

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008493.D
 Acq On : 27 Mar 2019 19:21
 Operator : JC/SP
 Sample : K2103-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-2H-A

Quant Time: Mar 28 02:10:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35117	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	203203	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	175123	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	88842	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	11.13	95	86203	28.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.17%
63) Toluene-d8	8.71	98	256177	30.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.73%

Target Compounds

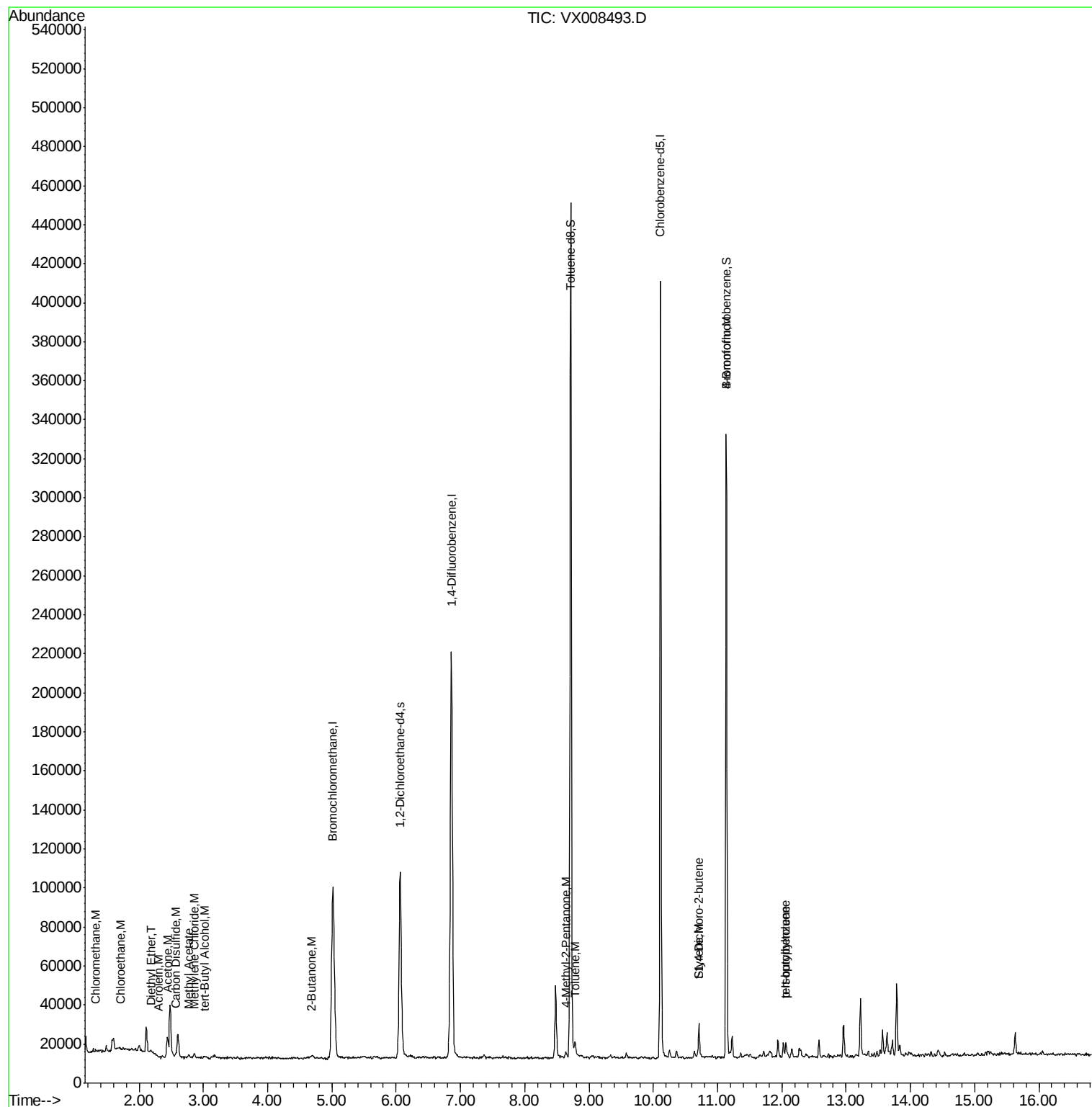
					Ovalue
3) Chloromethane	1.32	50	824	0.262 ug/l #	79
6) Chloroethane	1.72	64	585	0.282 ug/l #	59
8) Diethyl Ether	2.18	74	371	0.224 ug/l	93
12) Methyl Acetate	2.78	43	1495	0.829 ug/l	99
13) Acrolein	2.29	56	225	0.435 ug/l	90
15) Acetone	2.44	58	4067	7.914 ug/l	99
16) Carbon Disulfide	2.57	76	1703	0.246 ug/l	99
18) Methylene Chloride	2.85	84	1036	0.390 ug/l #	87
23) tert-Butyl Alcohol	3.03	59	593	0.881 ug/l #	92
30) 2-Butanone	4.68	43	585	0.233 ug/l #	76
56) Bromoform	11.13	173	854	0.467 ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	1508	0.326 ug/l #	83
62) Toluene	8.79	91	3278	0.309 ug/l	97
69) Styrene	10.71	104	6639	0.908 ug/l	94
77) t-1,4-Dichloro-2-butene	10.71	75	385	0.287 ug/l	61
79) tert-butylbenzene	12.06	119	3021	0.312 ug/l	92
82) p-Isopropyltoluene	12.06	119	3021	0.312 ug/l	92

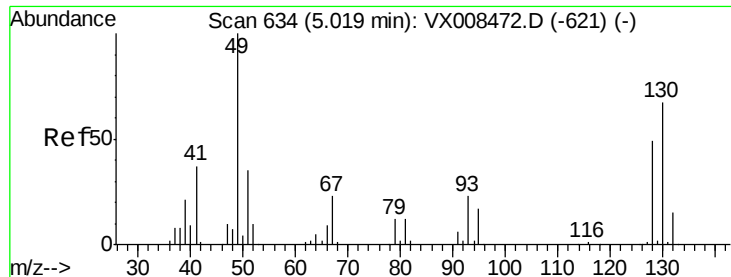
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Mar 27 12:01:15 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-2H-A

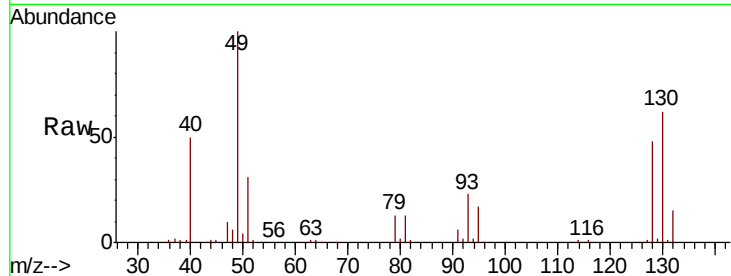
Tot Ion:128 Resp: 35117

Ion Ratio Lower Upper

128 100

49 203.2 0.0 350.8

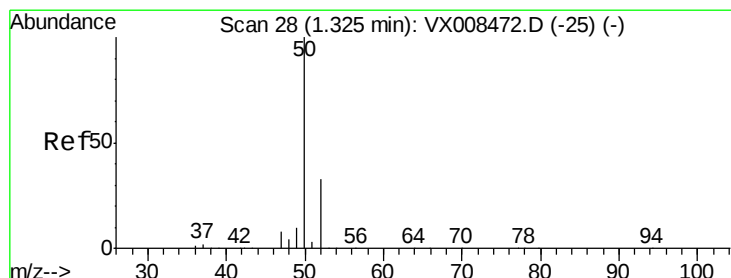
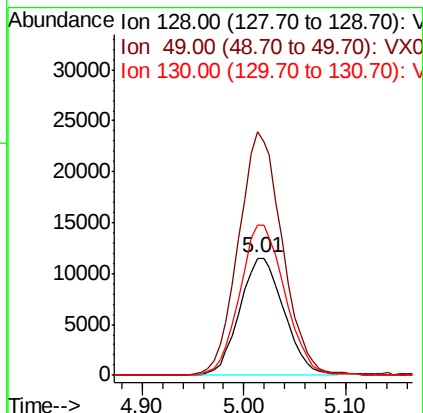
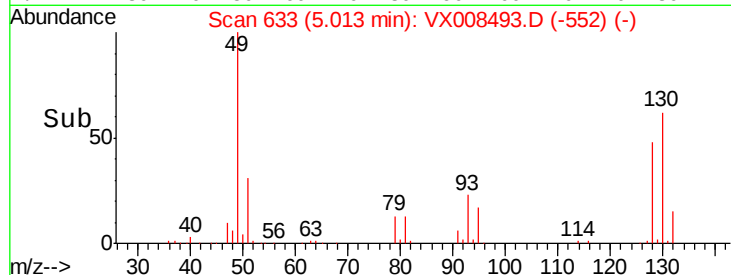
130 129.4 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008493.D

