

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041319\
 Data File : VX008935.D
 Acq On : 13 Apr 2019 16:32
 Operator : JC/SP
 Sample : K2385-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:15:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	313160	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	274463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118888	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	126473	44.29	ug/l	0.00
Spiked Amount			Recovery	=	88.58%	
35) Dibromofluoromethane	5.50	113	93326	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	8.71	98	390598	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
62) 4-Bromofluorobenzene	11.13	95	133286	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	

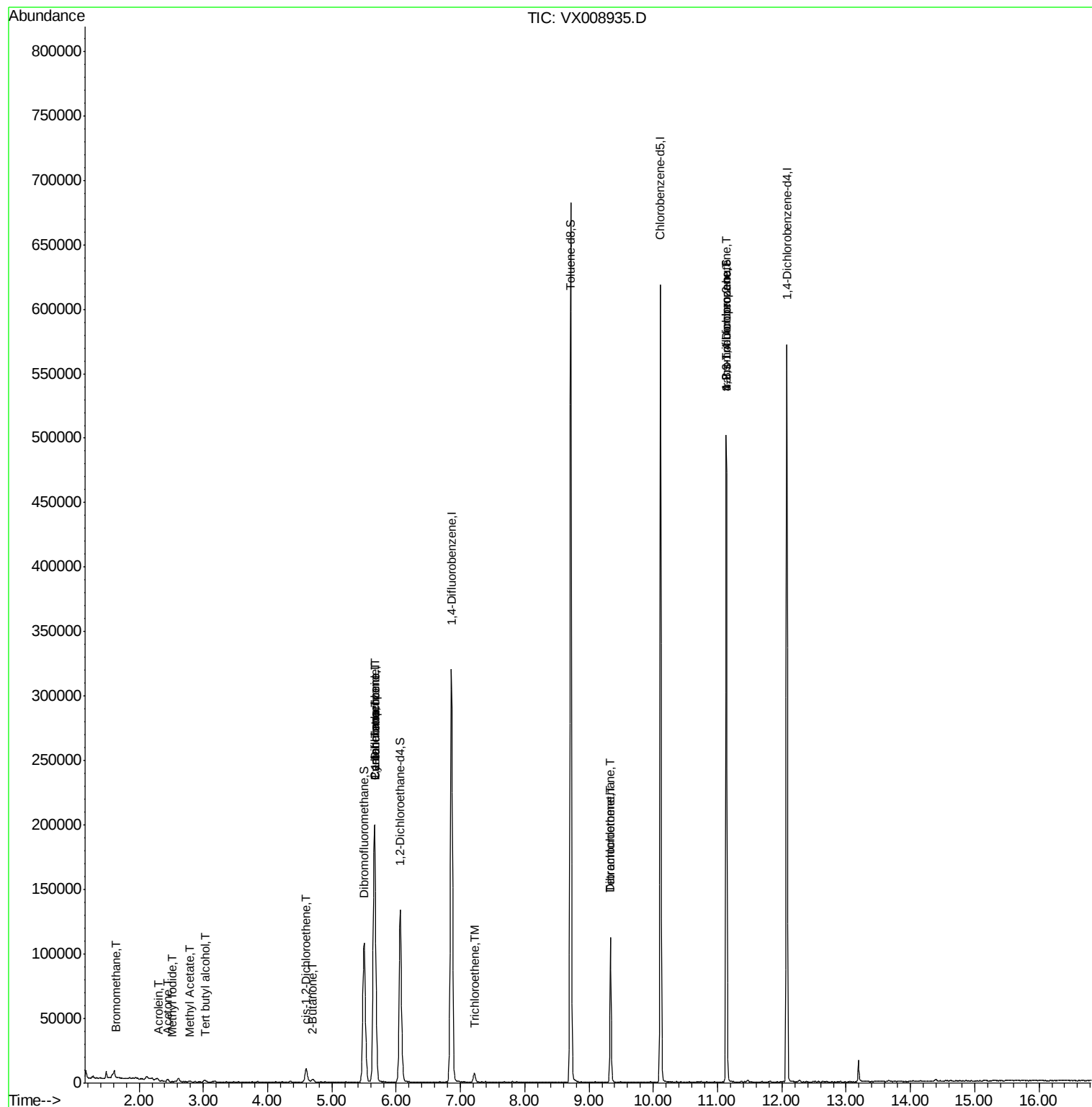
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	233	Below Cal		92
5) Bromomethane	1.64	94	156	1.985	ug/l	88
6) Chloroethane	1.74	64	161	Below Cal	#	43
10) Methyl Iodide	2.52	142	25	4.015	ug/l #	42
11) Tert butyl alcohol	3.02	59	797	1.192	ug/l #	79
13) Acrolein	2.30	56	378	1.140	ug/l #	65
16) Acetone	2.45	43	2323	1.412	ug/l	97
17) Carbon Disulfide	2.57	76	632	Below Cal	#	75
18) Methyl Acetate	2.78	43	1143	0.287	ug/l	97
25) 2-Butanone	4.70	43	790	0.304	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	6580	2.338	ug/l	86
28) Bromochloromethane	5.00	49	21	Below Cal	#	22
31) Cyclohexane	5.67	56	4440	0.900	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15292	4.467	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18354	6.478	ug/l #	16
44) Trichloroethene	7.22	130	2914	1.227	ug/l	87
60) Dibromochloromethane	9.34	129	20067	8.824	ug/l #	11
64) Tetrachloroethene	9.34	164	21865	10.752	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	67493	20.666	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67493	56.966	ug/l #	9

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

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QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :

MSVOA_X

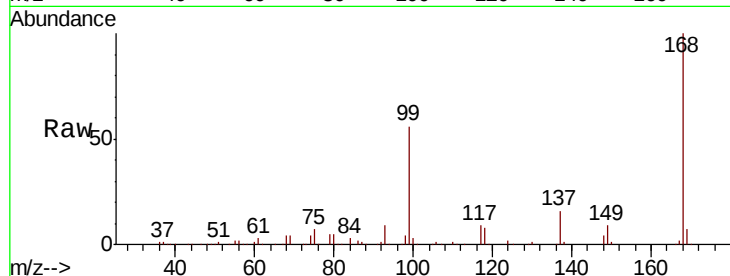
ClientSampleId :

Tot Ion:168 Resp: 195770

Ion Ratio Lower Upper

168 100

99 55.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

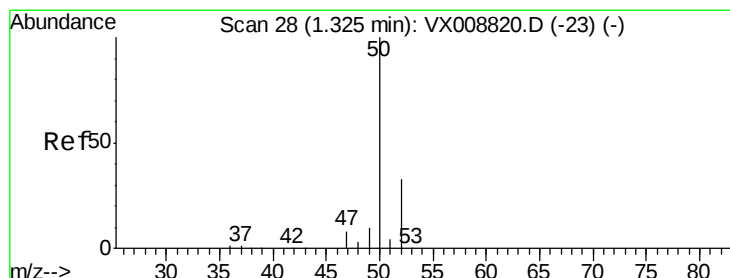
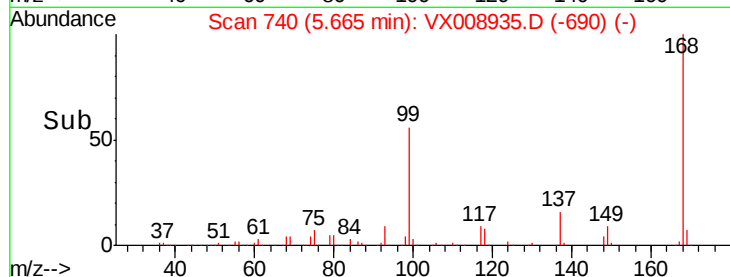
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008935.D

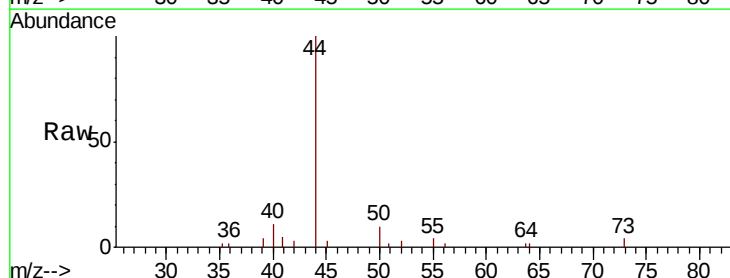
Acq: 13 Apr 2019 16:32

Tgt Ion: 50 Resp: 233

Ion Ratio Lower Upper

50 100

52 27.9 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

250

200

150

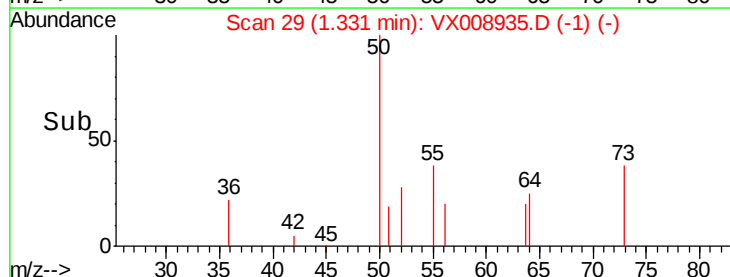
100

50

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: 1.985 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :

