

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008499.D
 Acq On : 27 Mar 2019 21:40
 Operator : JC/SP
 Sample : K2103-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C02-SETTLED-3H-A

Quant Time: Mar 28 02:11:42 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	5.02	128	35702	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	205603	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	177196	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	91333	30.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.93%
60) 4-Bromofluorobenzene	11.13	95	87453	28.33	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.43%
63) Toluene-d8	8.71	98	259798	30.89	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.97%

Target Compounds

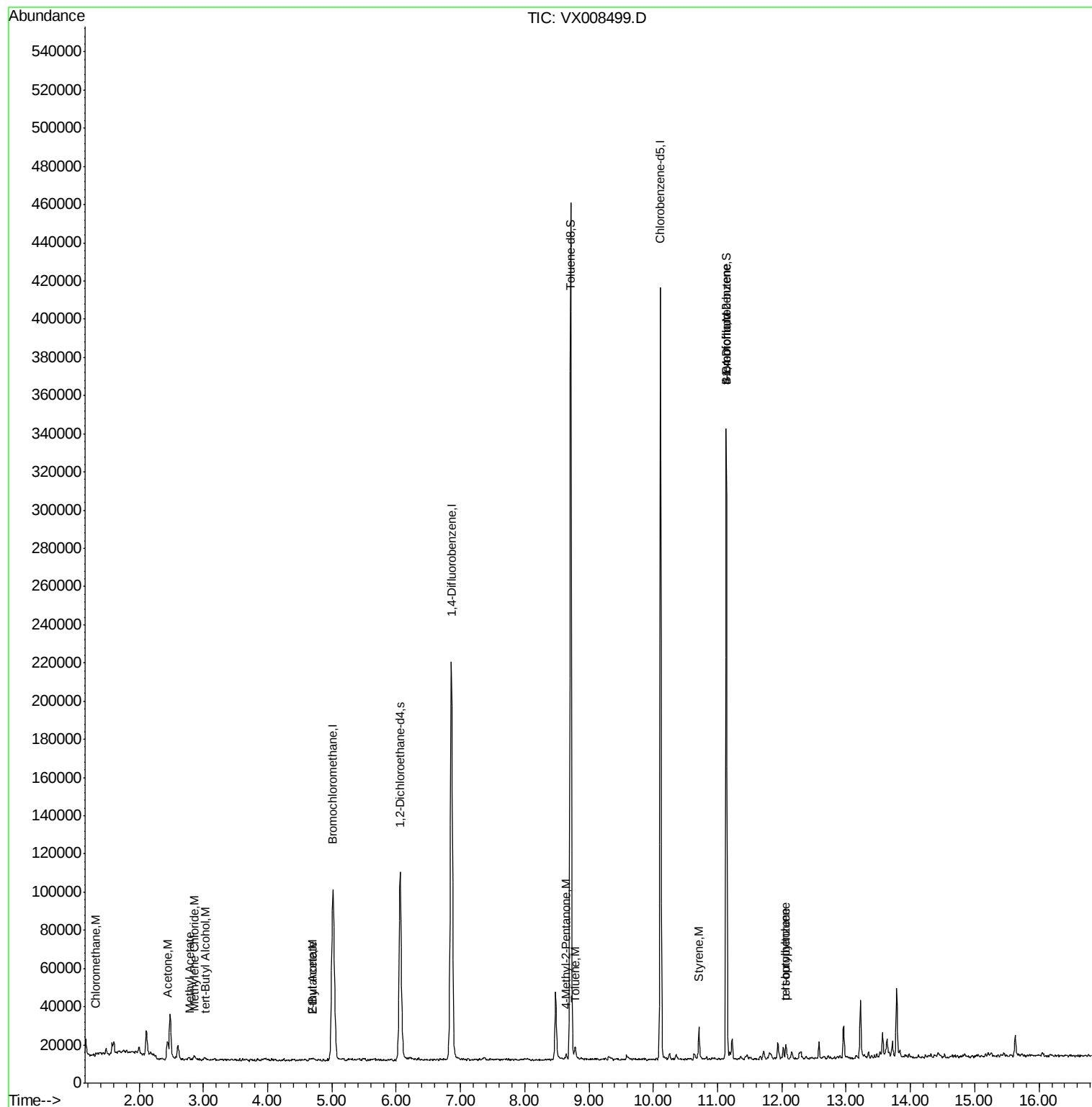
					Ovalue	
3) Chloromethane	1.32	50	711	0.222	ug/l	92
12) Methyl Acetate	2.78	43	1694	0.924	ug/l	99
15) Acetone	2.44	58	3159	6.047	ug/l	98
18) Methylene Chloride	2.85	84	962	0.356	ug/l #	85
23) tert-Butyl Alcohol	3.03	59	553	0.808	ug/l #	97
30) 2-Butanone	4.70	43	960	0.377	ug/l #	86
43) Ethyl Acetate	4.70	43	971	0.212	ug/l	100
56) Bromoform	11.13	173	835	0.451	ug/l #	1
58) 4-Methyl-2-Pentanone	8.65	43	1531	0.328	ug/l	96
62) Toluene	8.79	91	3005	0.280	ug/l	98
69) Styrene	10.71	104	5980	0.809	ug/l	94
77) t-1,4-Dichloro-2-butene	11.13	75	45555	33.546	ug/l #	6
79) tert-butylbenzene	12.07	119	2810	0.287	ug/l	95
82) p-Isopropyltoluene	12.07	119	2810	0.287	ug/l	95

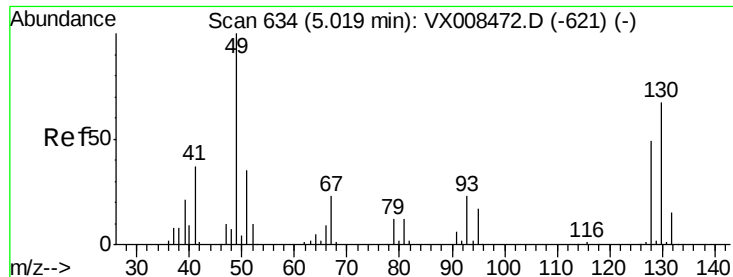
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032719\
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Quant Time: Mar 28 02:11:42 2019
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: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008499.D