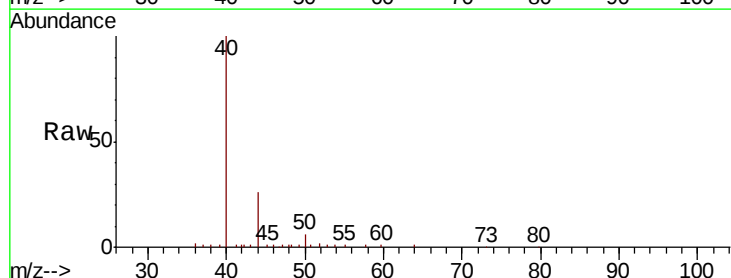
Acq: 27 Mar 2019 19:21

Tgt Ion: 50 Resp: 824

Ion Ratio Lower Upper

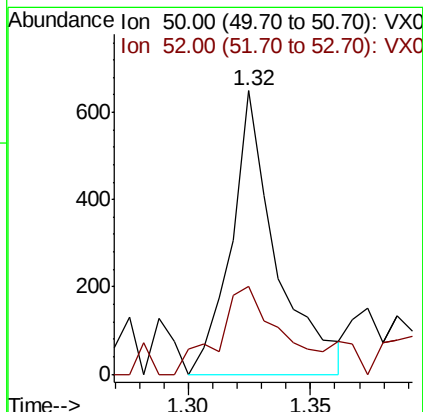
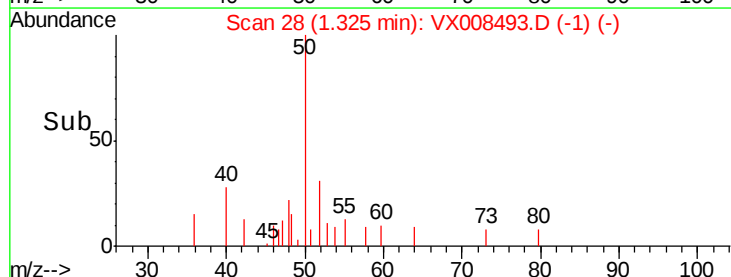
50 100

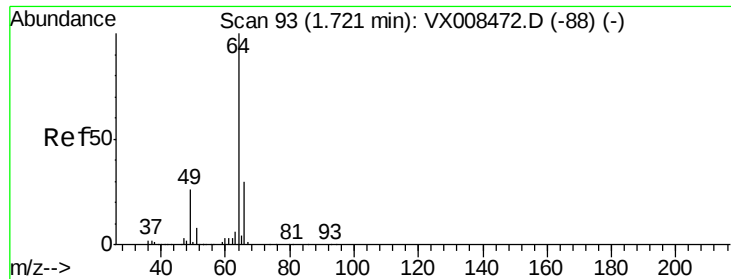
52 22.0 27.5 41.3#



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 0.282 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

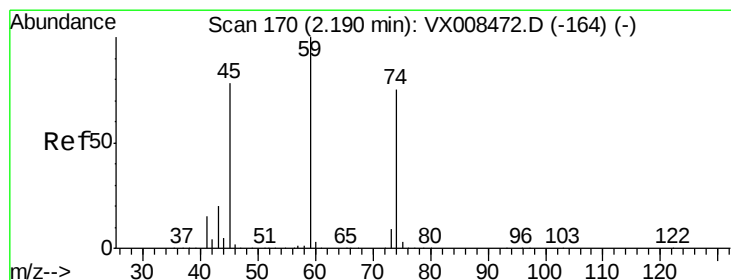
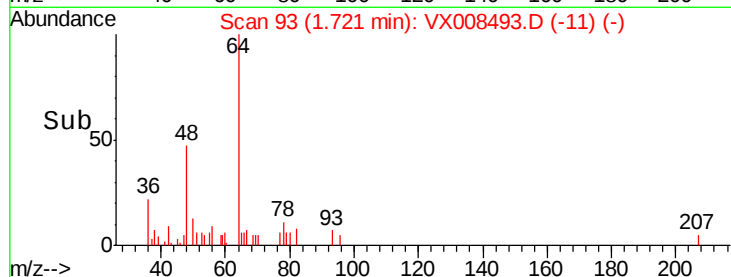
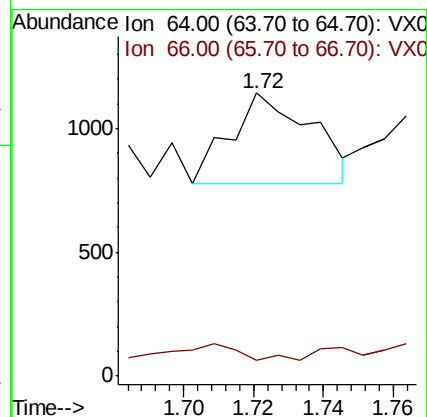
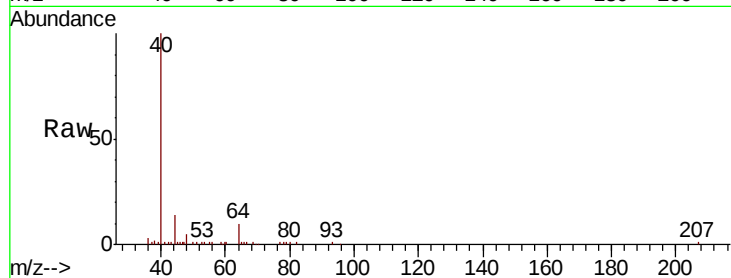
MH-C02-SETTLED-2H-A

Tot Ion: 64 Resp: 585

Ion Ratio Lower Upper

64 100

66 7.7 23.9 35.9#



#8

Diethyl Ether

Concen: 0.224 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX008493.D

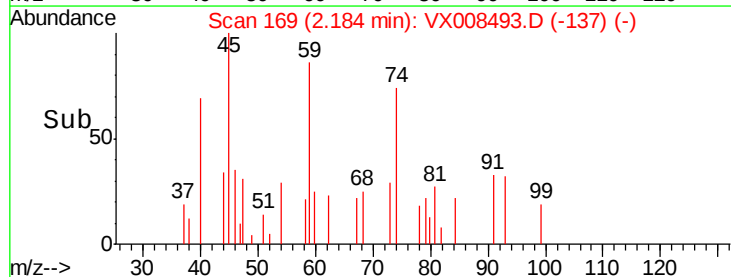
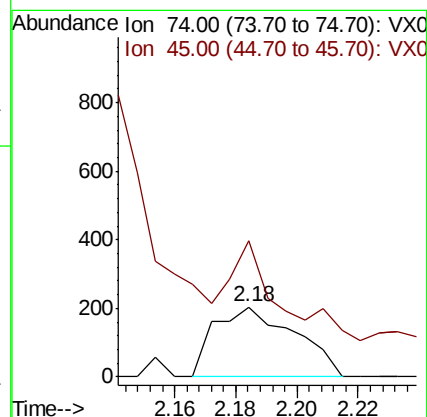
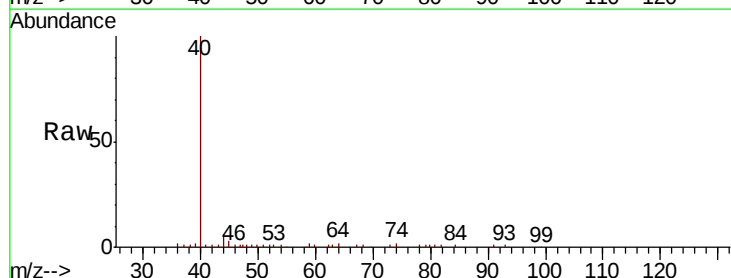
Acq: 27 Mar 2019 19:21

