

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032519\
 Data File : VX008422.D
 Acq On : 25 Mar 2019 20:13
 Operator : JC/SP
 Sample : K1945-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T0-OZ(PRE)

Quant Time: Mar 26 06:04:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 04:58:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	226747	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	382003	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	321244	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	128772	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	160300	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	
35) Dibromofluoromethane	5.49	113	117773	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	8.71	98	477307	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
62) 4-Bromofluorobenzene	11.13	95	155896	42.24	ug/l	0.00
Spiked Amount			Recovery	=	84.48%	

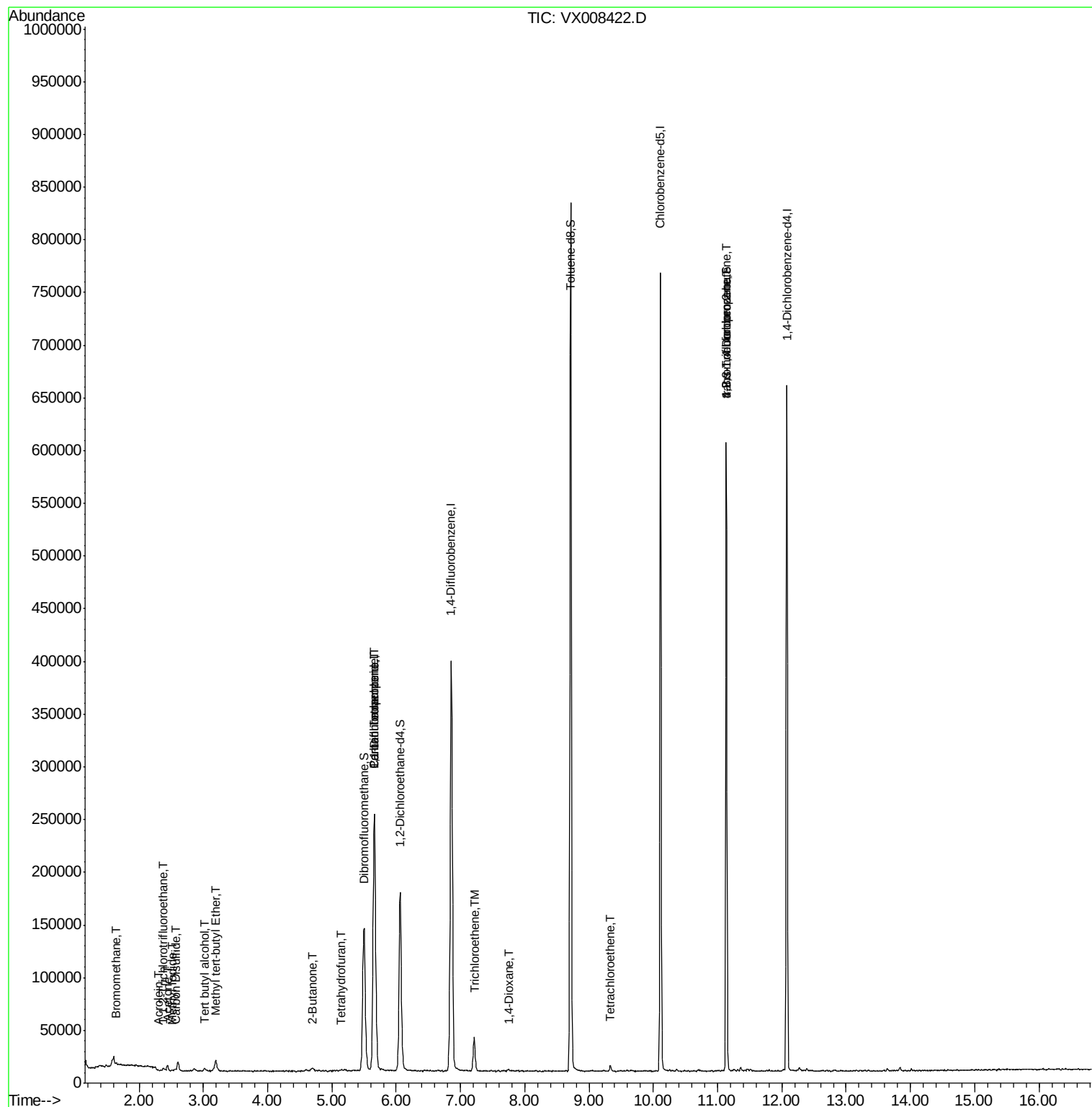
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	748	Below Cal		99
5) Bromomethane	1.64	94	341	1.976	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	675	0.264	ug/l #	90
10) Methyl Iodide	2.51	142	560	4.336	ug/l #	87
11) Tert butyl alcohol	3.02	59	1770	2.324	ug/l #	92
13) Acrolein	2.29	56	328	0.593	ug/l	98
16) Acetone	2.44	43	5892	3.279	ug/l	97
17) Carbon Disulfide	2.57	76	2446	0.280	ug/l	95
19) Methyl tert-butyl Ether	3.20	73	10407	1.095	ug/l	91
20) Methylene Chloride	2.86	84	1047	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.17	96	455	Below Cal	#	66
25) 2-Butanone	4.70	43	1611	0.559	ug/l #	88
29) Tetrahydrofuran	5.14	42	1252	0.660	ug/l #	72
36) 1,1-Dichloropropene	5.66	75	19745	4.848	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22957	6.754	ug/l #	15
44) Trichloroethene	7.21	130	11590	4.048	ug/l	94
49) 1,4-Dioxane	7.74	88	1664	19.817	ug/l	91
64) Tetrachloroethene	9.34	164	440	0.202	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	80851	21.119	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	80851	67.642	ug/l #	9

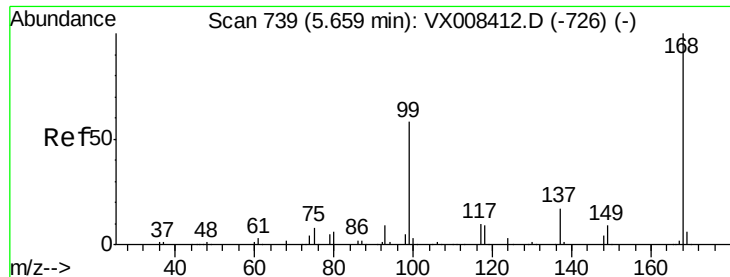
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

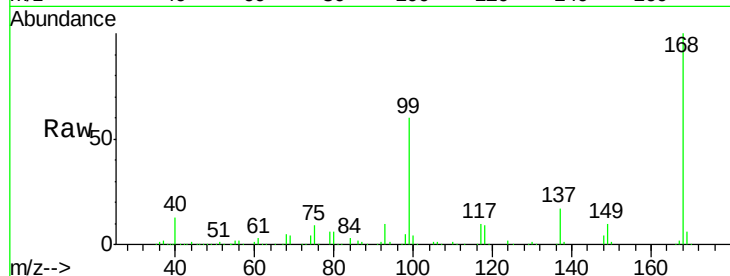
M4-T0-OZ(PRE)

Tot Ion:168 Resp: 226747

Ion Ratio Lower Upper

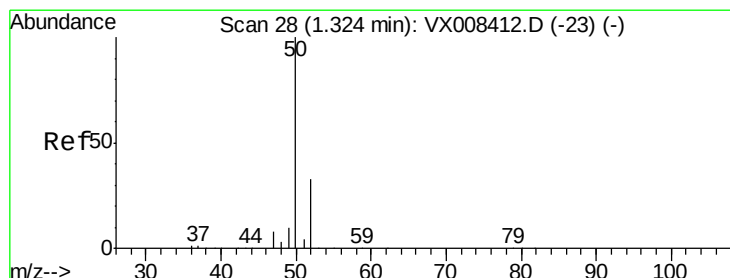
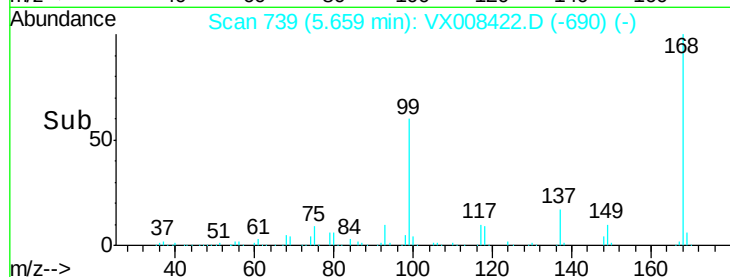
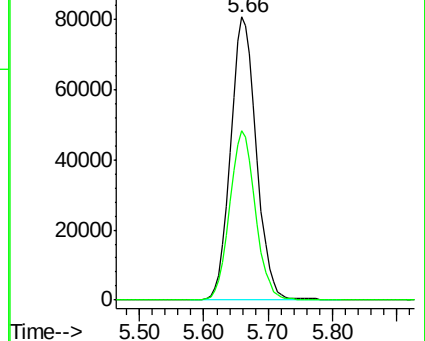
168 100