Acq: 27 Mar 2019 21:40

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-3H-A

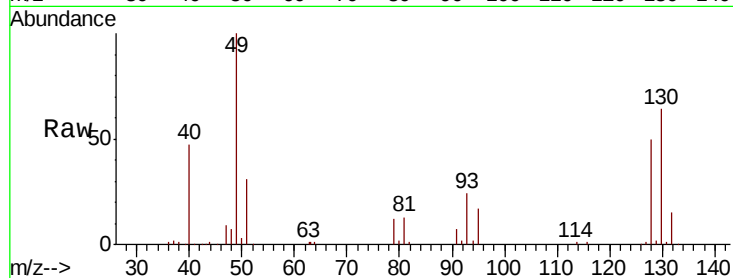
Tot Ion:128 Resp: 35702

Ion Ratio Lower Upper

128 100

49 206.6 0.0 350.8

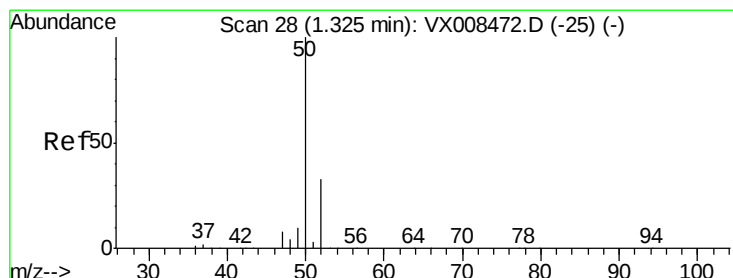
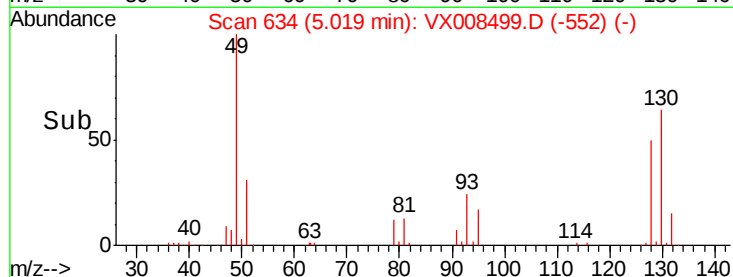
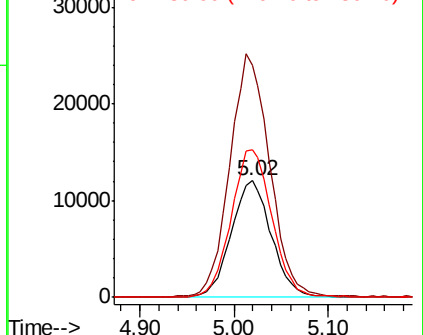
130 128.8 0.0 325.8



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: 0.222 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX008499.D

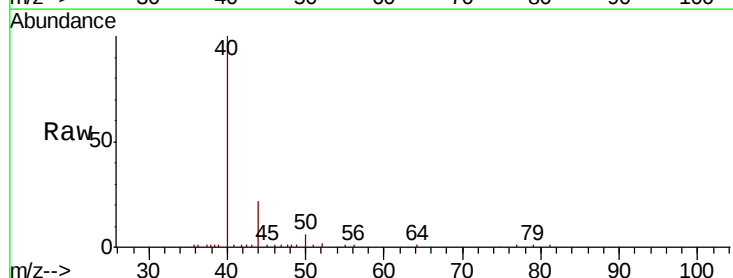
Acq: 27 Mar 2019 21:40

Tgt Ion: 50 Resp: 711

Ion Ratio Lower Upper

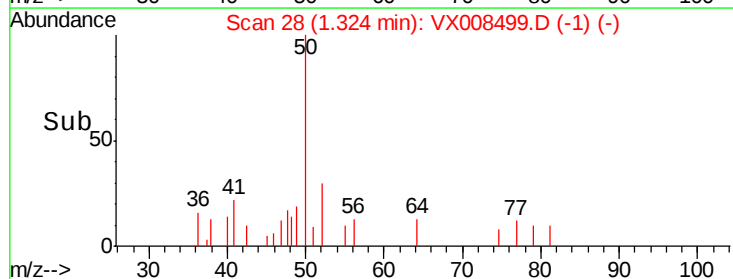
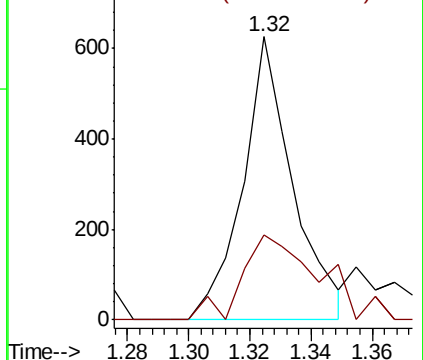
50 100

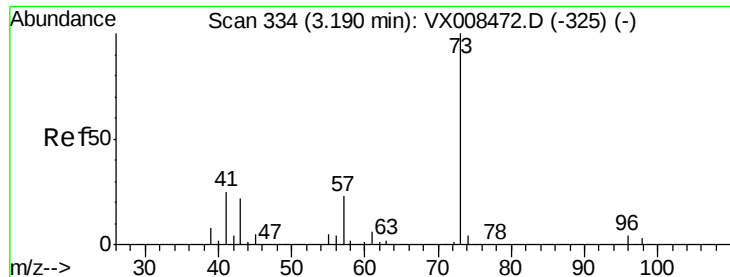
52 29.9 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

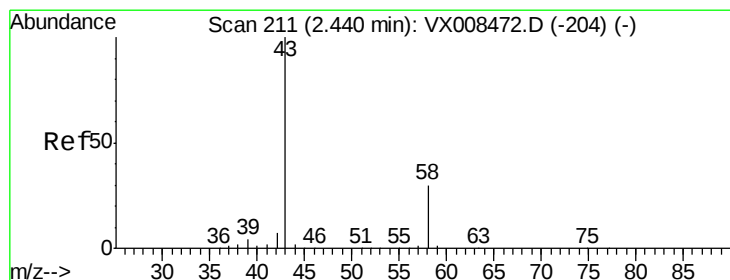
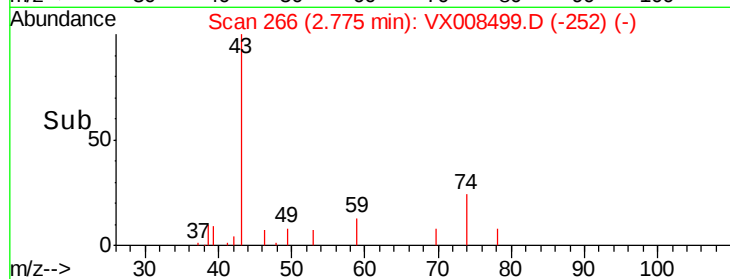
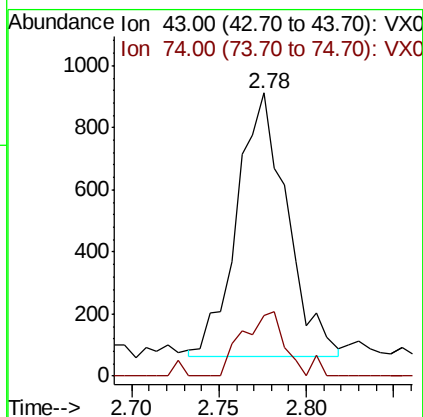
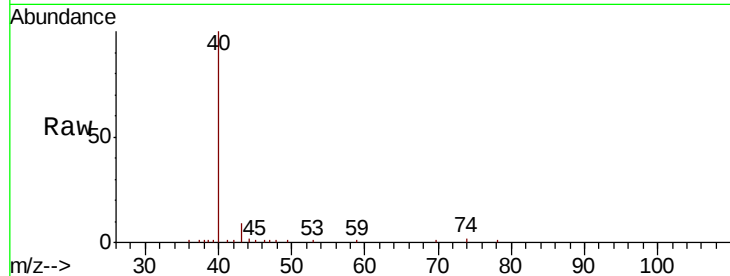




#12
Methvl Acetate
Concen: 0.924 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.41 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