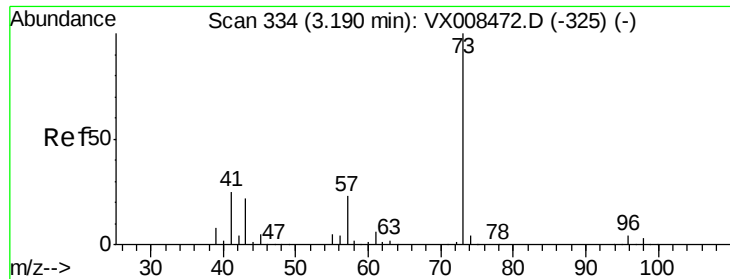
Tgt Ion: 74 Resp: 371

Ion Ratio Lower Upper

74 100

45 86.5 18.6 167.8

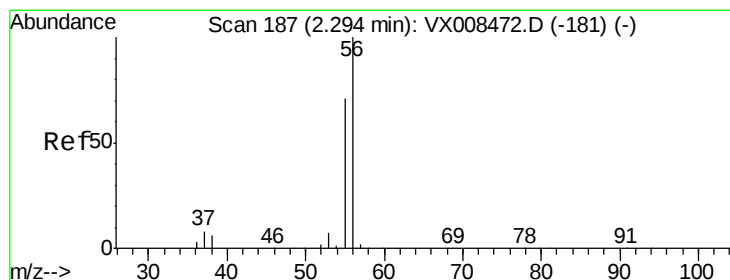
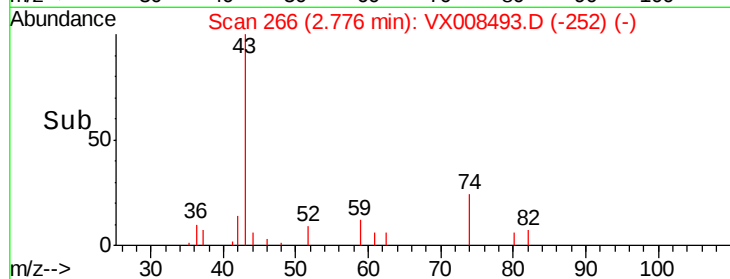
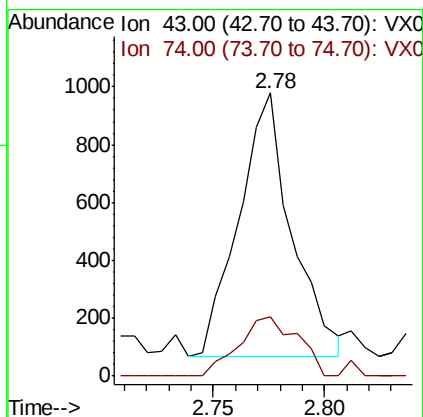
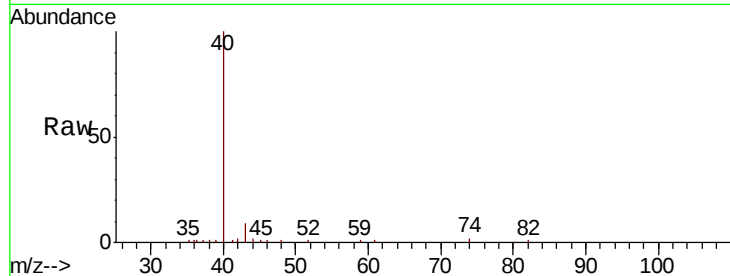




#12
Methyl Acetate
Concen: 0.829 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.41 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

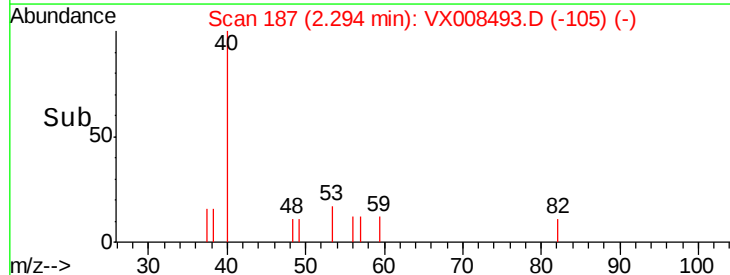
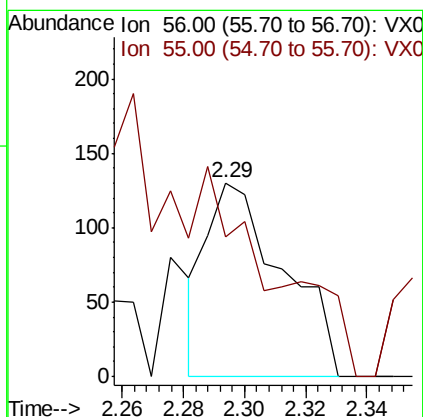
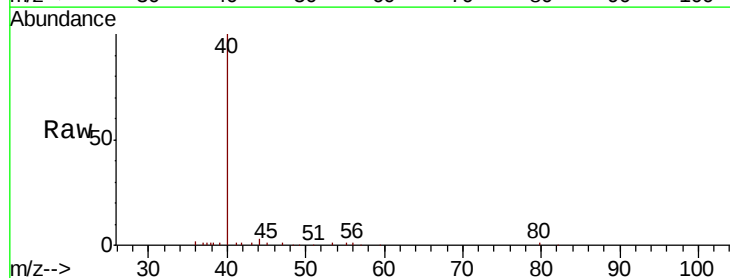
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-2H-A

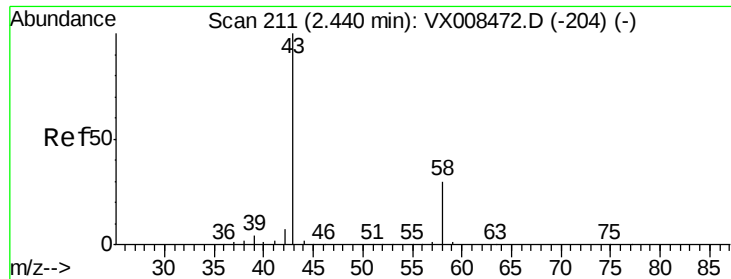
Tot Ion: 43 Resp: 1495
Ion Ratio Lower Upper
43 100
74 23.6 19.4 29.0



#13
Acrolein
Concen: 0.435 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

Tgt Ion: 56 Resp: 225
Ion Ratio Lower Upper
56 100
55 64.4 58.6 87.8





#15

Acetone

Concen: 7.914 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

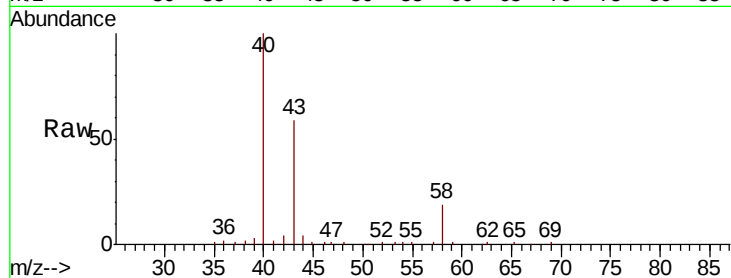
MH-C02-SETTLED-2H-A

Tot Ion: 58 Resp: 4067

Ion Ratio Lower Upper

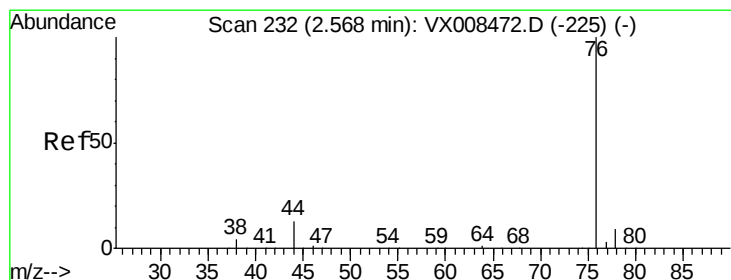
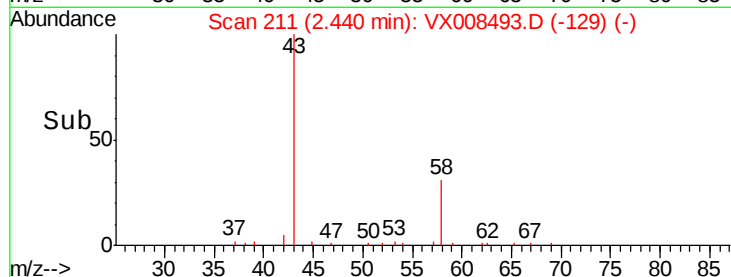
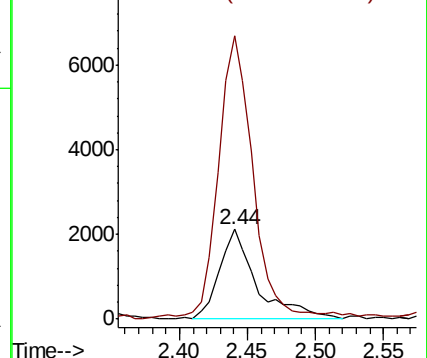
58 100