99 60.1 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008422.D

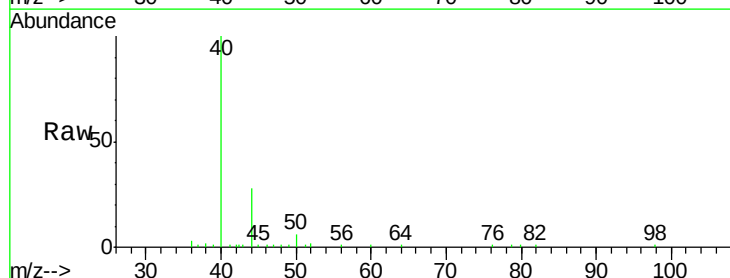
Acq: 25 Mar 2019 20:13

Tgt Ion: 50 Resp: 748

Ion Ratio Lower Upper

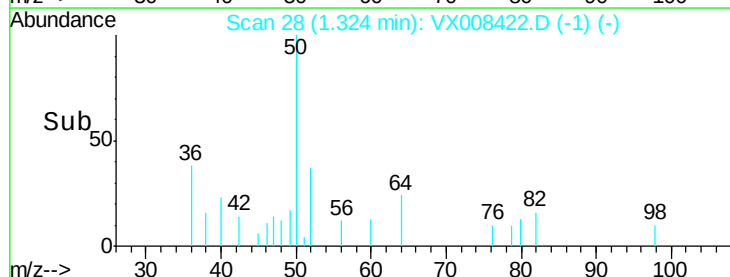
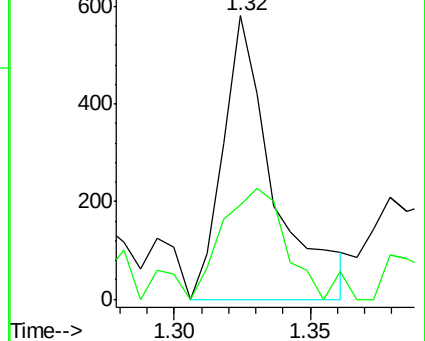
50 100

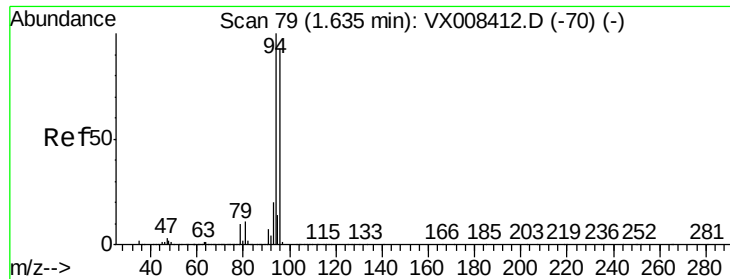
52 33.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.976 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

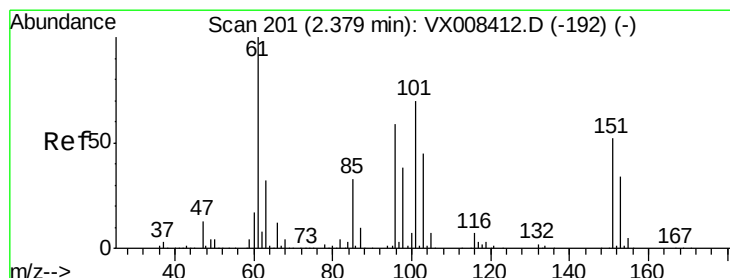
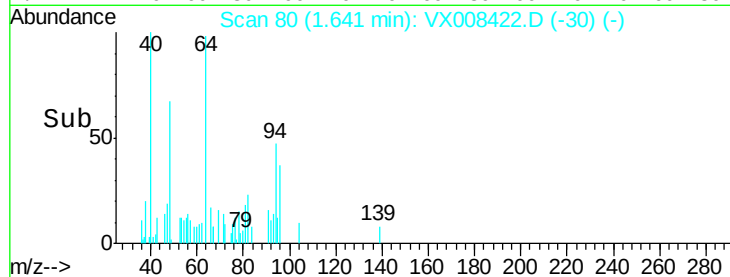
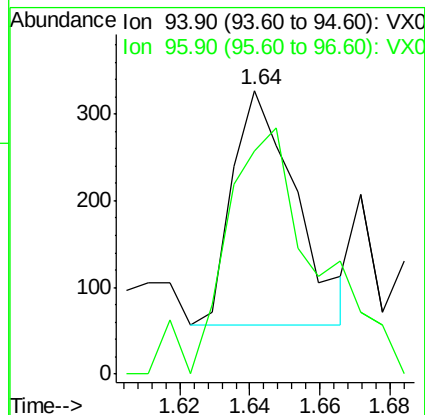
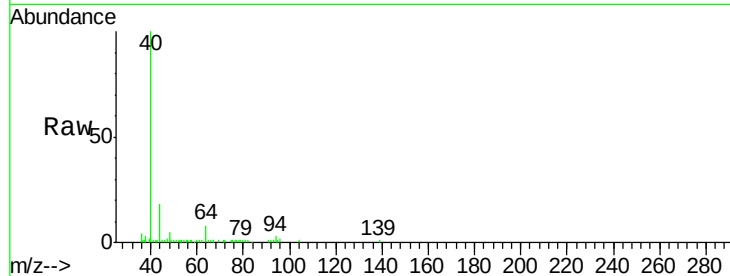
M4-T0-OZ(PRE)

Tot Ion: 94 Resp: 341

Ion Ratio Lower Upper

94 100

96 95.2 74.8 112.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.264 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

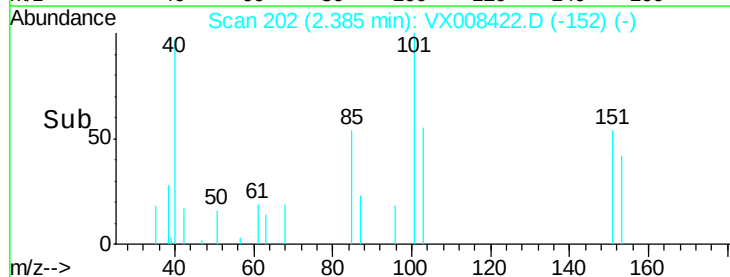
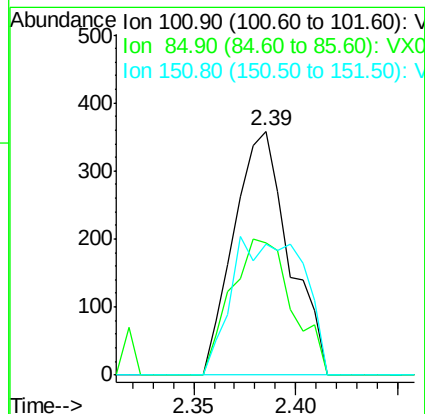
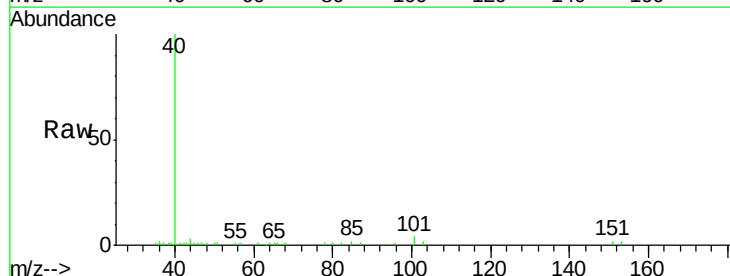
Tgt Ion: 101 Resp: 675

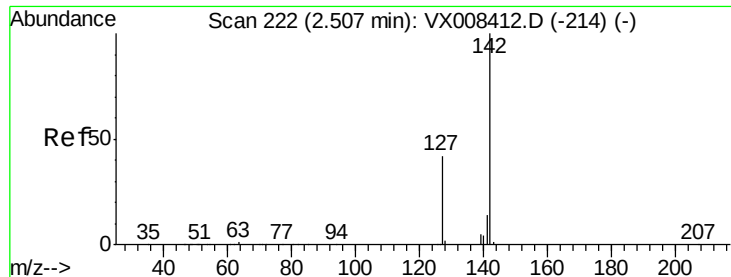
Ion Ratio Lower Upper

101 100

85 61.5 36.0 54.0#

151 73.3 59.2 88.8

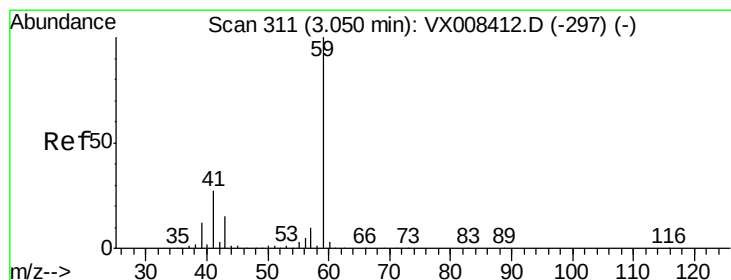
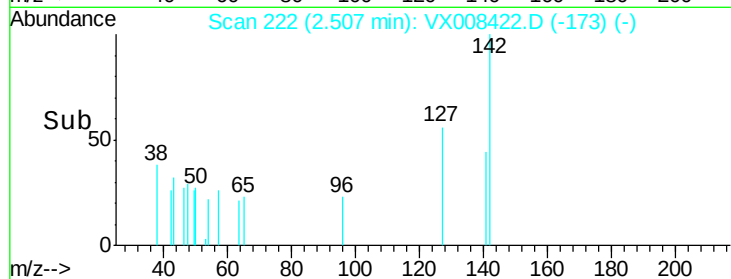
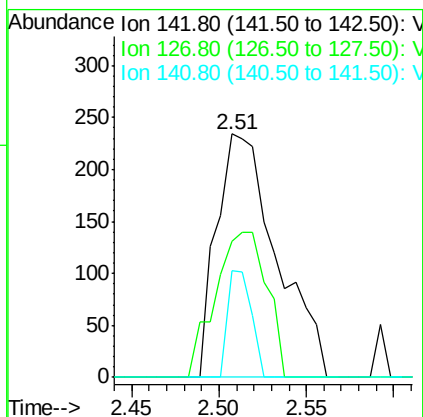
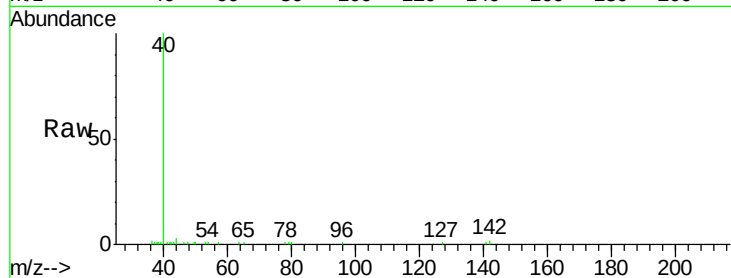