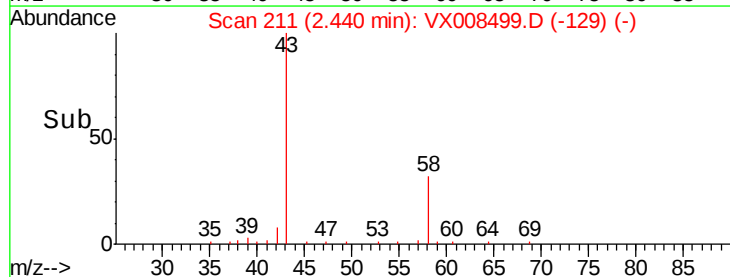
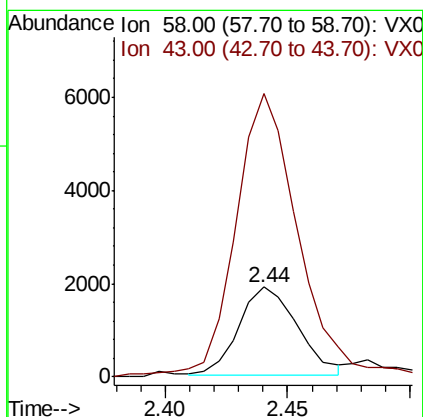
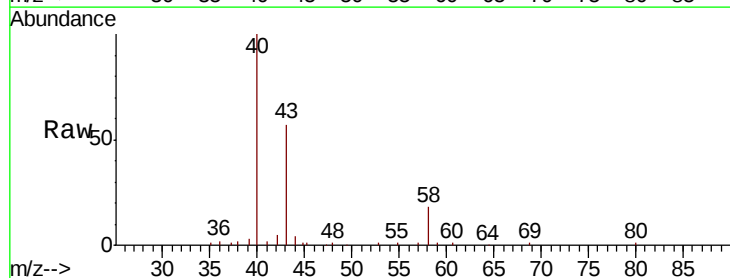
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-A

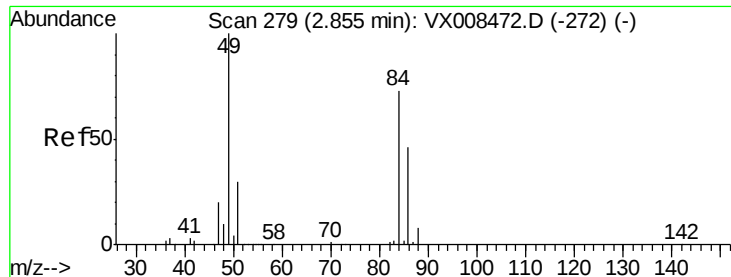
Tot Ion: 43 Resp: 1694
Ion Ratio Lower Upper
43 100
74 23.9 19.4 29.0



#15
Acetone
Concen: 6.047 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.00 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Tgt Ion: 58 Resp: 3159
Ion Ratio Lower Upper
58 100
43 315.8 249.8 374.6

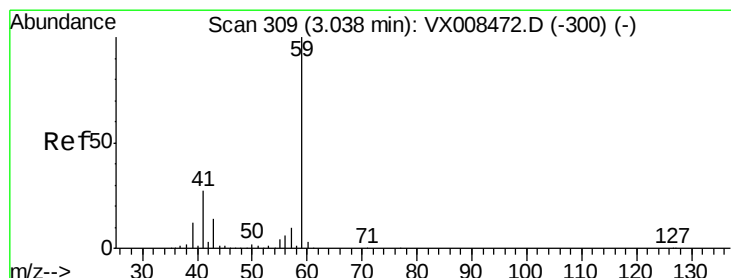
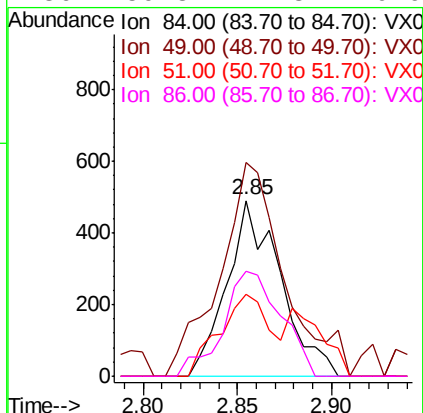
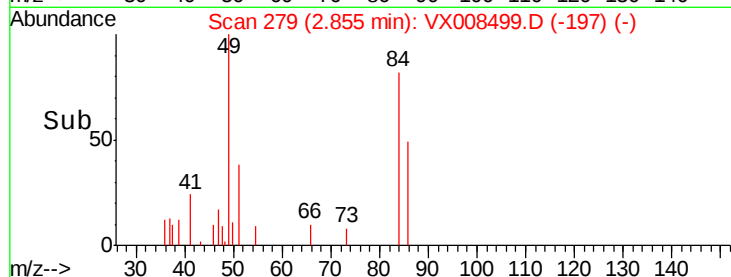
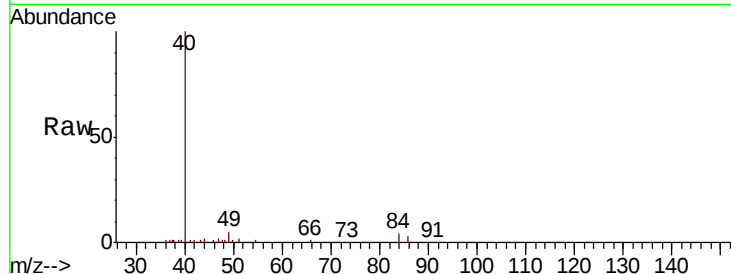




#18
Methvlene Chloride
Concen: 0.356 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

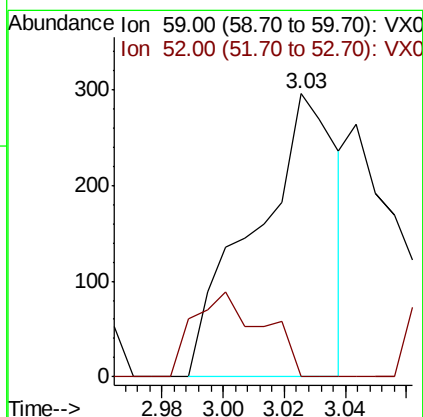
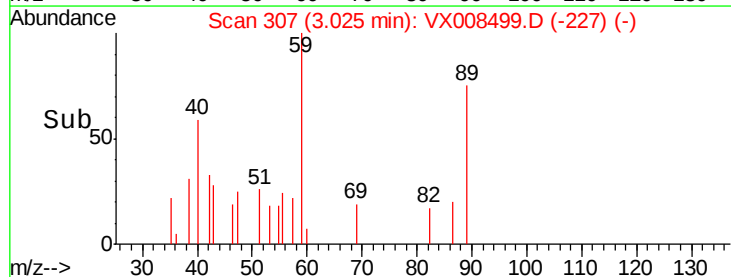
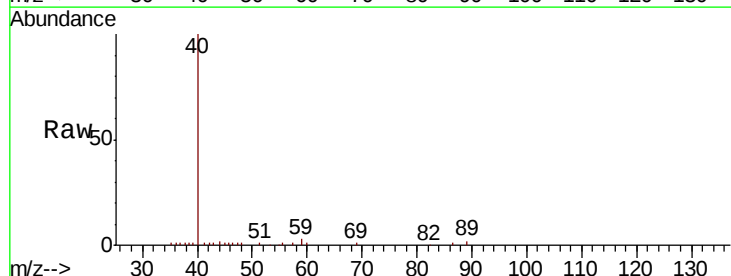
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-A

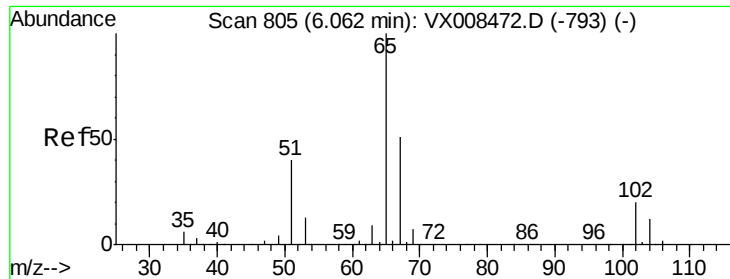
Tot Ion: 84 Resp: 962
Ion Ratio Lower Upper
84 100
49 95.5 96.1 144.1#
51 46.5 29.1 43.7#
86 59.8 47.3 70.9