MSVOA_X

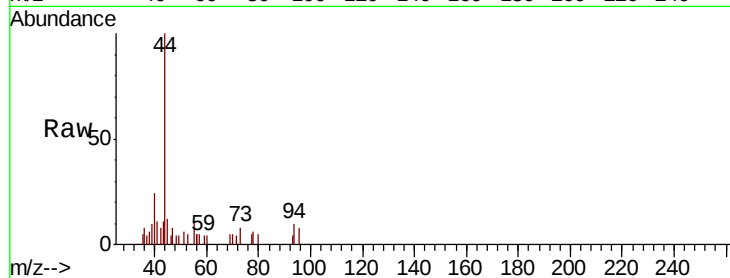
ClientSampled :

Tot Ion: 94 Resp: 156

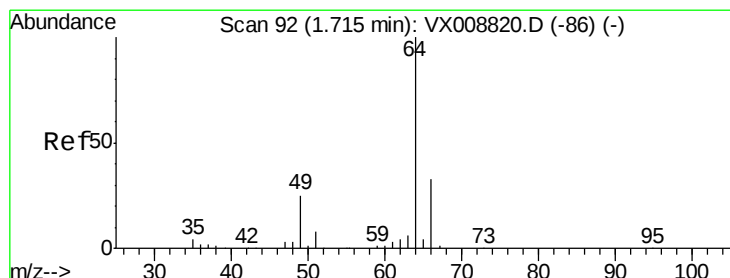
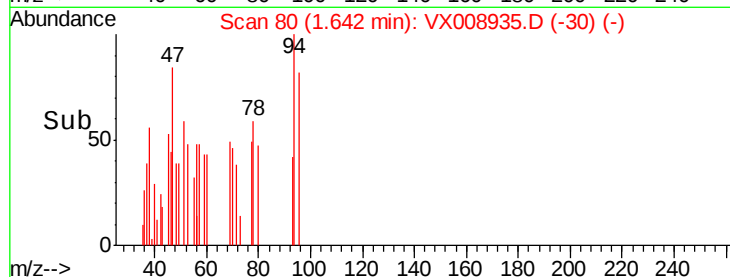
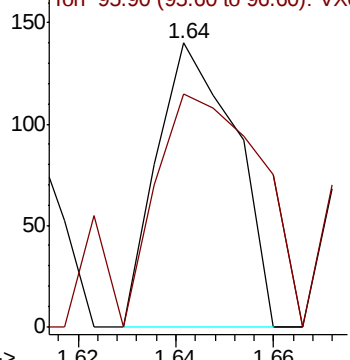
Ion Ratio Lower Upper

94 100

96 82.1 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.03 min

Lab File: VX008935.D

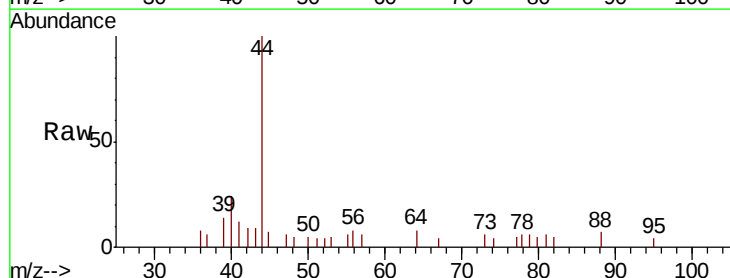
Acq: 13 Apr 2019 16:32

Tgt Ion: 64 Resp: 161

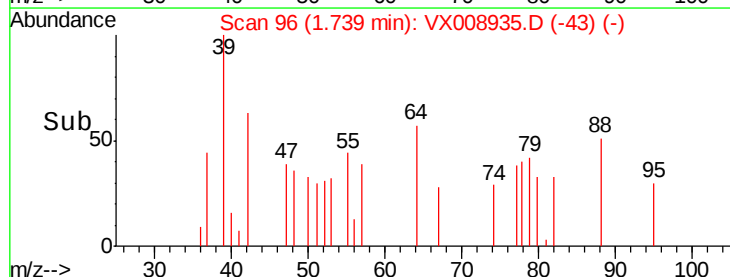
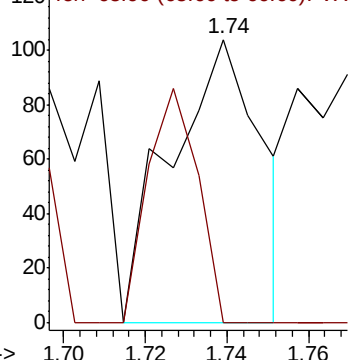
Ion Ratio Lower Upper

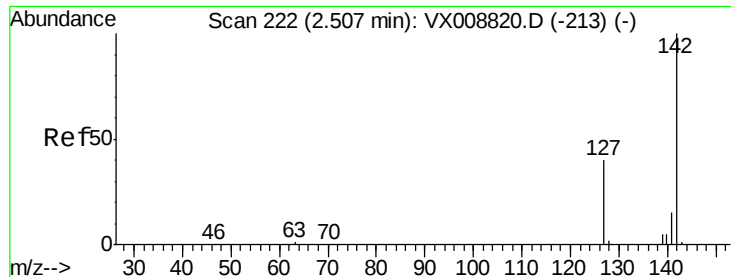
64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

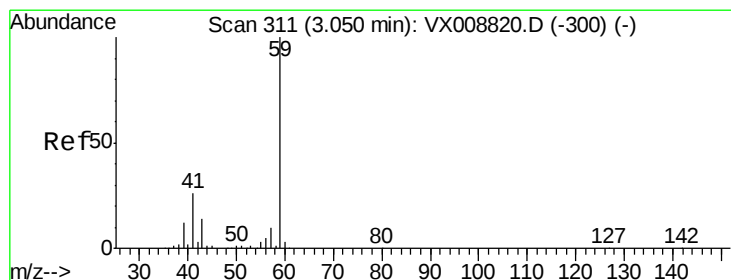
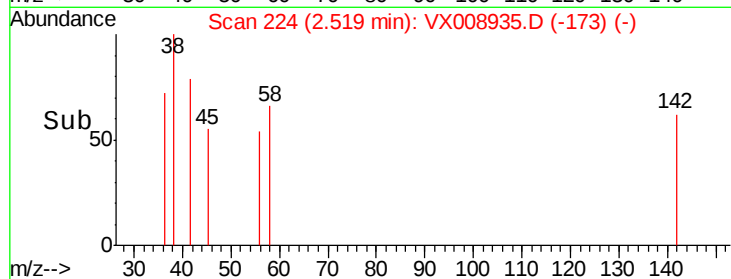
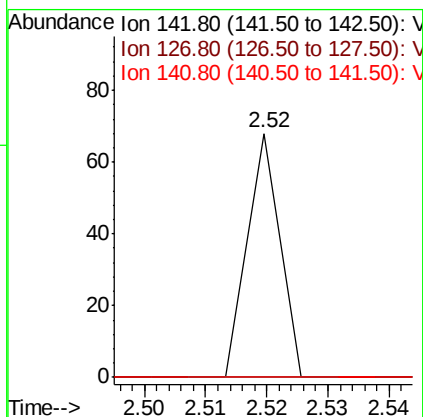
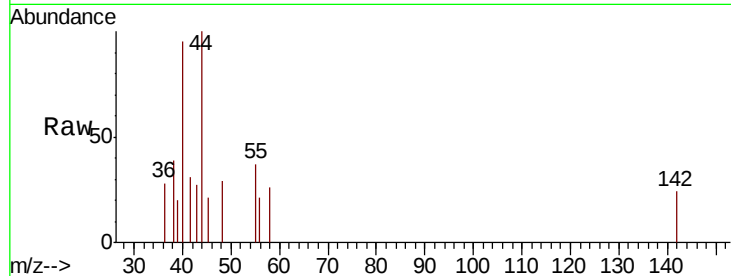




#10
Methvl Iodide
Concen: 4.015 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008935.D
Acq: 13 Apr 2019 16:32

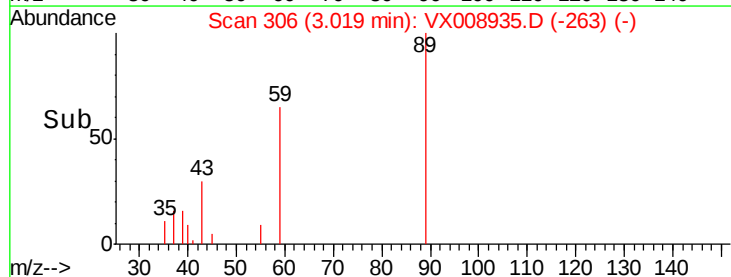
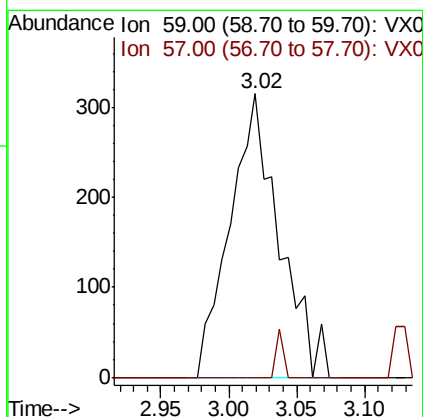
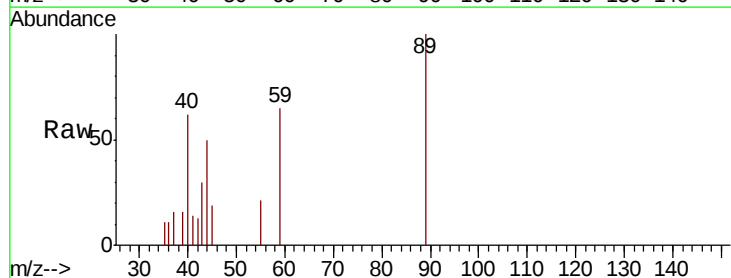
Instrument :
MSVOA_X
ClientSampled :

