

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008092.D
 Acq On : 15 Mar 2019 01:33
 Operator : JC/SP
 Sample : K1839-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20190307

Quant Time: Mar 15 04:31:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	299967	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	458240	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	436175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	213428	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	151759	50.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.30%	
35) Dibromofluoromethane	5.50	113	147067	50.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.22%	
50) Toluene-d8	8.71	98	548513	49.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	11.13	95	201549	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	

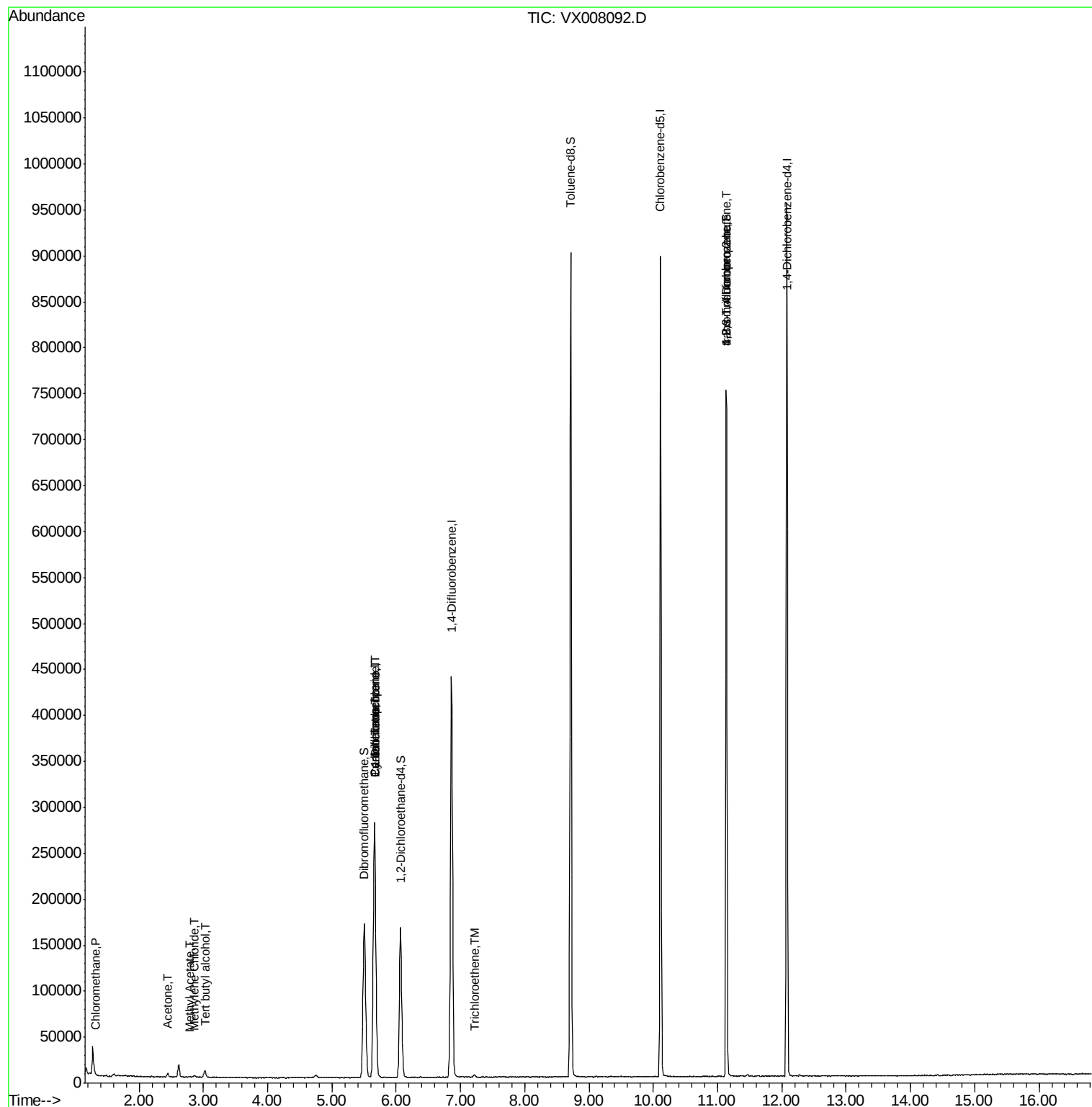
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	584	0.207	ug/l	95
5) Bromomethane	1.65	94	192	Below Cal	#	69
6) Chloroethane	1.67	64	282	Below Cal	#	43
11) Tert butyl alcohol	3.03	59	4640	7.937	ug/l #	79
16) Acetone	2.45	43	3826	2.678	ug/l	92
18) Methyl Acetate	2.78	43	686	0.222	ug/l	99
20) Methylene Chloride	2.87	84	849	0.333	ug/l #	78
31) Cyclohexane	5.67	56	4211	0.973	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17378	4.610	ug/l #	49
38) Carbon Tetrachloride	5.66	117	25095	6.916	ug/l #	17
44) Trichloroethene	7.22	130	1087	0.326	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	90232	24.343	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	90232	69.273	ug/l #	11

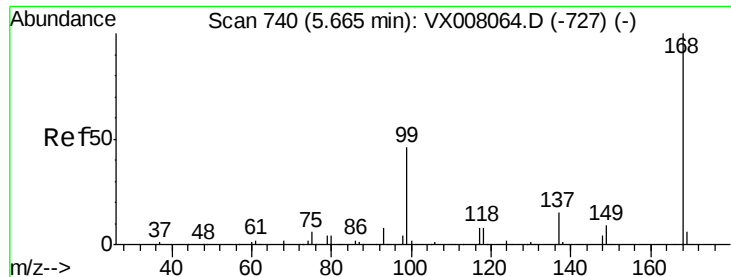
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008092.D

Acq: 15 Mar 2019 01:33

Instrument :

MSVOA_X

ClientSampleId :

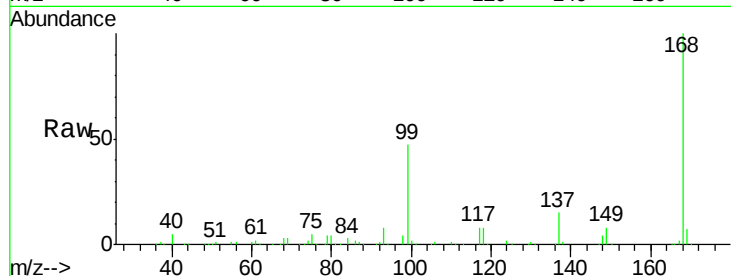
RE104D3-20190307

Tot Ion:168 Resp: 299967

Ion Ratio Lower Upper

168 100

99 46.7 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

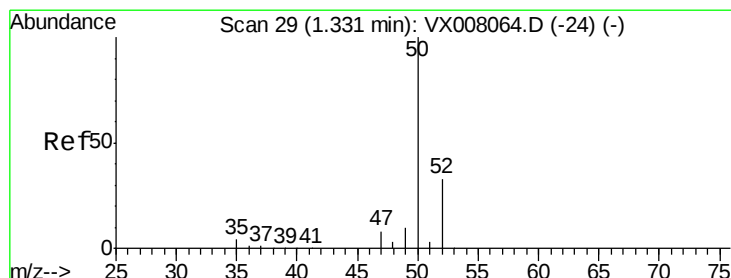
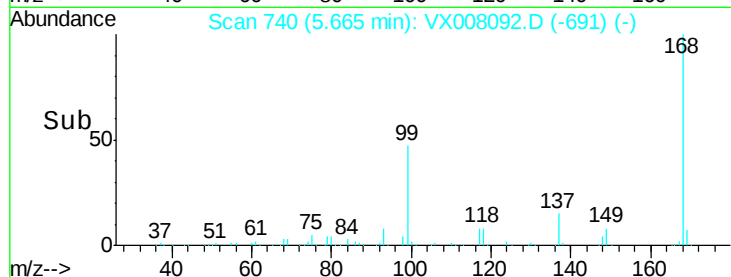
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008092.D