#23
tert-Butyl Alcohol
Concen: 0.808 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Tgt Ion: 59 Resp: 553
Ion Ratio Lower Upper
59 100
52 3.8 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 30.581 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008499.D

Acq: 27 Mar 2019 21:40

Instrument :

MSVOA_X

ClientSampleId :

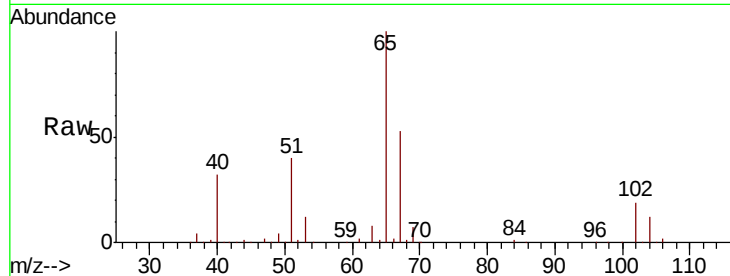
MH-C02-SETTLED-3H-A

Tot Ion: 65 Resp: 91333

Ion Ratio Lower Upper

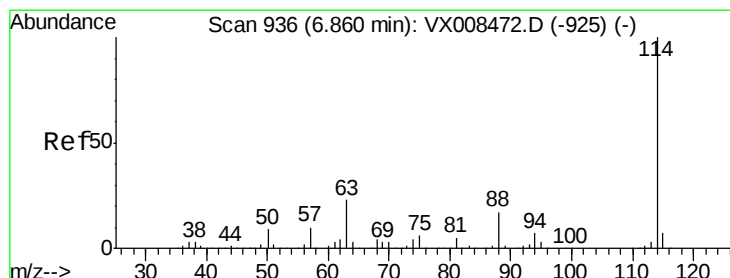
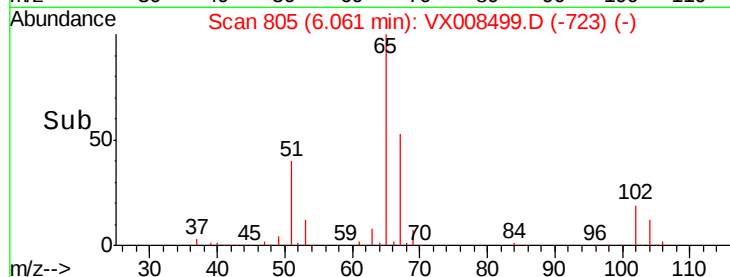
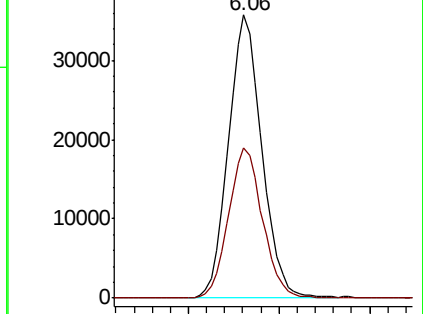
65 100

67 54.0 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: VX008499.D

Acq: 27 Mar 2019 21:40

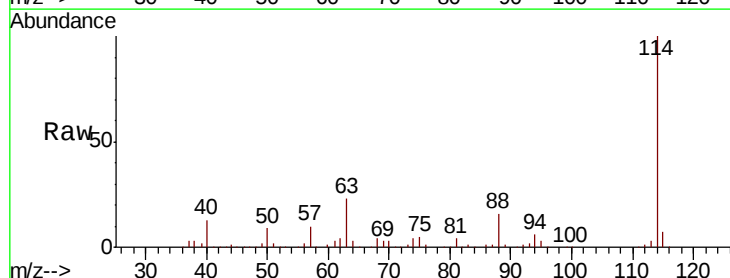
Tgt Ion: 114 Resp: 205603

Ion Ratio Lower Upper

114 100

63 23.9 14.2 21.4#

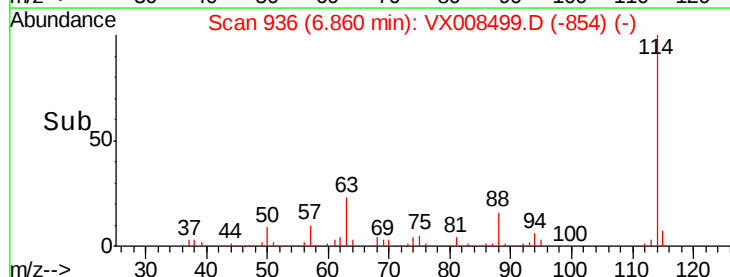
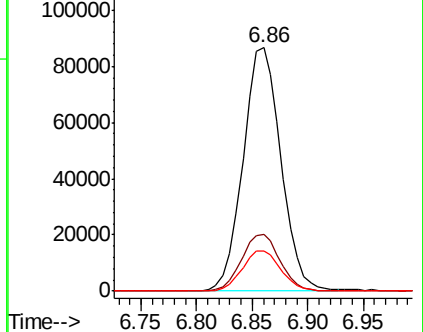
88 16.9 11.9 17.9

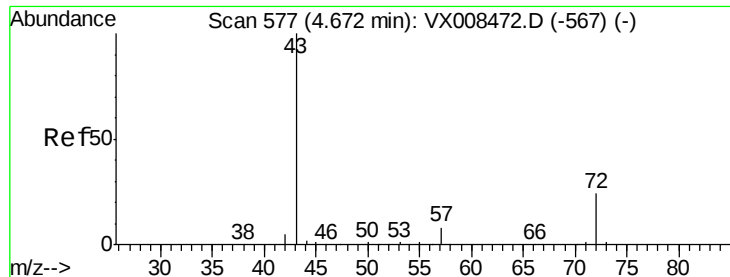


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

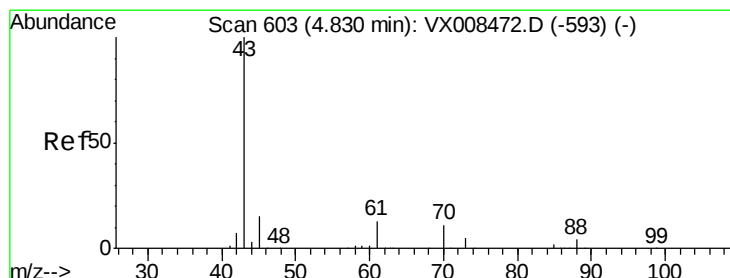
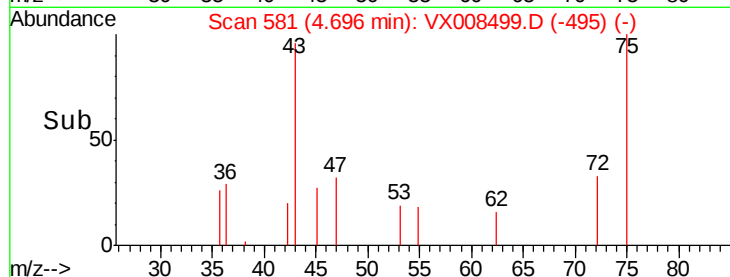
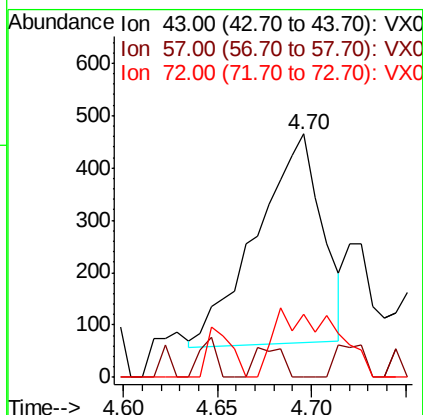
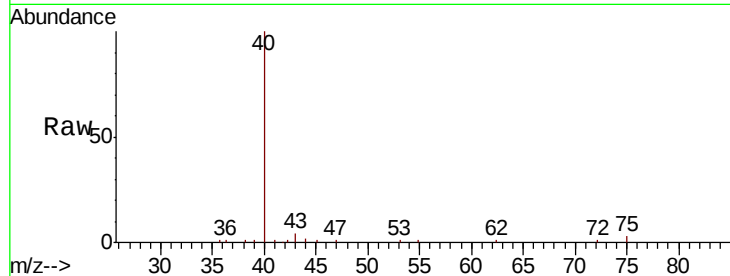