#10
Methyl Iodide
Concen: 4.336 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

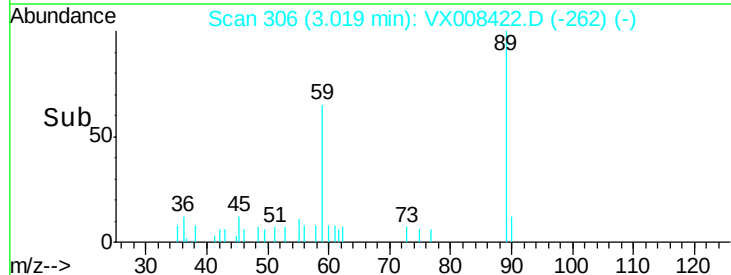
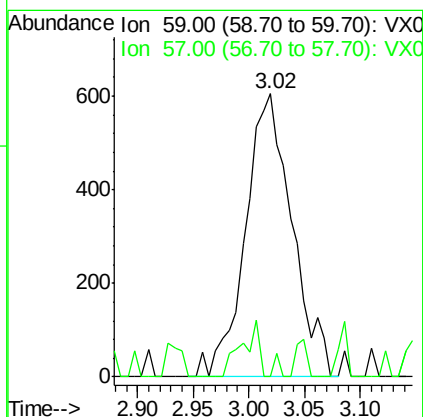
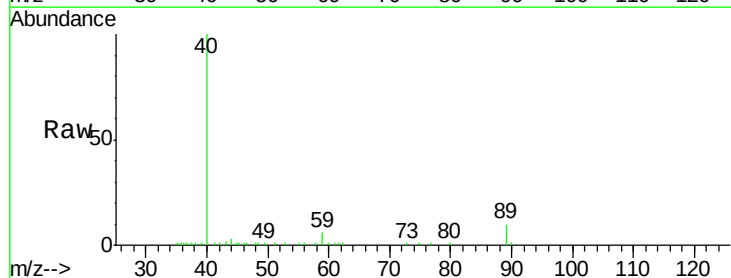
Instrument :
MSVOA_X
ClientSampleId :
M4-T0-OZ(PRE)

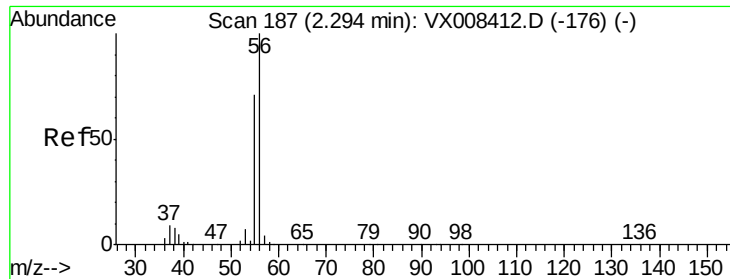
Tot Ion:142 Resp: 560
Ion Ratio Lower Upper
142 100
127 51.1 33.6 50.4#
141 17.3 11.3 16.9#



#11
Tert butyl alcohol
Concen: 2.324 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

Tgt Ion: 59 Resp: 1770
Ion Ratio Lower Upper
59 100
57 7.3 8.2 12.4#





#13

Acrolein

Concen: 0.593 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

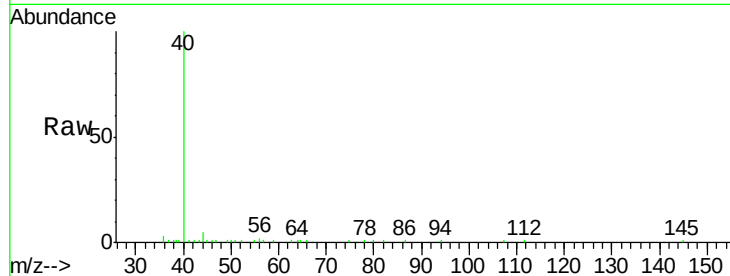
M4-T0-OZ(PRE)

Tot Ion: 56 Resp: 328

Ion Ratio Lower Upper

56 100

55 69.2 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

150

100

50

0

Time-->

2.25

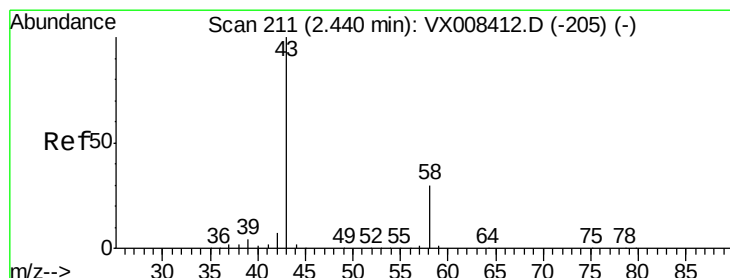
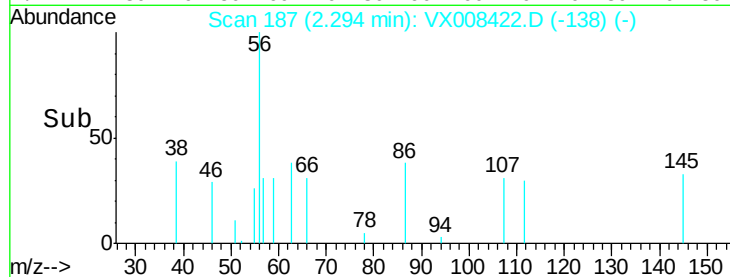
2.30

2.35

2.40

2.45

2.50



#16

Acetone

Concen: 3.279 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008422.D

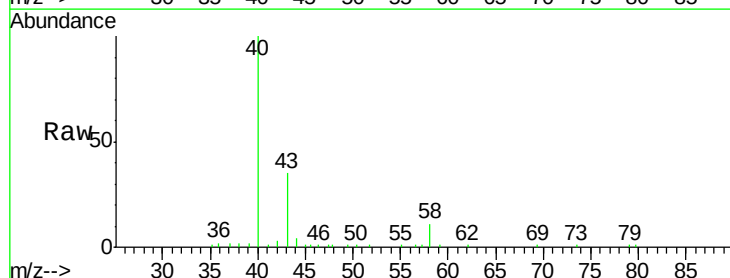
Acq: 25 Mar 2019 20:13

Tgt Ion: 43 Resp: 5892

Ion Ratio Lower Upper

43 100

58 31.8 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

3000

2000

1000

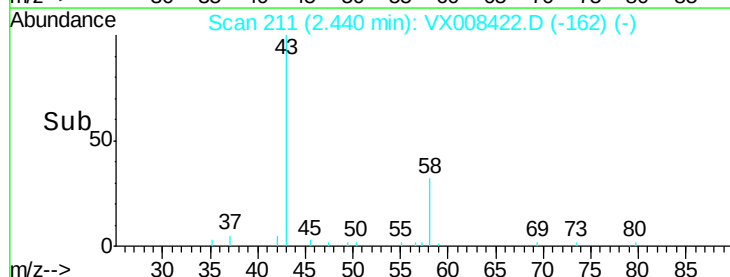
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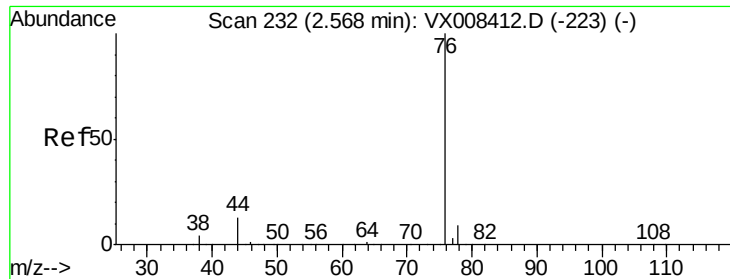
Time-->

2.40

2.45

2.50





#17

Carbon Disulfide

Concen: 0.280 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

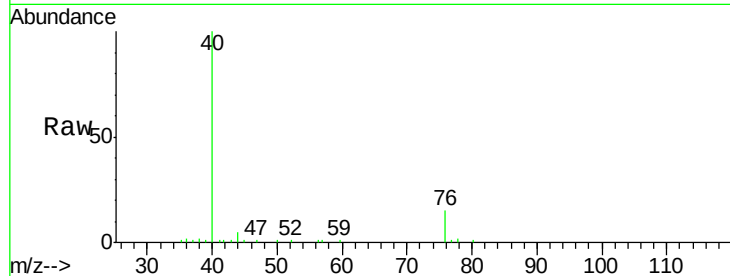
M4-T0-OZ(PRE)

Tot Ion: 76 Resp: 2446

Ion Ratio Lower Upper

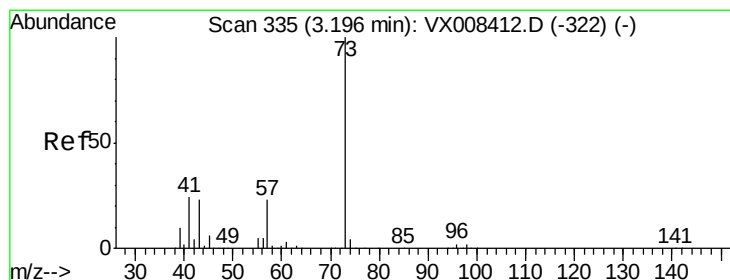
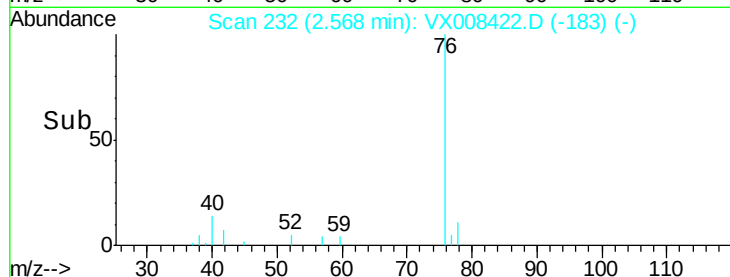
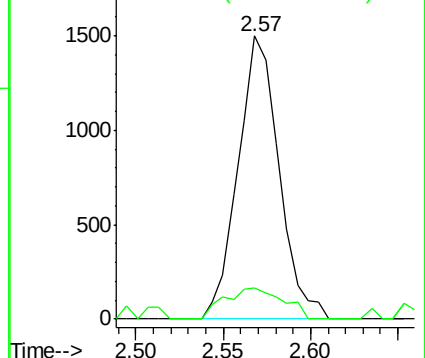
76 100

