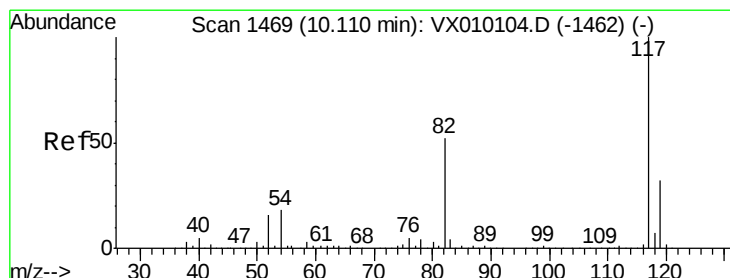
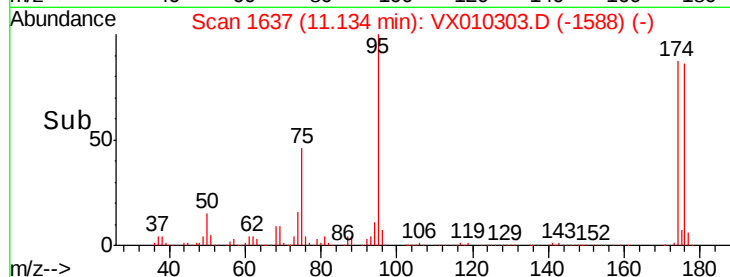
100000