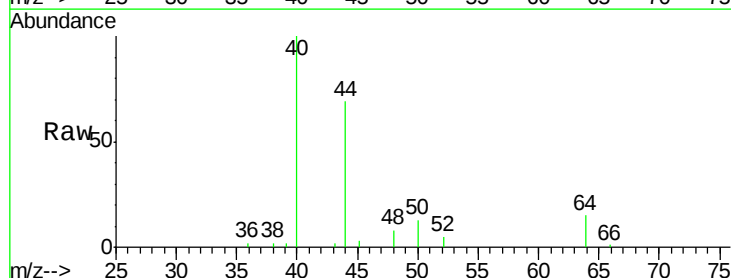
Acq: 15 Mar 2019 01:33

Tgt Ion: 50 Resp: 584

Ion Ratio Lower Upper

50 100

52 35.7 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

500

400

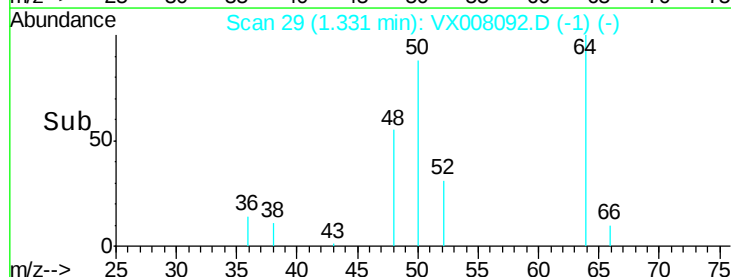
300

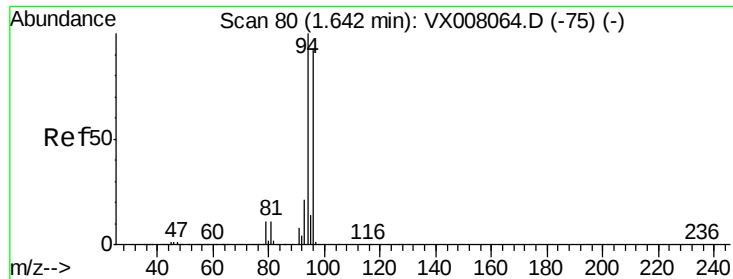
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008092.D

Acq: 15 Mar 2019 01:33

Instrument :

MSVOA_X

ClientSampleId :

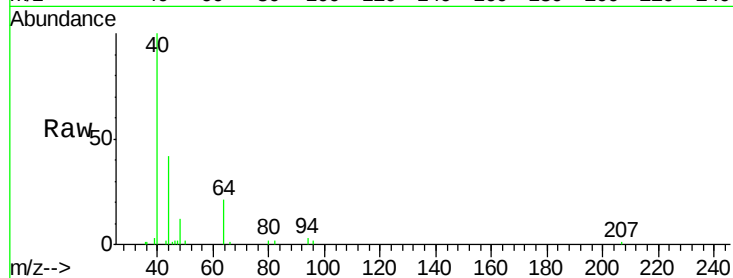
RE104D3-20190307

Tot Ion: 94 Resp: 192

Ion Ratio Lower Upper

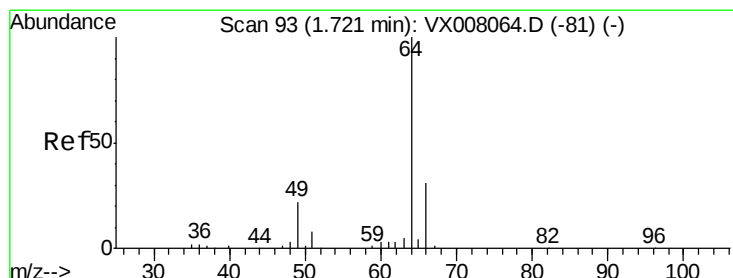
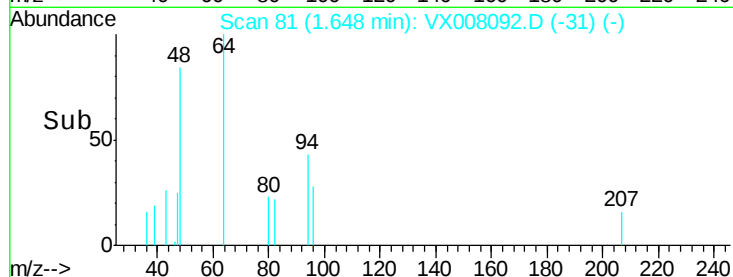
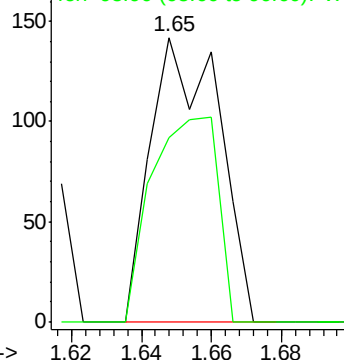
94 100

96 64.8 75.5 113.3#



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: 1.67 min Scan# 84

Delta R.T. -0.05 min

Lab File: VX008092.D

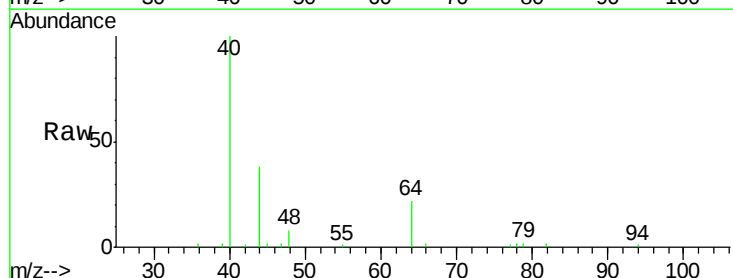
Acq: 15 Mar 2019 01:33

Tgt Ion: 64 Resp: 282

Ion Ratio Lower Upper

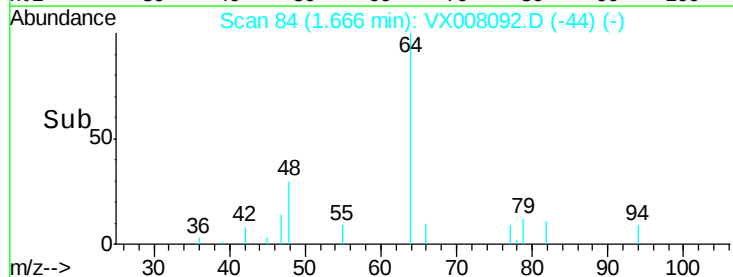
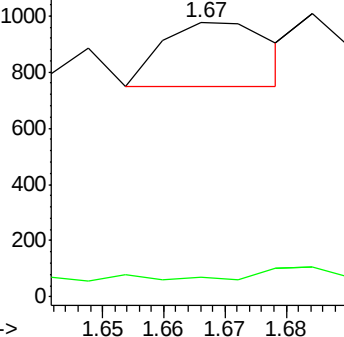
64 100

