

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008224.D
 Acq On : 20 Mar 2019 06:06
 Operator : JC/SP
 Sample : K1912-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M3-T1-OZ(PRE)

Quant Time: Mar 20 08:40:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:51:58 2019
 Response via : Initial Calibration

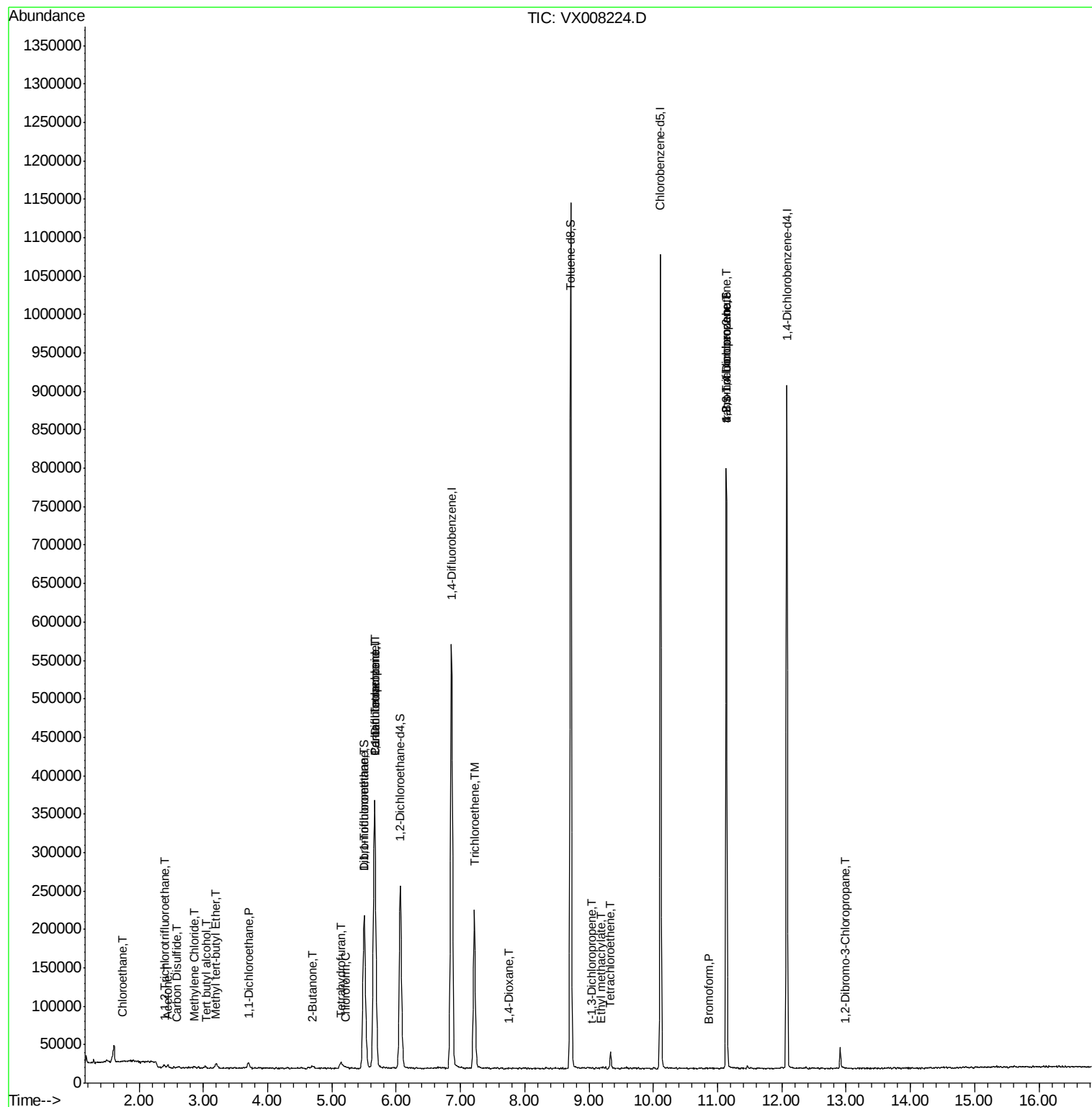
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	328410	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	534409	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	445748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175330	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	227706	46.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.08%	
35) Dibromofluoromethane	5.50	113	166258	46.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.94%	
50) Toluene-d8	8.71	98	653490	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
62) 4-Bromofluorobenzene	11.13	95	206439	44.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.40%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.74	64	914	0.293	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.40	101	1502	0.356	ug/l #	75
11) Tert butyl alcohol	3.04	59	1966	1.857	ug/l #	85
13) Acrolein	2.30	56	216	Below Cal		92
16) Acetone	2.45	43	5267	1.878	ug/l	96
17) Carbon Disulfide	2.58	76	849	0.740	ug/l #	66
19) Methyl tert-butyl Ether	3.20	73	6563	0.456	ug/l #	82
20) Methylene Chloride	2.85	84	1167	0.249	ug/l #	82
24) 1,1-Dichloroethane	3.71	63	8105	0.928	ug/l	97
25) 2-Butanone	4.70	43	3108	0.751	ug/l	96
29) Tetrahydrofuran	5.14	42	8432	3.257	ug/l	92
30) Chloroform	5.22	83	2213	0.271	ug/l	88
32) 1,1,1-Trichloroethane	5.51	97	2784	0.409	ug/l #	45
36) 1,1-Dichloropropene	5.67	75	26489	4.257	ug/l #	49
38) Carbon Tetrachloride	5.67	117	32610	5.882	ug/l #	17
44) Trichloroethene	7.21	130	77666	17.248	ug/l	89
49) 1,4-Dioxane	7.75	88	183	1.654	ug/l #	5
53) t-1,3-Dichloropropene	9.04	75	195	1.448	ug/l #	43
56) Ethyl methacrylate	9.19	69	265	0.560	ug/l #	86
64) Tetrachloroethene	9.34	164	4009	0.997	ug/l	91
71) Bromoform	10.86	173	90	2.229	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	107093	21.717	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	107093	55.208	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.00	75	277	0.223	ug/l #	1

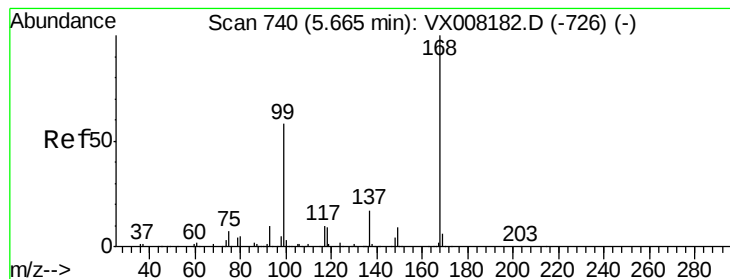
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031919\
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Acq On : 20 Mar 2019 06:06
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Quant Time: Mar 20 08:40:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 06:51:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

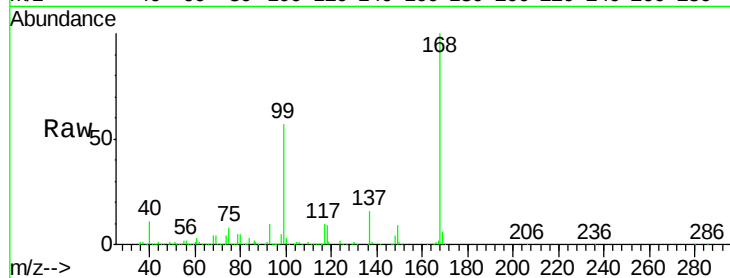
M3-T1-OZ(PRE)

Tot Ion:168 Resp: 328410

Ion Ratio Lower Upper

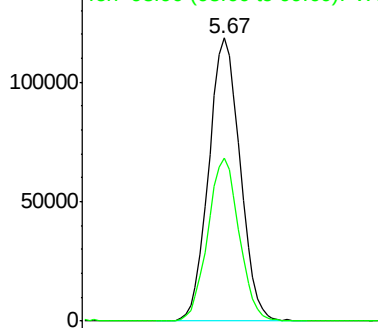
168 100

99 57.3 37.6 56.4#

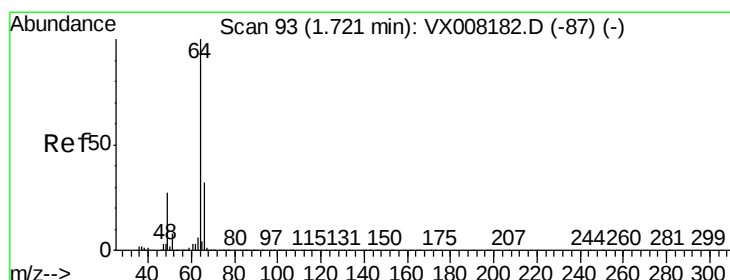
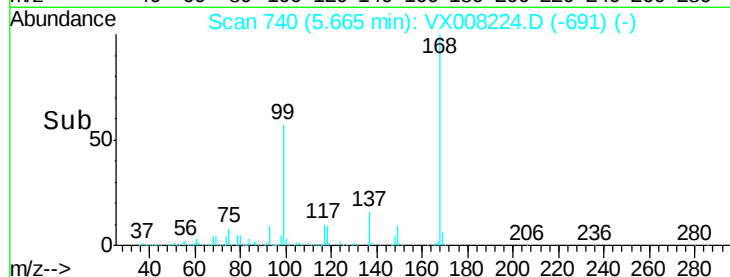


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



Time-->



#6

Chloroethane

Concen: 0.293 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX008224.D

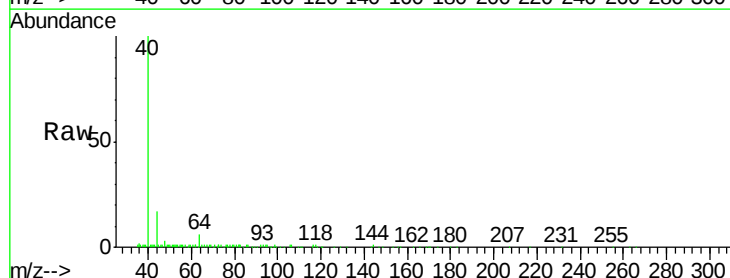
Acq: 20 Mar 2019 06:06

Tgt Ion: 64 Resp: 914

Ion Ratio Lower Upper

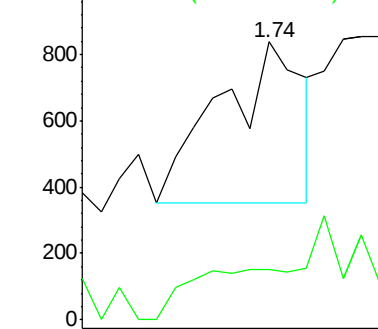
64 100

66 31.7 25.2 37.8

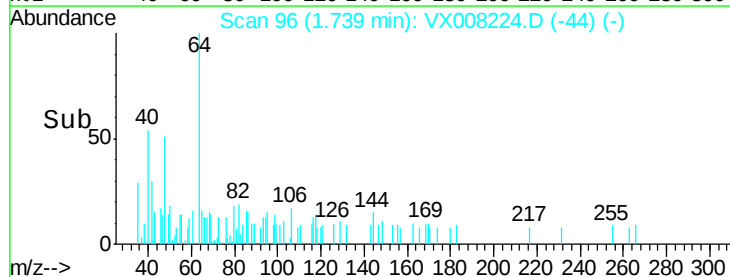


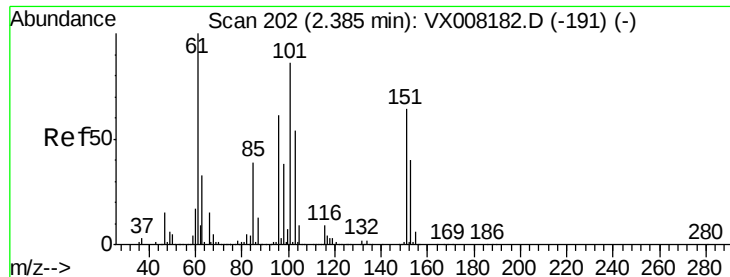
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.356 ug/l