#30
2-Butanone
Concen: 0.377 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

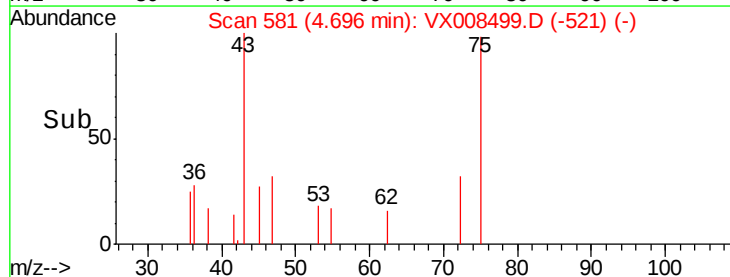
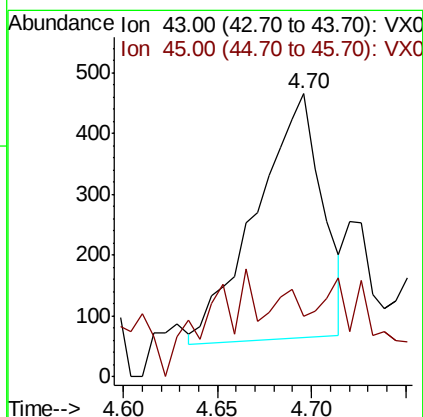
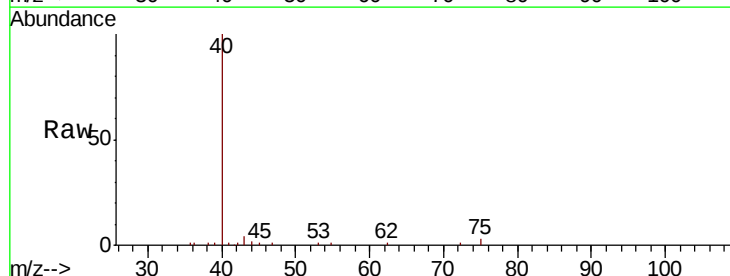
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-A

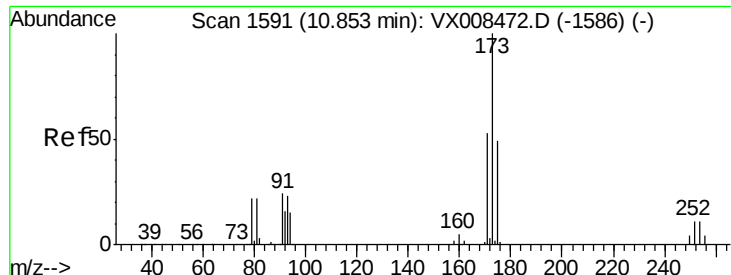
Tot Ion: 43 Resp: 960
Ion Ratio Lower Upper
43 100
57 6.3 7.0 10.6#
72 18.6 21.5 32.3#



#43
Ethyl Acetate
Concen: 0.212 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.13 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Tgt Ion: 43 Resp: 971
Ion Ratio Lower Upper
43 100
45 8.5 6.9 10.3





#56

Bromoform

Concen: 0.451 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.28 min

Lab File: VX008499.D

Acq: 27 Mar 2019 21:40

Instrument :

MSVOA_X

ClientSampleId :

MH-C02-SETTLED-3H-A

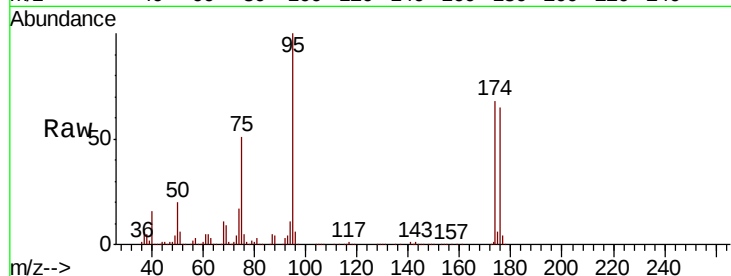
Tot Ion:173 Resp: 835

Ion Ratio Lower Upper

173 100

175 585.0 38.5 57.7#

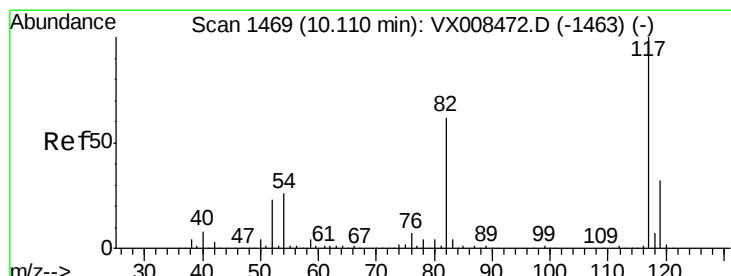
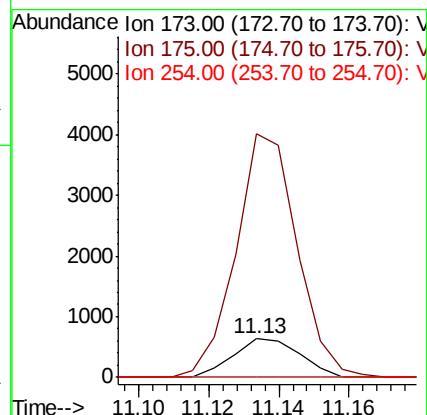
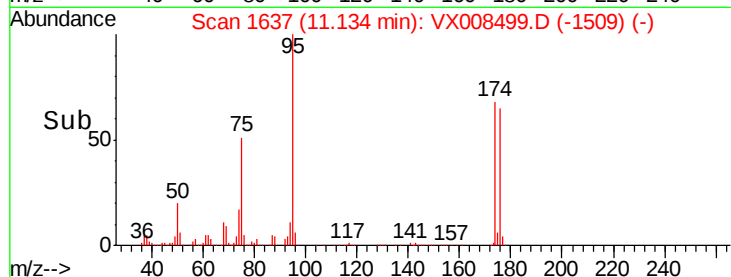
254 0.0 7.4 11.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008499.D