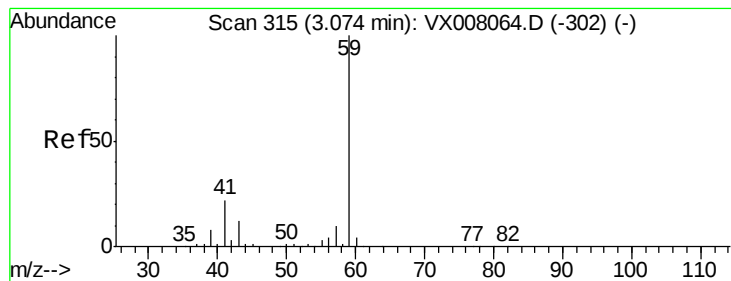
66 0.0 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



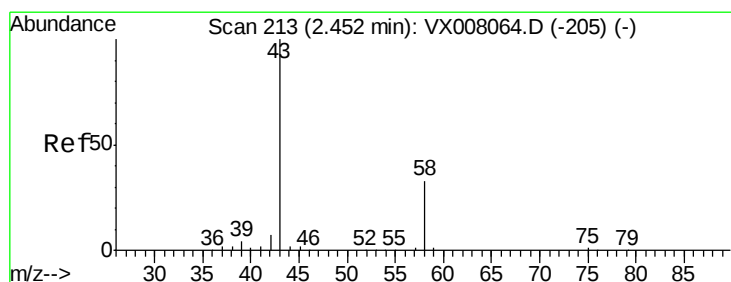
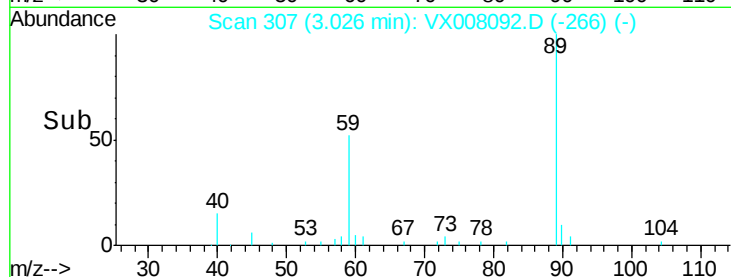
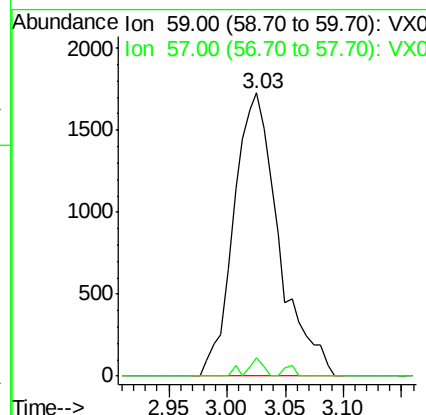
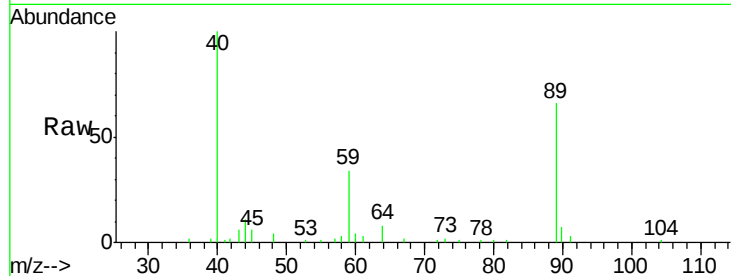


#11

Tert butyl alcohol
 Concen: 7.937 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX008092.D
 Acq: 15 Mar 2019 01:33

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20190307

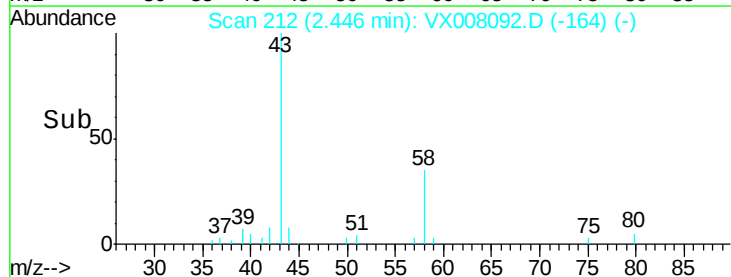
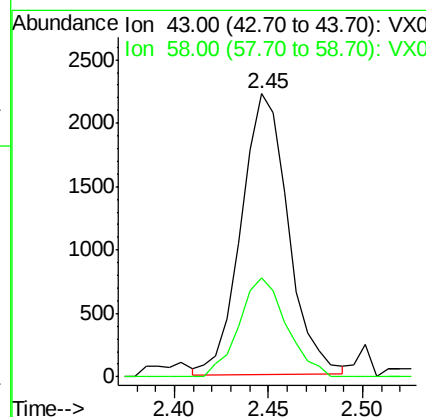
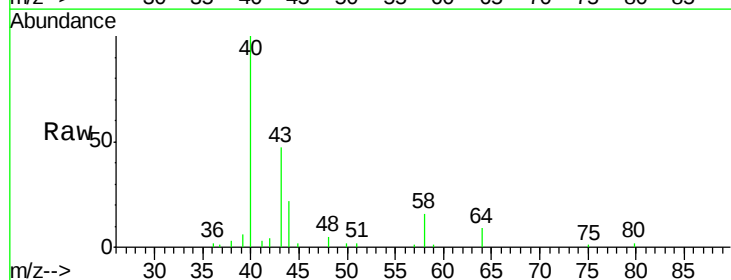
Tot Ion: 59 Resp: 4640
 Ion Ratio Lower Upper
 59 100
 57 2.3 8.2 12.2#

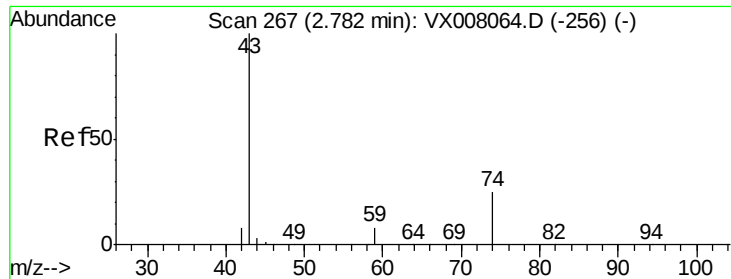


#16

Acetone
 Concen: 2.678 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.01 min
 Lab File: VX008092.D
 Acq: 15 Mar 2019 01:33