RT: 2.40 min Scan# 204

Delta R.T. 0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

M3-T1-OZ(PRE)

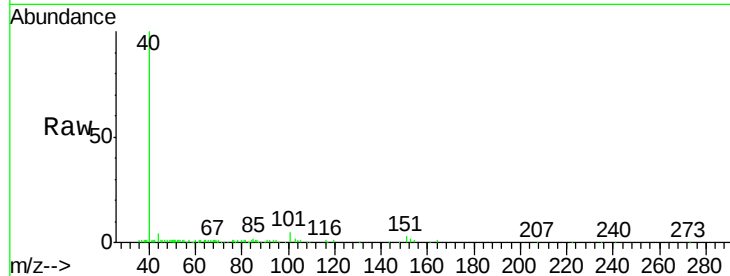
Tot Ion:101 Resp: 1502

Ion Ratio Lower Upper

101 100

85 53.4 33.8 50.6#

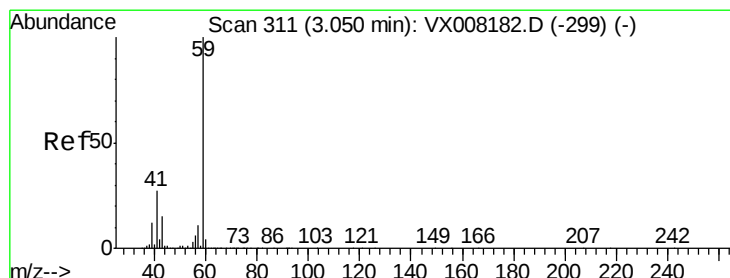
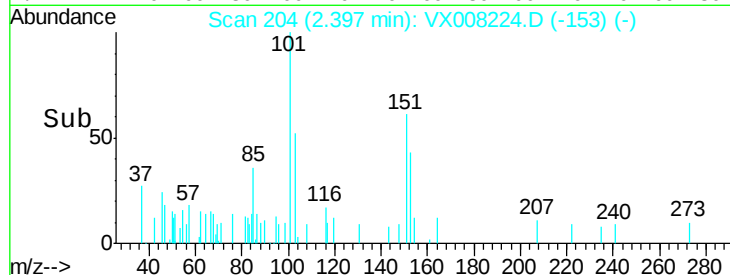
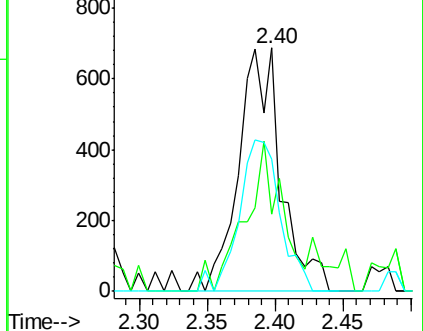
151 60.1 69.1 103.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.857 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX008224.D

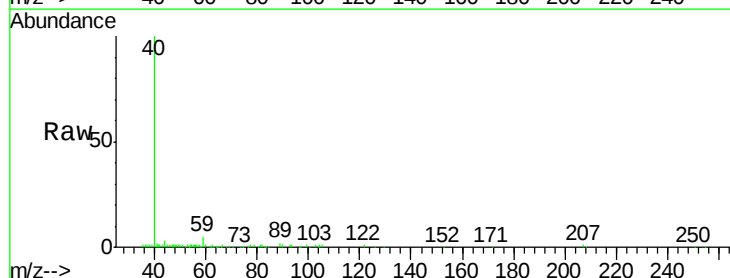
Acq: 20 Mar 2019 06:06

Tgt Ion: 59 Resp: 1966

Ion Ratio Lower Upper

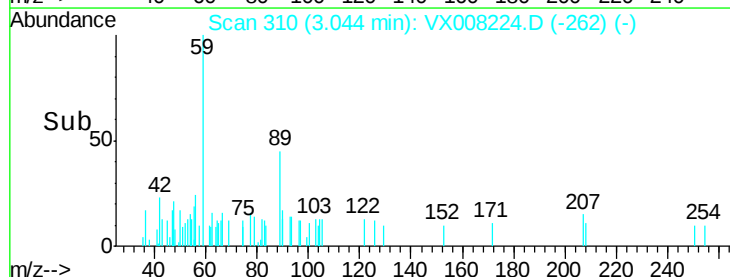
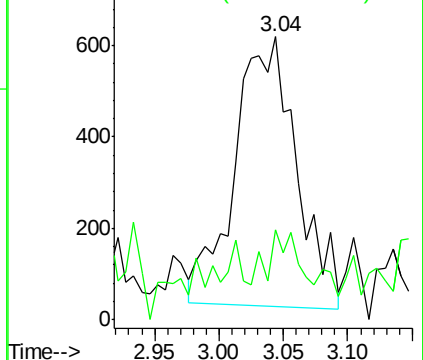
59 100

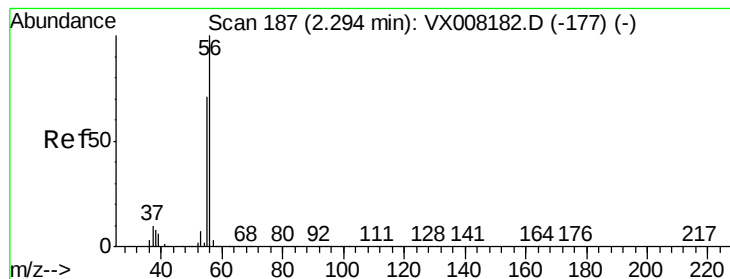
57 15.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

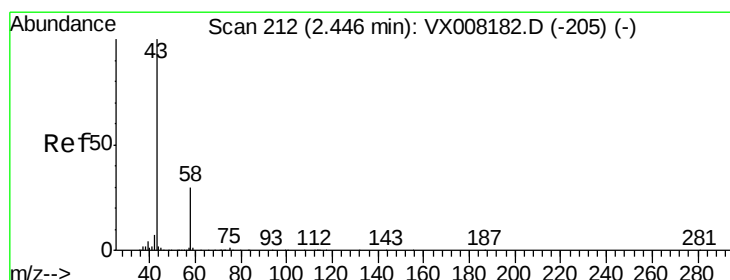
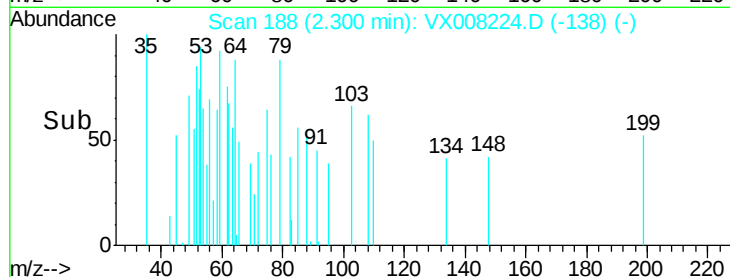
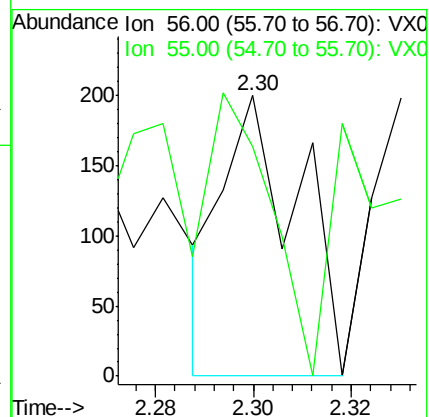
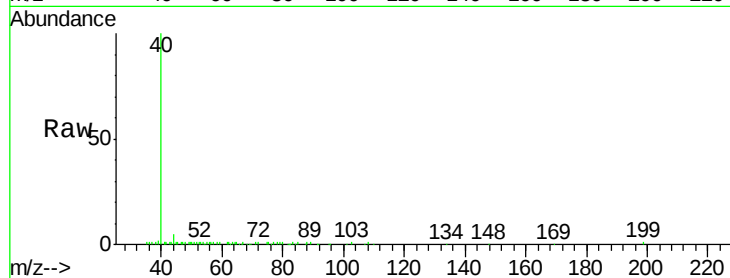
Instrument :
MSVOA_X
ClientSampleId :
M3-T1-OZ(PRE)

Tot Ion: 56 Resp: 216

Ion Ratio Lower Upper

56 100

55 79.2 57.8 86.6



#16

Acetone

Concen: 1.878 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008224.D

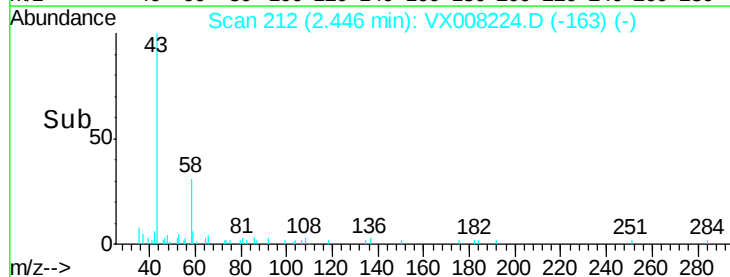
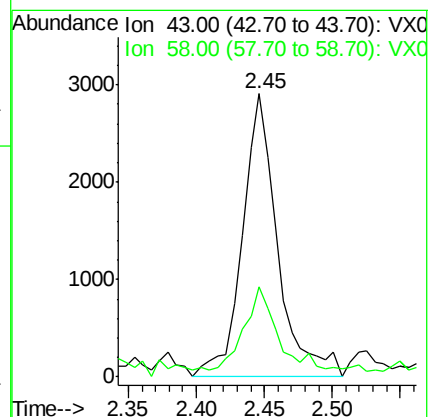
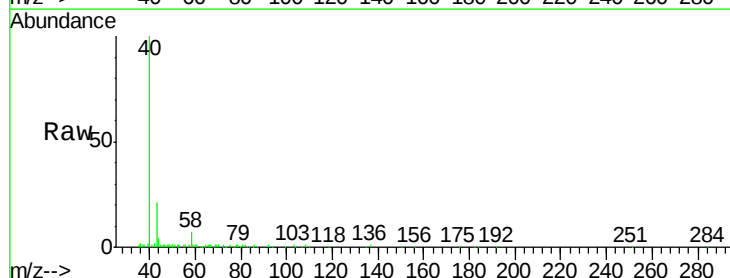
Acq: 20 Mar 2019 06:06

