

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX040519\
 Data File : VX008677.D
 Acq On : 05 Apr 2019 12:11
 Operator : JC/SP
 Sample : K2235-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(APR)

Quant Time: Apr 05 12:56:03 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	32063	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	183283	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	162272	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	79349	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	11.13	95	82213	29.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.93%
63) Toluene-d8	8.71	98	228255	29.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.77%

Target Compounds

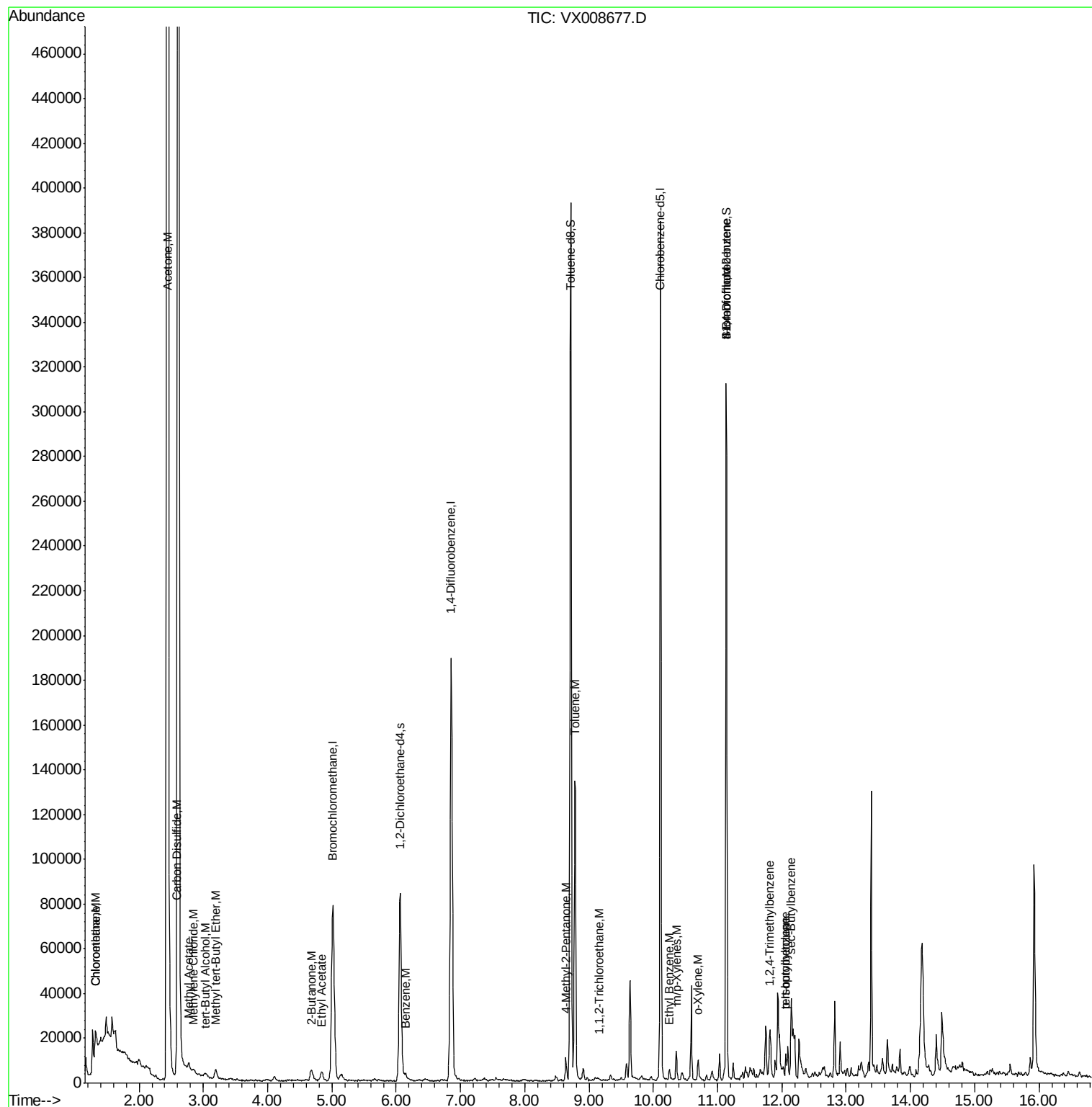
					Qvalue	
3) Chloromethane	1.32	50	963	0.335	ug/l	98
6) Chloroethane	1.32	64	19730	10.411	ug/l #	53
12) Methyl Acetate	2.77	43	3564	2.166	ug/l	93
15) Acetone	2.44	58	471020	1003.926	ug/l	93
16) Carbon Disulfide	2.57	76	2139	0.339	ug/l	97
18) Methylene Chloride	2.85	84	493	0.203	ug/l #	90
23) tert-Butyl Alcohol	3.04	59	1805	2.938	ug/l #	100
24) Methyl tert-Butyl Ether	3.19	73	4491	0.602	ug/l	93
30) 2-Butanone	4.68	43	8929	3.938	ug/l #	90
34) Benzene	6.14	78	2933	0.311	ug/l	98
43) Ethyl Acetate	4.84	43	7002	1.716	ug/l	97
50) 1,1,2-Trichloroethane	9.15	97	463	0.201	ug/l #	13
56) Bromoform	11.14	173	405	0.246	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	6392	1.493	ug/l	94
62) Toluene	8.78	91	86226	8.776	ug/l	98
66) Ethyl Benzene	10.25	91	2342	0.215	ug/l	99
67) m/p-Xylenes	10.36	106	2974	0.748	ug/l	87
68) o-Xylene	10.69	106	1634	0.420	ug/l	84
77) t-1,4-Dichloro-2-butene	11.13	75	41618	33.465	ug/l #	5
79) tert-butylbenzene	12.06	119	3667	0.409	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	5220	0.596	ug/l	87
81) sec-Butylbenzene	12.14	105	2463	0.246	ug/l	65
82) p-Isopropyltoluene	12.06	119	3667	0.409	ug/l	97