Tgt Ion: 43 Resp: 3826
 Ion Ratio Lower Upper
 43 100
 58 36.2 25.5 38.3

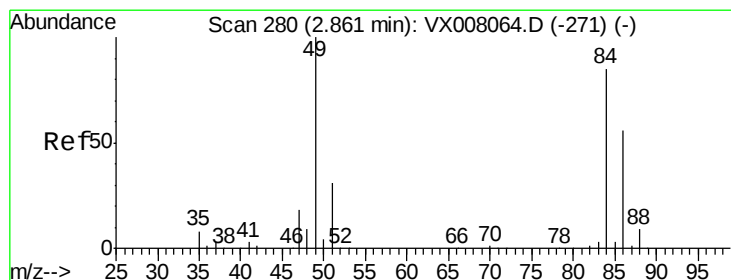
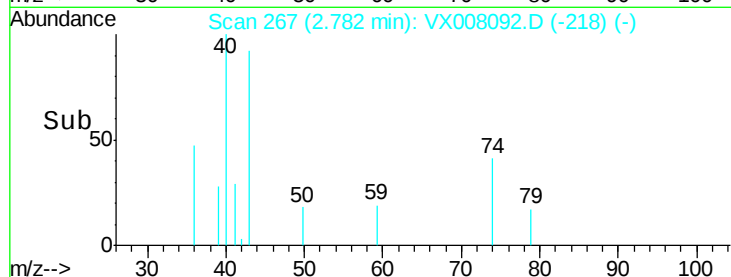
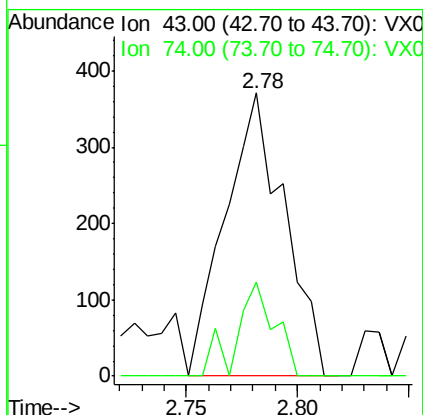
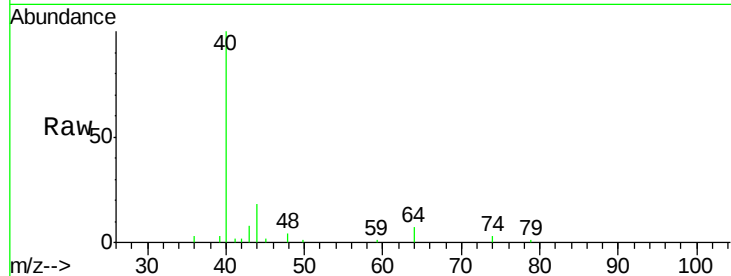




#18
Methyl Acetate
Concen: 0.222 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX008092.D
Acq: 15 Mar 2019 01:33

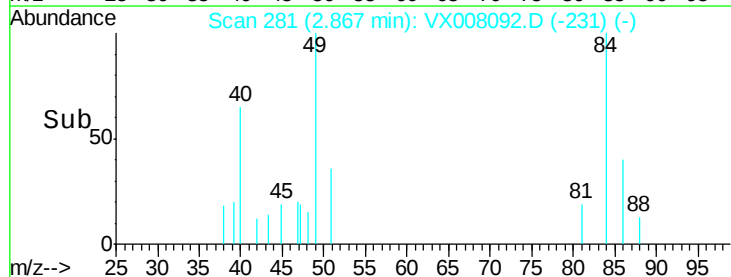
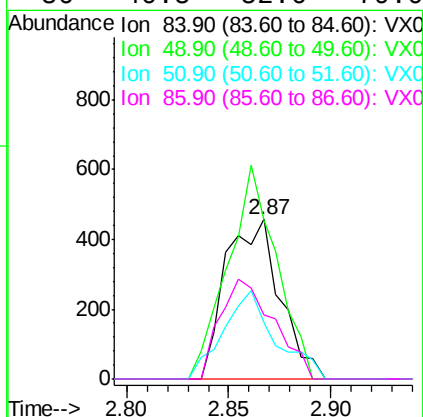
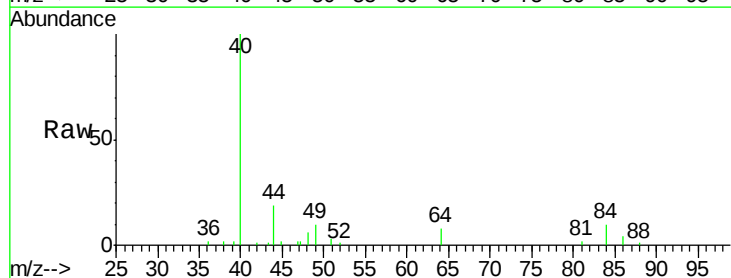
Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20190307

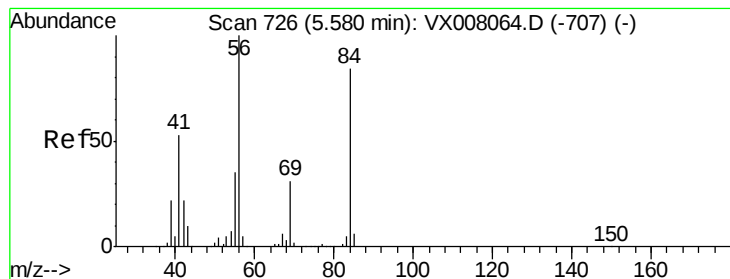
Tot Ion: 43 Resp: 686
Ion Ratio Lower Upper
43 100
74 21.6 17.8 26.6



#20
Methylene Chloride
Concen: 0.333 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX008092.D
Acq: 15 Mar 2019 01:33

Tgt Ion: 84 Resp: 849
Ion Ratio Lower Upper
84 100
49 99.8 99.3 148.9
51 35.7 31.3 46.9
86 40.5 52.6 79.0#





#31

Cyclohexane

Concen: 0.973 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008092.D

Acq: 15 Mar 2019 01:33

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190307

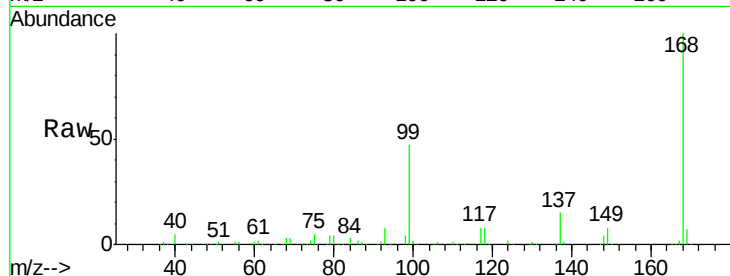
Tot Ion: 56 Resp: 4211

Ion Ratio Lower Upper

56 100

69 206.3 24.0 36.0#

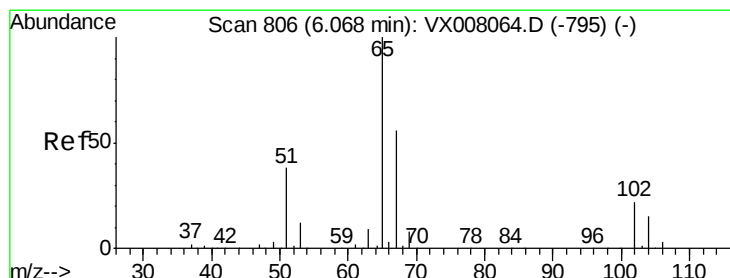
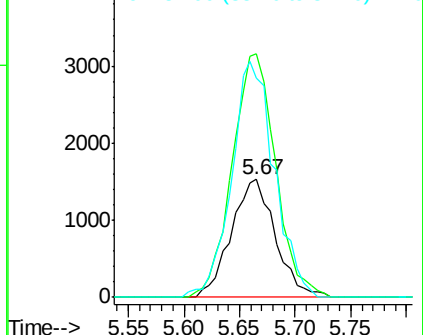
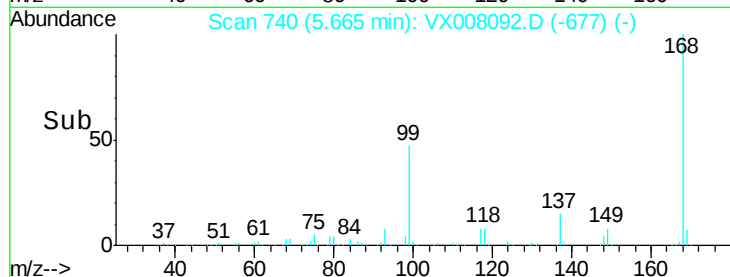
84 186.0 65.3 97.9#