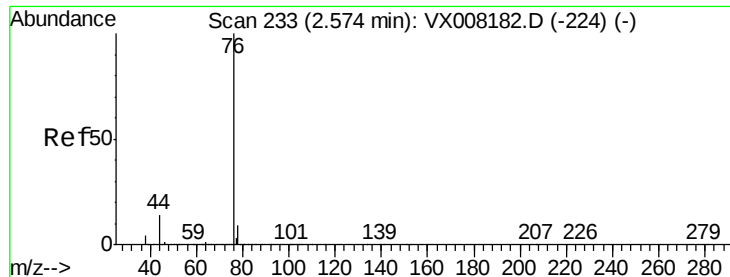
Tgt Ion: 43 Resp: 5267

Ion Ratio Lower Upper

43 100

58 29.5 25.5 38.3





#17

Carbon Disulfide

Concen: 0.740 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

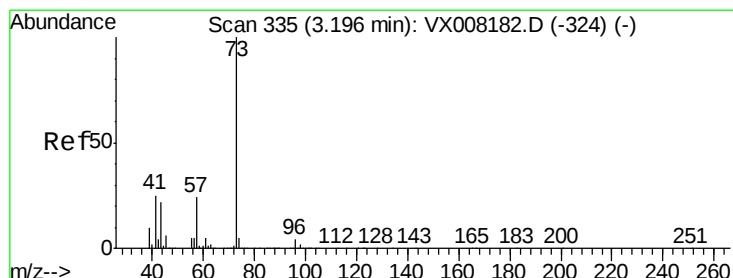
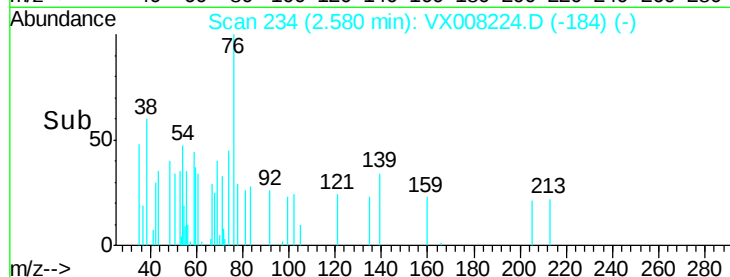
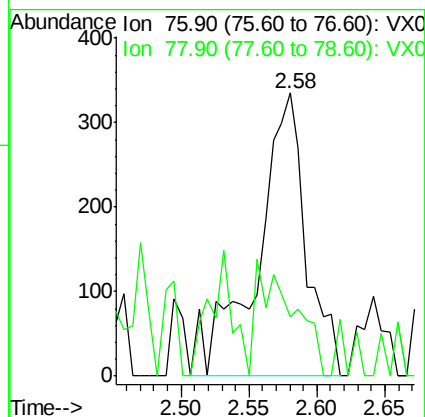
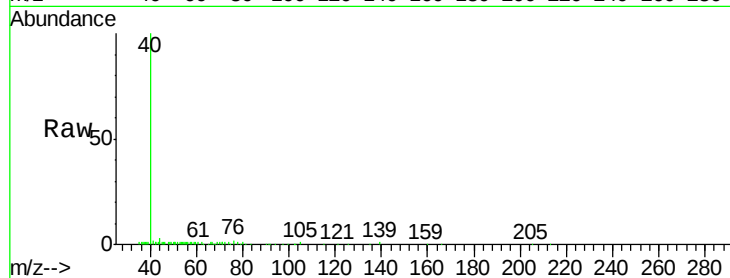
M3-T1-OZ(PRE)

Tot Ion: 76 Resp: 849

Ion Ratio Lower Upper

76 100

78 21.2 7.2 10.8#



#19

Methyl tert-butyl Ether

Concen: 0.456 ug/l

RT: 3.20 min Scan# 335

Delta R.T. -0.00 min

Lab File: VX008224.D

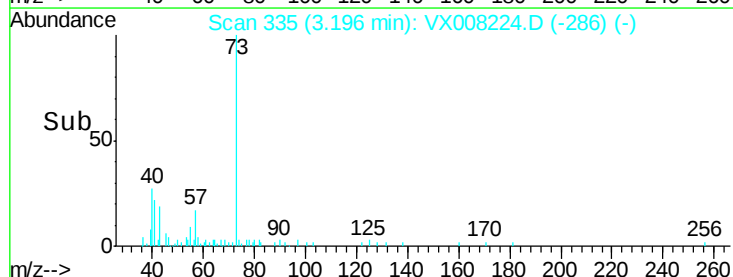
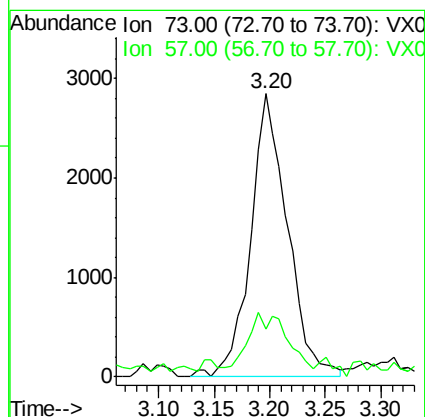
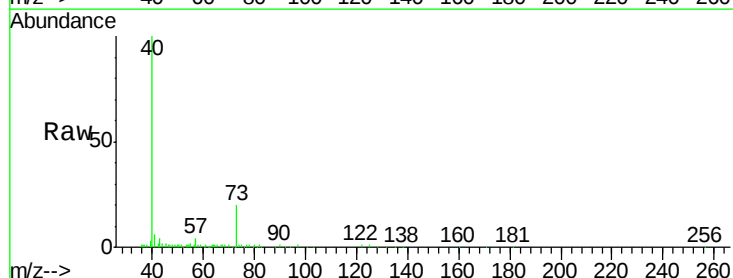
Acq: 20 Mar 2019 06:06

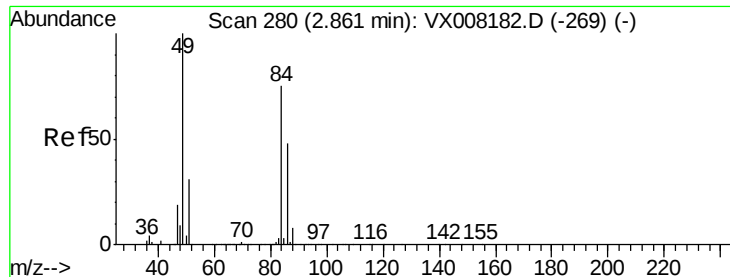
Tgt Ion: 73 Resp: 6563

Ion Ratio Lower Upper

73 100

57 14.1 18.2 27.4#

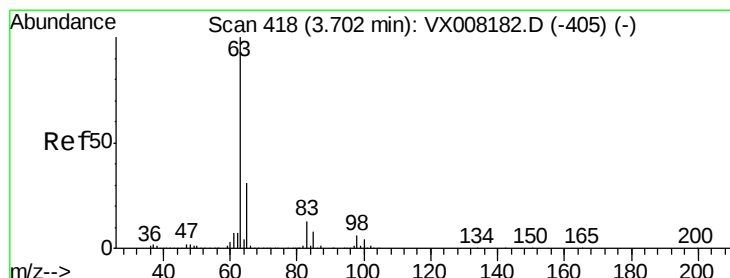
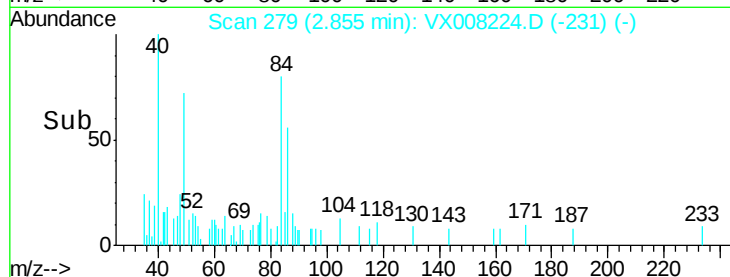
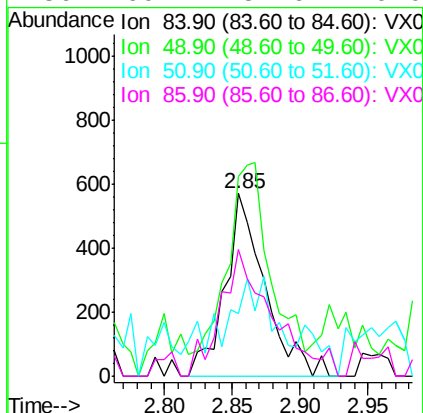
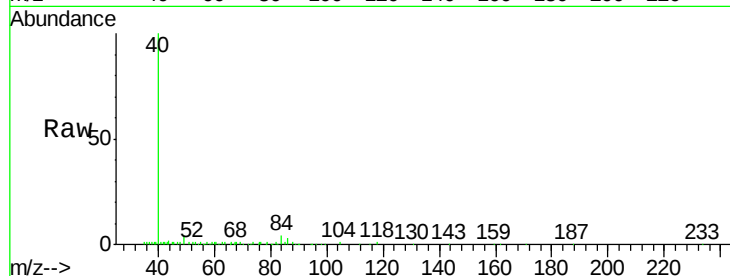




#20
Methvlene Chloride
Concen: 0.249 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

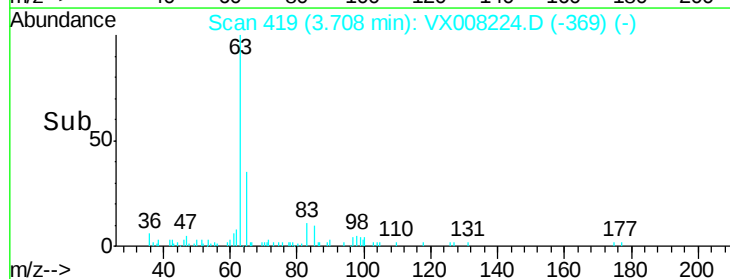
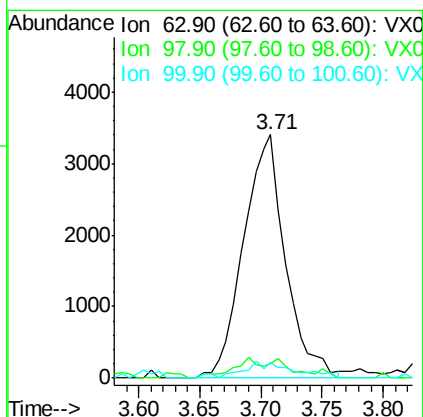
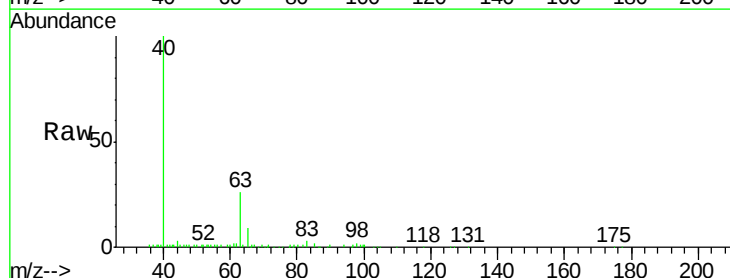
Instrument :
MSVOA_X
ClientSampleId :
M3-T1-OZ(PRE)

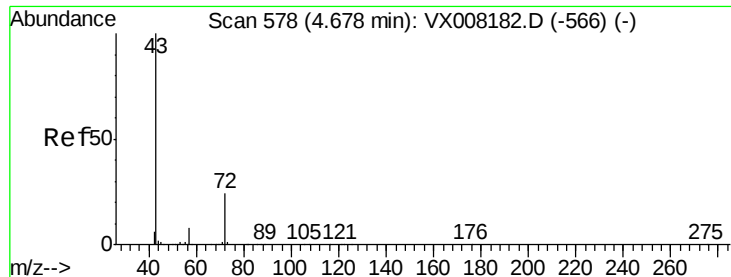
Tot Ion:	84	Resp:	1167
Ion	Ratio	Lower	Upper
84	100		
49	97.4	99.3	148.9#
51	24.5	31.3	46.9#
86	69.2	52.6	79.0



#24
1,1-Dichloroethane
Concen: 0.928 ug/l
RT: 3.71 min Scan# 419
Delta R.T. 0.01 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