Acq: 27 Mar 2019 21:40

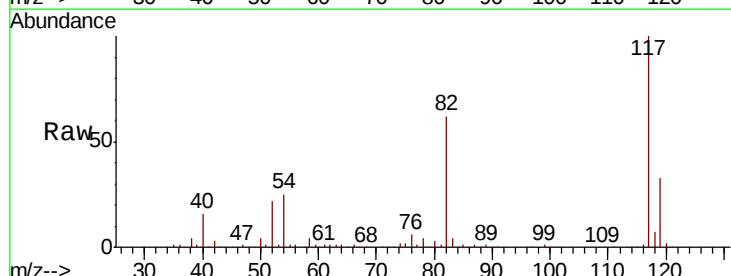
Tgt Ion:117 Resp: 177196

Ion Ratio Lower Upper

117 100

82 60.6 40.4 60.6#

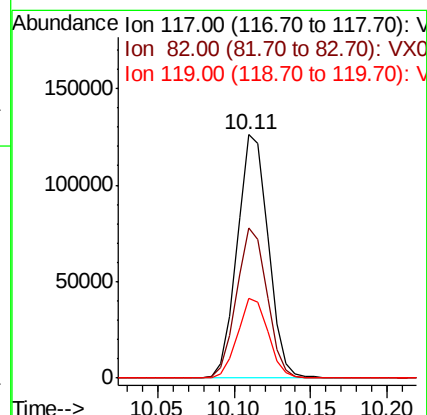
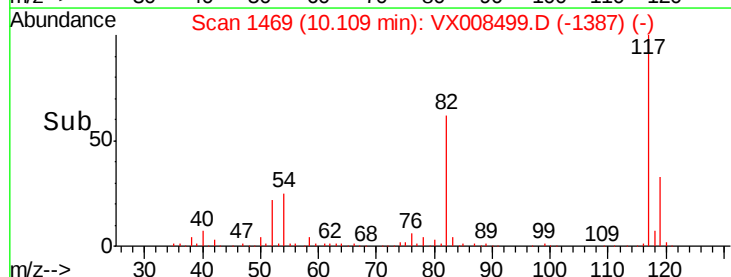
119 32.2 25.8 38.6

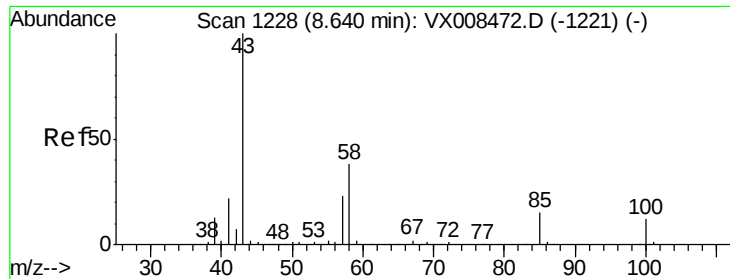


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

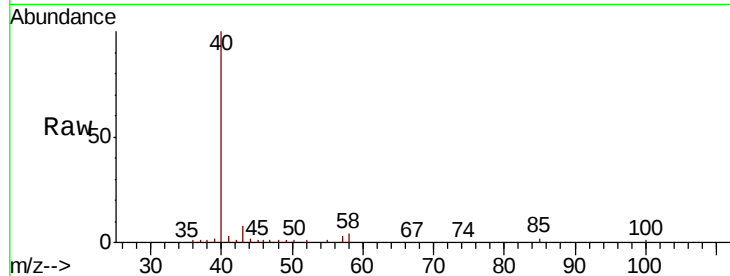




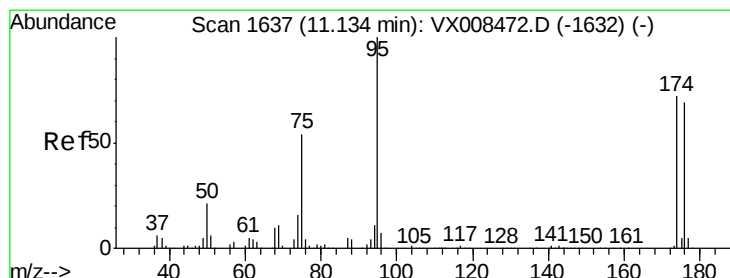
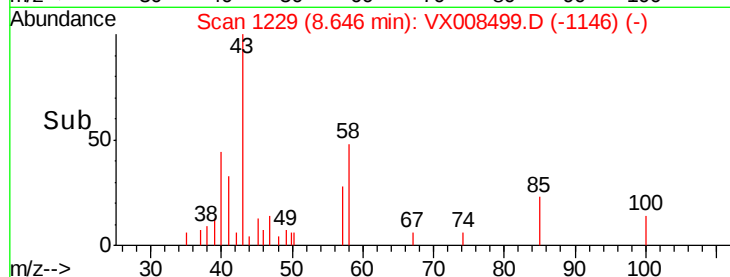
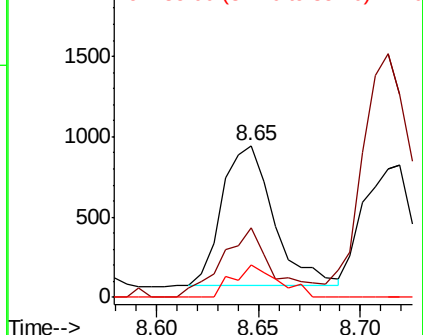
#58
4-Methyl-2-Pentanone
Concen: 0.328 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.01 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-A

Tot Ion: 43 Resp: 1531
Ion Ratio Lower Upper
43 100
58 41.5 31.4 47.0
85 20.5 15.0 22.6

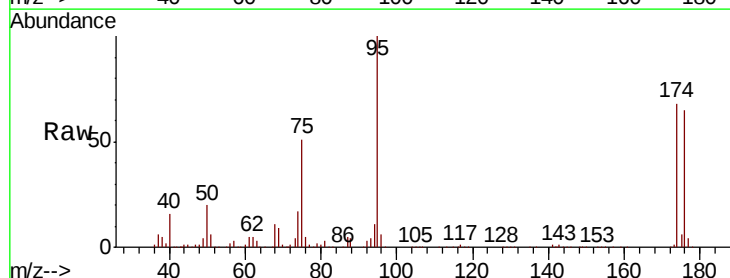


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

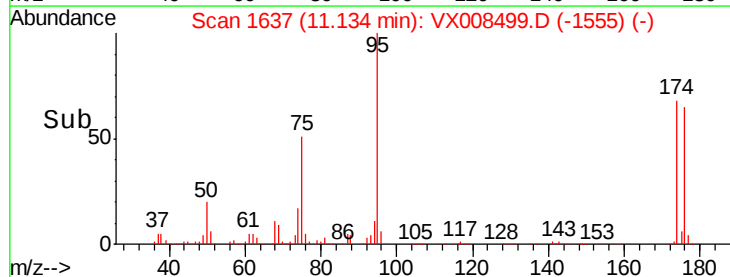
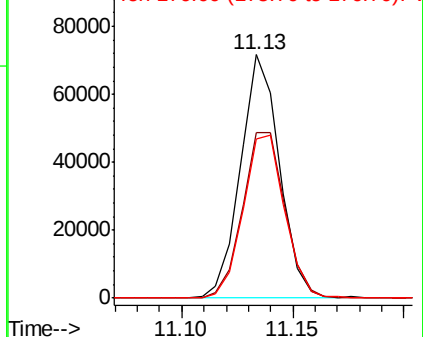