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: 50.154 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008092.D

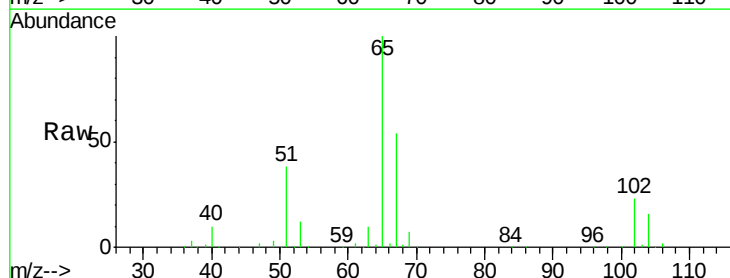
Acq: 15 Mar 2019 01:33

Tgt Ion: 65 Resp: 151759

Ion Ratio Lower Upper

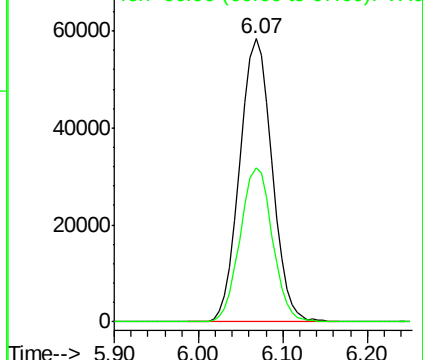
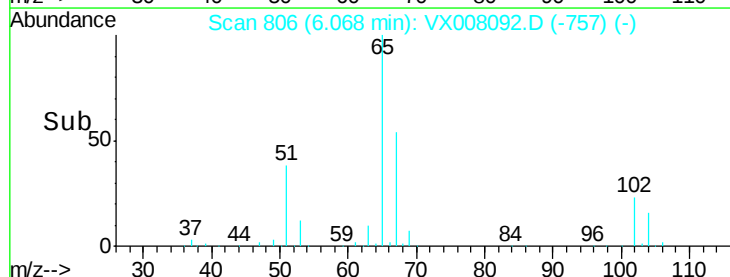
65 100

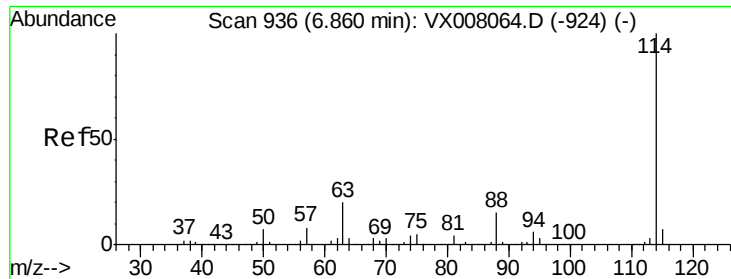
67 54.4 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

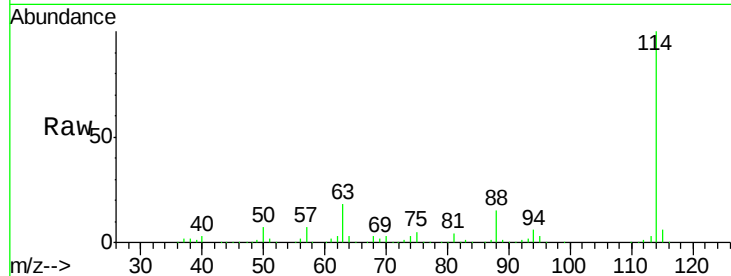




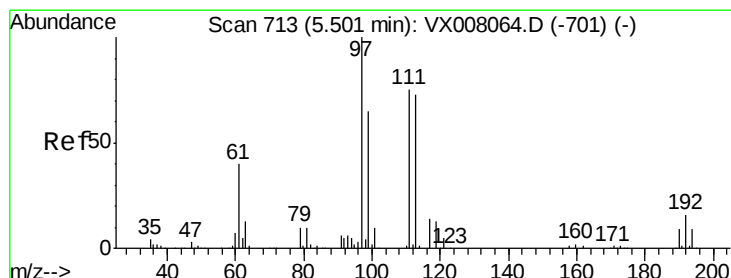
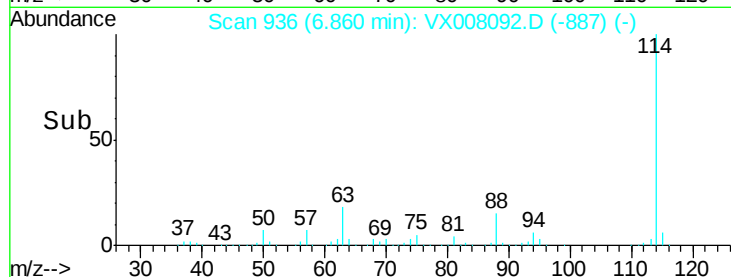
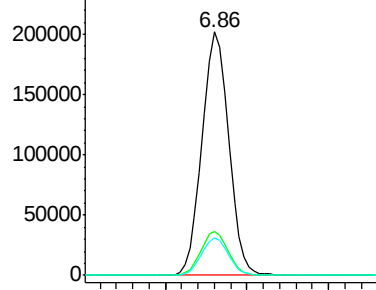
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX008092.D
Acq: 15 Mar 2019 01:33

Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20190307

Tot Ion:114 Resp: 458240
Ion Ratio Lower Upper
114 100
63 18.1 0.0 39.8
88 15.2 0.0 31.4

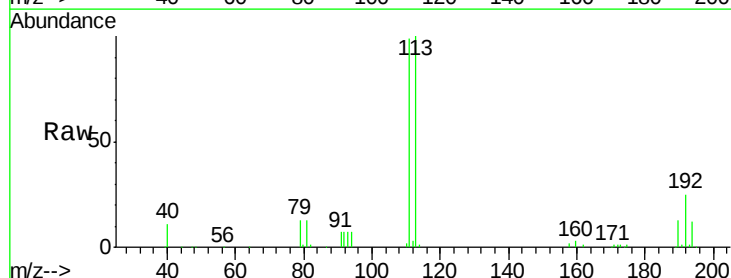


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

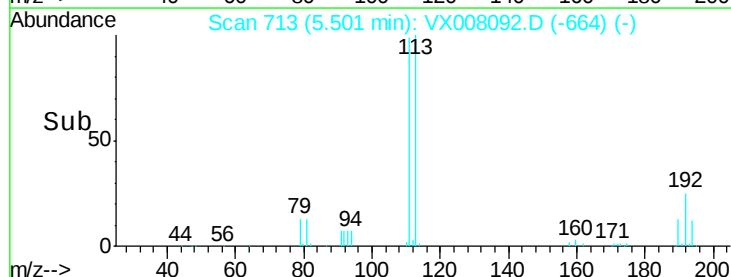
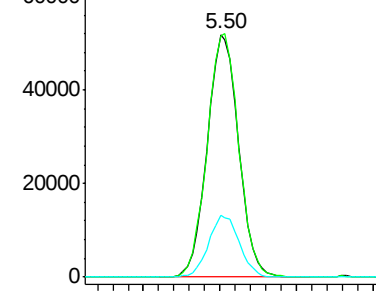