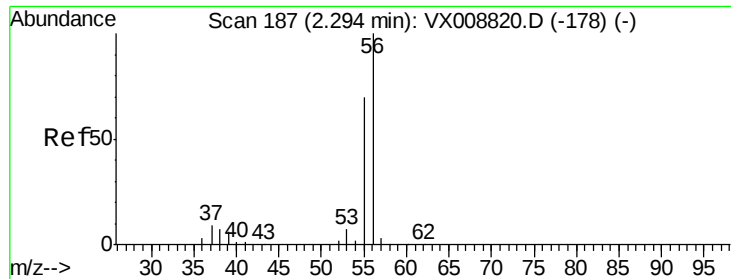
Tot Ion:142 Resp: 25
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.192 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008935.D
Acq: 13 Apr 2019 16:32

Tgt Ion: 59 Resp: 797
Ion Ratio Lower Upper
59 100
57 2.5 8.3 12.5#

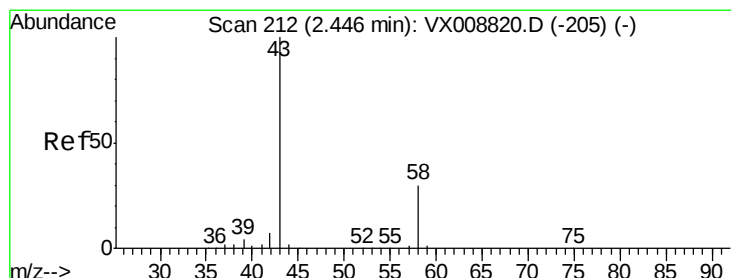
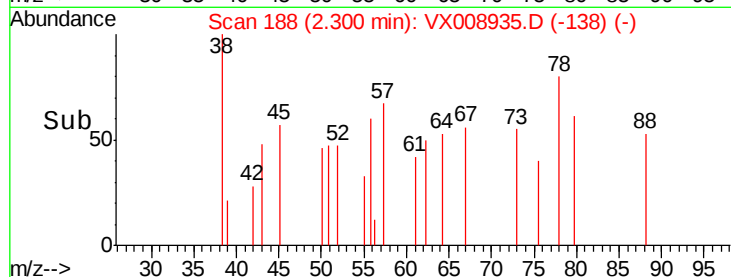
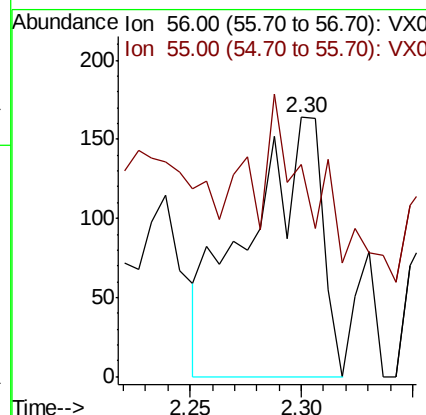
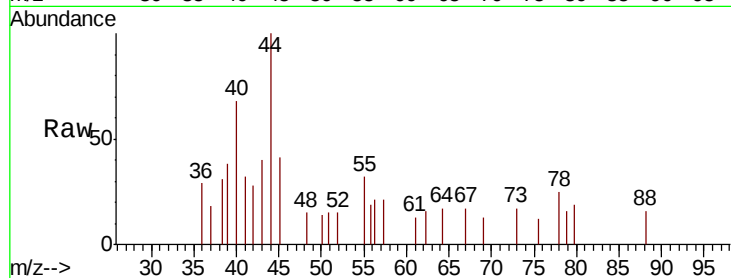




#13
Acrolein
Concen: 1.140 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX008935.D
Acq: 13 Apr 2019 16:32

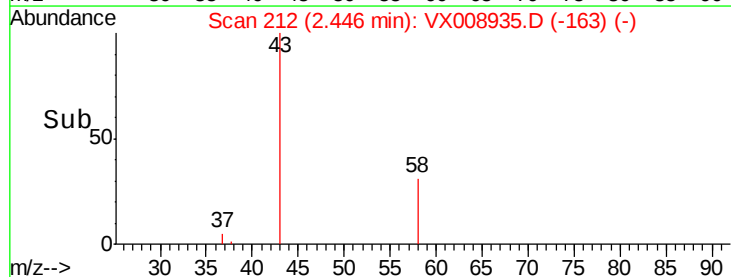
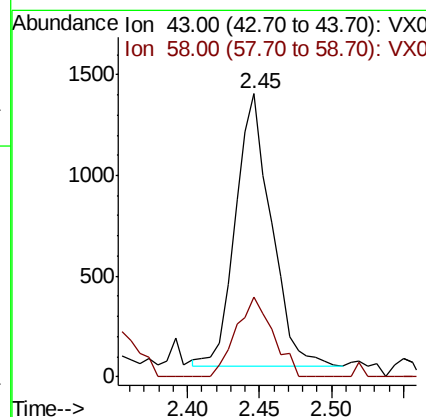
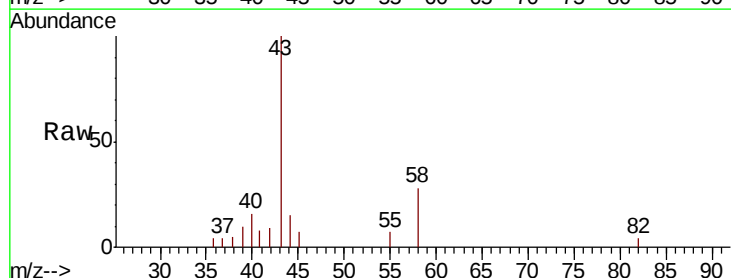
Instrument :
MSVOA_X
ClientSampled :

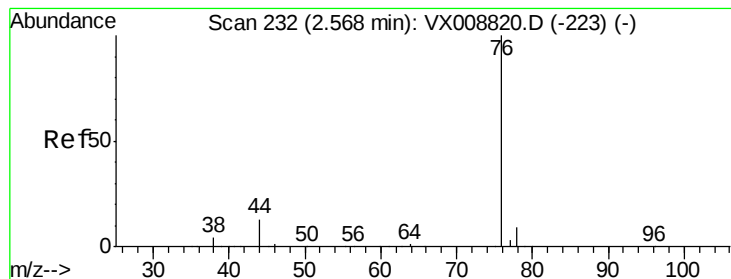
Tot Ion: 56 Resp: 378
Ion Ratio Lower Upper
56 100
55 43.4 58.0 87.0#



#16
Acetone
Concen: 1.412 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX008935.D
Acq: 13 Apr 2019 16:32

Tgt Ion: 43 Resp: 2323
Ion Ratio Lower Upper
43 100
58 29.3 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :

MSVOA_X

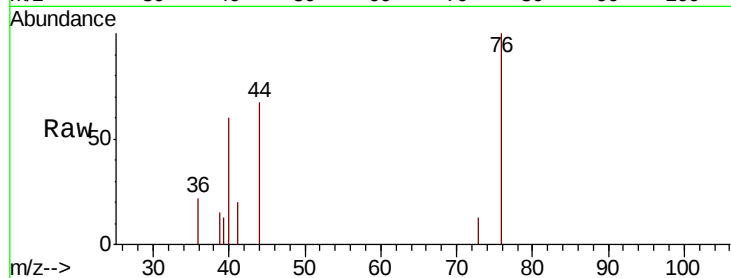
ClientSampled :

Tot Ion: 76 Resp: 632

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

200

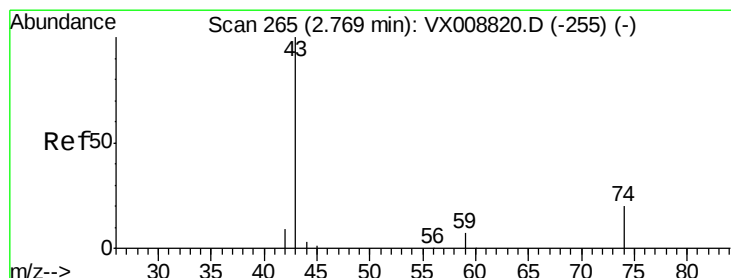
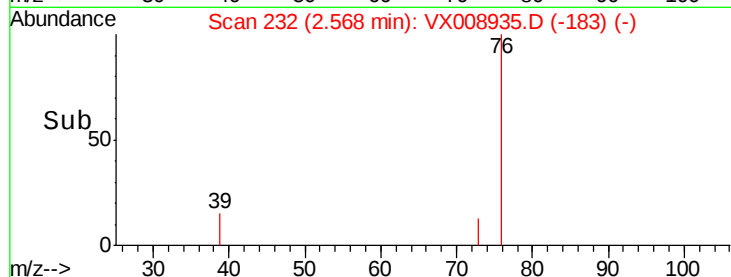
100