43 309.7 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.246 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008493.D

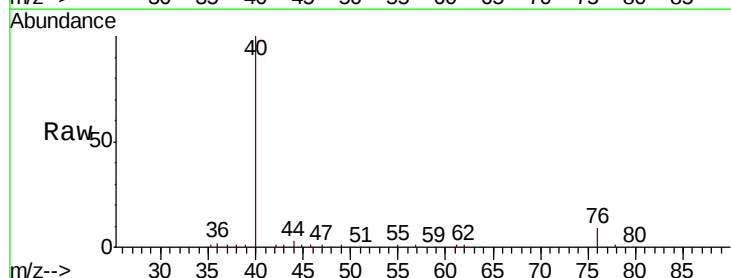
Acq: 27 Mar 2019 19:21

Tgt Ion: 76 Resp: 1703

Ion Ratio Lower Upper

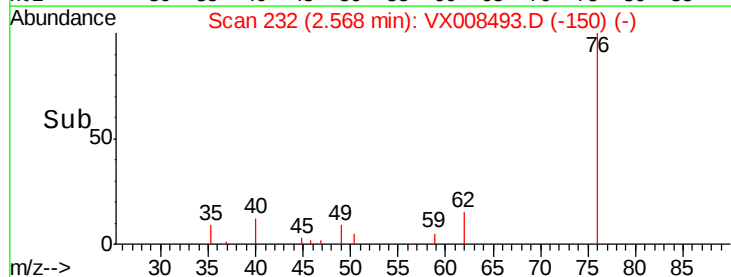
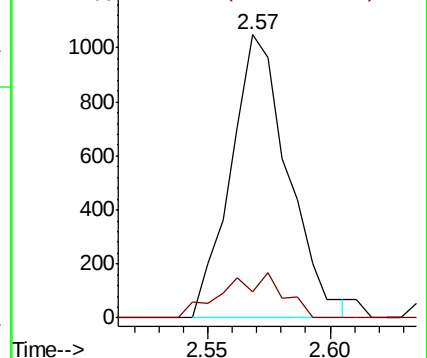
76 100

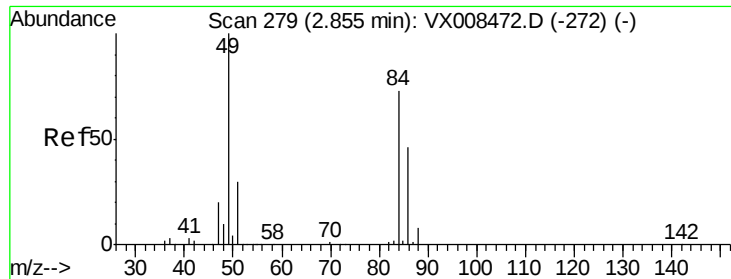
78 9.2 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

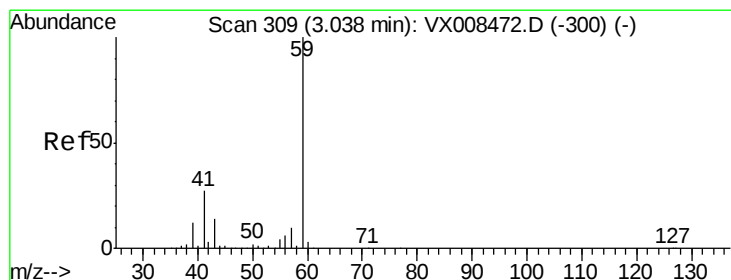
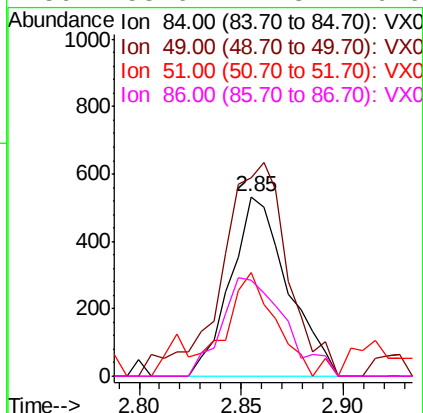
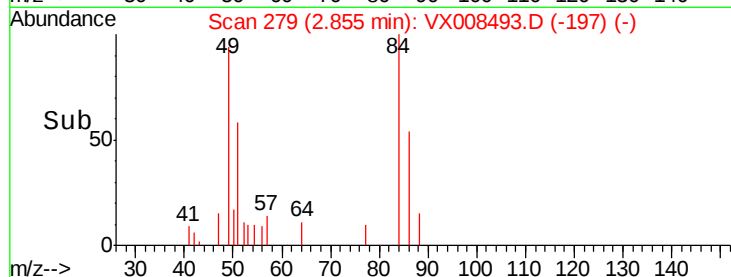
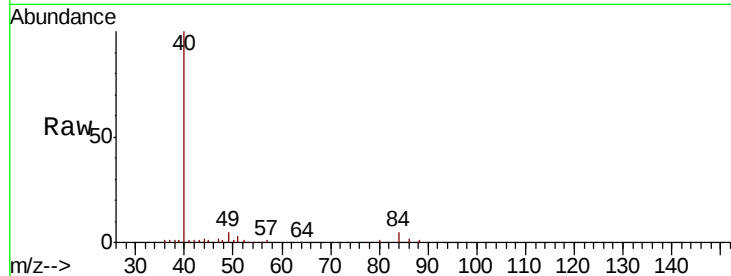




#18
Methylene Chloride
Concen: 0.390 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

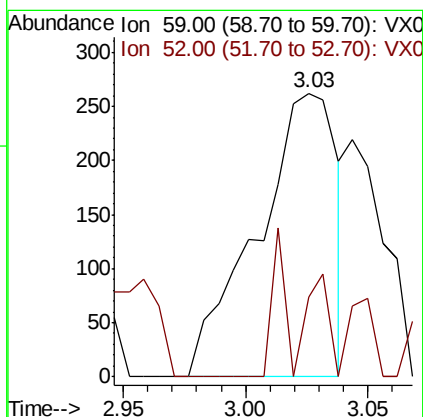
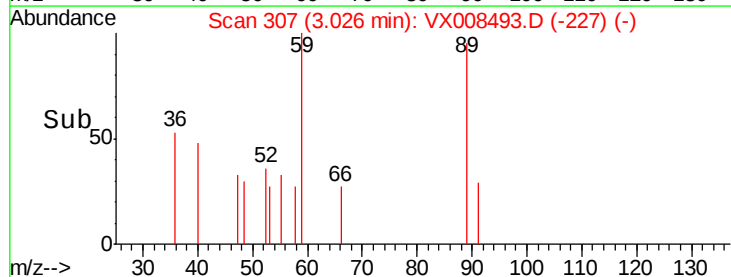
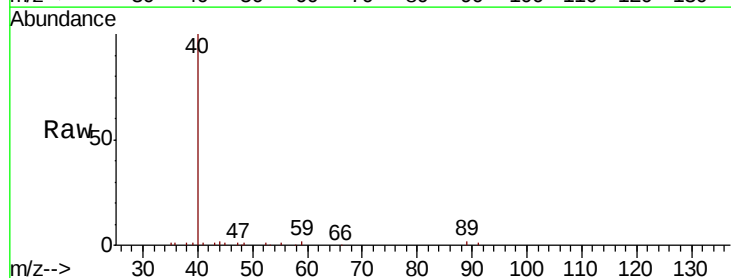
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-2H-A

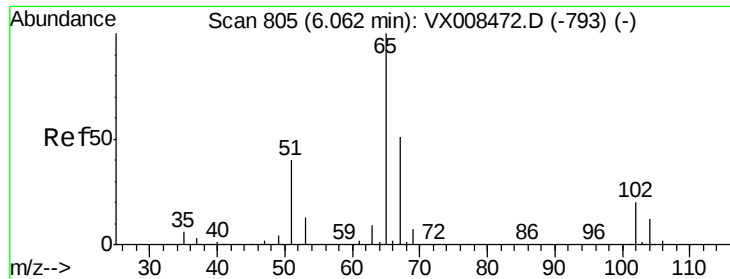
Tot Ion: 84 Resp: 1036
Ion Ratio Lower Upper
84 100
49 110.7 96.1 144.1
51 57.9 29.1 43.7#
86 53.6 47.3 70.9