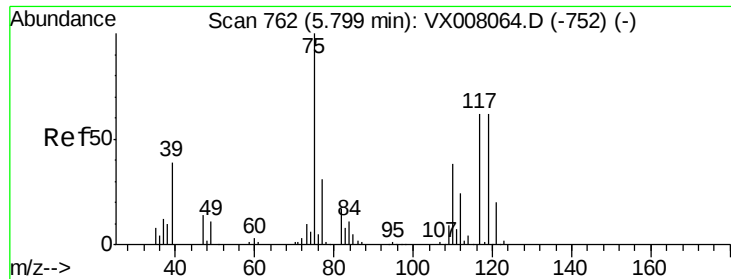
#35
Dibromofluoromethane
Concen: 50.610 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX008092.D
Acq: 15 Mar 2019 01:33

Tgt Ion:113 Resp: 147067
Ion Ratio Lower Upper
113 100
111 101.0 81.4 122.0
192 25.1 19.4 29.0



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

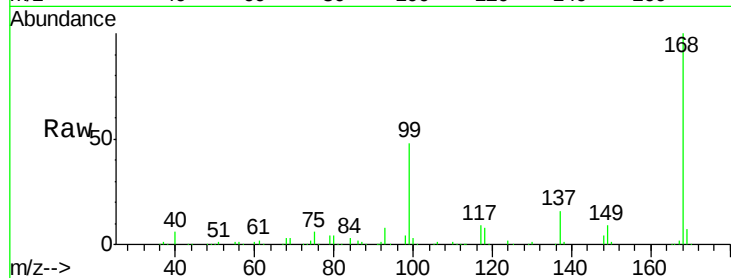




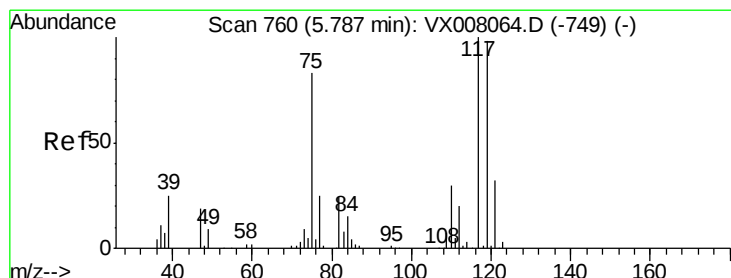
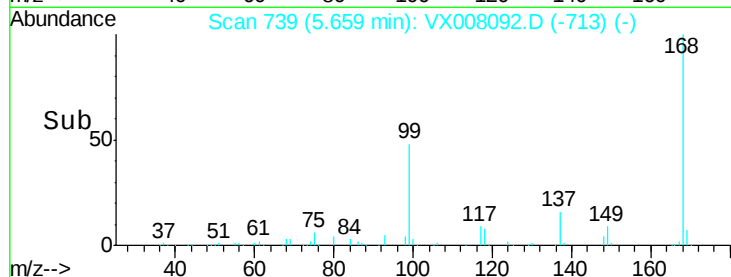
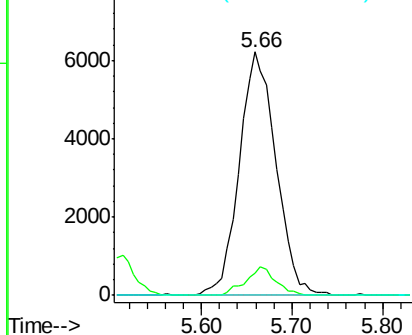
#36
 1,1-Dichloropropene
 Concen: 4.610 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008092.D
 Acq: 15 Mar 2019 01:33

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20190307

Tot Ion: 75 Resp: 17378
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.4 55.0#
 77 0.0 25.0 37.4#

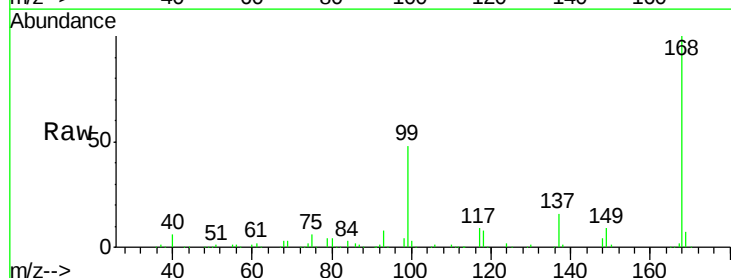


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

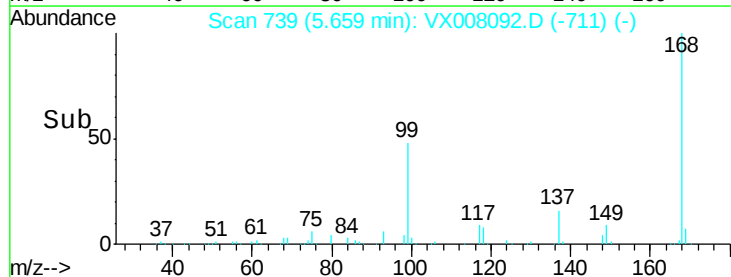
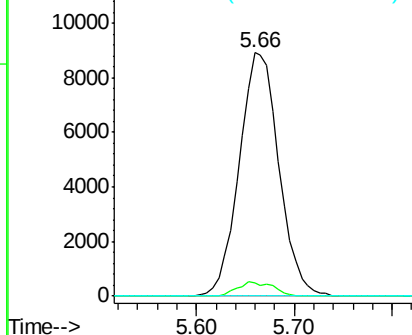


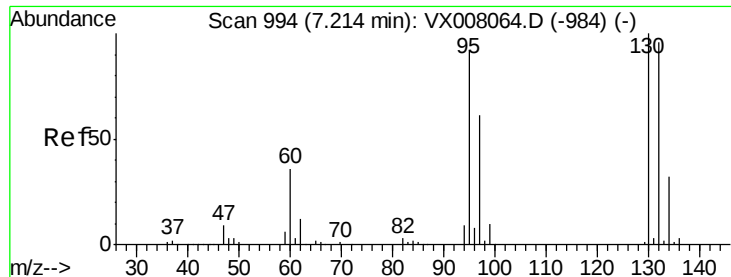
#38
 Carbon Tetrachloride
 Concen: 6.916 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008092.D
 Acq: 15 Mar 2019 01:33

Tgt Ion: 117 Resp: 25095
 Ion Ratio Lower Upper
 117 100
 119 5.6 76.2 114.2#
 121 0.0 24.6 36.8#



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: 0.326 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008092.D

Acq: 15 Mar 2019 01:33

Instrument :

MSVOA_X

ClientSampleId :