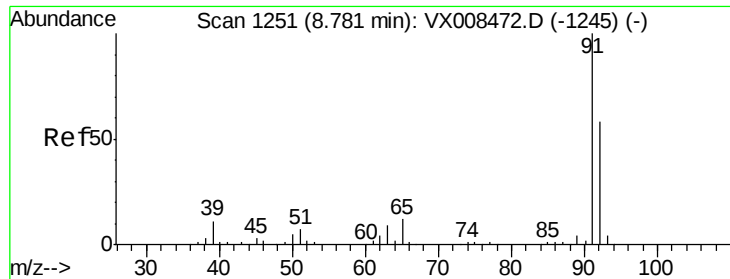
#60
4-Bromofluorobenzene
Concen: 28.326 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Tgt Ion: 95 Resp: 87453
Ion Ratio Lower Upper
95 100
174 74.1 74.9 112.3#
176 71.9 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: 0.280 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008499.D

Acq: 27 Mar 2019 21:40

Instrument :

MSVOA_X

ClientSampleId :

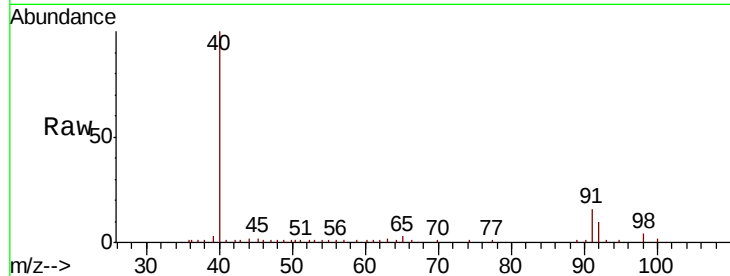
MH-C02-SETTLED-3H-A

Tot Ion: 91 Resp: 3005

Ion Ratio Lower Upper

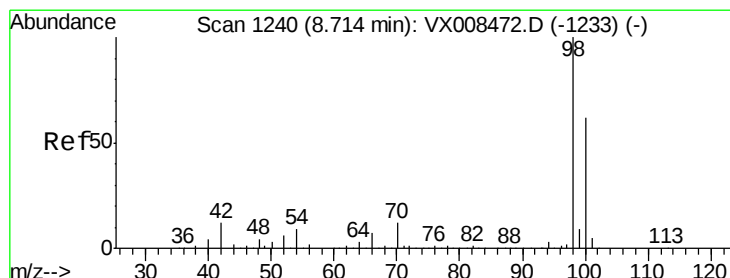
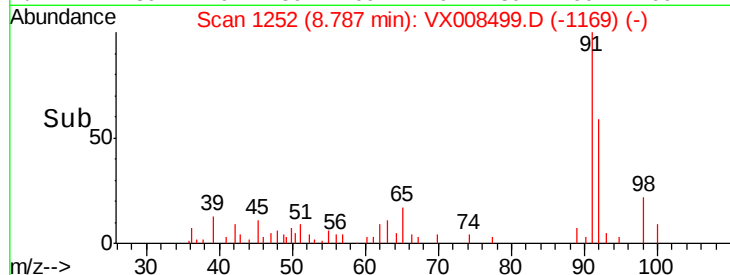
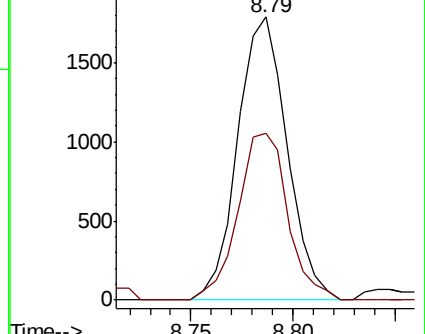
91 100

92 59.4 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: 30.888 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008499.D

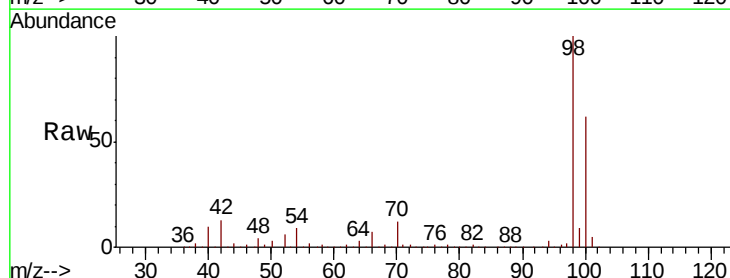
Acq: 27 Mar 2019 21:40

Tgt Ion: 98 Resp: 259798

Ion Ratio Lower Upper

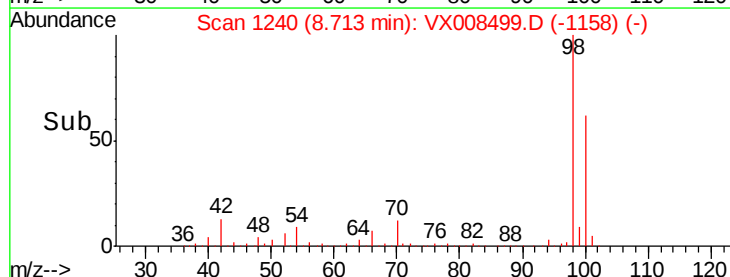
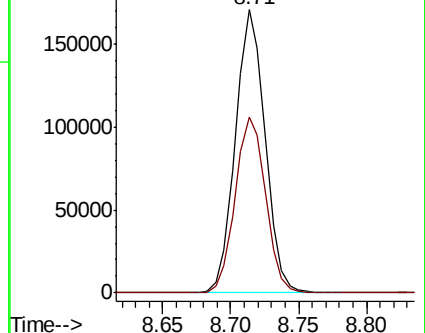
98 100

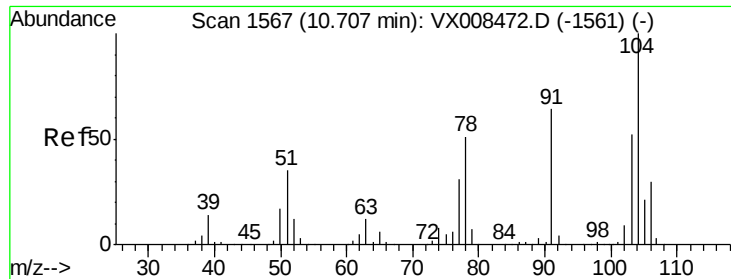
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

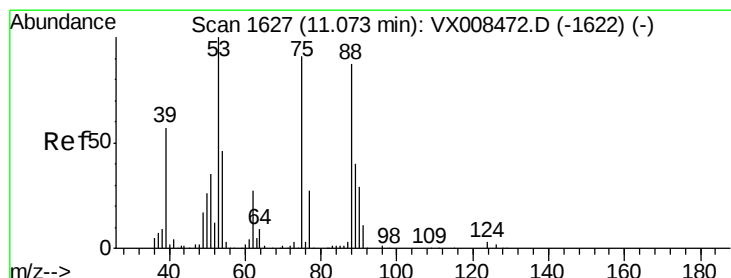
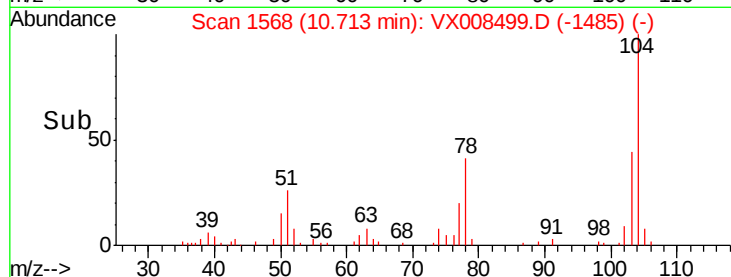
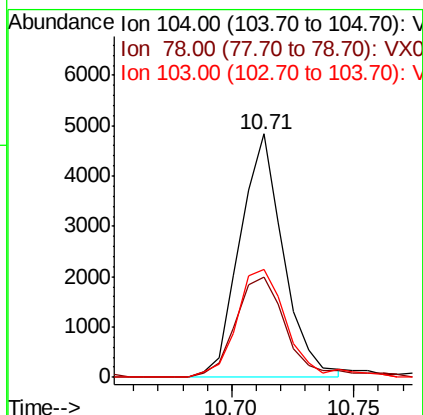
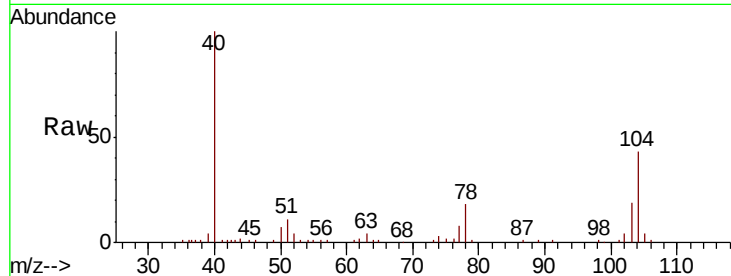