#23
tert-Butyl Alcohol
Concen: 0.881 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

Tgt Ion: 59 Resp: 593
Ion Ratio Lower Upper
59 100
52 10.5 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 30.242 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

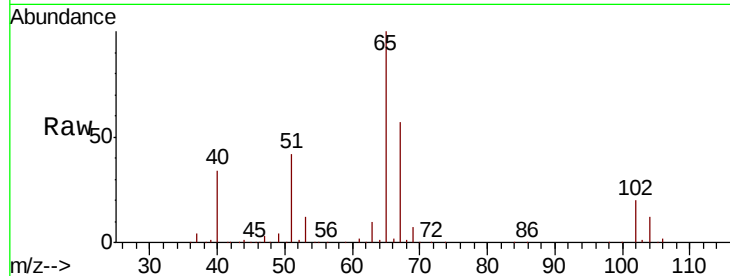
MH-C02-SETTLED-2H-A

Tot Ion: 65 Resp: 88842

Ion Ratio Lower Upper

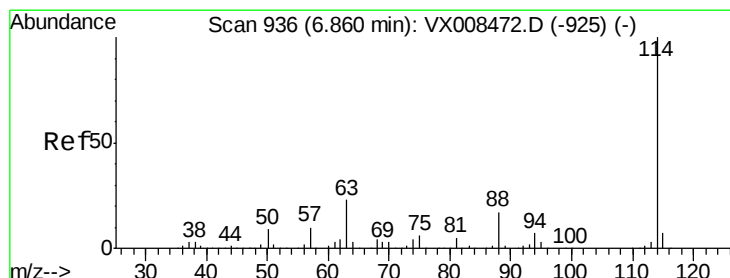
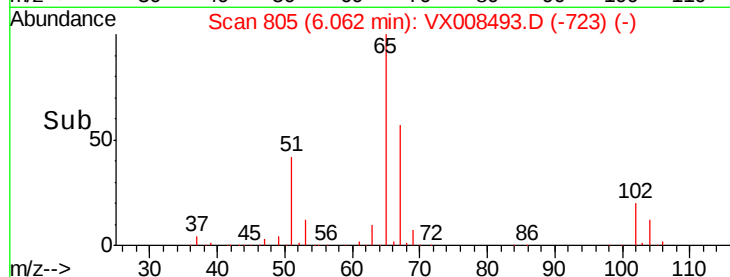
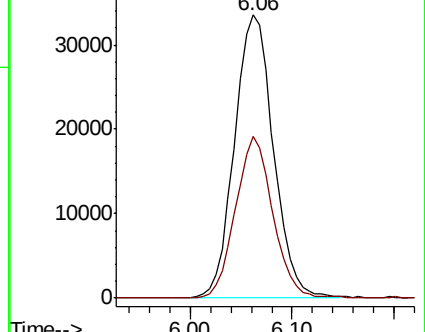
65 100

67 54.4 42.9 64.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

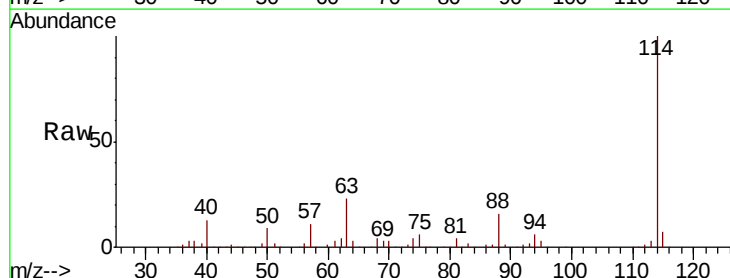
Tgt Ion: 114 Resp: 203203

Ion Ratio Lower Upper

114 100

63 23.8 14.2 21.4#

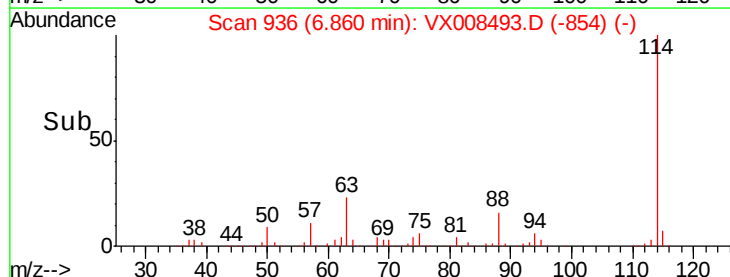
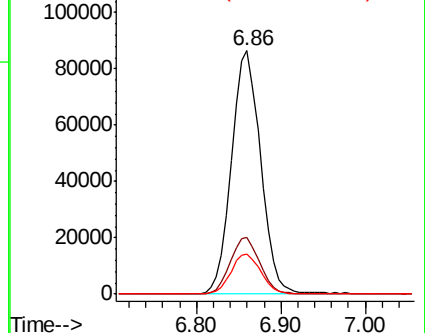
88 16.8 11.9 17.9

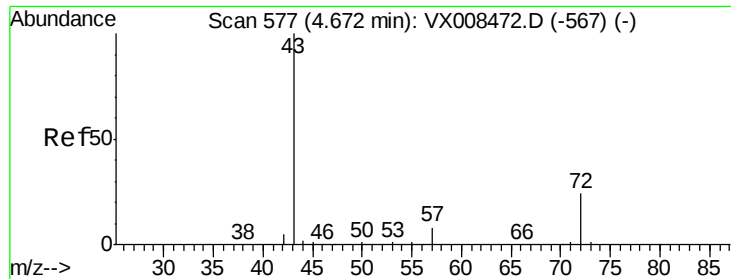


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

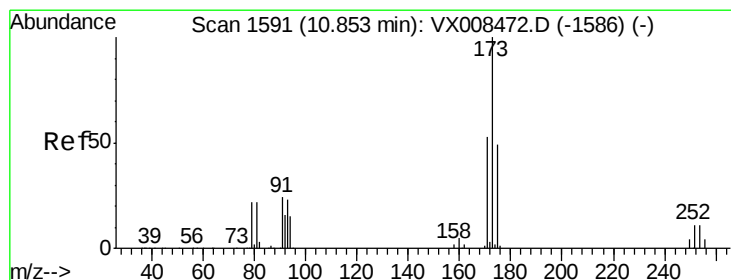
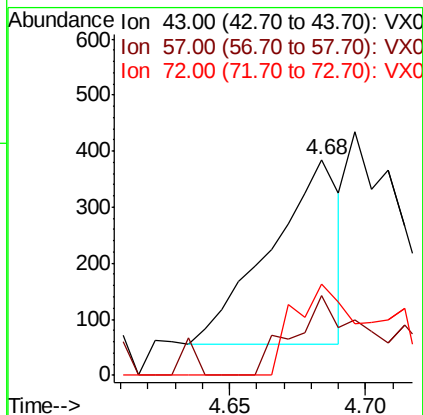
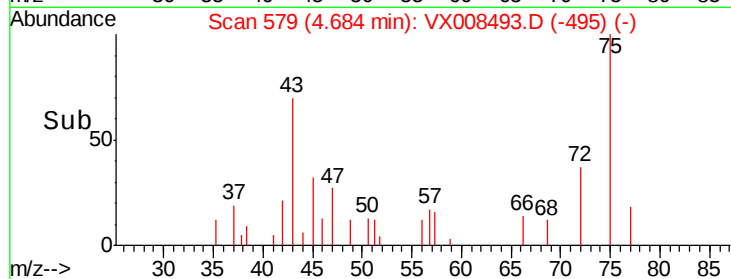
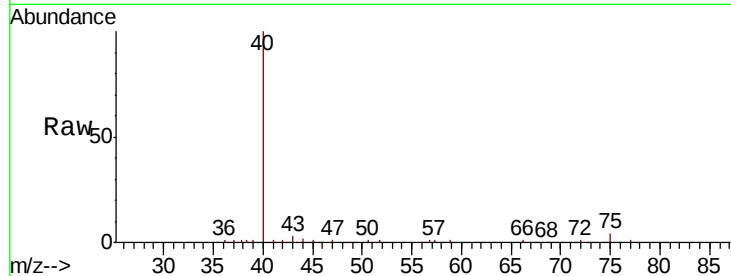




#30
2-Butanone
Concen: 0.233 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