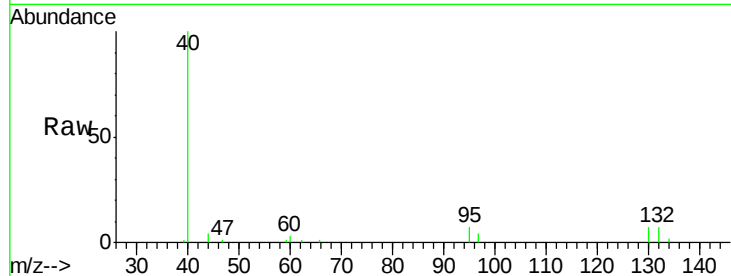
RE104D3-20190307

Tot Ion:130 Resp: 1087

Ion Ratio Lower Upper

130 100

95 96.7 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

400

300

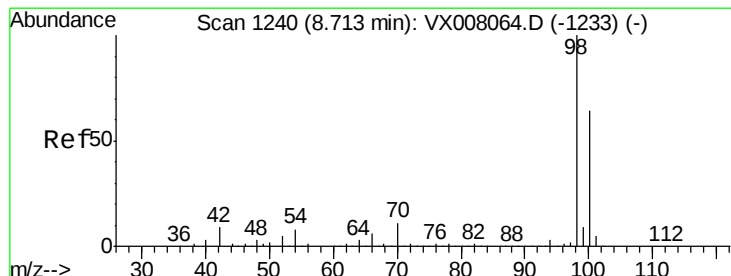
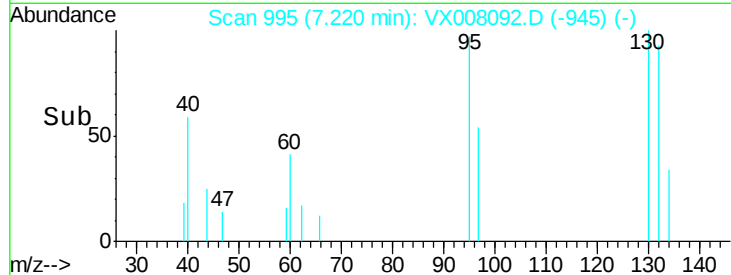
200

100

0

7.15 7.20 7.25

Time-->



#50

Toluene-d8

Concen: 49.630 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008092.D

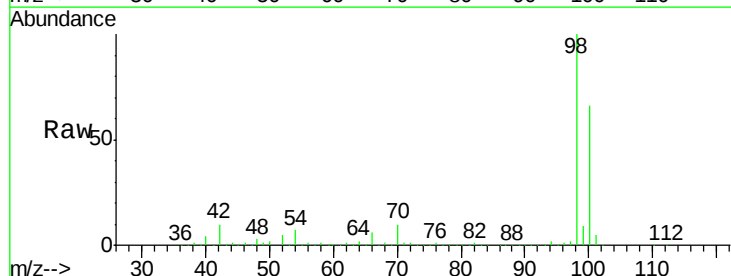
Acq: 15 Mar 2019 01:33

Tgt Ion: 98 Resp: 548513

Ion Ratio Lower Upper

98 100

100 65.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

400000

300000

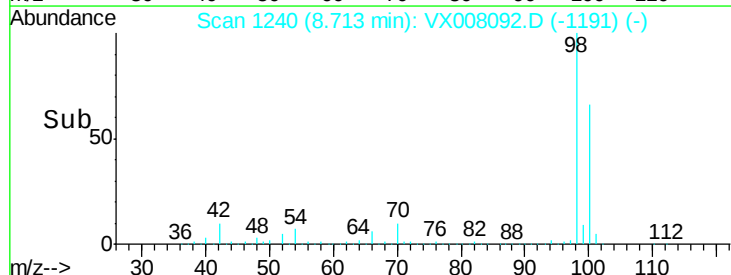
200000

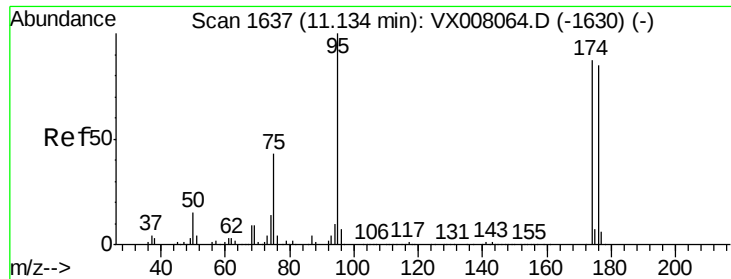
100000

0

8.60 8.70 8.80 8.90

Time-->





#62

4-Bromofluorobenzene

Concen: 50.906 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008092.D

Acq: 15 Mar 2019 01:33

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190307

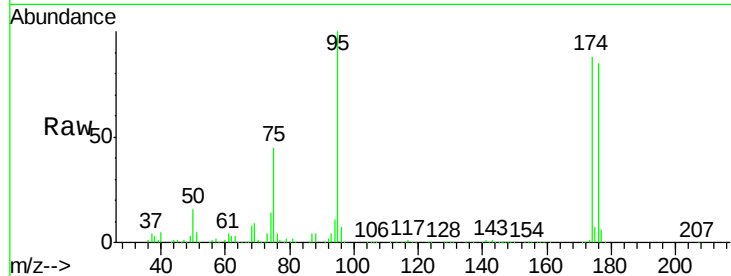
Tot Ion: 95 Resp: 201549

Ion Ratio Lower Upper

95 100

174 95.5 0.0 182.8

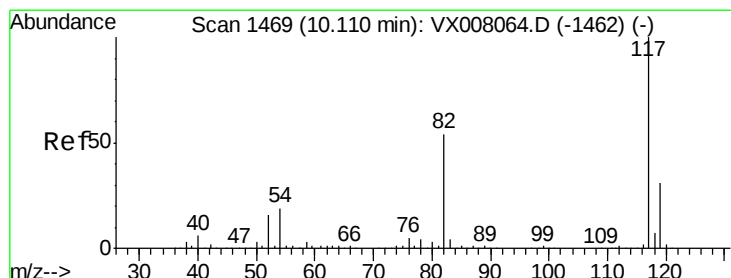
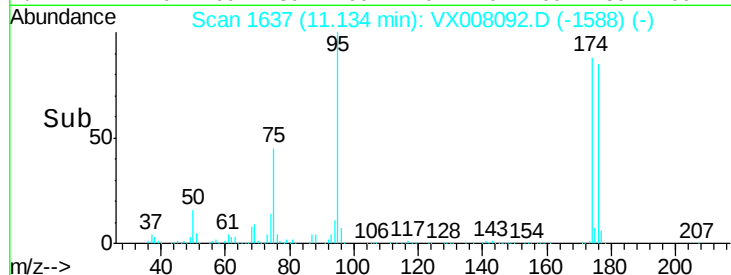
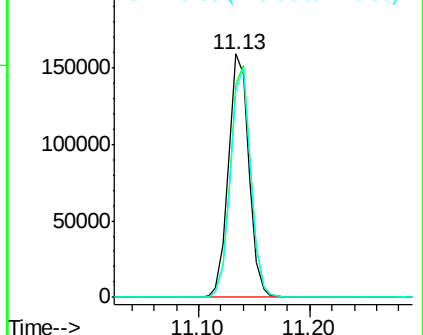
176 93.1 0.0 178.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008092.D