78 11.0 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 1.095 ug/l

RT: 3.20 min Scan# 335

Delta R.T. -0.00 min

Lab File: VX008422.D

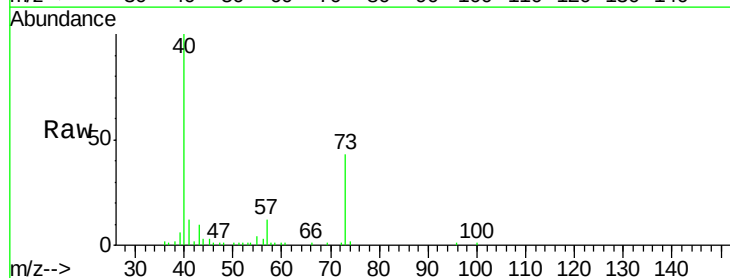
Acq: 25 Mar 2019 20:13

Tgt Ion: 73 Resp: 10407

Ion Ratio Lower Upper

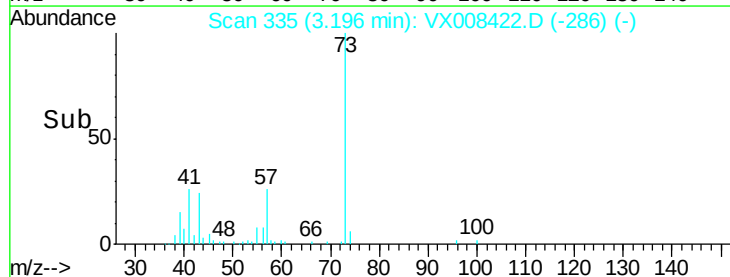
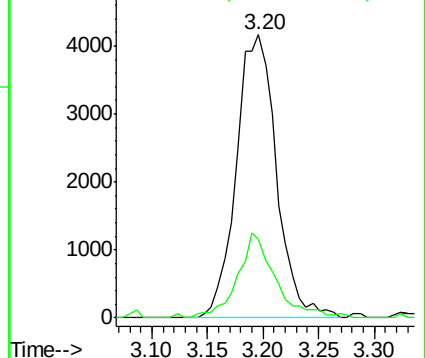
73 100

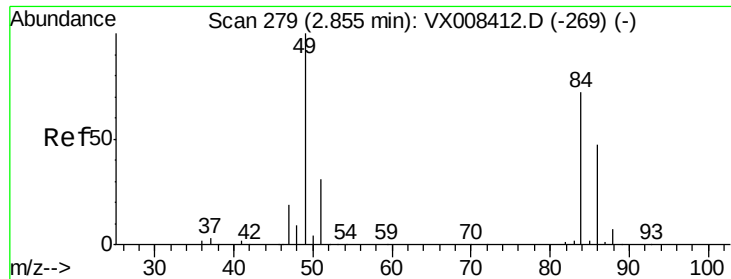
57 27.6 18.6 28.0



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

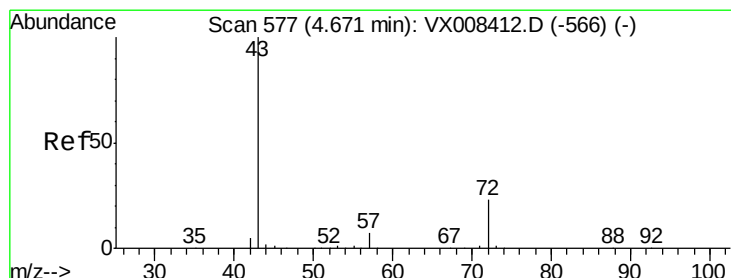
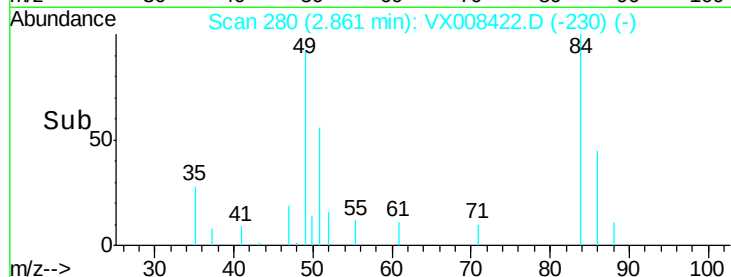
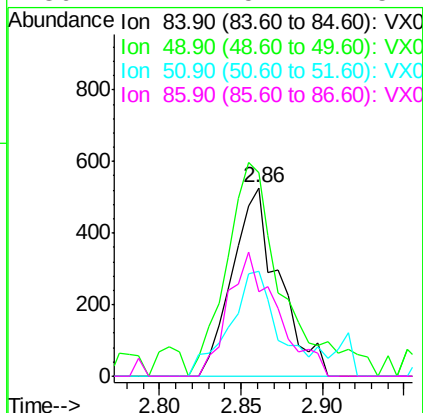
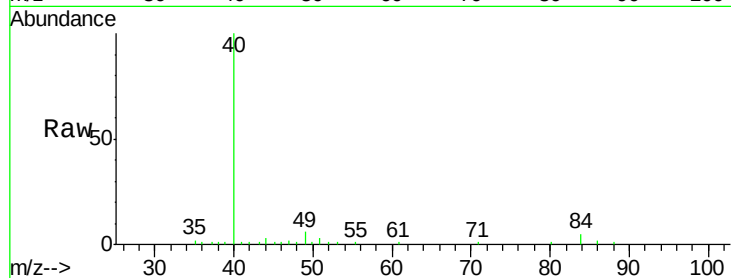




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

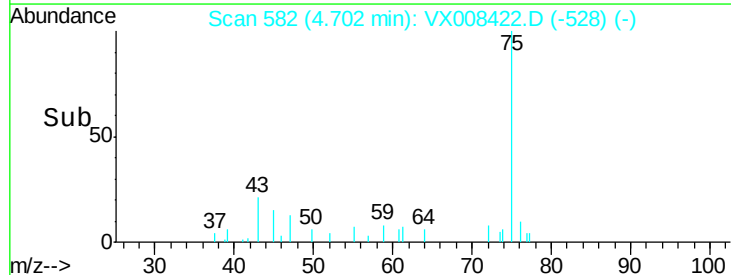
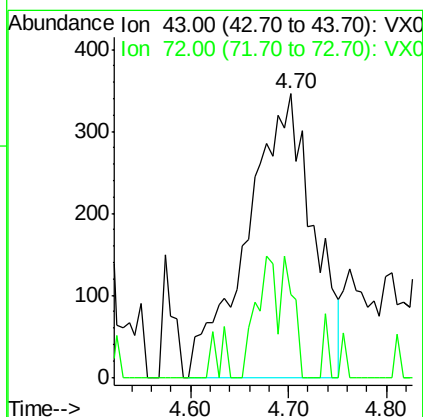
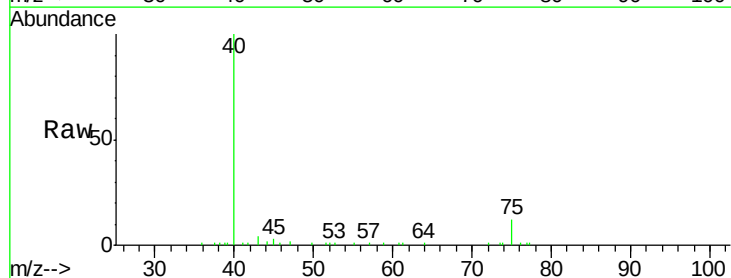
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ClientSampled :
M4-T0-OZ(PRE)

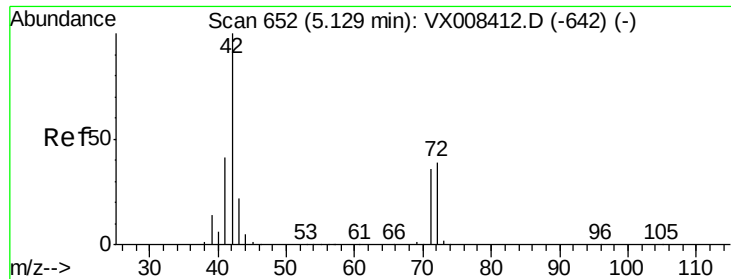
Tot Ion: 84 Resp: 1047
Ion Ratio Lower Upper
84 100
49 107.8 110.6 165.8#
51 55.9 33.9 50.9#
86 44.7 52.2 78.2#



#25
2-Butanone
Concen: 0.559 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.03 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