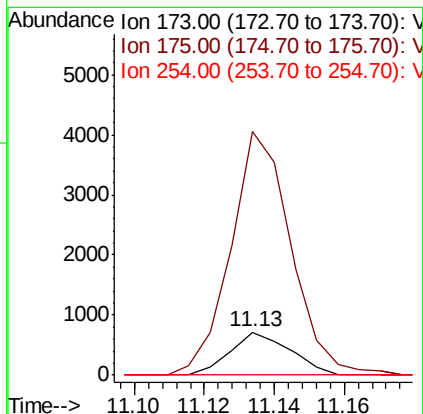
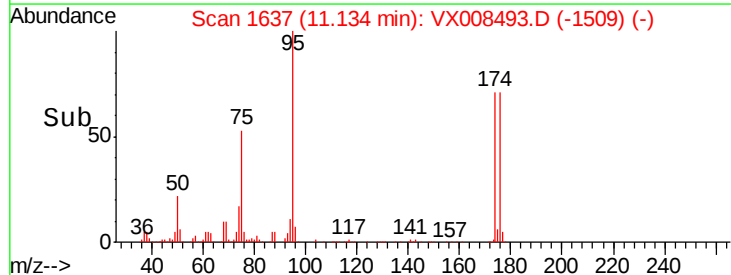
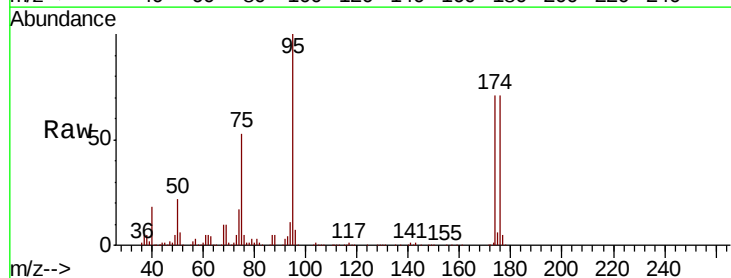
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MH-C02-SETTLED-2H-A

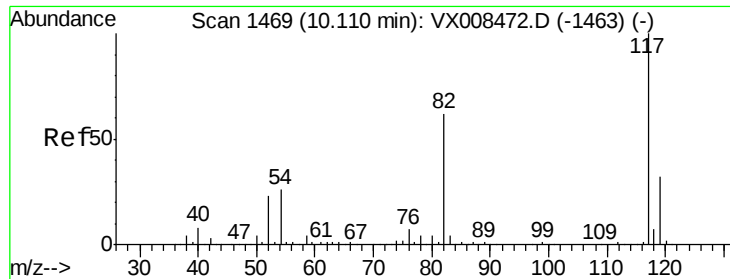
Tot Ion: 43 Resp: 585
Ion Ratio Lower Upper
43 100
57 19.0 7.0 10.6#
72 38.6 21.5 32.3#



#56
Bromoform
Concen: 0.467 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.28 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

Tgt Ion:173 Resp: 854
Ion Ratio Lower Upper
173 100
175 569.9 38.5 57.7#
254 0.0 7.4 11.2#

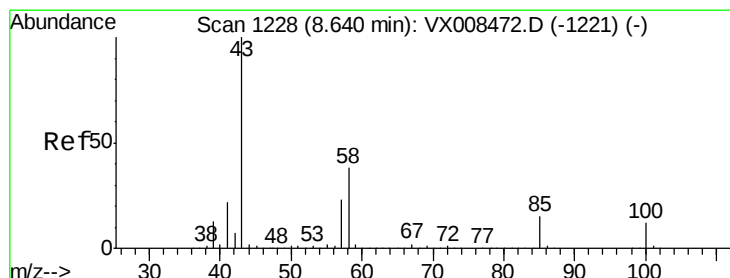
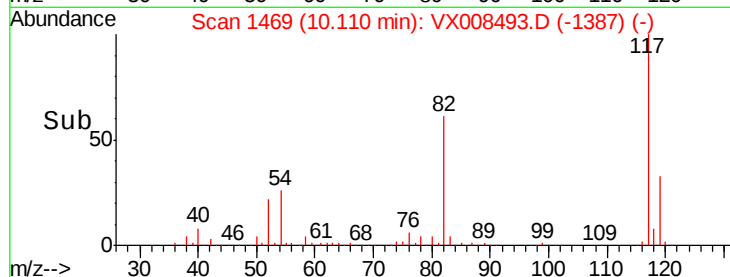
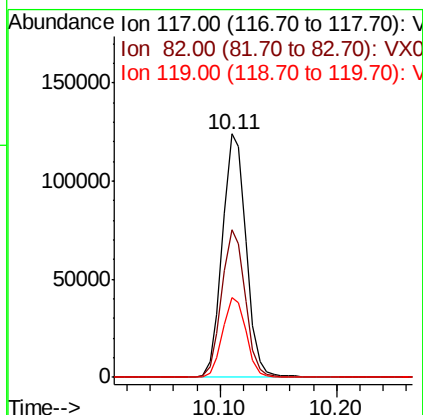
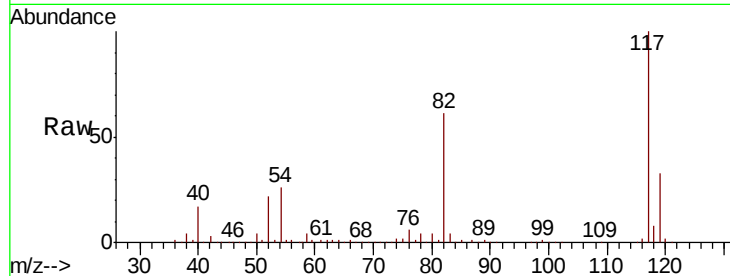




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

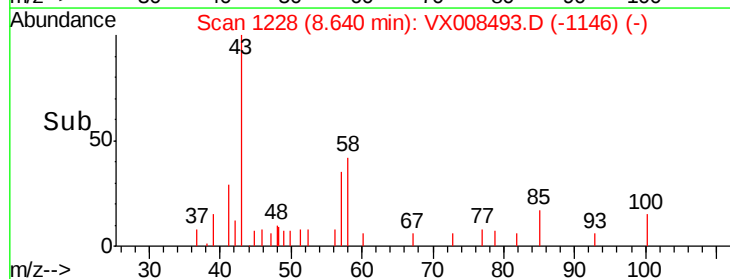
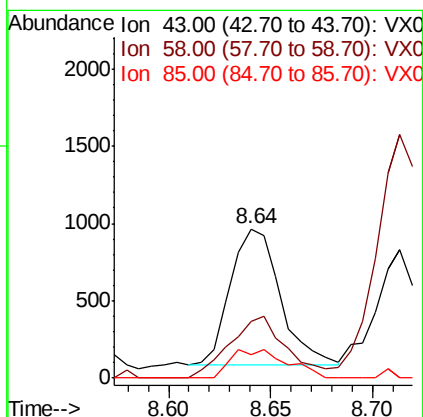
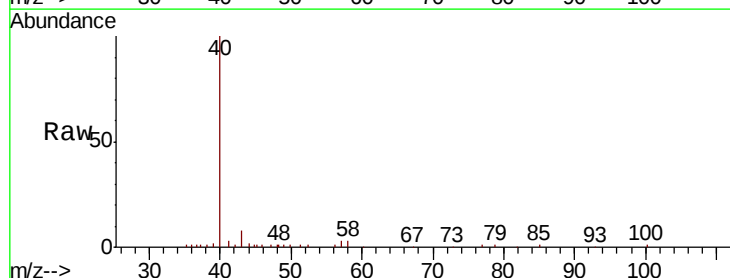
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-2H-A

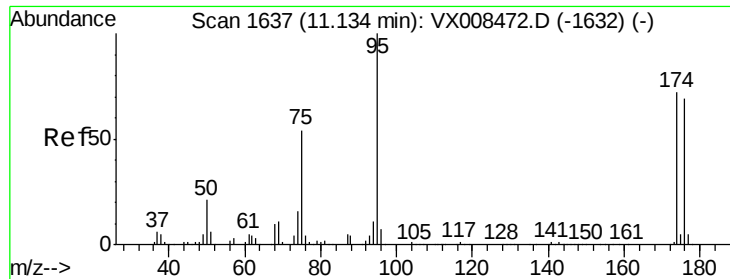
Tot Ion:117 Resp: 175123
Ion Ratio Lower Upper
117 100
82 59.9 40.4 60.6
119 32.3 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.326 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX008493.D
Acq: 27 Mar 2019 19:21

Tgt Ion: 43 Resp: 1508
Ion Ratio Lower Upper
43 100
58 51.3 31.4 47.0#
85 23.7 15.0 22.6#