Tgt Ion:	63	Resp:	8105
Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.3	9.8
100	6.7	2.3	6.8





#25

2-Butanone

Concen: 0.751 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

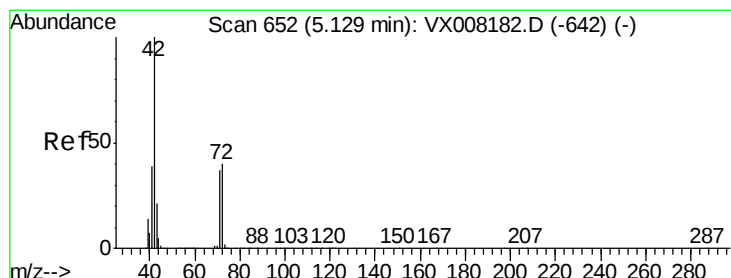
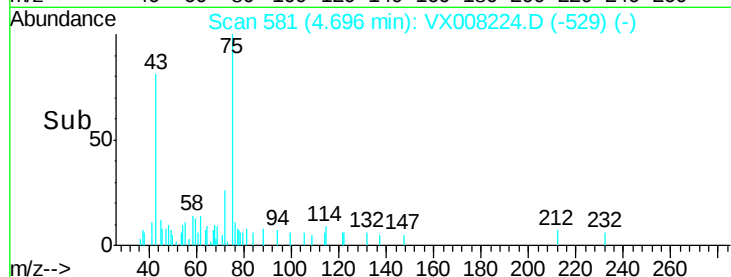
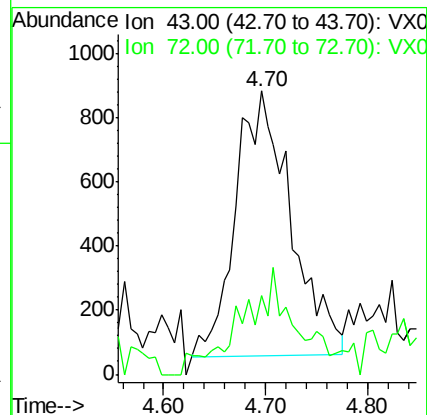
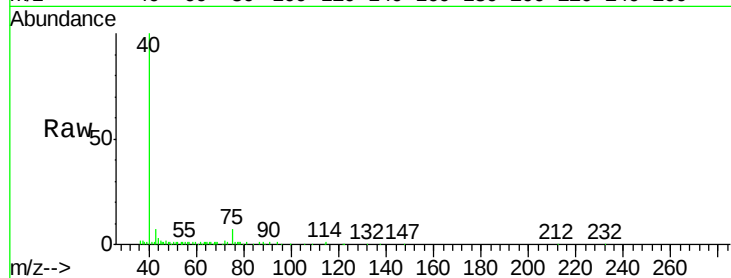
M3-T1-OZ(PRE)

Tot Ion: 43 Resp: 3108

Ion Ratio Lower Upper

43 100

72 22.9 19.9 29.9



#29

Tetrahydrofuran

Concen: 3.257 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

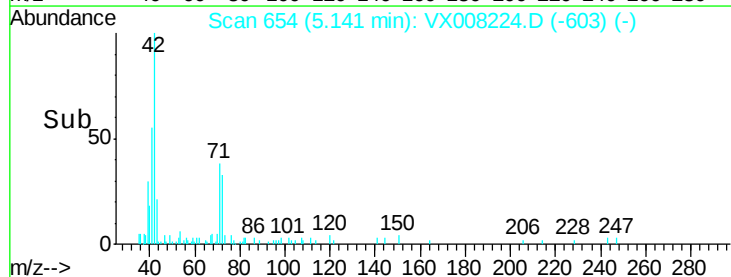
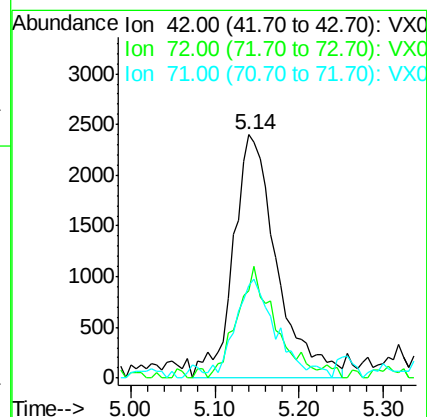
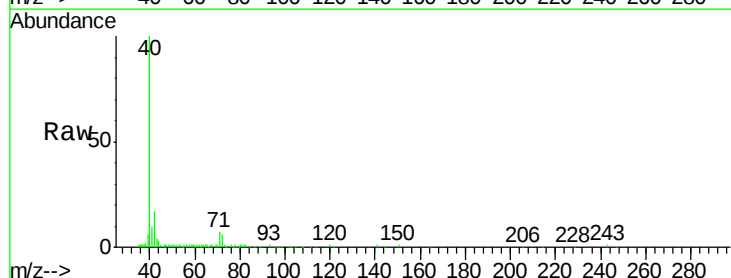
Tgt Ion: 42 Resp: 8432

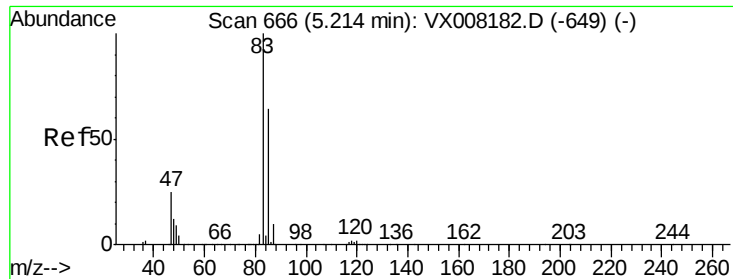
Ion Ratio Lower Upper

42 100

72 40.0 33.8 50.6

71 32.1 31.5 47.3

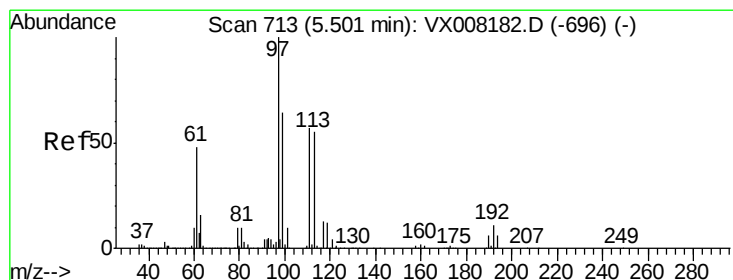
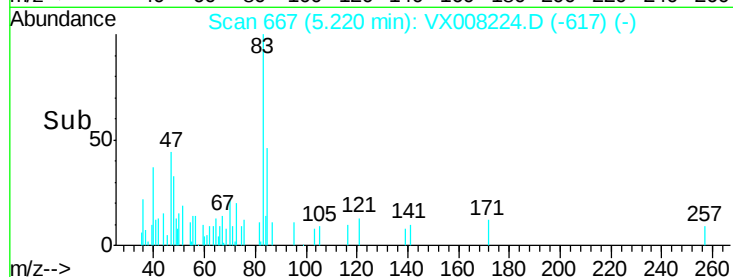
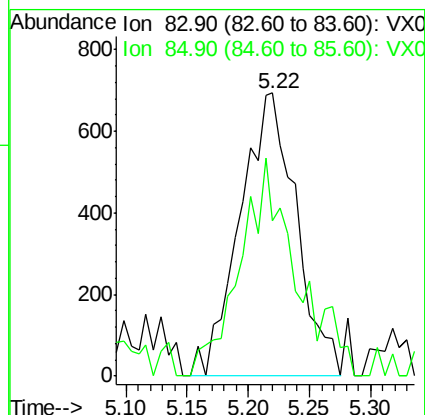
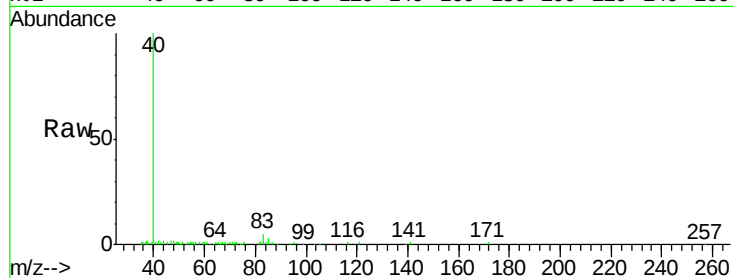




#30
Chloroform
Concen: 0.271 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

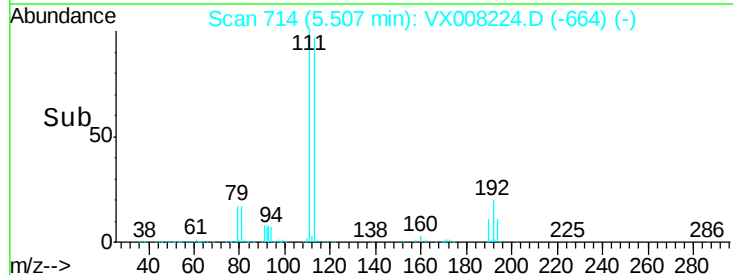
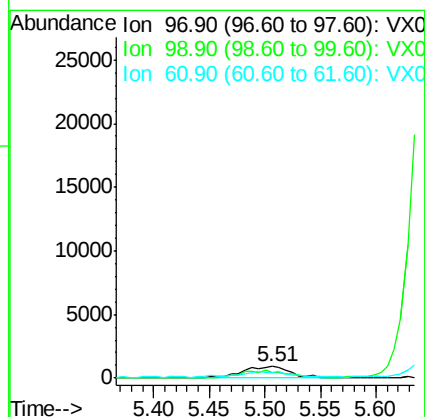
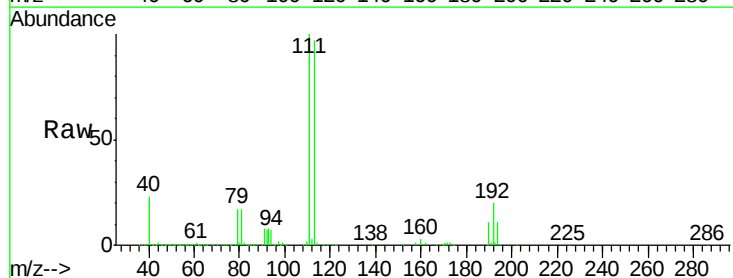
Instrument :
MSVOA_X
ClientSampleId :
M3-T1-OZ(PRE)

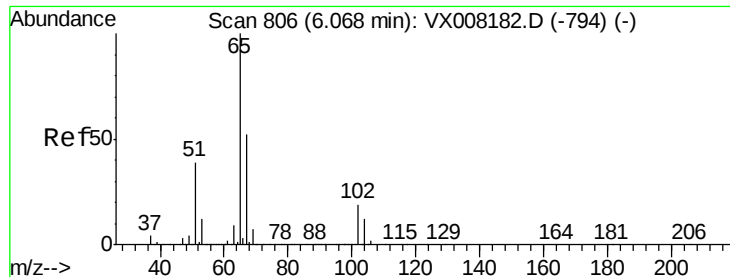
Tot Ion: 83 Resp: 2213
Ion Ratio Lower Upper
83 100
85 55.1 51.8 77.6



#32
1,1,1-Trichloroethane
Concen: 0.409 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

Tgt Ion: 97 Resp: 2784
Ion Ratio Lower Upper
97 100
99 0.0 52.2 78.2#
61 53.0 34.9 52.3#