Tgt Ion: 43 Resp: 1611
Ion Ratio Lower Upper
43 100
72 29.2 18.6 28.0#

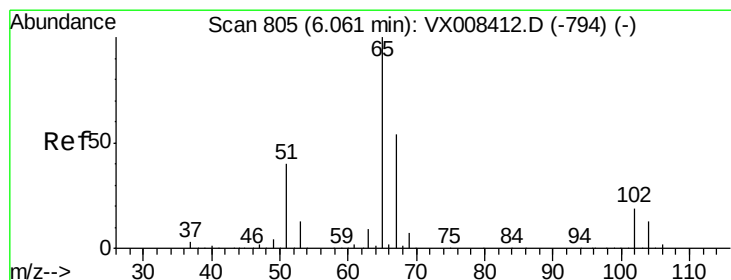
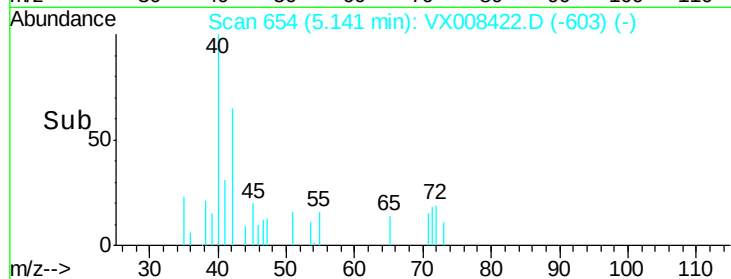
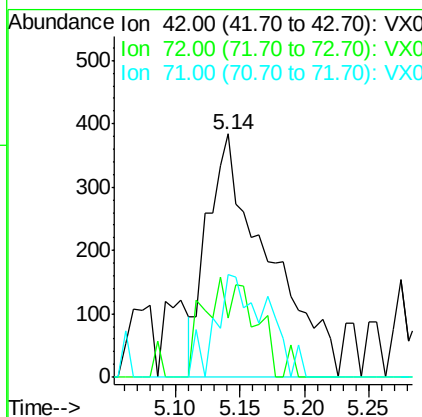
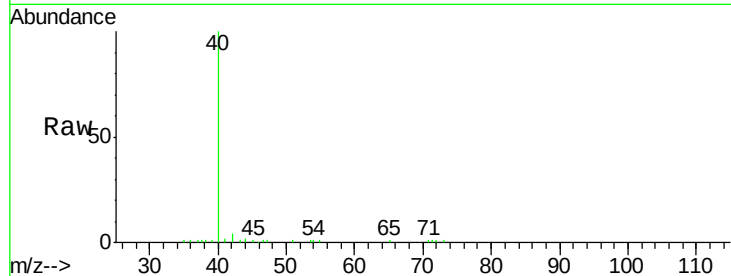




#29
Tetrahydrofuran
Concen: 0.660 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

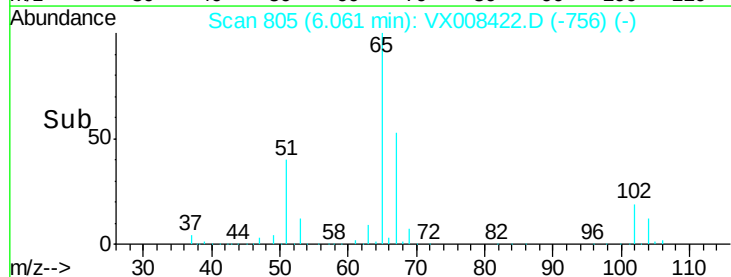
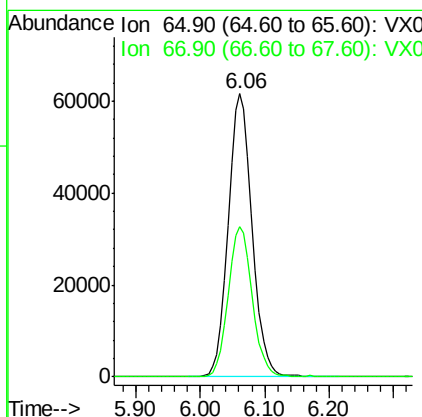
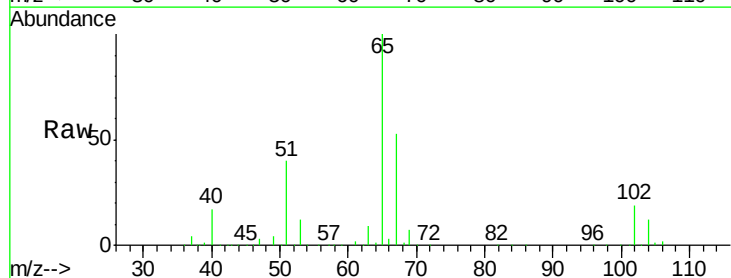
Instrument :
MSVOA_X
ClientSampleId :
M4-T0-OZ(PRE)

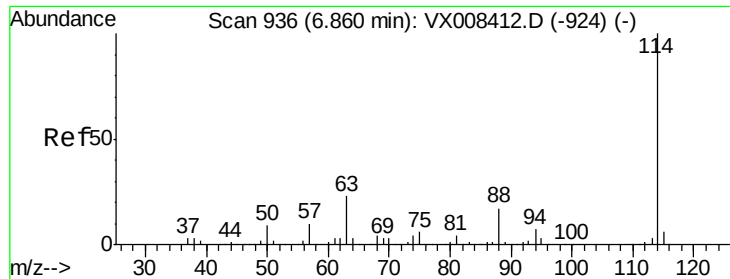
Tot Ion: 42 Resp: 1252
Ion Ratio Lower Upper
42 100
72 16.6 31.4 47.2#
71 25.6 29.4 44.2#



#33
1,2-Dichloroethane-d4
Concen: 46.632 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

Tgt Ion: 65 Resp: 160300
Ion Ratio Lower Upper
65 100
67 53.5 0.0 109.4

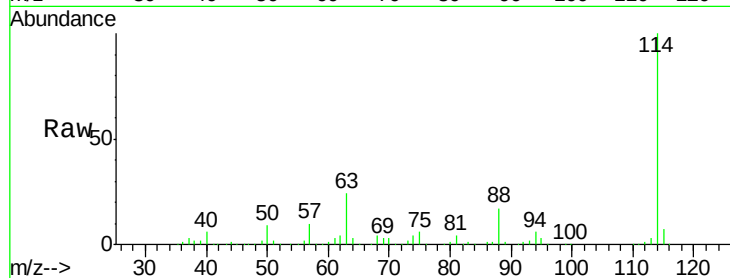




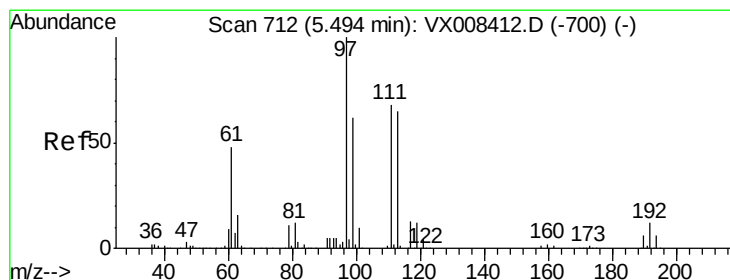
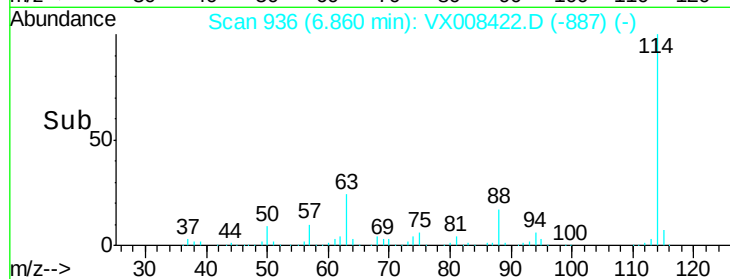
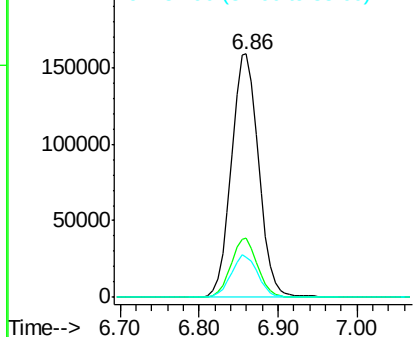
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008422.D
 Acq: 25 Mar 2019 20:13

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T0-OZ(PRE)

Tot Ion:114 Resp: 382003
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 46.4
 88 16.7 0.0 33.2

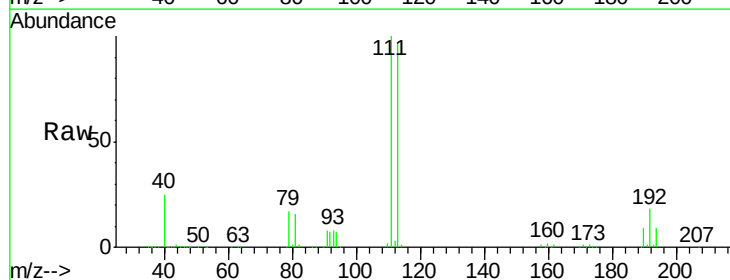


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

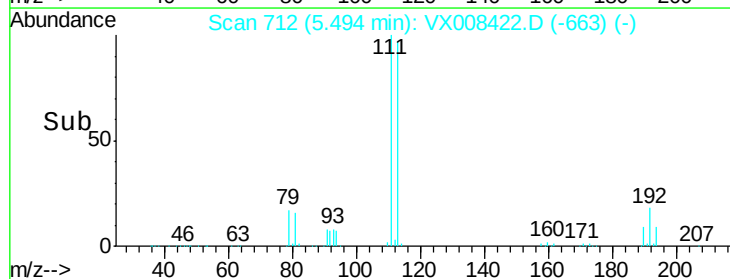
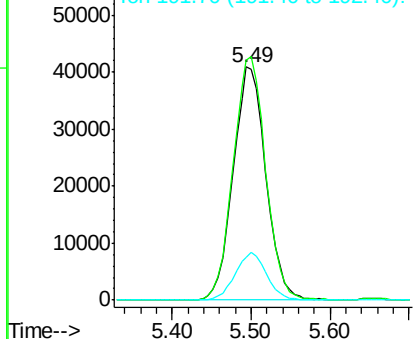