#69
Stvrene
Concen: 0.809 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

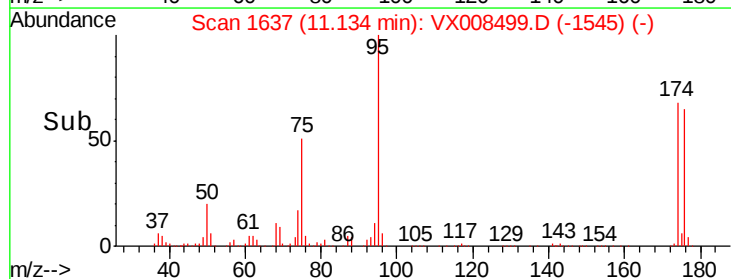
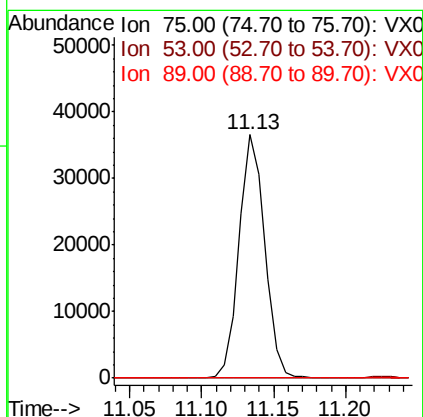
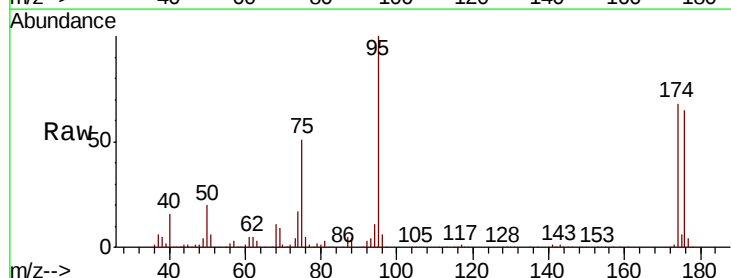
Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-A

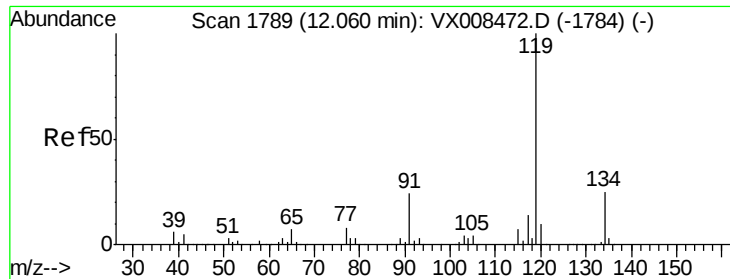
Tot Ion:104 Resp: 5980
Ion Ratio Lower Upper
104 100
78 49.0 38.2 57.2
103 49.3 45.0 67.4



#77
t-1,4-Dichloro-2-butene
Concen: 33.546 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Tgt Ion: 75 Resp: 45555
Ion Ratio Lower Upper
75 100
53 0.2 55.5 166.7#
89 0.0 24.4 73.2#

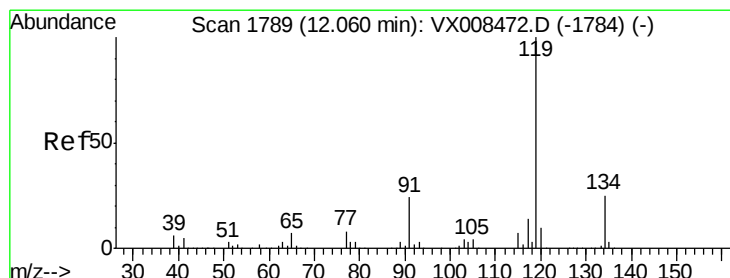
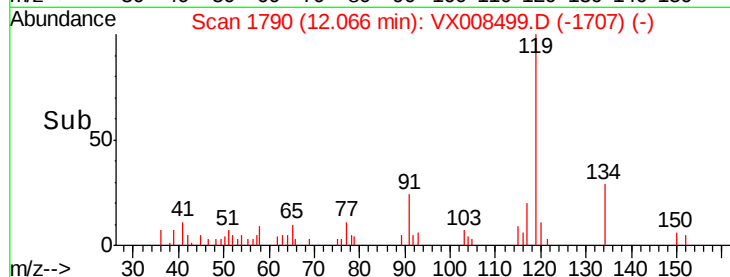
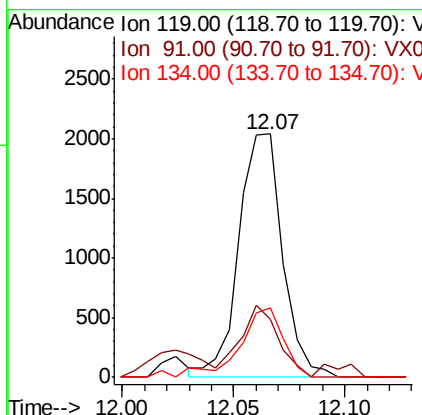
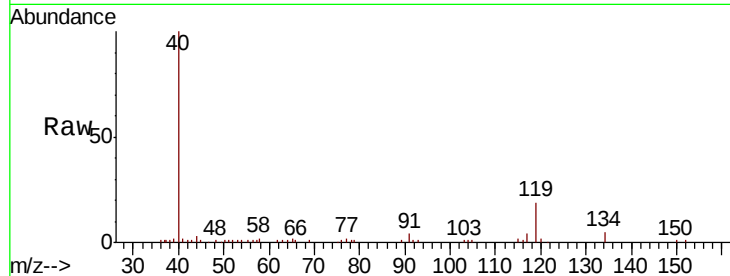




#79
tert-butylbenzene
Concen: 0.287 ug/l
RT: 12.07 min Scan# 1790
Delta R.T. 0.01 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Instrument :
MSVOA_X
ClientSampleId :
MH-C02-SETTLED-3H-A

Tot Ion:119 Resp: 2810
Ion Ratio Lower Upper
119 100
91 25.5 0.0 45.0
134 25.6 0.0 55.4



#82
p-Isopropyltoluene
Concen: 0.287 ug/l
RT: 12.07 min Scan# 1790
Delta R.T. 0.01 min
Lab File: VX008499.D
Acq: 27 Mar 2019 21:40

Tgt Ion:119 Resp: 2810
Ion Ratio Lower Upper
119 100
134 25.6 0.0 55.4
91 25.5 0.0 45.0