#33

1,2-Dichloroethane-d4

Concen: 46.037 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

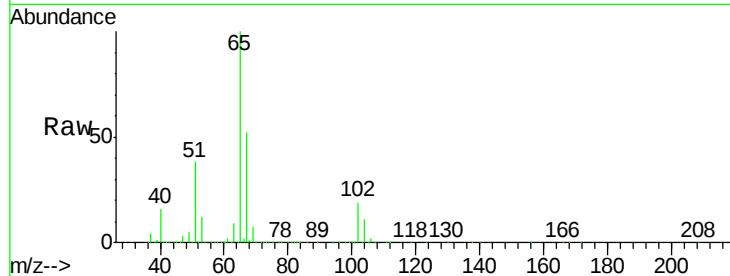
M3-T1-OZ(PRE)

Tot Ion: 65 Resp: 227706

Ion Ratio Lower Upper

65 100

67 53.3 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

80000

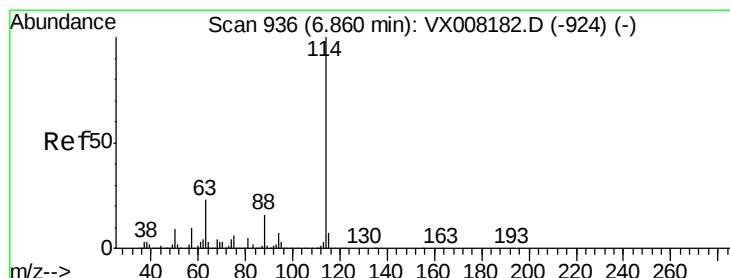
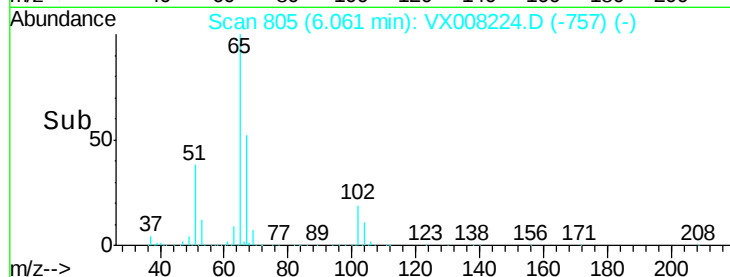
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20 6.30



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

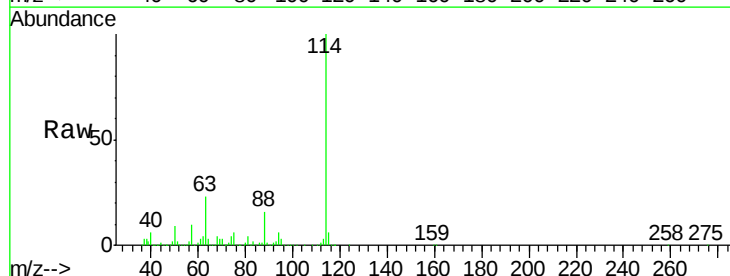
Tgt Ion: 114 Resp: 534409

Ion Ratio Lower Upper

114 100

63 22.7 0.0 39.8

88 16.2 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

6.86

300000

250000

200000

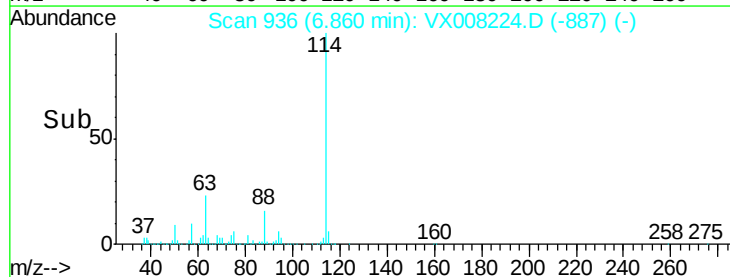
150000

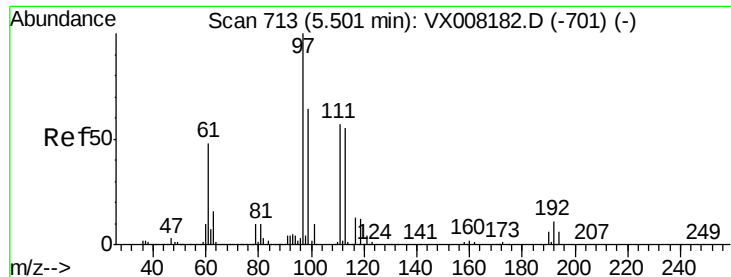
100000

50000

0

Time--> 6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 46.473 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

M3-T1-OZ(PRE)

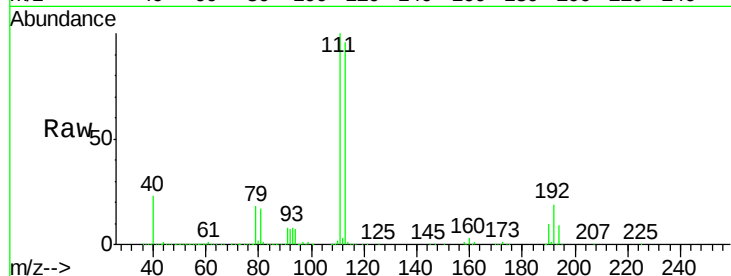
Tot Ion:113 Resp: 166258

Ion Ratio Lower Upper

113 100

111 103.8 81.4 122.0

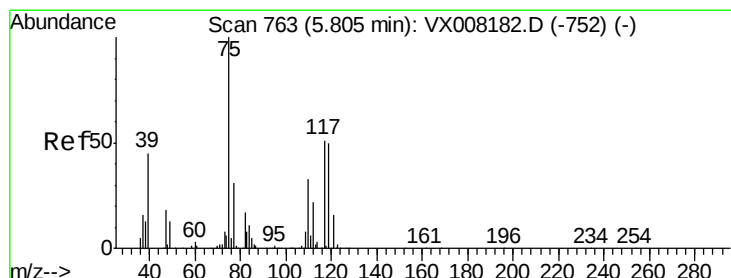
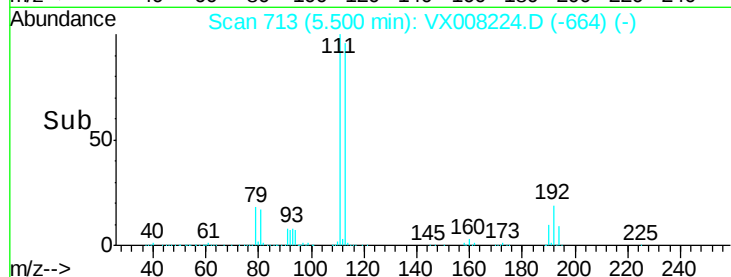
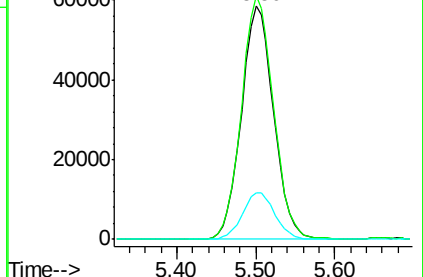
192 20.3 19.4 29.0



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: 4.257 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.14 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

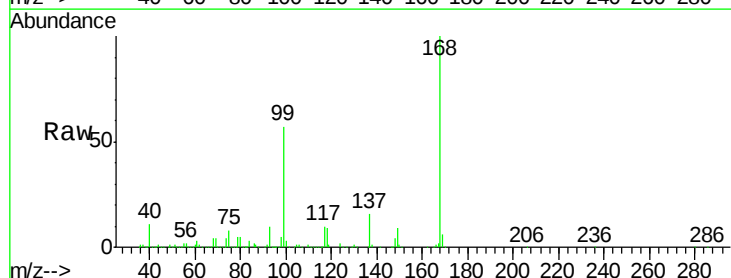
Tgt Ion: 75 Resp: 26489

Ion Ratio Lower Upper

75 100

110 8.9 18.4 55.0#

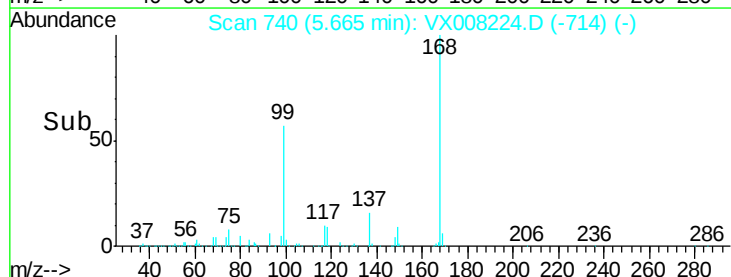
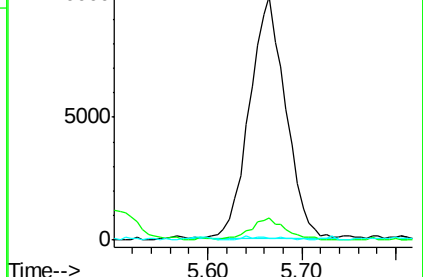
77 0.0 25.0 37.4#

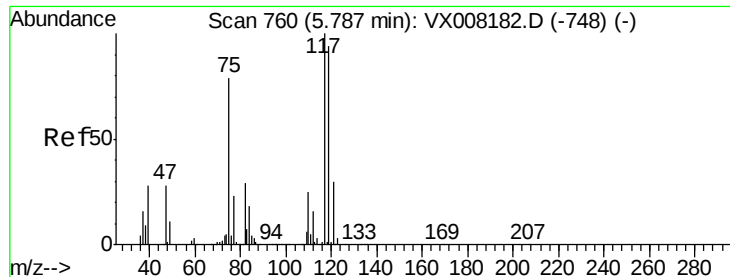


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

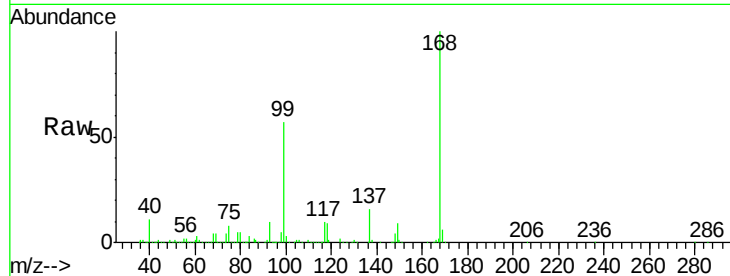




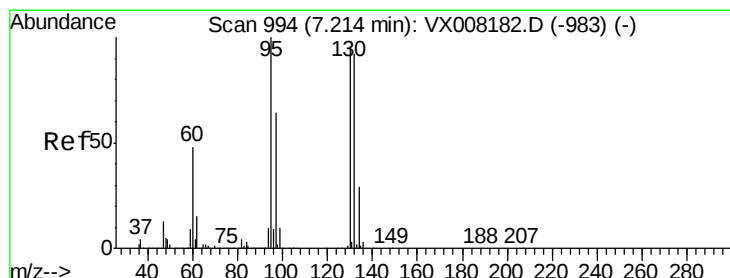
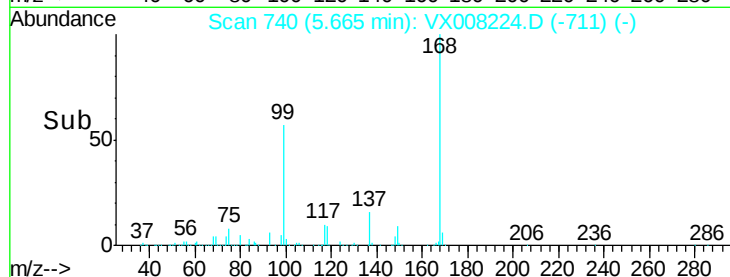
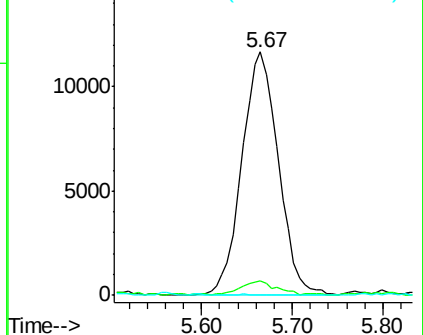
#38
Carbon Tetrachloride
Concen: 5.882 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