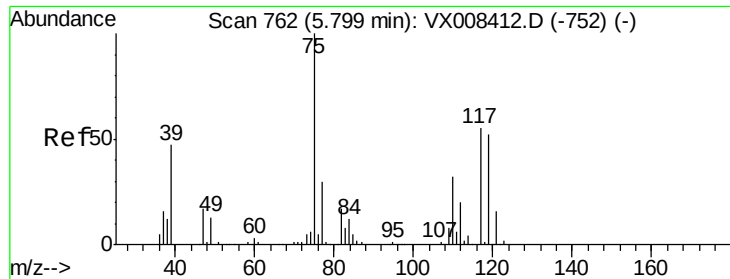
#35
 Dibromofluoromethane
 Concen: 47.282 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX008422.D
 Acq: 25 Mar 2019 20:13

Tgt Ion:113 Resp: 117773
 Ion Ratio Lower Upper
 113 100
 111 103.9 83.0 124.4
 192 19.6 15.6 23.4



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

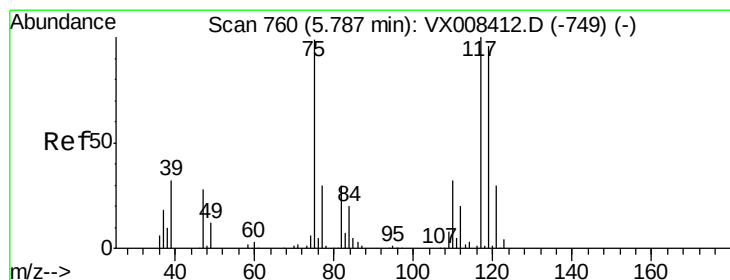
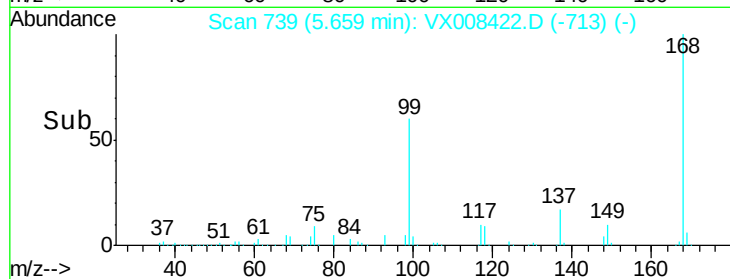
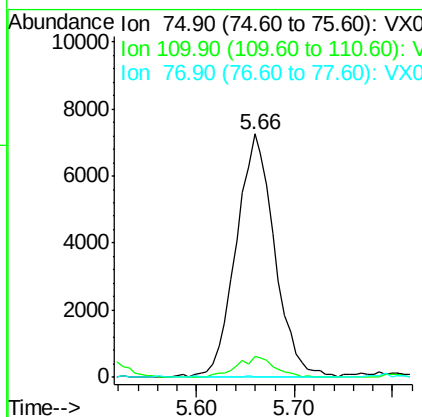
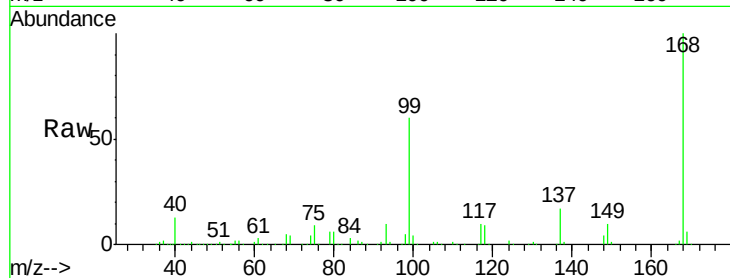




#36
 1,1-Dichloropropene
 Concen: 4.848 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008422.D
 Acq: 25 Mar 2019 20:13

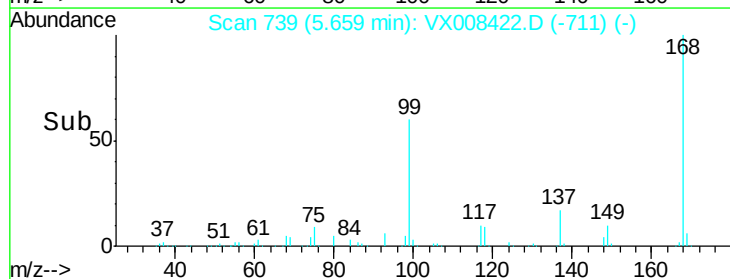
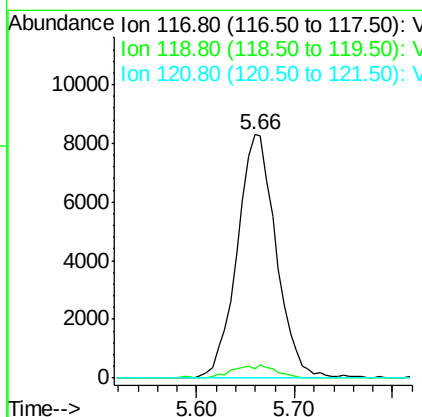
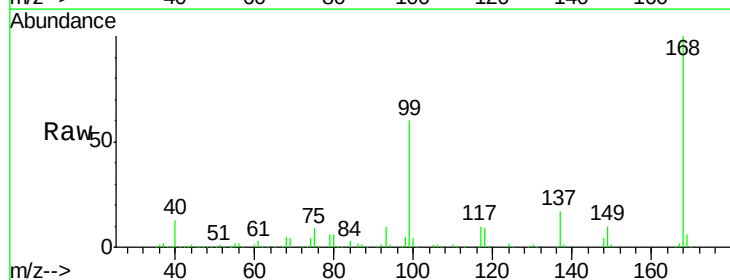
Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T0-OZ(PRE)

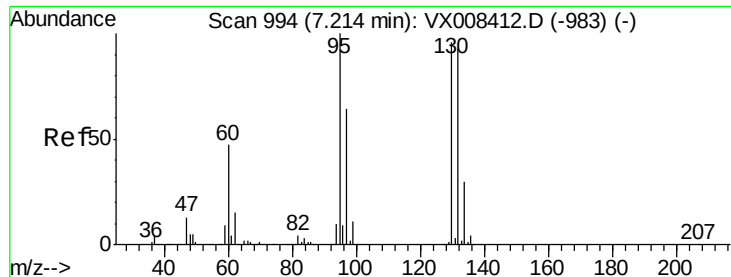
Tot Ion	75	Resp	19745
Ion Ratio	100	Lower	Upper
110	8.4	16.6	49.7#
77	0.1	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 6.754 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008422.D
 Acq: 25 Mar 2019 20:13

Tgt Ion	117	Resp	22957
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	4.0	76.7	115.1#
121	0.0	24.3	36.5#





#44

Trichloroethene

Concen: 4.048 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

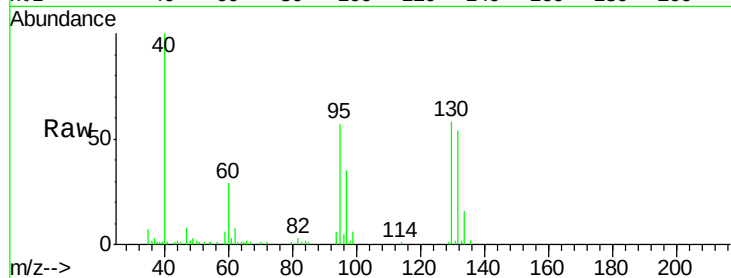
M4-T0-OZ(PRE)

Tot Ion:130 Resp: 11590

Ion Ratio Lower Upper

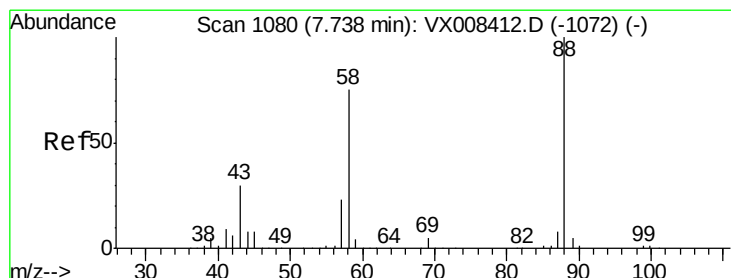
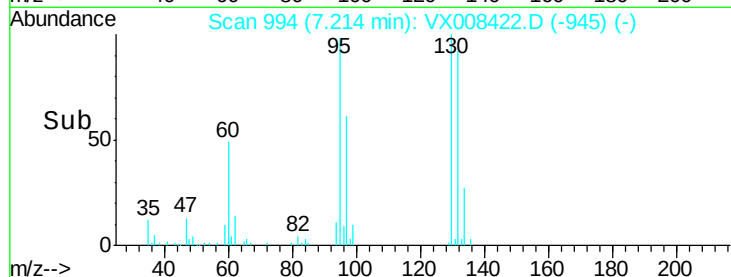
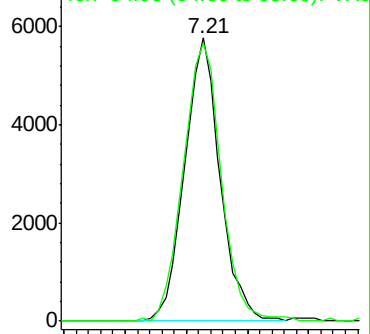
130 100

95 98.1 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 19.817 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