#60

4-Bromofluorobenzene

Concen: 28.252 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-2H-A

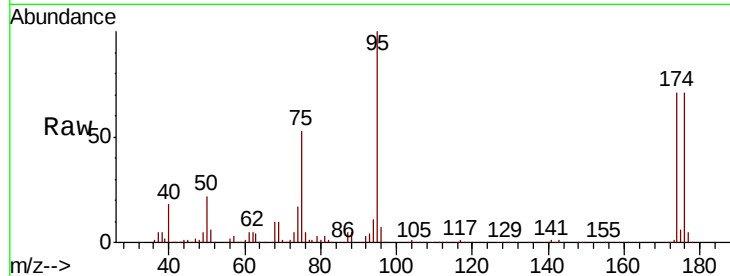
Tot Ion: 95 Resp: 86203

Ion Ratio Lower Upper

95 100

174 74.6 74.9 112.3#

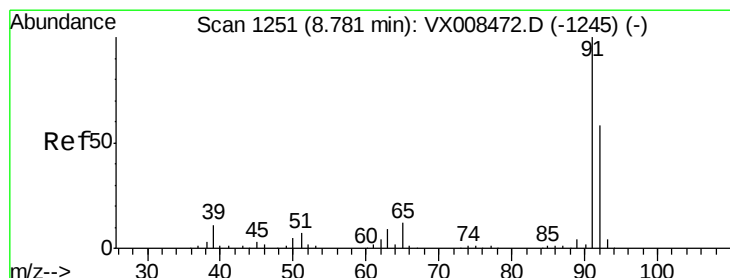
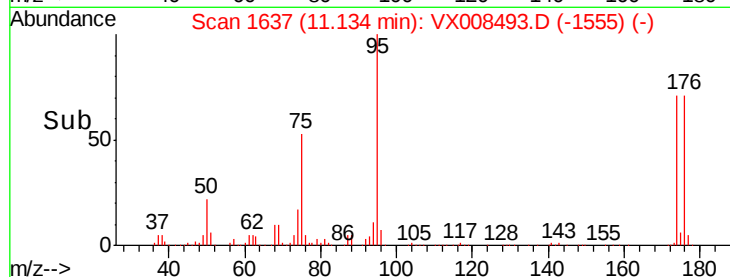
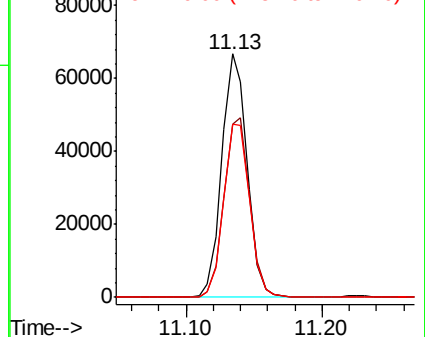
176 73.0 70.7 106.1



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#62

Toluene

Concen: 0.309 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008493.D

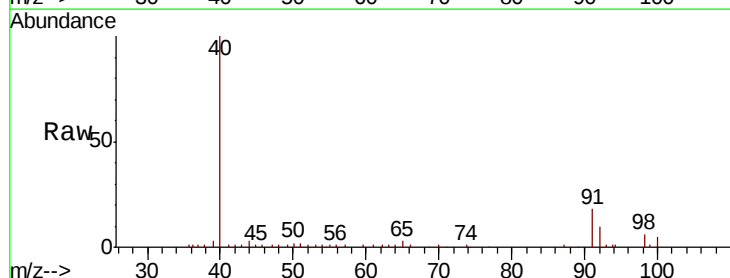
Acq: 27 Mar 2019 19:21

Tgt Ion: 91 Resp: 3278

Ion Ratio Lower Upper

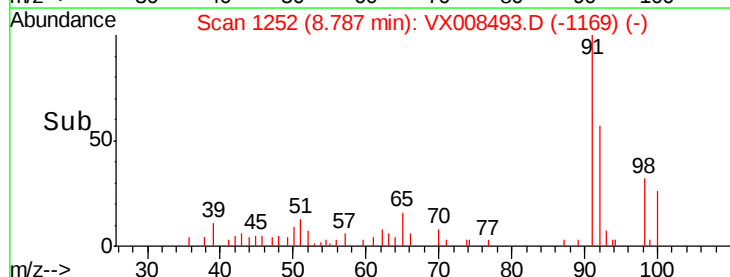
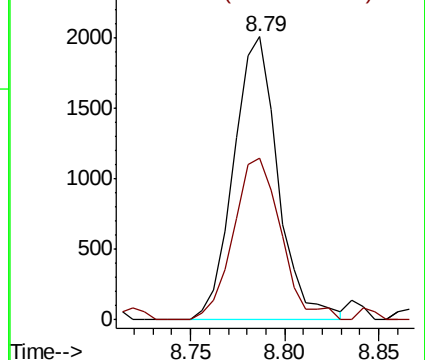
91 100

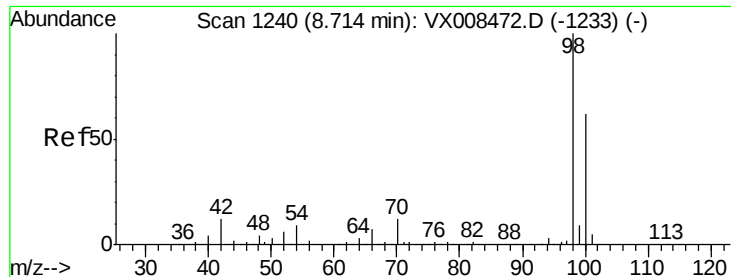
92 60.5 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.818 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

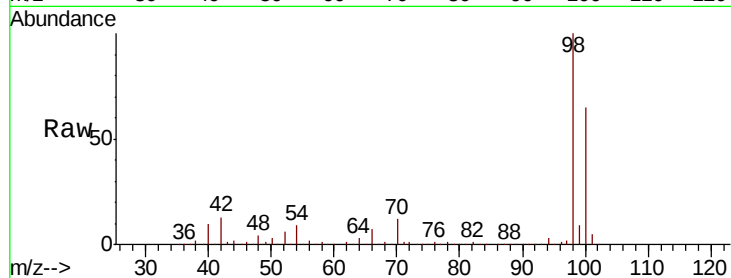
MH-C02-SETTLED-2H-A

Tot Ion: 98 Resp: 256177

Ion Ratio Lower Upper

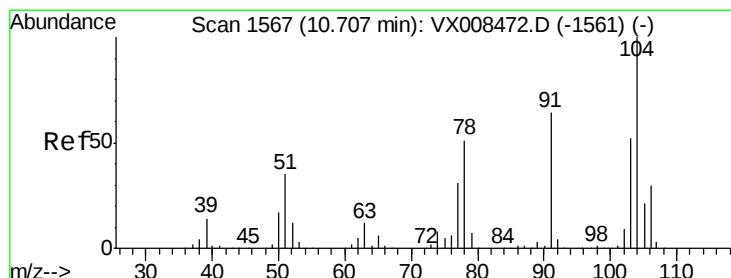
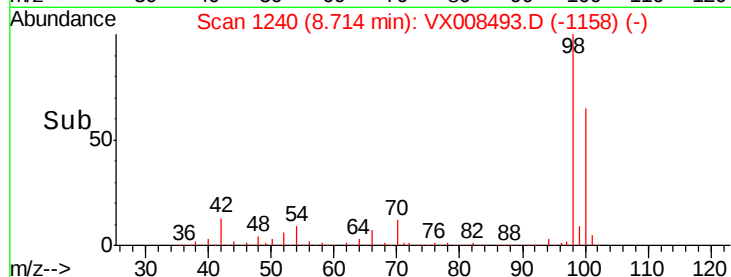
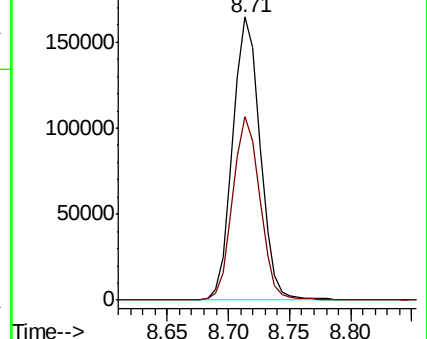
98 100