Instrument :
MSVOA_X
ClientSampleId :
M3-T1-OZ(PRE)

Tot Ion:117 Resp: 32610
Ion Ratio Lower Upper
117 100
119 5.9 76.2 114.2#
121 0.0 24.6 36.8#

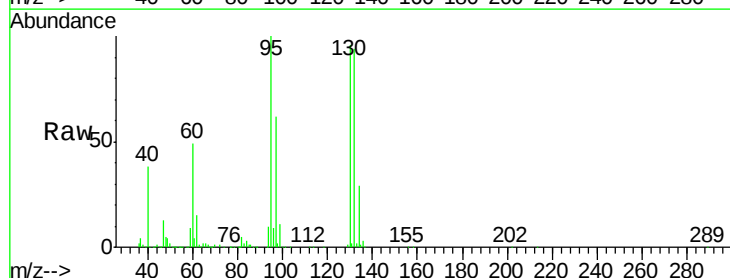


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

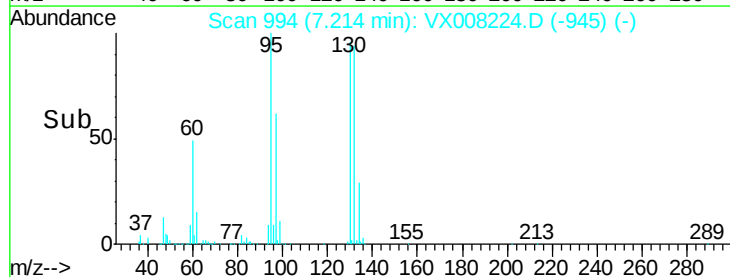
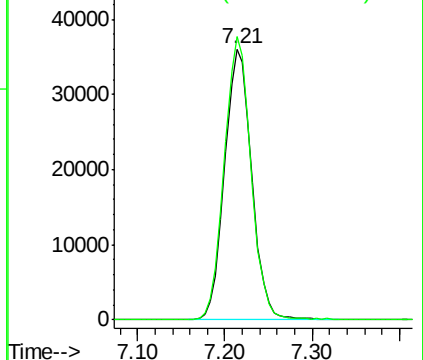


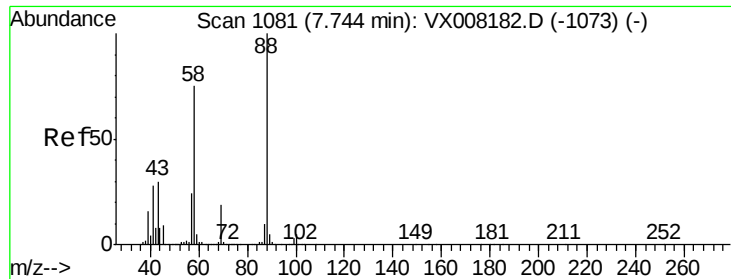
#44
Trichloroethene
Concen: 17.248 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

Tgt Ion:130 Resp: 77666
Ion Ratio Lower Upper
130 100
95 104.2 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.654 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

M3-T1-OZ(PRE)

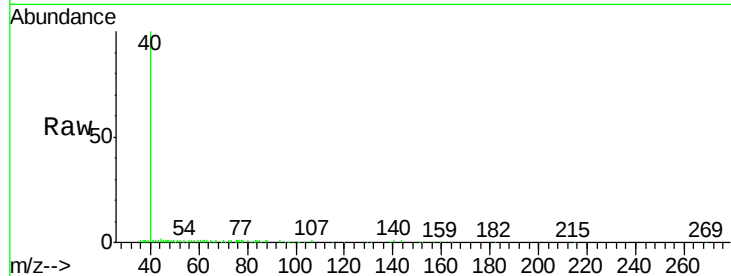
Tot Ion: 88 Resp: 183

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

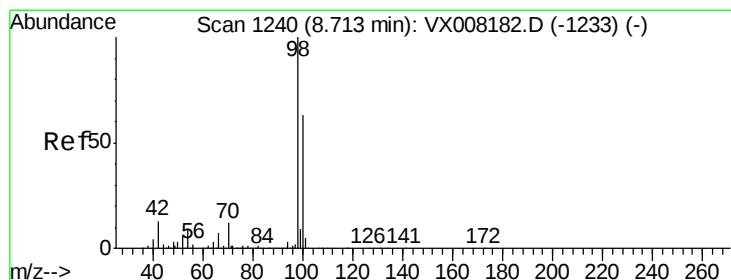
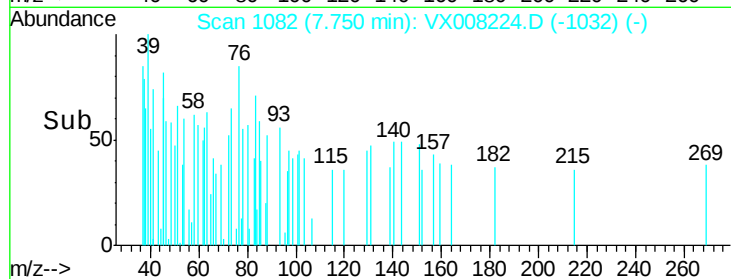
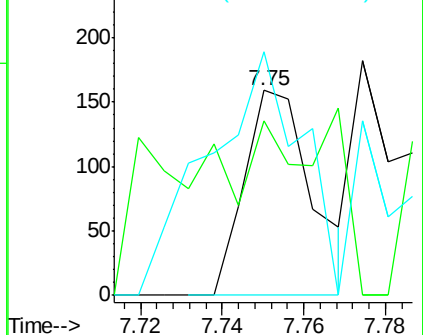
58 165.6 57.8 86.6#



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: 48.180 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008224.D

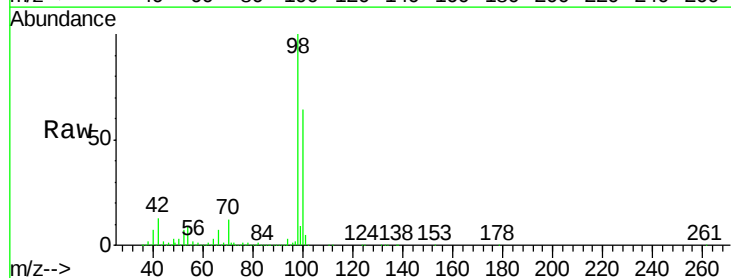
Acq: 20 Mar 2019 06:06

Tgt Ion: 98 Resp: 653490

Ion Ratio Lower Upper

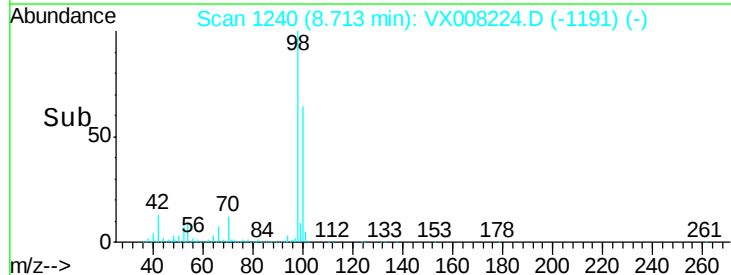
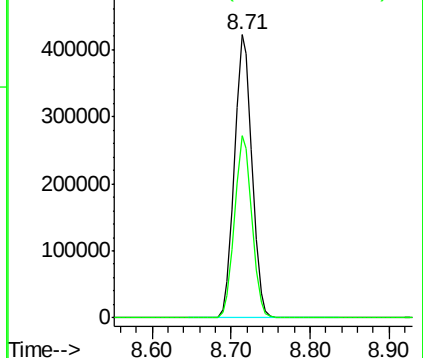
98 100

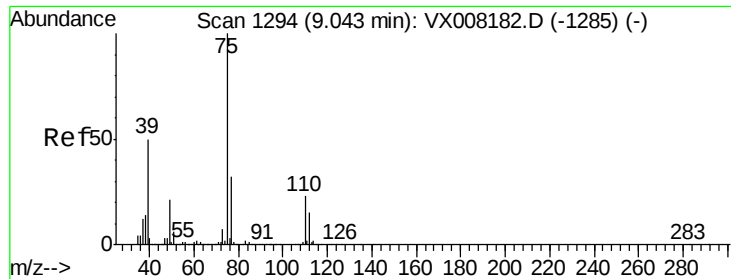
100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#53

t-1,3-Dichloropropene

Concen: 1.448 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

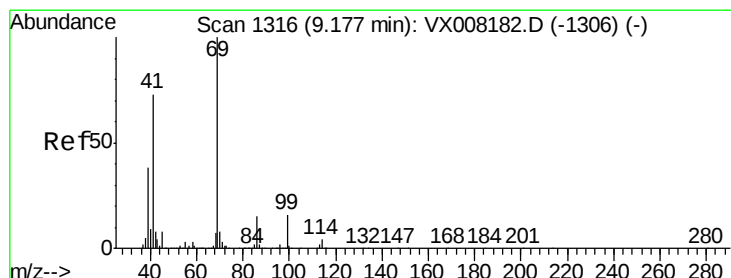
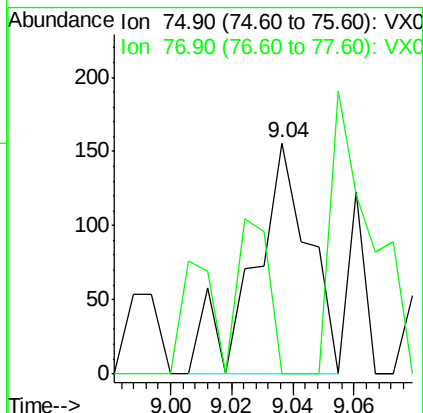
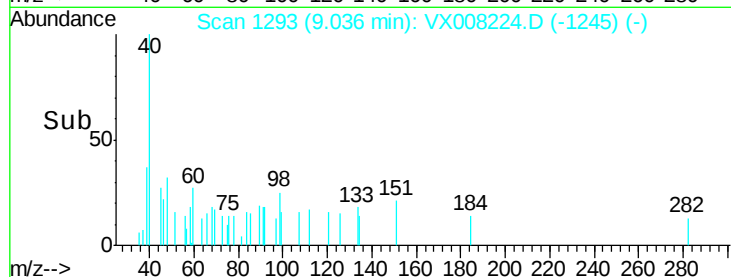
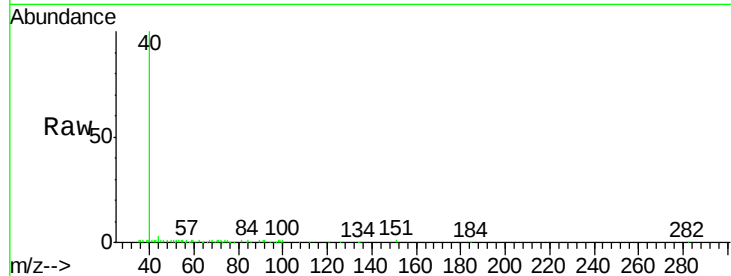
M3-T1-OZ(PRE)