50000

0

11.10 11.20 11.30

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

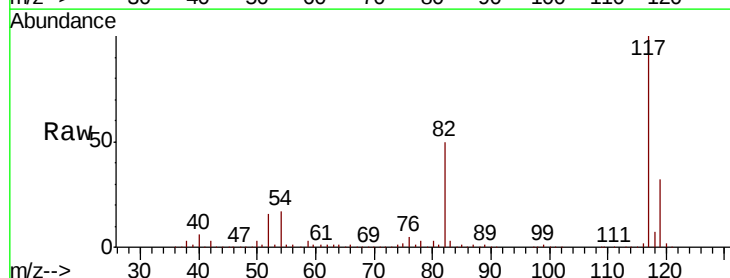
Tgt Ion: 117 Resp: 428950

Ion Ratio Lower Upper

117 100

82 49.5 49.2 73.8

119 32.5 25.2 37.8



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

10.11

400000

300000

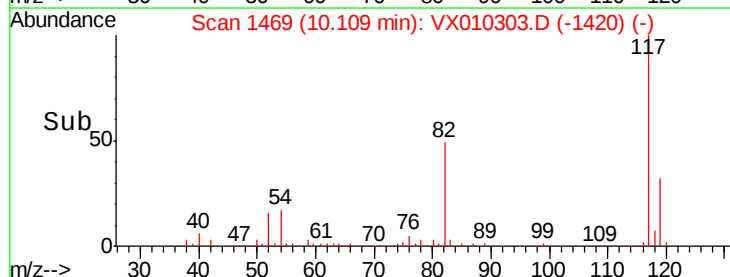
200000

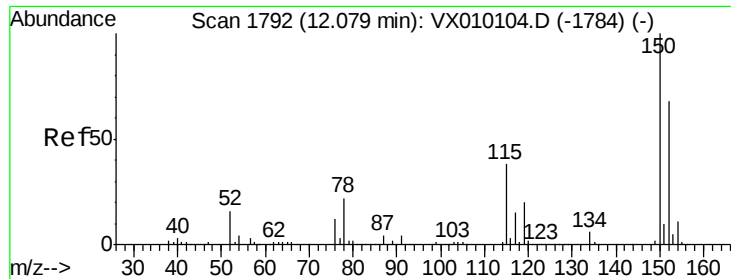
100000

0

10.00 10.10 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190607

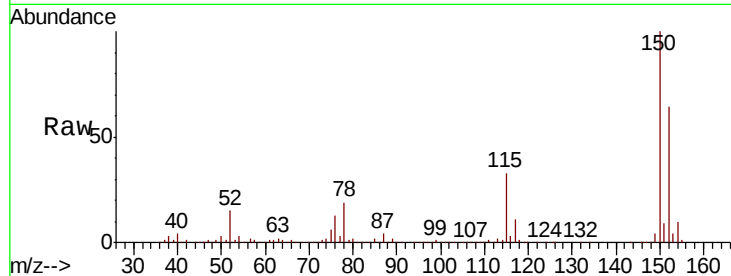
Tot Ion:152 Resp: 202949

Ion Ratio Lower Upper

152 100

115 53.9 41.4 124.2

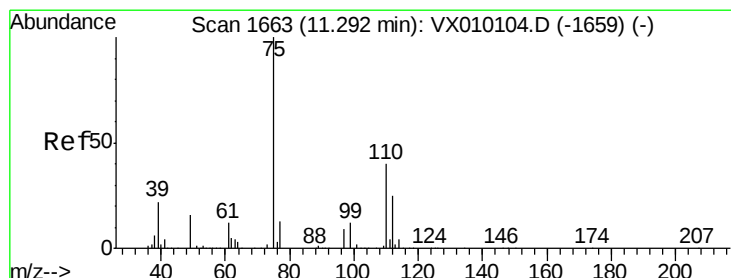
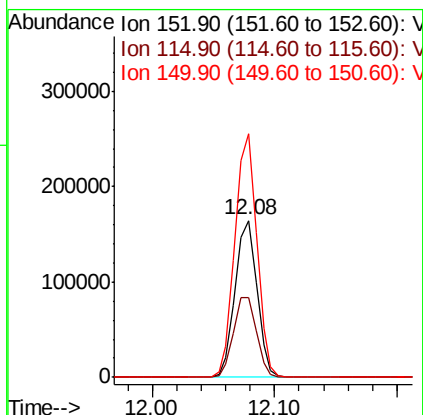
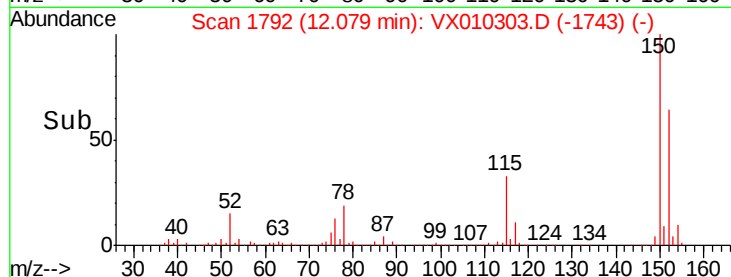
150 155.7 0.0 345.2



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: 21.634 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010303.D

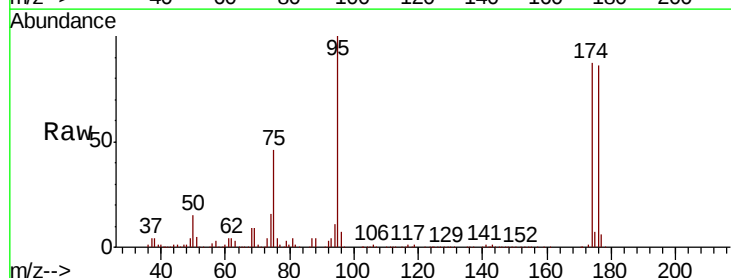
Acq: 14 Jun 2019 16:16

Tgt Ion: 75 Resp: 87821

Ion Ratio Lower Upper

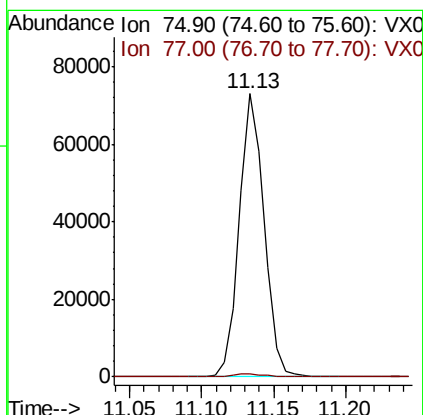
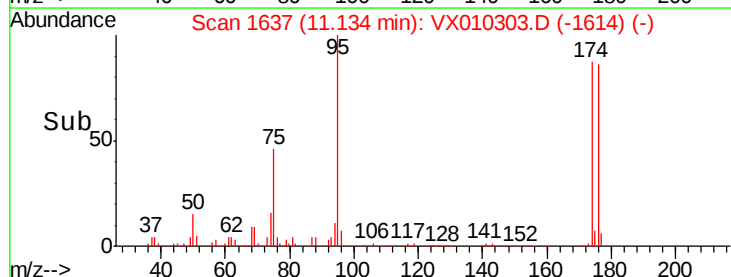
75 100

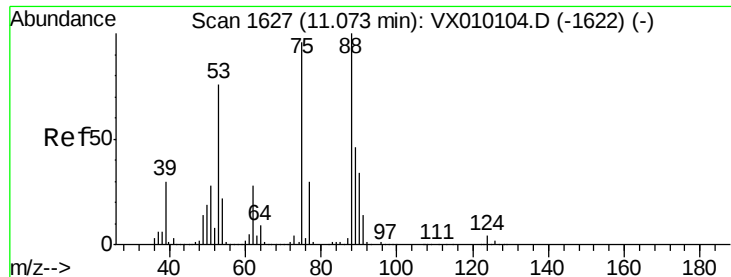
77 1.3 22.1 66.1#



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: 47.799 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010303.D

Acq: 14 Jun 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190607

Tot Ion: 75 Resp: 87821

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.1 34.2 51.4#