100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#69

Styrene

Concen: 0.908 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

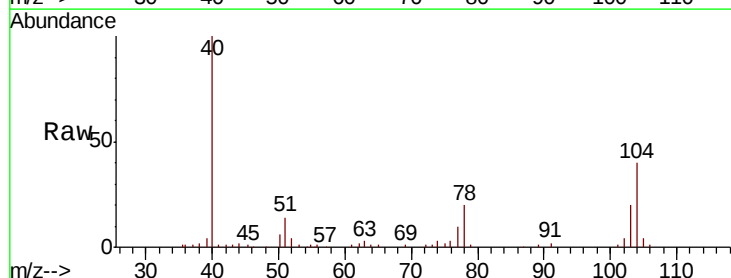
Tgt Ion: 104 Resp: 6639

Ion Ratio Lower Upper

104 100

78 49.0 38.2 57.2

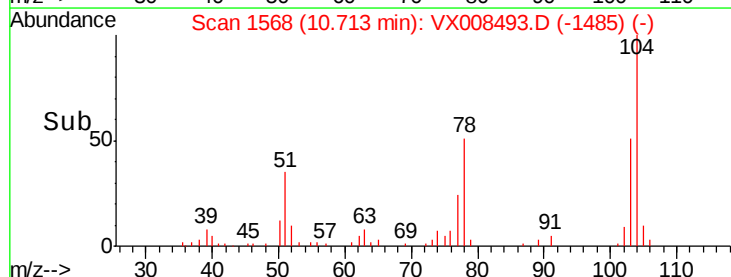
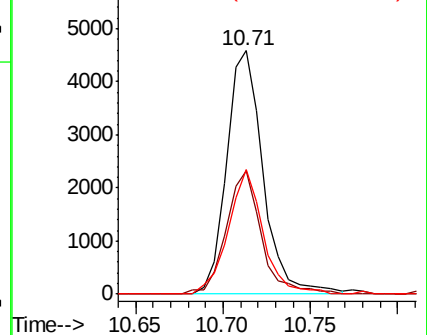
103 48.8 45.0 67.4

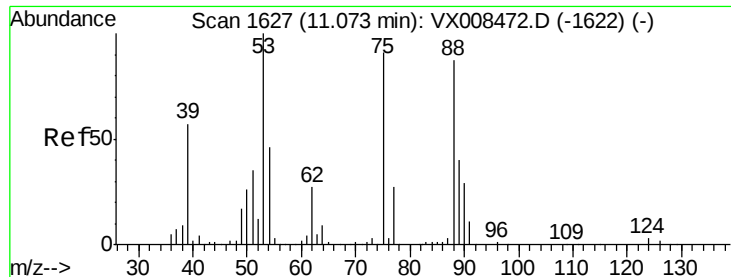


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V





#77

t-1,4-Dichloro-2-butene

Concen: 0.287 ug/l

RT: 10.71 min Scan# 1567

Delta R.T. -0.37 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-2H-A

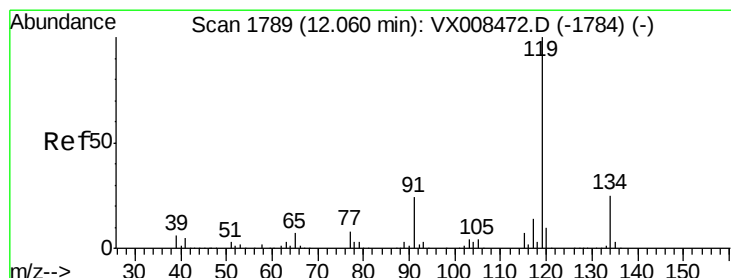
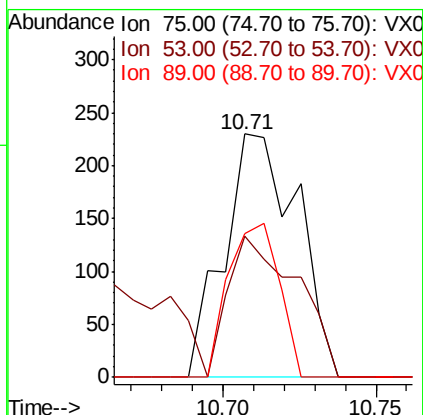
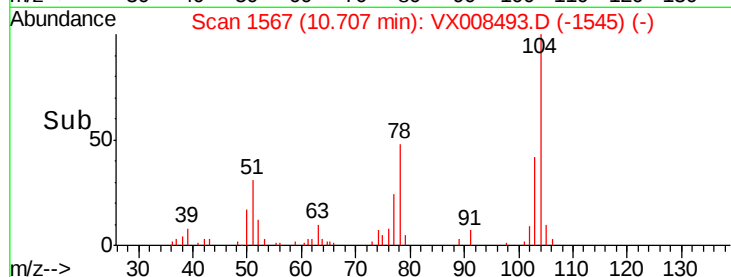
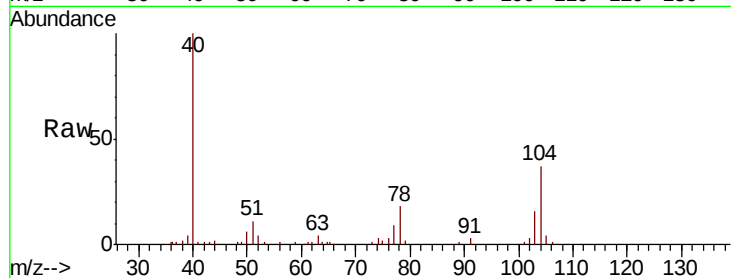
Tot Ion: 75 Resp: 385

Ion Ratio Lower Upper

75 100

53 57.8 55.5 166.7

89 59.1 24.4 73.2



#79

tert-butylbenzene

Concen: 0.312 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX008493.D

Acq: 27 Mar 2019 19:21

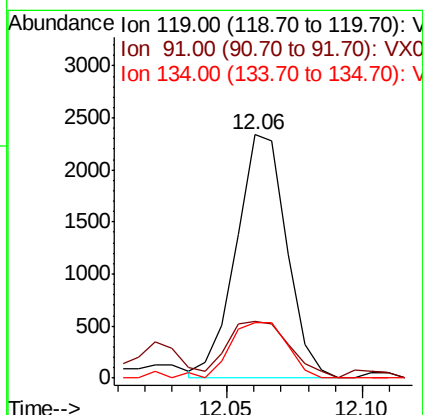
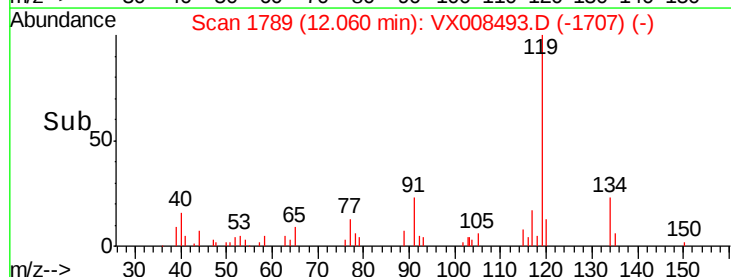
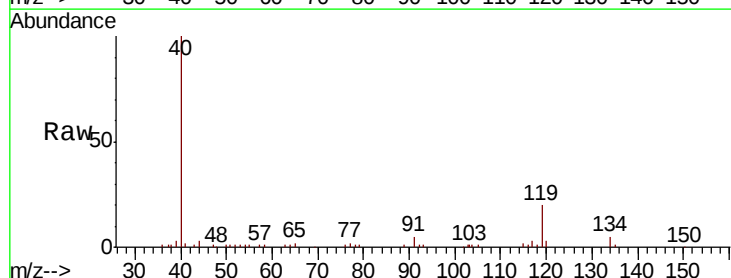
Tgt Ion: 119 Resp: 3021

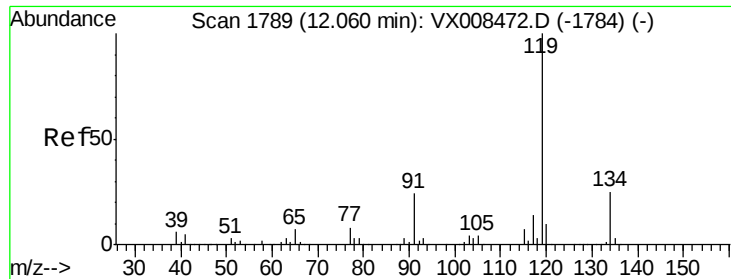
Ion Ratio Lower Upper

119 100

91 28.3 0.0 45.0

134 25.4 0.0 55.4





#82
 p-Isopropyltoluene
 Concen: 0.312 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX008493.D
 Acq: 27 Mar 2019 19:21

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-2H-A

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	0.0	55.4
91	28.3	0.0	45.0