Tot Ion: 75 Resp: 195

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#56

Ethyl methacrylate

Concen: 0.560 ug/l

RT: 9.19 min Scan# 1319

Delta R.T. 0.02 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

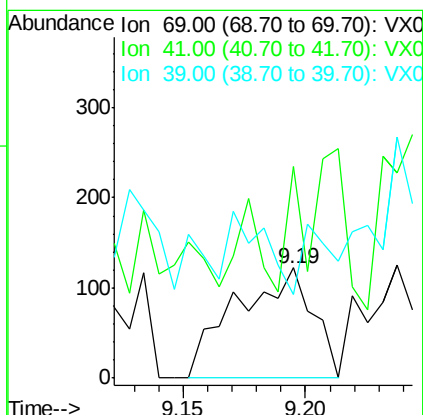
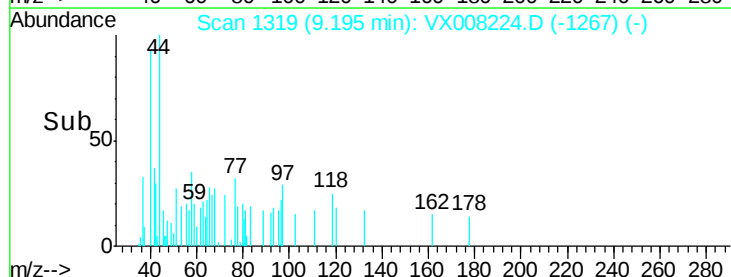
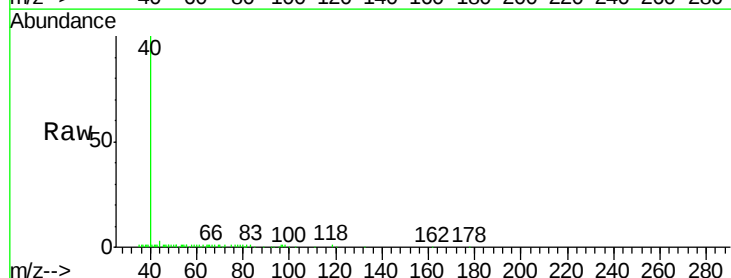
Tgt Ion: 69 Resp: 265

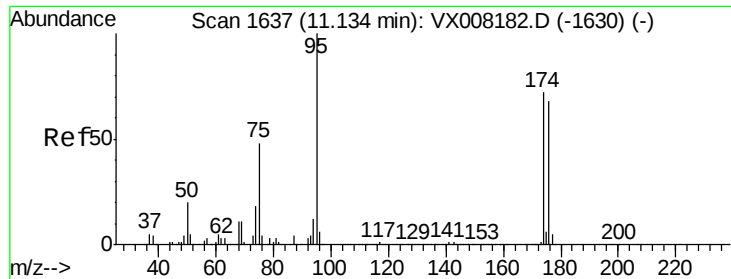
Ion Ratio Lower Upper

69 100

41 78.9 54.2 81.4

39 23.4 25.0 37.4#

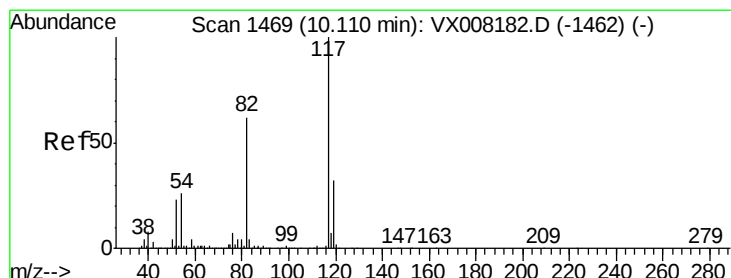
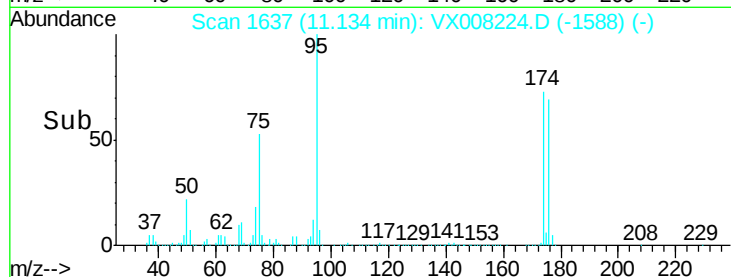
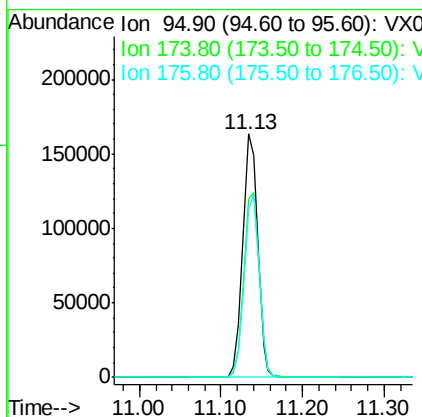
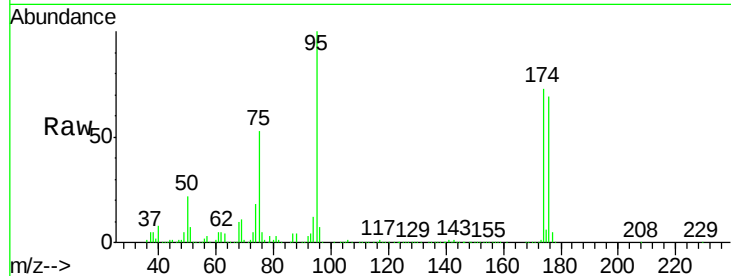




#62
4-Bromofluorobenzene
Concen: 44.203 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

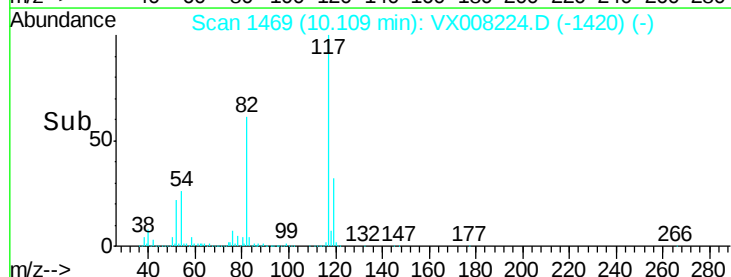
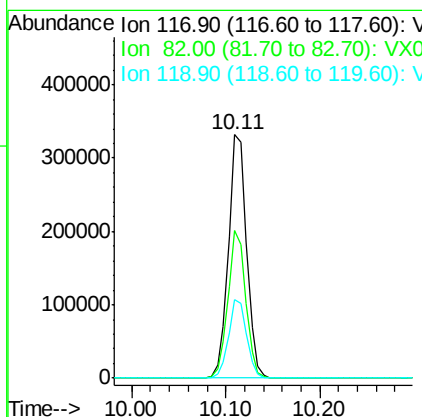
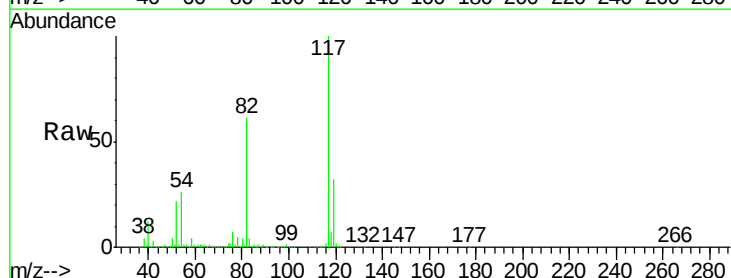
Instrument :
MSVOA_X
ClientSampleId :
M3-T1-OZ(PRE)

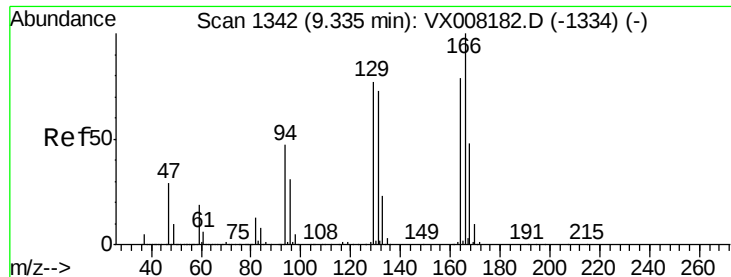
Tot Ion: 95 Resp: 206439
Ion Ratio Lower Upper
95 100
174 78.4 0.0 182.8
176 75.5 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

Tgt Ion: 117 Resp: 445748
Ion Ratio Lower Upper
117 100
82 60.7 44.3 66.5
119 32.1 25.3 37.9





#64

Tetrachloroethene

Concen: 0.997 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

M3-T1-OZ(PRE)

Tot Ion:164 Resp: 4009

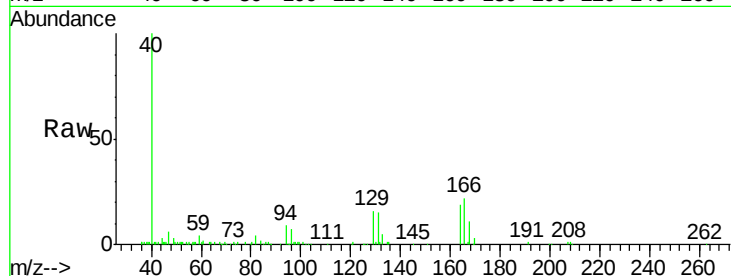
Ion Ratio Lower Upper

164 100

166 118.4 103.4 155.0

129 86.3 72.2 108.4

131 74.1 69.4 104.2

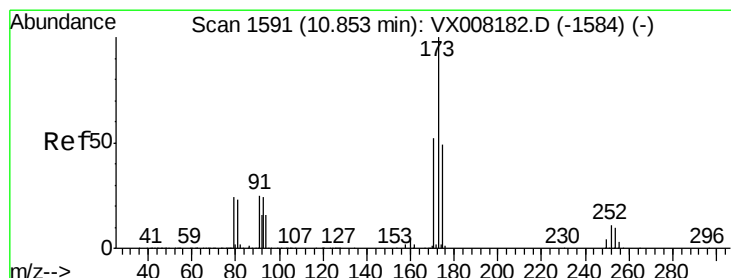
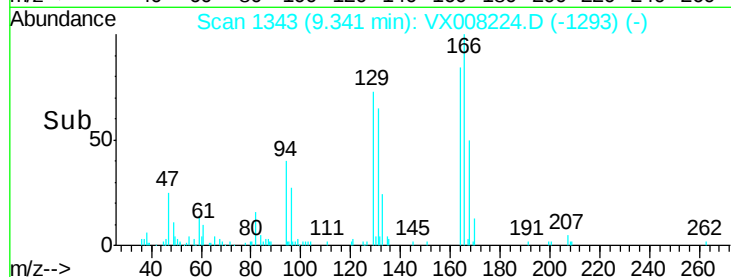
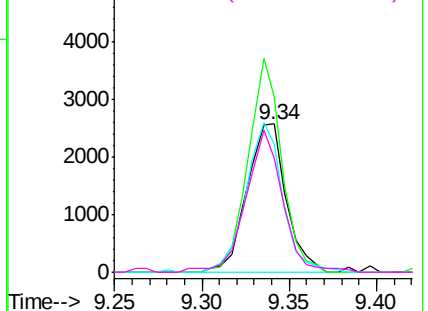


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 2.229 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