0

2.55

2.60

Time-->



#18

Methyl Acetate

Concen: 0.287 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX008935.D

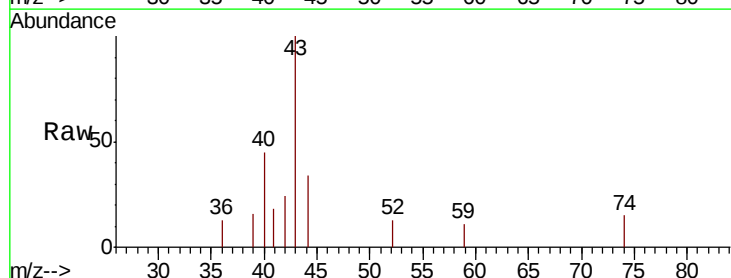
Acq: 13 Apr 2019 16:32

Tgt Ion: 43 Resp: 1143

Ion Ratio Lower Upper

43 100

74 22.2 16.5 24.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

500

400

300

200

100

0

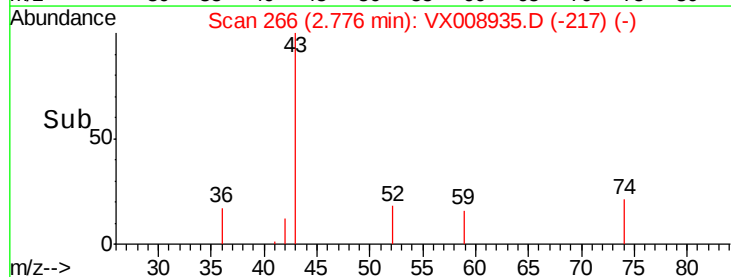
2.70

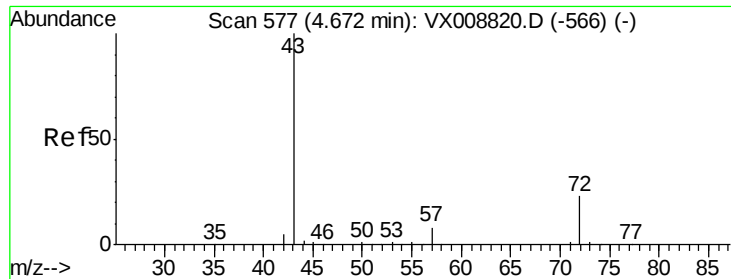
2.75

2.80

2.85

Time-->





#25

2-Butanone

Concen: 0.304 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :

MSVOA_X

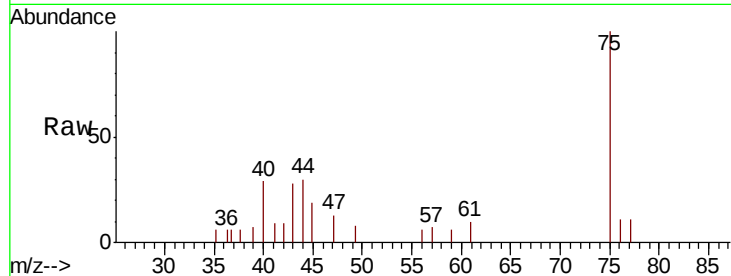
ClientSampled :

Tot Ion: 43 Resp: 790

Ion Ratio Lower Upper

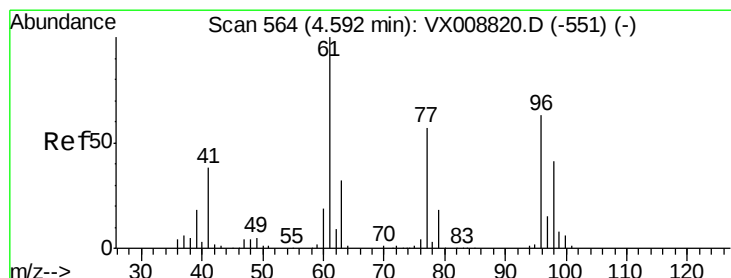
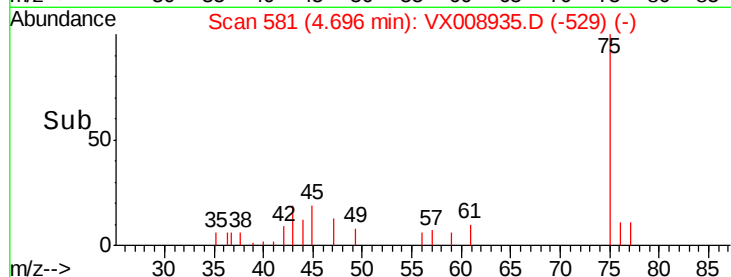
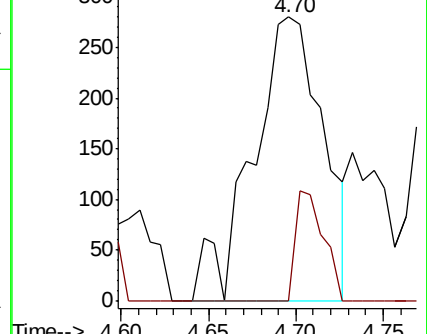
43 100

72 0.0 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.338 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

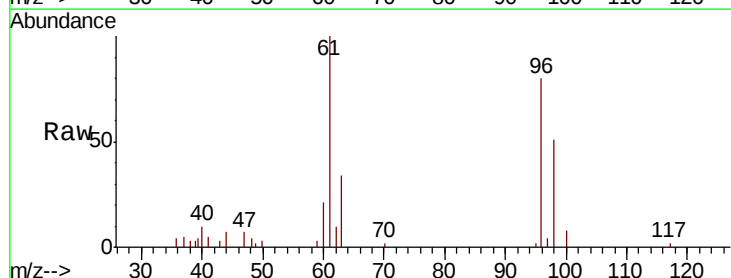
Tgt Ion: 96 Resp: 6580

Ion Ratio Lower Upper

96 100

61 138.8 0.0 327.6

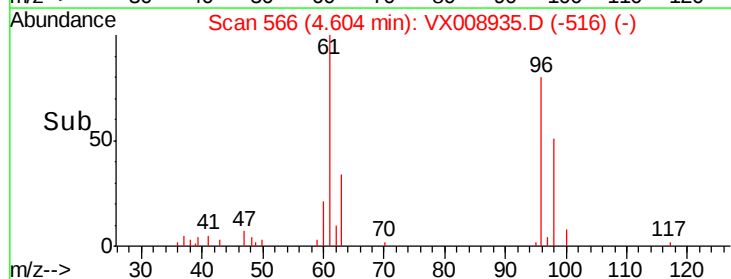
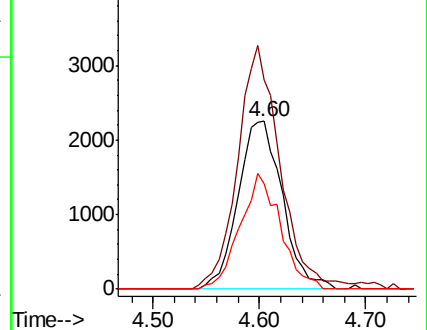
98 62.6 0.0 128.6

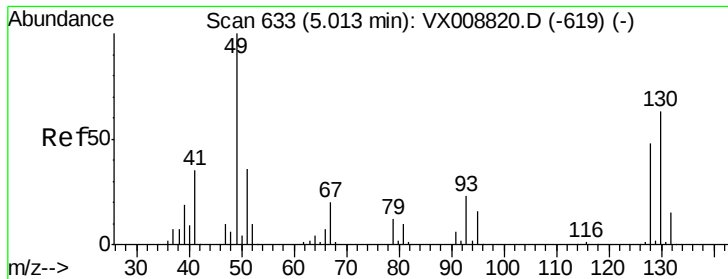


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.02 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

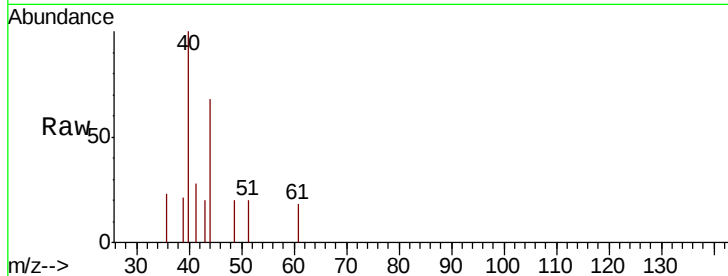
Tot Ion: 49 Resp: 21

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

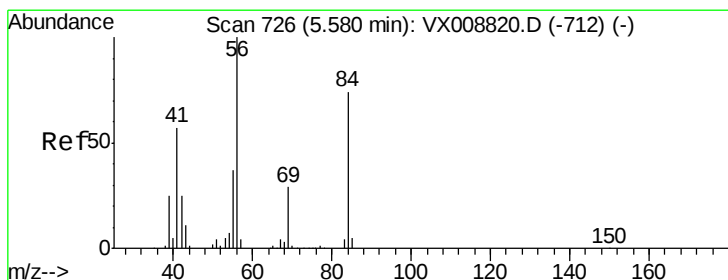
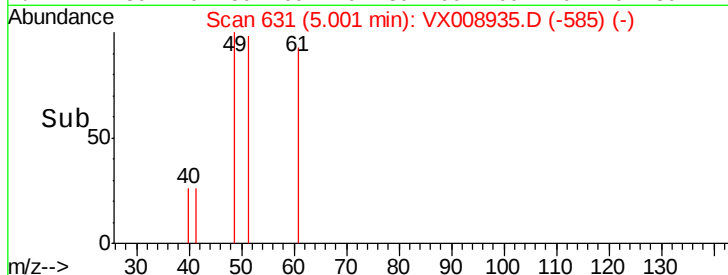
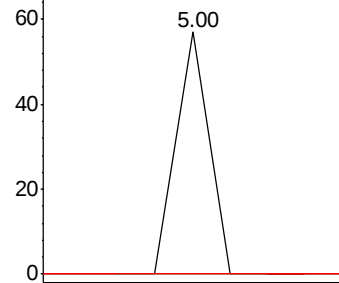
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.900 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