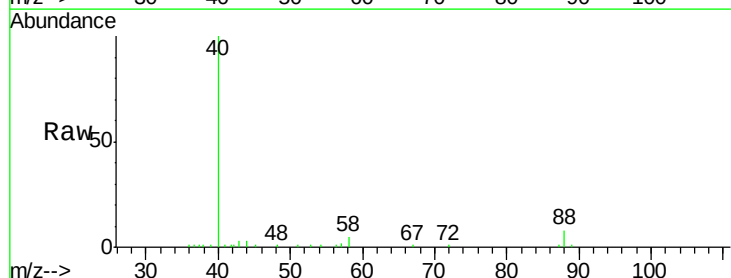
Tgt Ion: 88 Resp: 1664

Ion Ratio Lower Upper

88 100

43 30.5 28.6 43.0

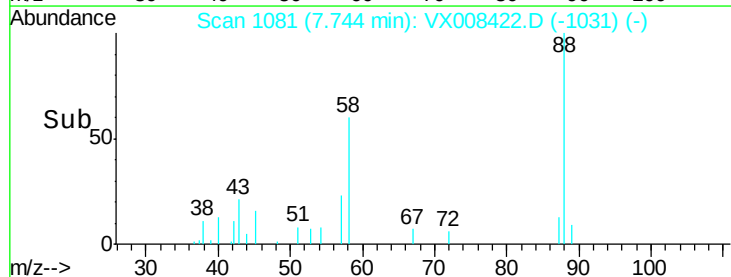
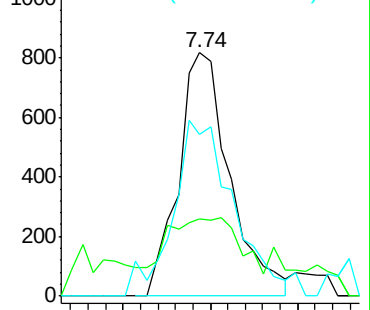
58 86.1 63.0 94.4

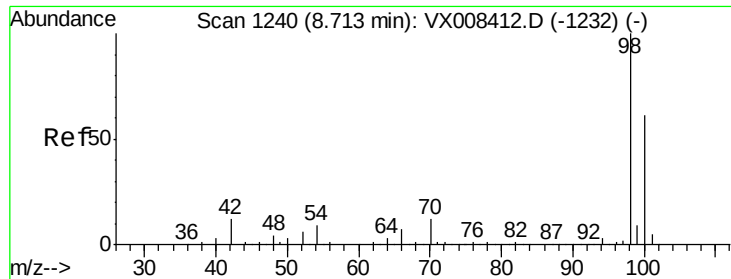


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.923 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

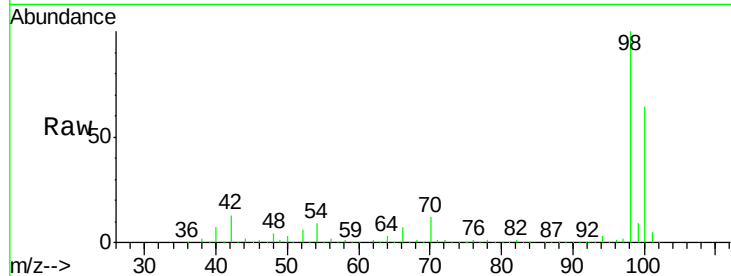
M4-T0-OZ(PRE)

Tot Ion: 98 Resp: 477307

Ion Ratio Lower Upper

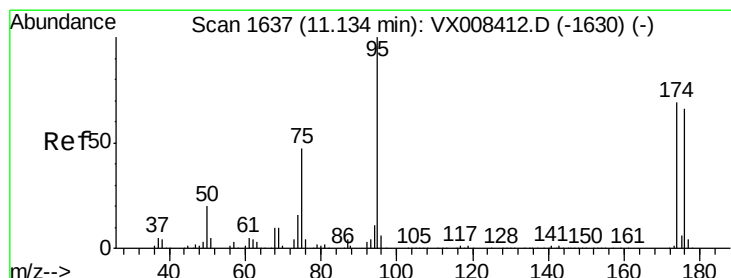
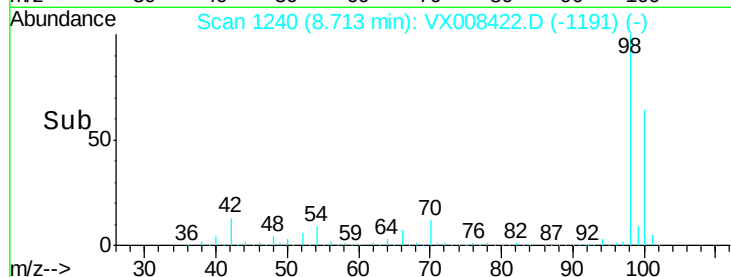
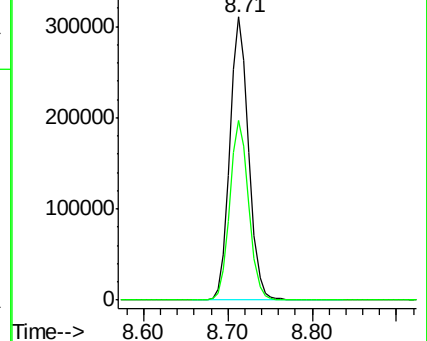
98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 42.240 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

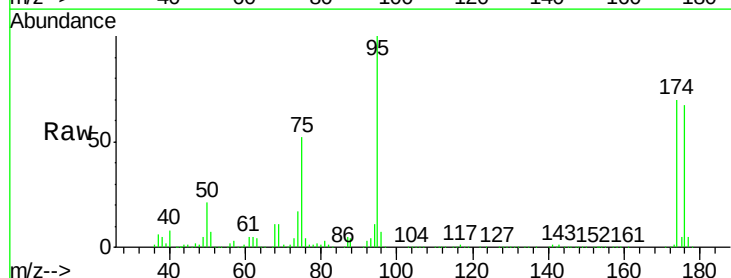
Tgt Ion: 95 Resp: 155896

Ion Ratio Lower Upper

95 100

174 74.0 0.0 147.2

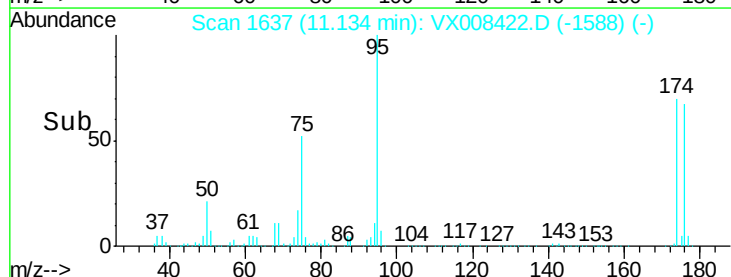
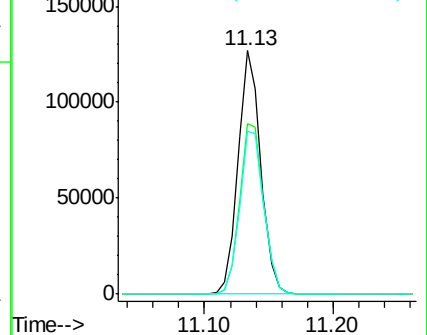
176 71.5 0.0 142.4

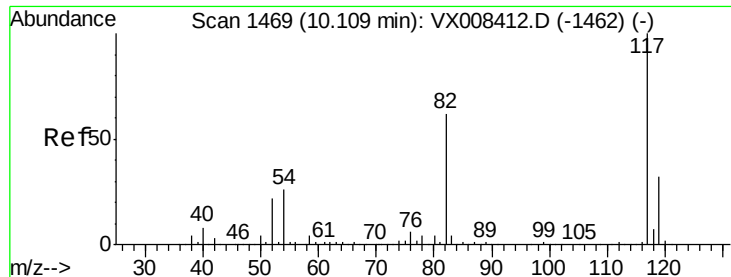


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

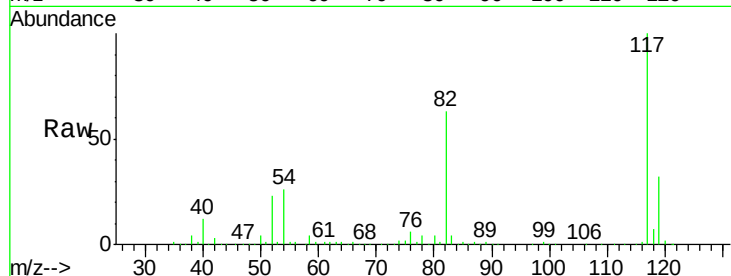




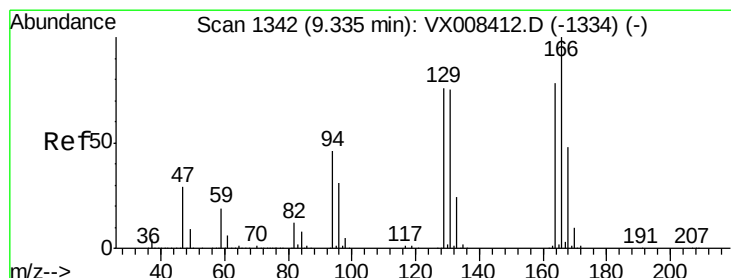
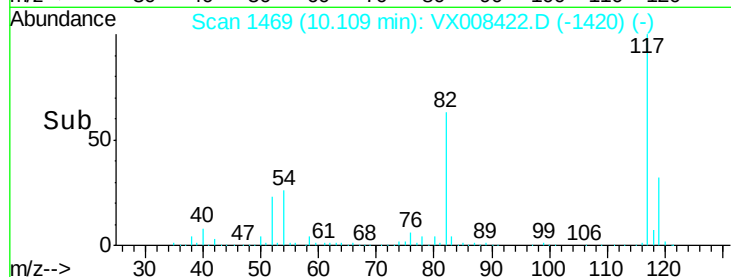
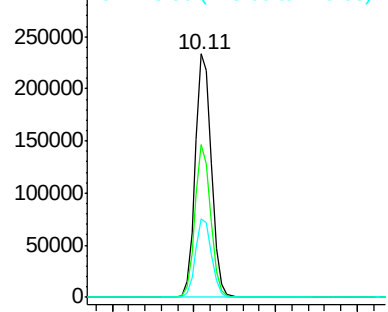
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
M4-T0-OZ(PRE)