Acq: 15 Mar 2019 01:33

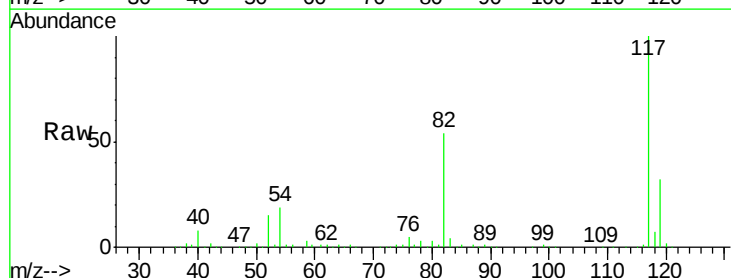
Tgt Ion: 117 Resp: 436175

Ion Ratio Lower Upper

117 100

82 54.2 44.3 66.5

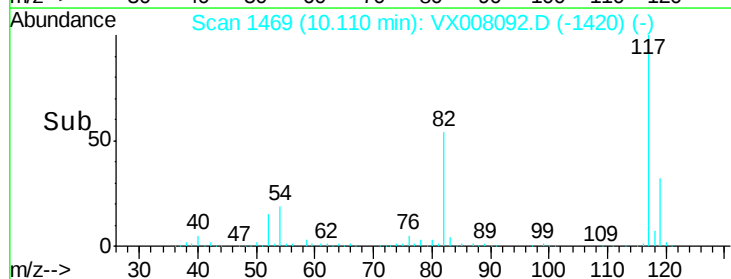
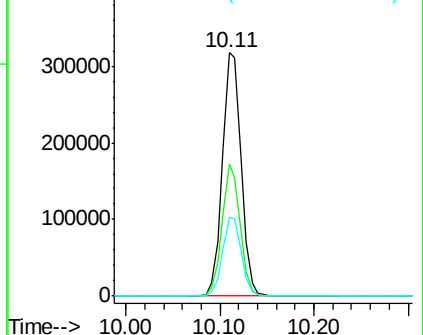
119 32.4 25.3 37.9

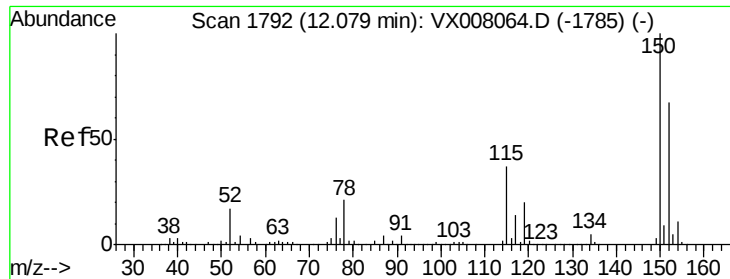


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008092.D

Acq: 15 Mar 2019 01:33

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190307

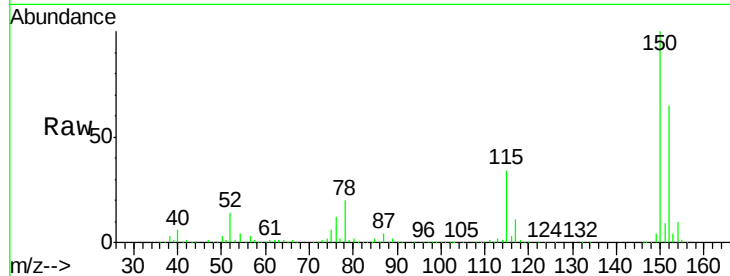
Tot Ion:152 Resp: 213428

Ion Ratio Lower Upper

152 100

115 54.0 38.6 115.7

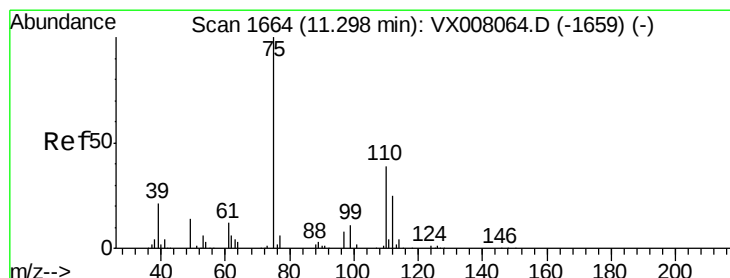
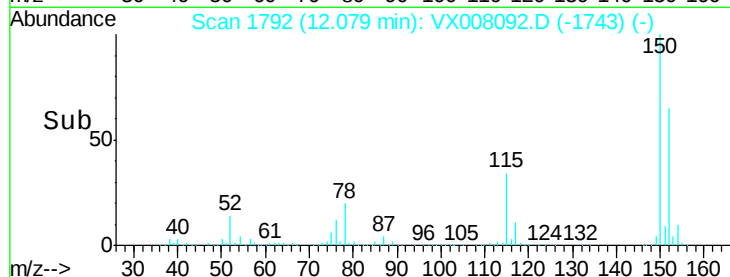
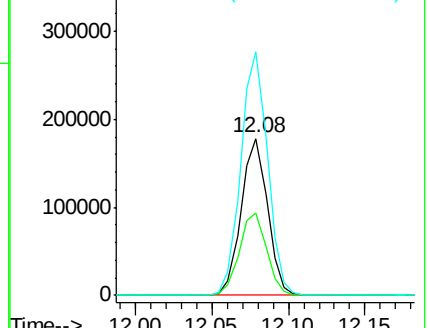
150 157.4 0.0 348.4



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: 24.343 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008092.D

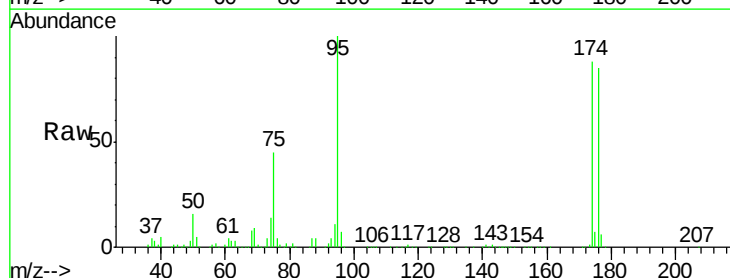
Acq: 15 Mar 2019 01:33

Tgt Ion: 75 Resp: 90232

Ion Ratio Lower Upper

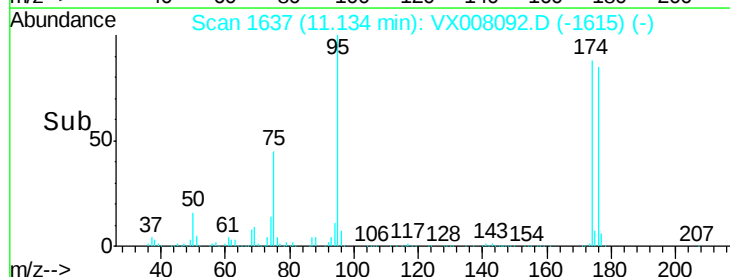
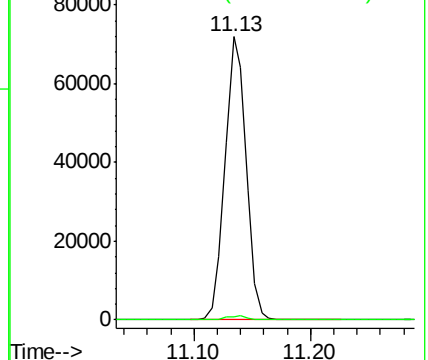
75 100

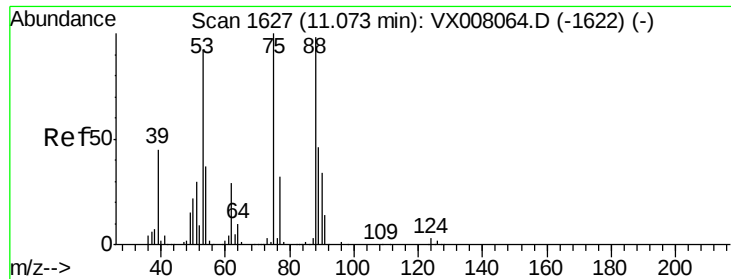
77 1.4 18.9 56.7#



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: 69.273 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008092.D

Acq: 15 Mar 2019 01:33

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20190307

Tot Ion: 75 Resp: 90232

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#