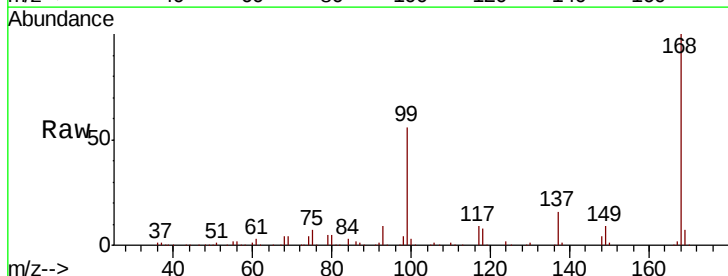
Tgt Ion: 56 Resp: 4440

Ion Ratio Lower Upper

56 100

69 165.3 22.6 33.8#

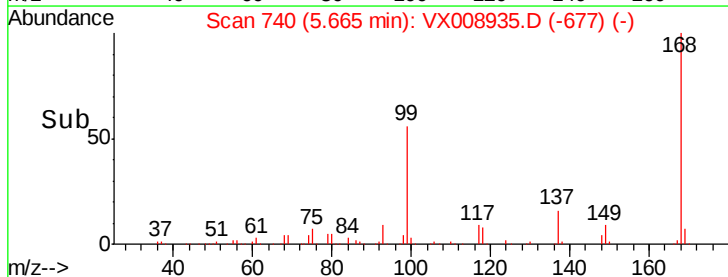
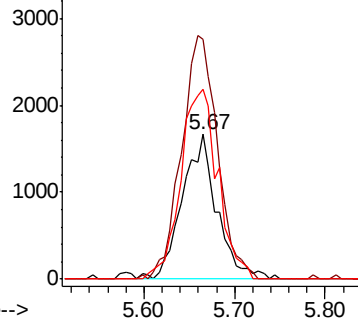
84 131.0 59.3 88.9#

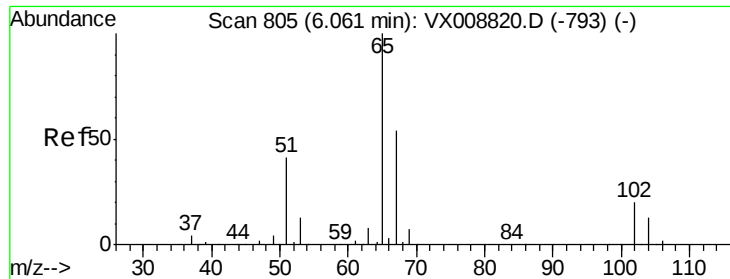


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

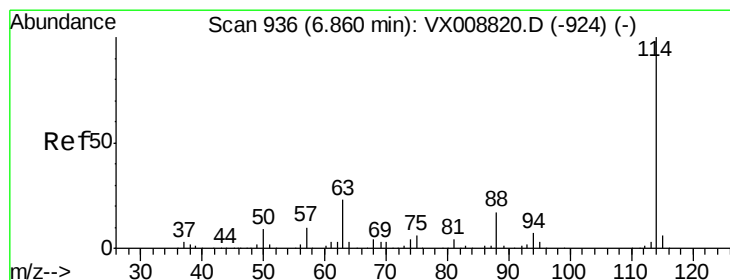
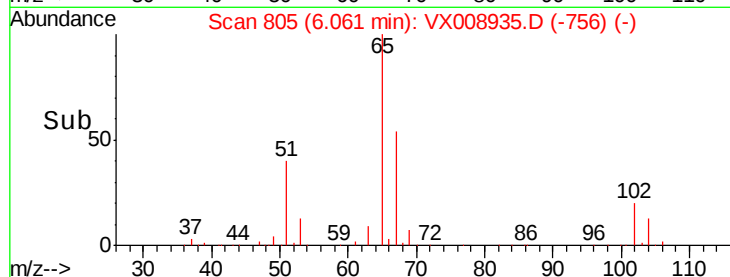
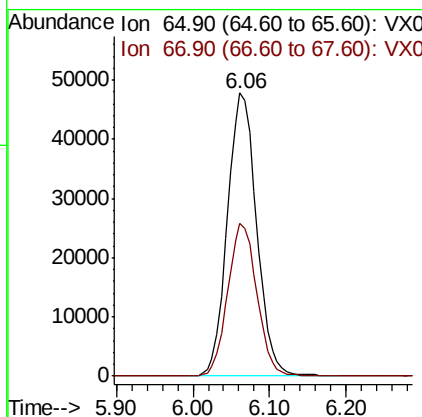
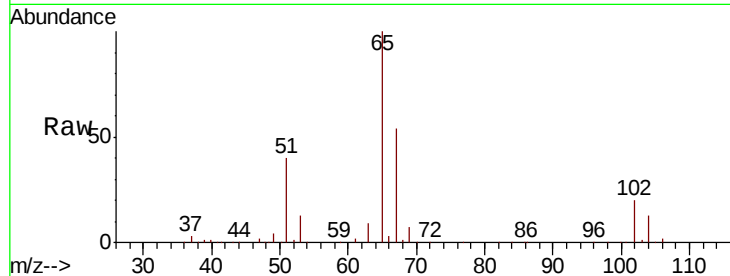




#33
 1,2-Dichloroethane-d4
 Concen: 44.292 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008935.D
 Acq: 13 Apr 2019 16:32

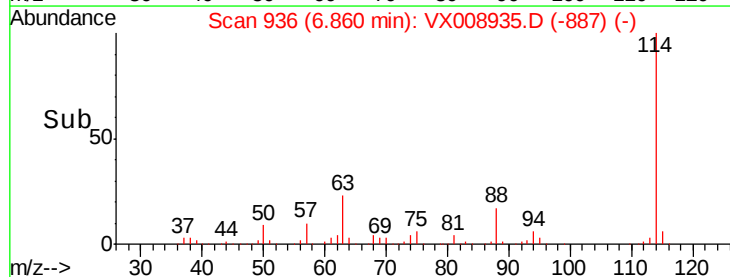
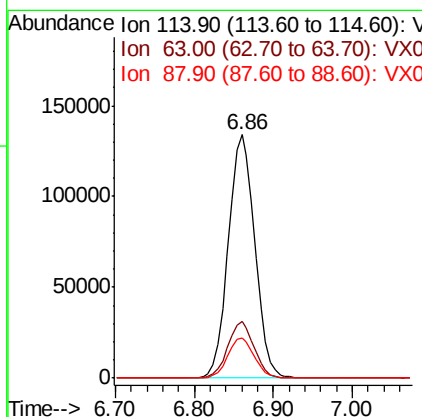
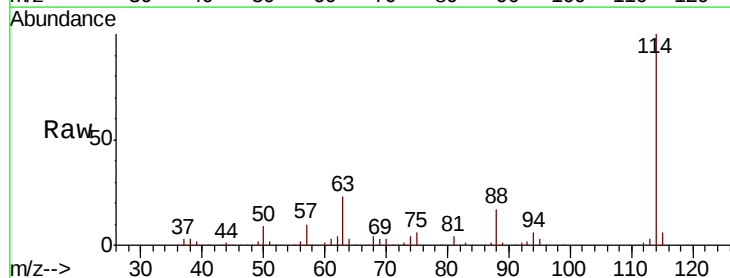
Instrument :
 MSVOA_X
 ClientSampled :

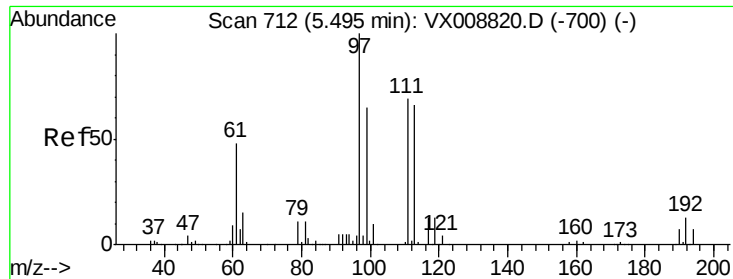
Tot Ion: 65 Resp: 126473
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008935.D
 Acq: 13 Apr 2019 16:32

Tgt Ion: 114 Resp: 313160
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 47.2
 88 16.7 0.0 34.0