Tot Ion:117 Resp: 321244
Ion Ratio Lower Upper
117 100
82 62.7 49.4 74.2
119 32.3 25.4 38.0



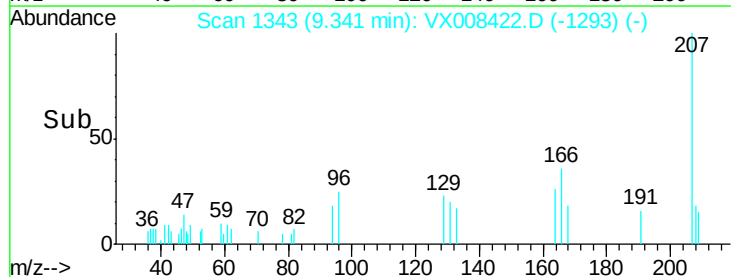
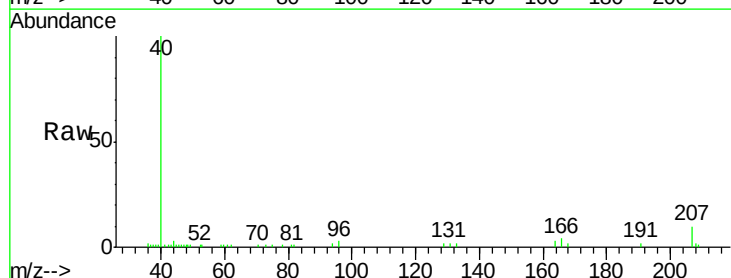
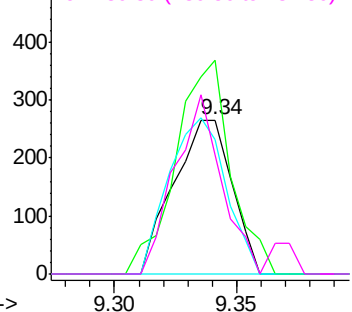
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

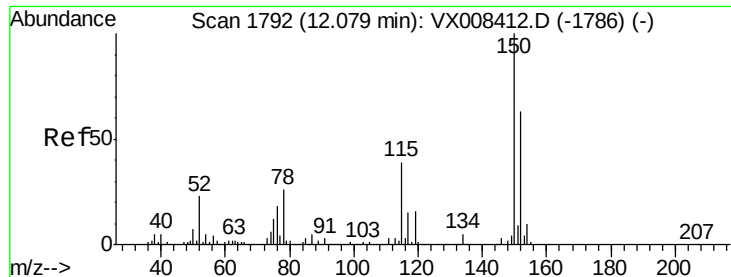


#64
Tetrachloroethene
Concen: 0.202 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

Tgt Ion:164 Resp: 440
Ion Ratio Lower Upper
164 100
166 138.9 102.5 153.7
129 87.5 77.8 116.8
131 77.4 76.9 115.3

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



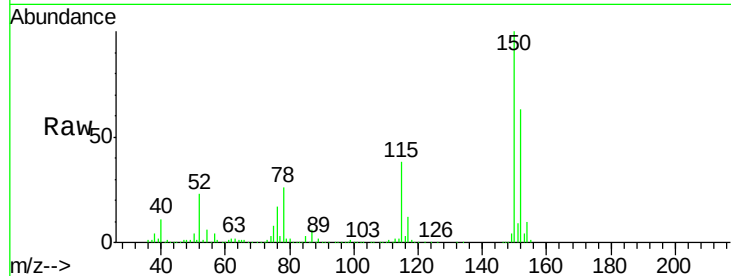


#72

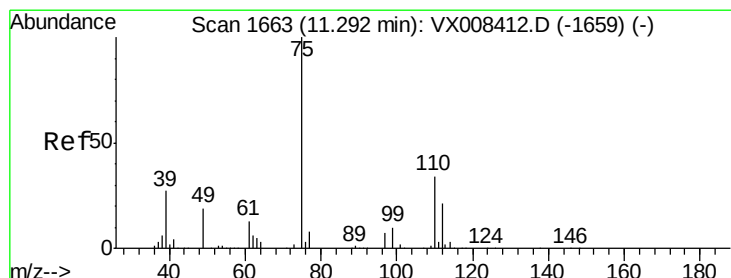
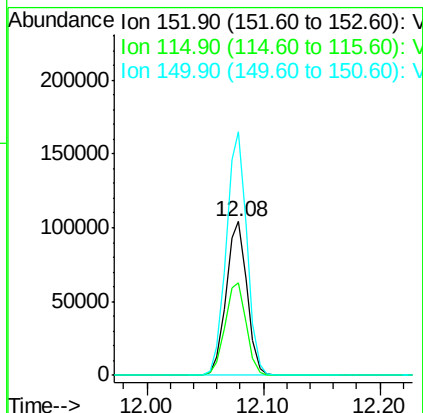
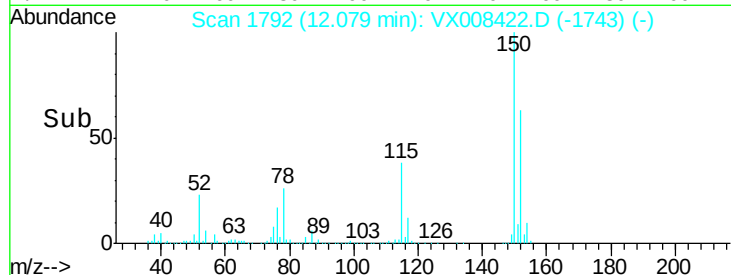
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
M4-T0-OZ(PRE)

Tot Ion:152 Resp: 128772
Ion Ratio Lower Upper
152 100
115 60.9 43.5 130.5
150 156.4 0.0 348.8



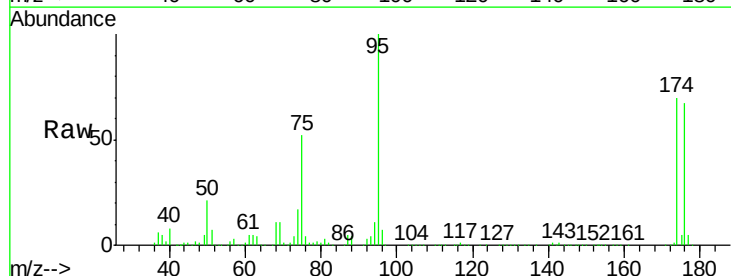
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



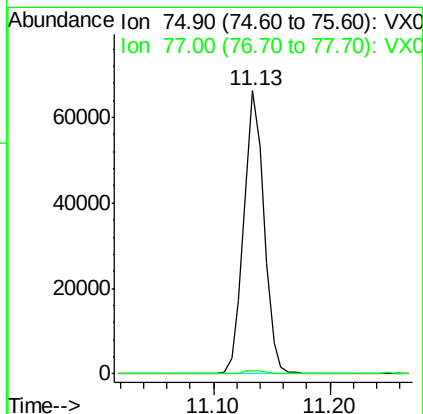
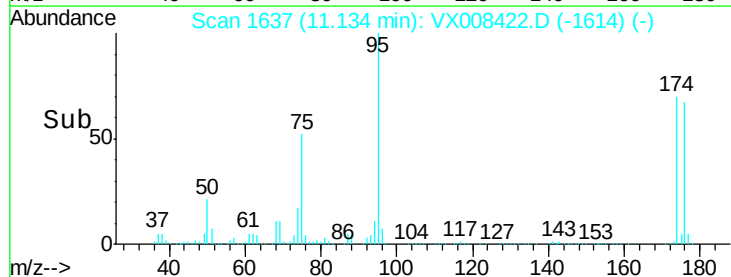
#76

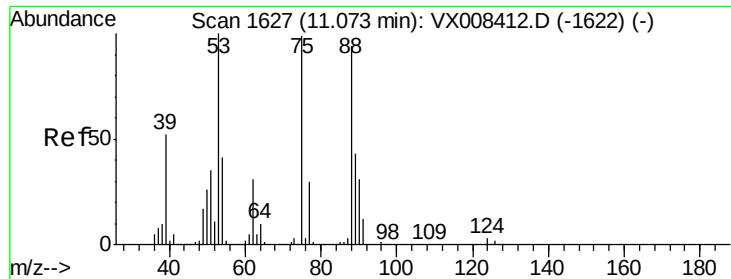
1,2,3-Trichloropropane
Concen: 21.119 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008422.D
Acq: 25 Mar 2019 20:13

Tgt Ion: 75 Resp: 80851
Ion Ratio Lower Upper
75 100
77 1.4 21.9 65.7#



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: 67.642 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008422.D

Acq: 25 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

M4-T0-OZ(PRE)

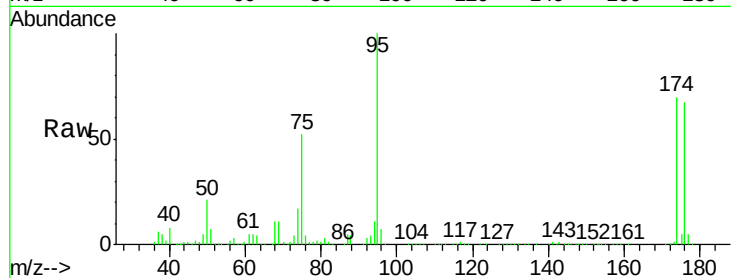
Tot Ion: 75 Resp: 80851

Ion Ratio Lower Upper

75 100

53 0.0 82.1 123.1#

89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