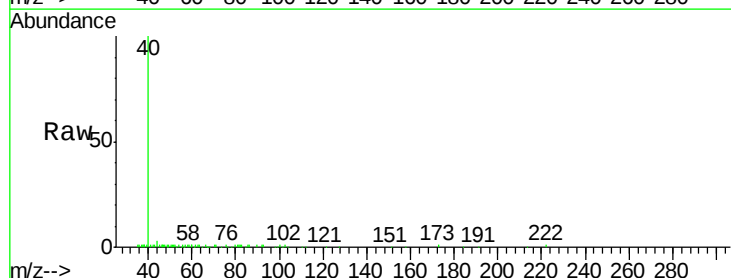
Tgt Ion:173 Resp: 90

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

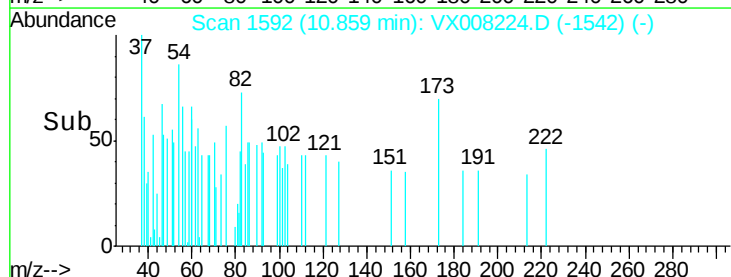
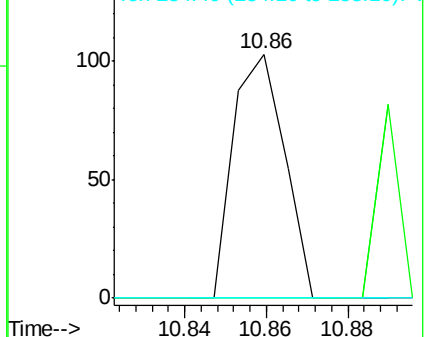
254 0.0 0.1 0.1#

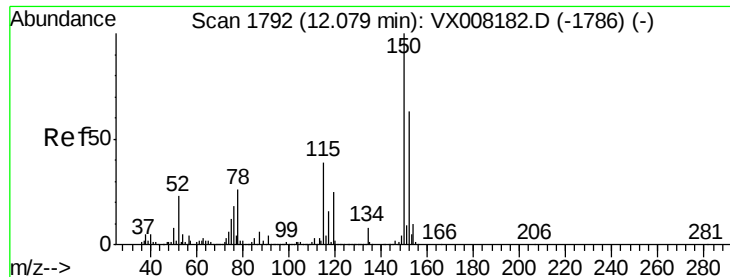


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



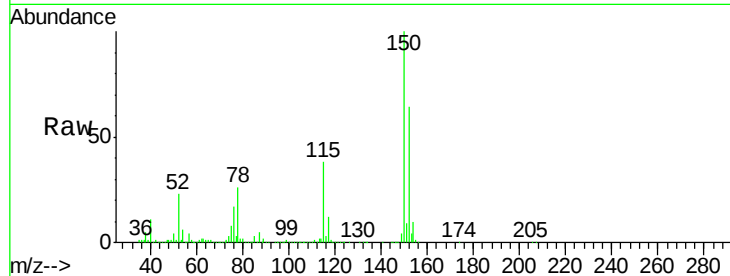


#72

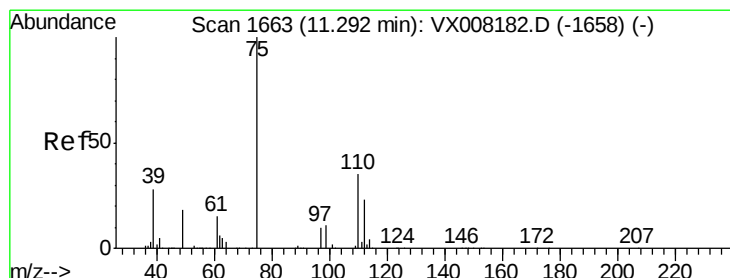
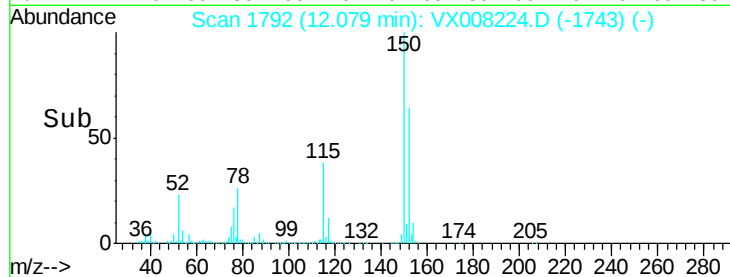
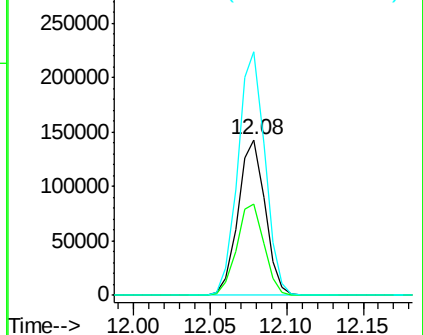
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

Instrument :
MSVOA_X
ClientSampleId :
M3-T1-OZ(PRE)

Tot Ion:152 Resp: 175330
Ion Ratio Lower Upper
152 100
115 59.8 38.6 115.7
150 157.1 0.0 348.4



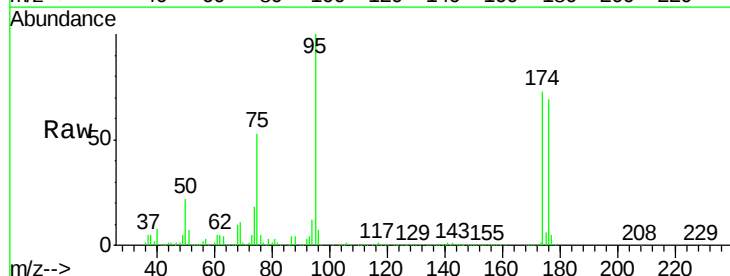
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



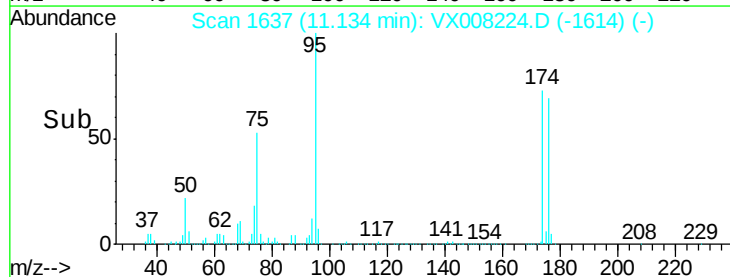
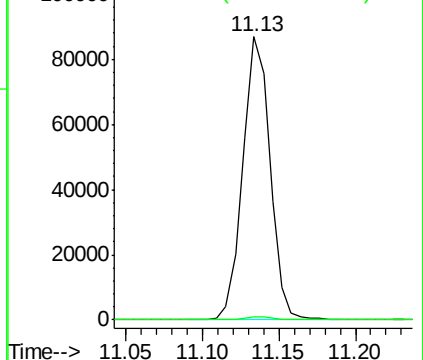
#76

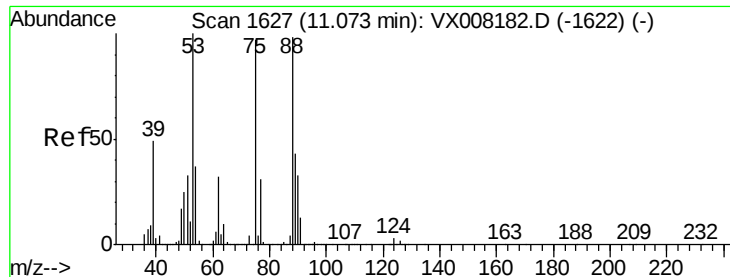
1,2,3-Trichloropropane
Concen: 21.717 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008224.D
Acq: 20 Mar 2019 06:06

Tgt Ion: 75 Resp: 107093
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: 55.208 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

Instrument :

MSVOA_X

ClientSampleId :

M3-T1-OZ(PRE)

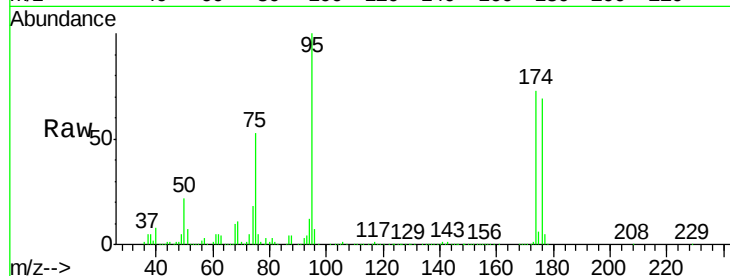
Tot Ion: 75 Resp: 107093

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

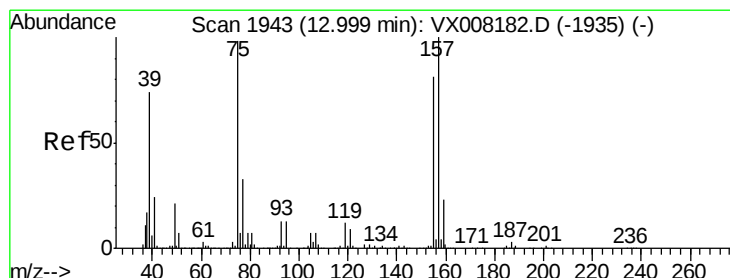
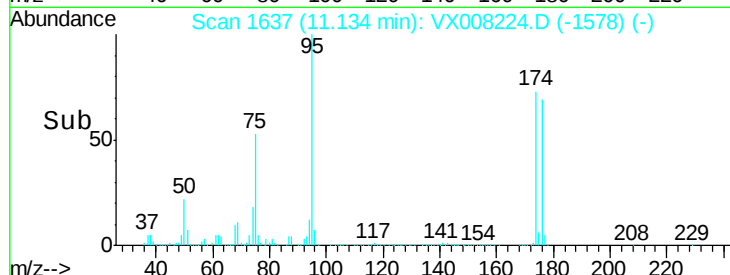
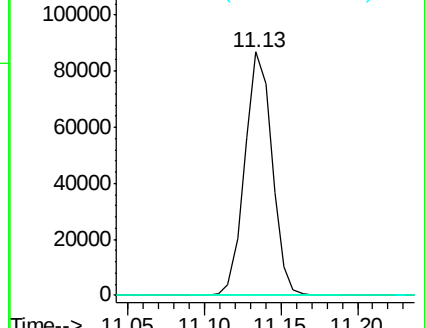
89 0.0 36.3 54.5#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.223 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX008224.D

Acq: 20 Mar 2019 06:06

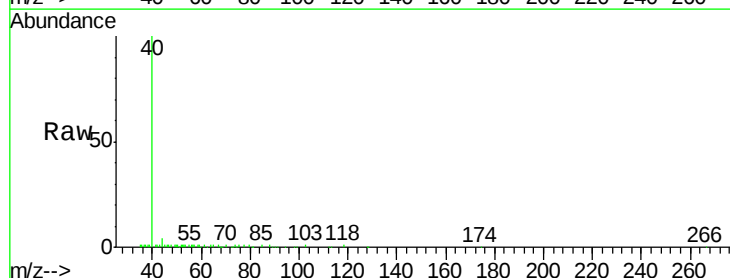
Tgt Ion: 75 Resp: 277

Ion Ratio Lower Upper

75 100

155 0.0 49.7 149.1#

157 0.0 63.8 191.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