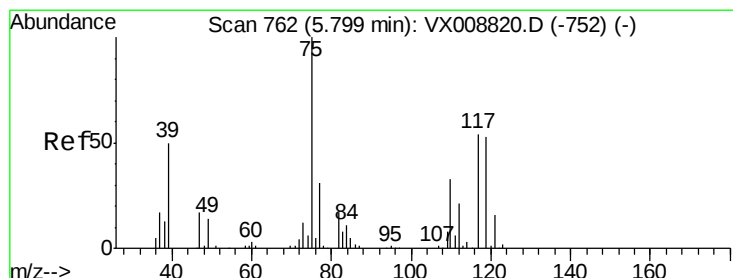
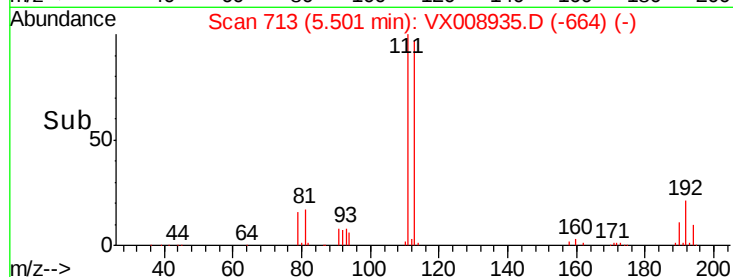
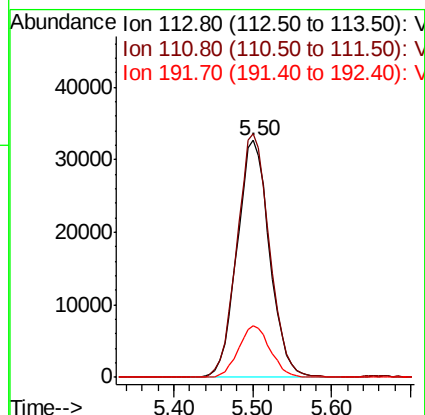
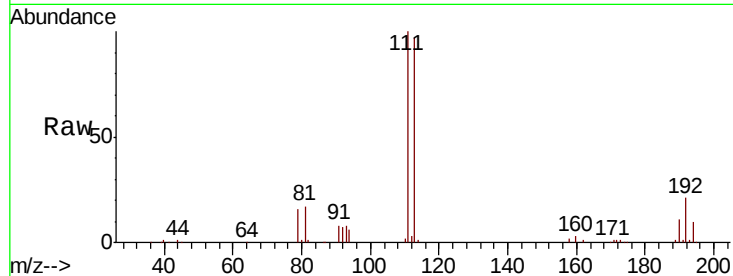




#35
 Dibromofluoromethane
 Concen: 46.611 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008935.D
 Acq: 13 Apr 2019 16:32

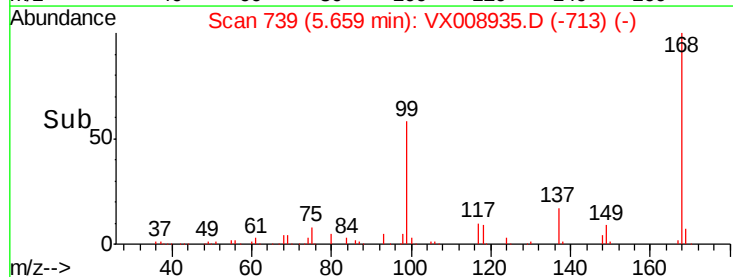
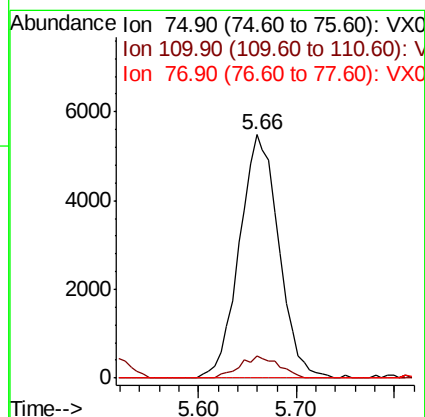
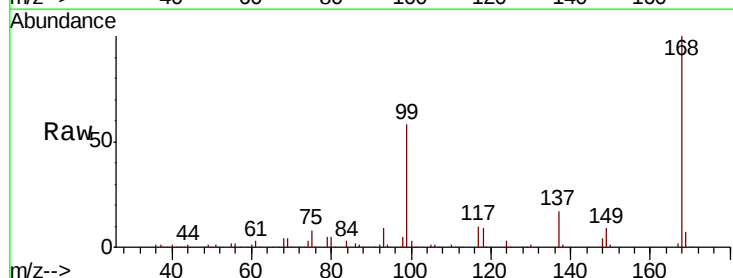
Instrument :
 MSVOA_X
 ClientSampleId :

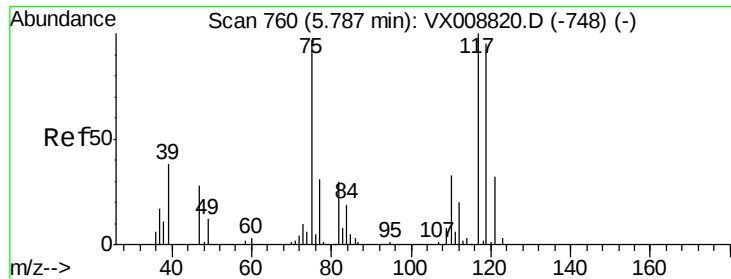
Tot Ion:113 Resp: 93326
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.4 125.2
 192 21.5 16.1 24.1



#36
 1,1-Dichloropropene
 Concen: 4.467 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008935.D
 Acq: 13 Apr 2019 16:32

Tgt Ion: 75 Resp: 15292
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.4 49.2#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.478 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

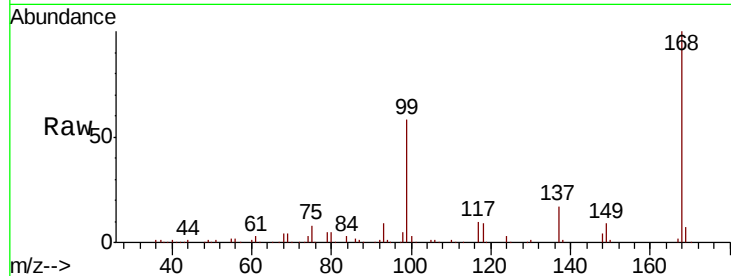
Tot Ion:117 Resp: 18354

Ion Ratio Lower Upper

117 100

119 4.1 75.0 112.6#

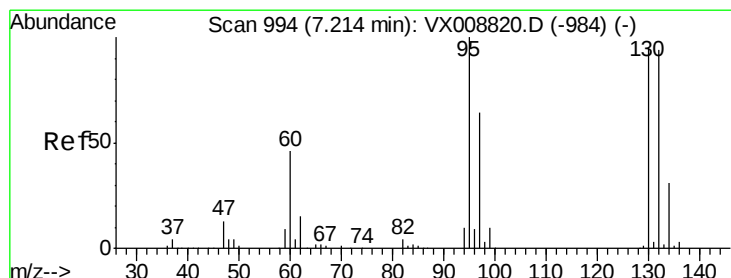
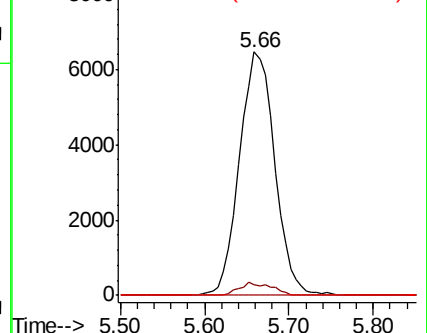
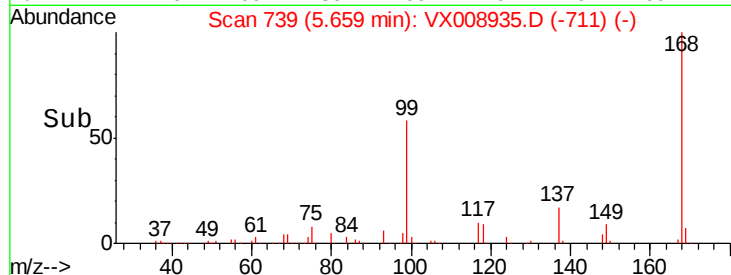
121 0.0 24.3 36.5#



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: 1.227 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008935.D

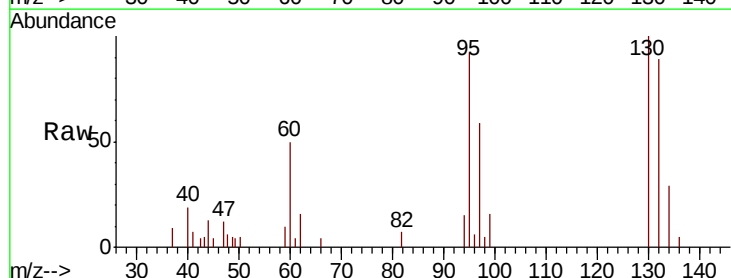
Acq: 13 Apr 2019 16:32

Tgt Ion:130 Resp: 2914

Ion Ratio Lower Upper

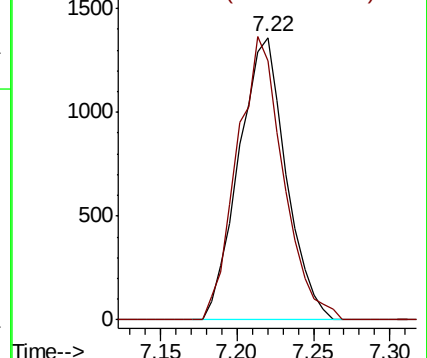
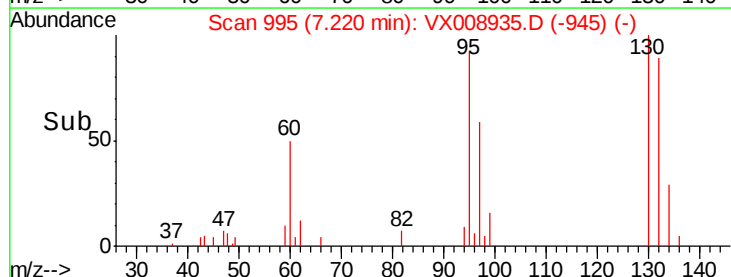
130 100

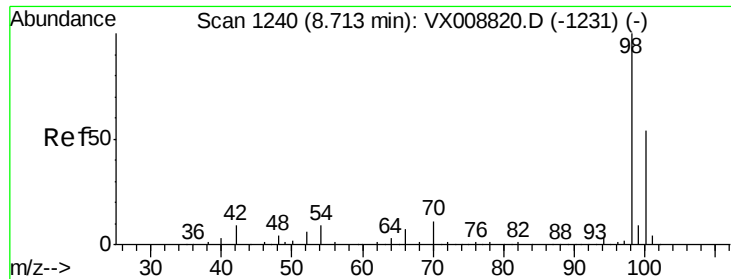
95 91.6 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

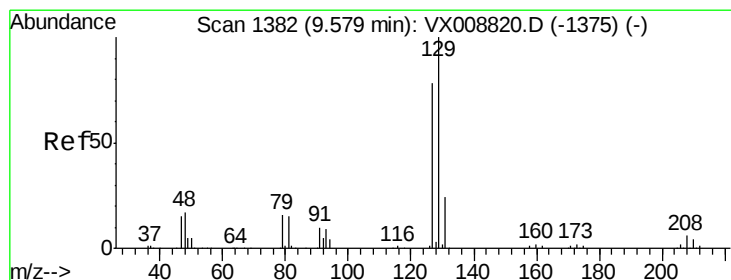
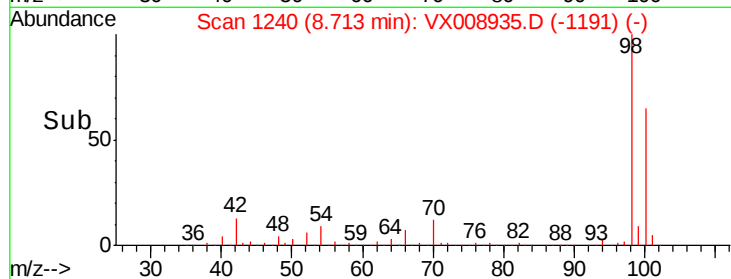
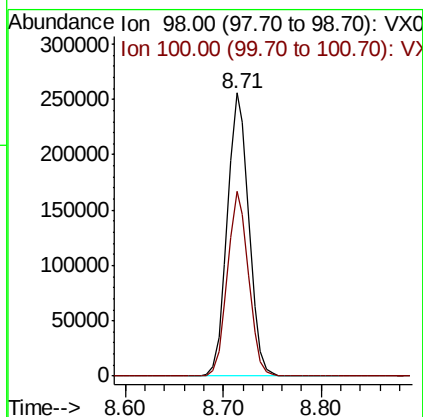
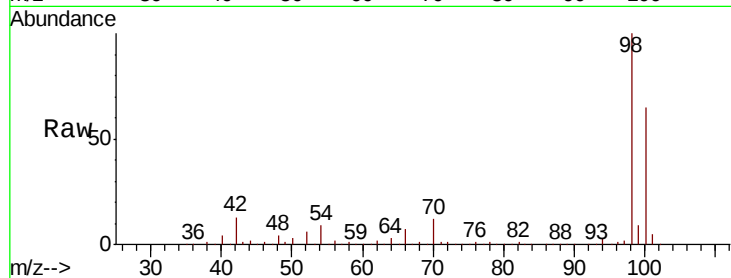




#50
Toluene-d8
Concen: 48.994 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008935.D
Acq: 13 Apr 2019 16:32

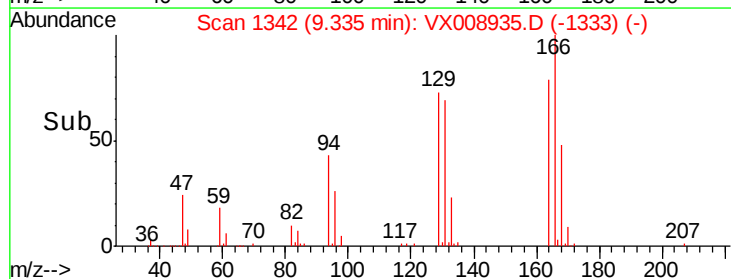
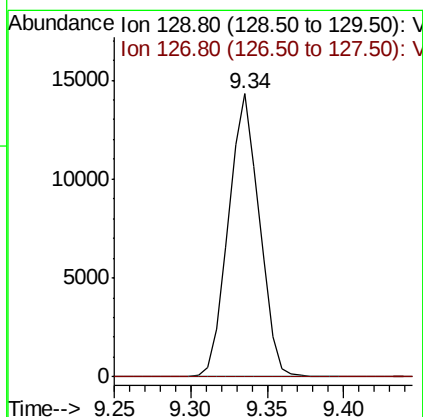
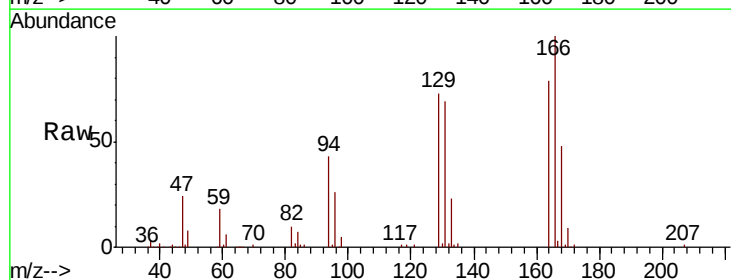
Instrument :
MSVOA_X
ClientSampleId :

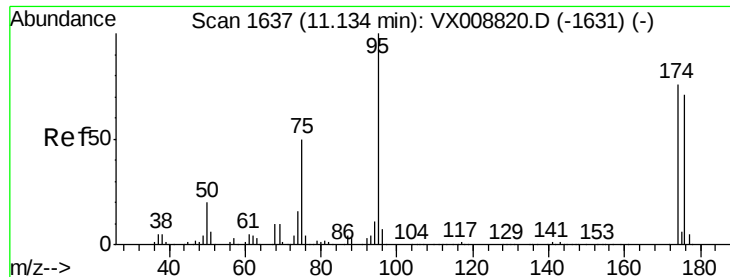
Tot Ion: 98 Resp: 390598
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0



#60
Dibromochloromethane
Concen: 8.824 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008935.D
Acq: 13 Apr 2019 16:32

Tgt Ion:129 Resp: 20067
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 47.146 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :

MSVOA_X

ClientSampled :

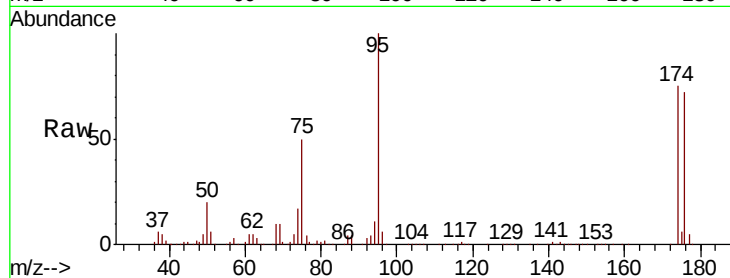
Tot Ion: 95 Resp: 133286

Ion Ratio Lower Upper

95 100

174 80.0 0.0 151.8

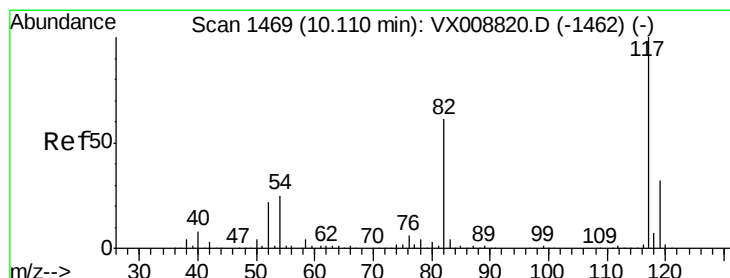
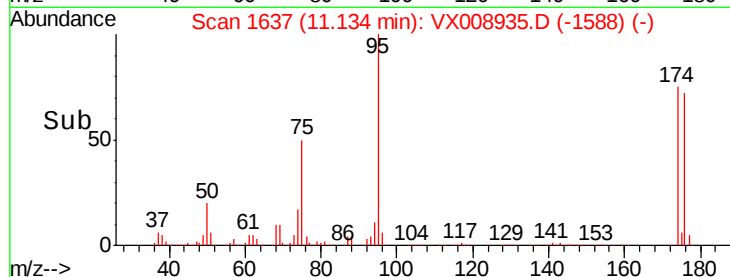
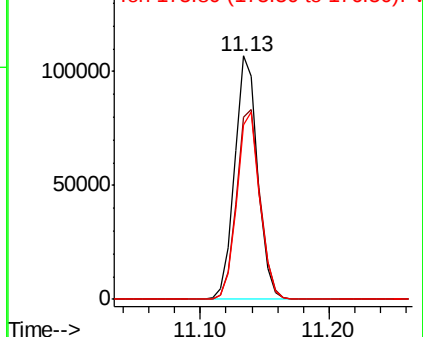
176 77.1 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008820.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX008820.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX008820.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

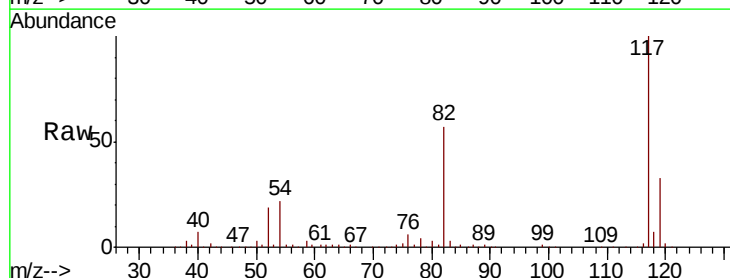
Tgt Ion: 117 Resp: 274463

Ion Ratio Lower Upper

117 100

82 57.4 49.6 74.4

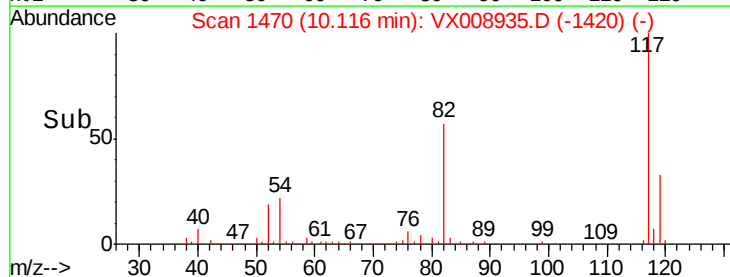
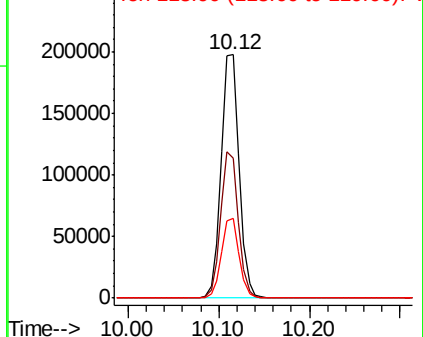
119 32.8 25.0 37.4

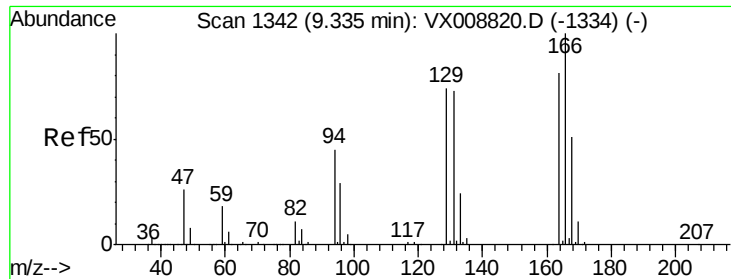


Abundance Ion 116.90 (116.60 to 117.60): VX008820.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008820.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008820.D (-1462) (-)





#64

Tetrachloroethene

Concen: 10.752 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 21865

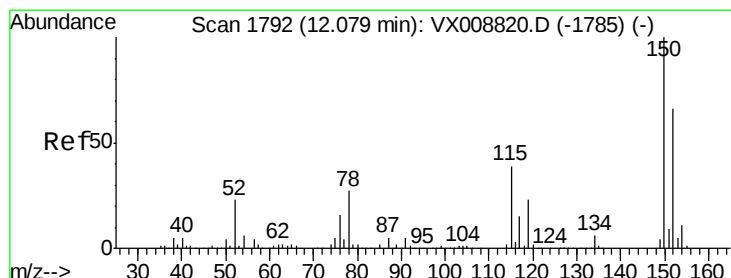
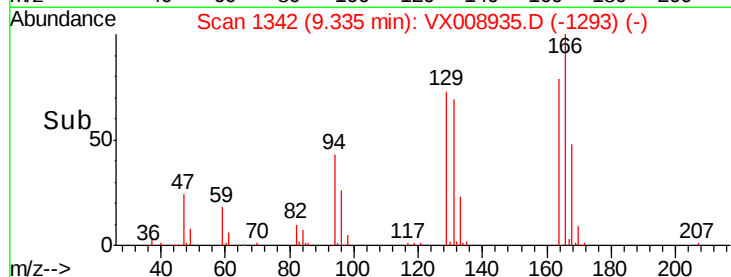
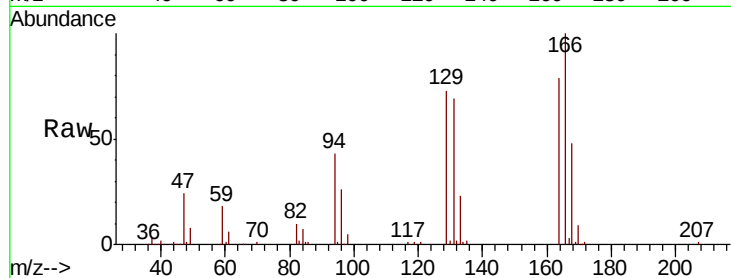
Ion Ratio Lower Upper

164 100

166 127.4 101.0 151.6

129 93.3 75.8 113.8

131 87.3 71.8 107.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008935.D

Acq: 13 Apr 2019 16:32

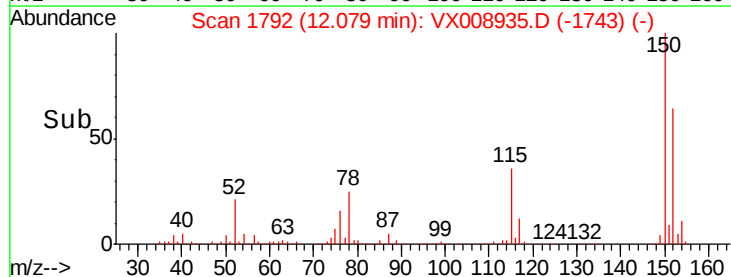
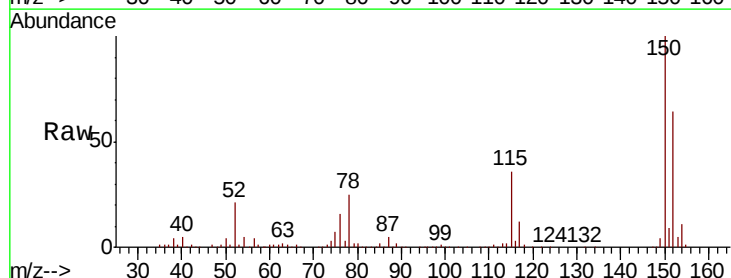
Tgt Ion:152 Resp: 118888

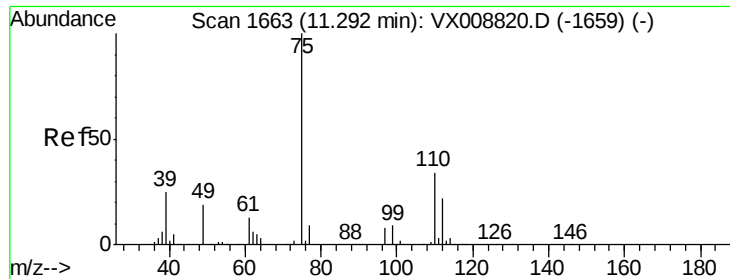
Ion Ratio Lower Upper

152 100

115 59.4 43.5 130.5

150 156.7 0.0 348.8

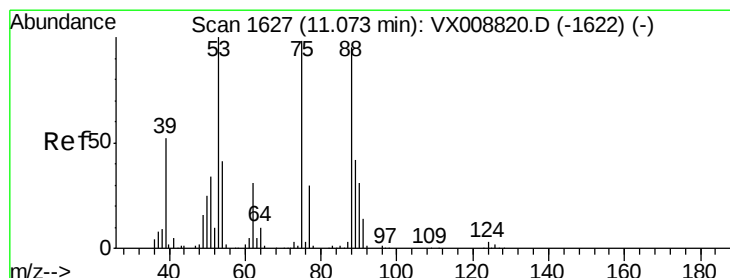
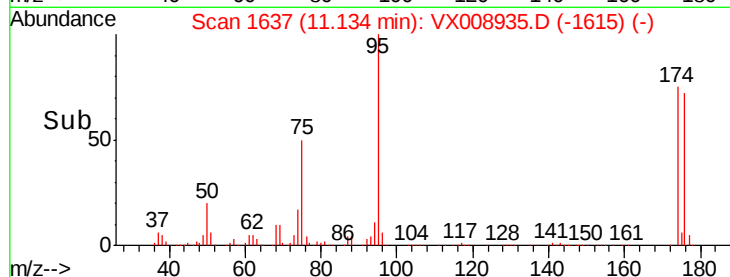
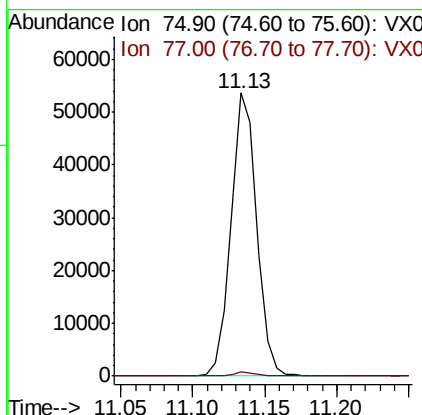
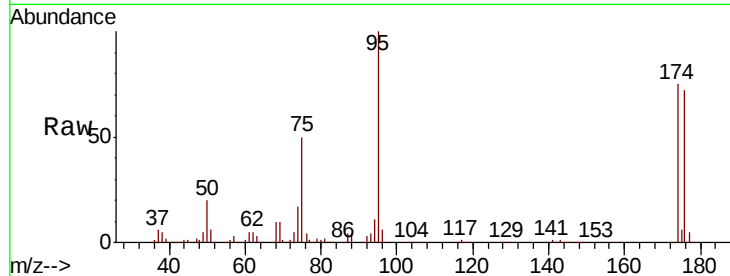




#76
 1,2,3-Trichloropropane
 Concen: 20.666 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008935.D
 Acq: 13 Apr 2019 16:32

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 67493
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.3 66.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.966 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008935.D
 Acq: 13 Apr 2019 16:32

Tgt Ion: 75 Resp: 67493
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.3 121.9#
 89 0.0 35.6 53.4#