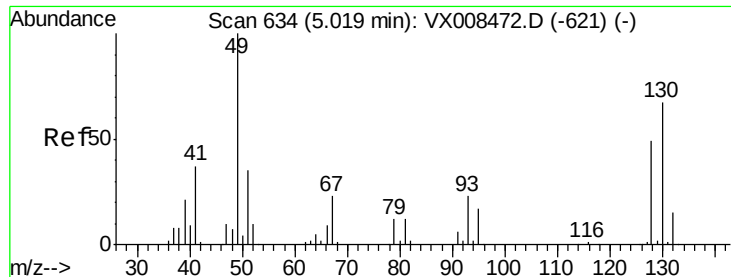
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 05 12:56:03 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: VX008677.D

Acq: 05 Apr 2019 12:11

Instrument :

MSVOA_X

ClientSampleId :

002M-35TH-AVE(APR)

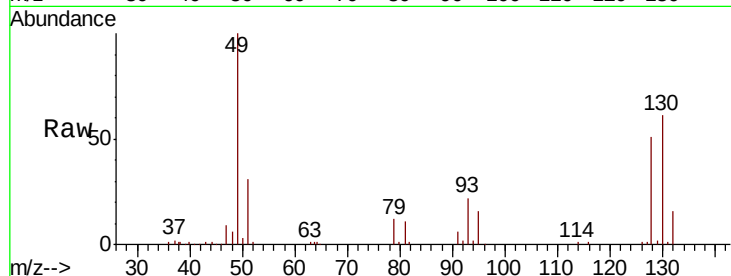
Tgt Ion:128 Resp: 32063

Ion Ratio Lower Upper

128 100

49 204.5 0.0 350.8

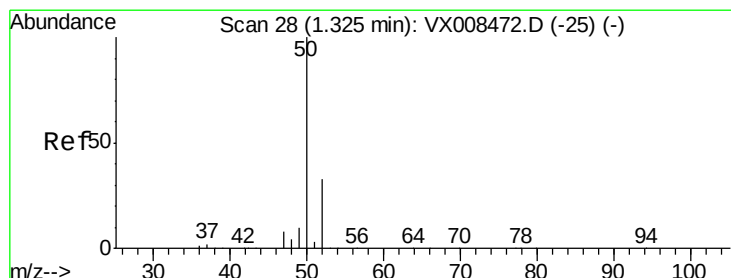
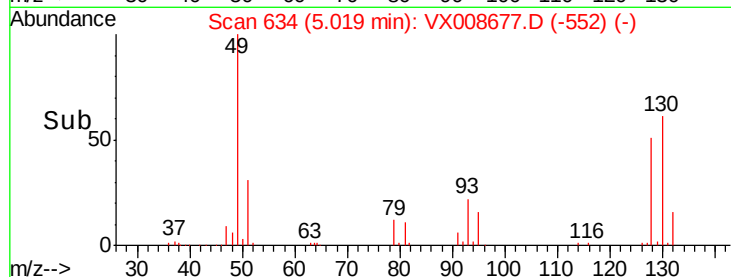
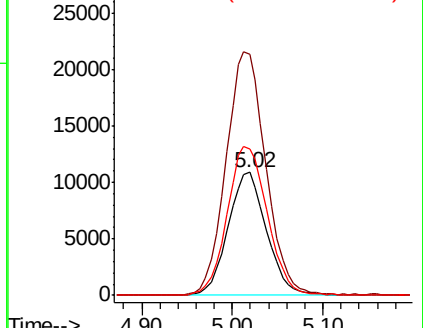
130 126.5 0.0 325.8



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: 0.335 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX008677.D

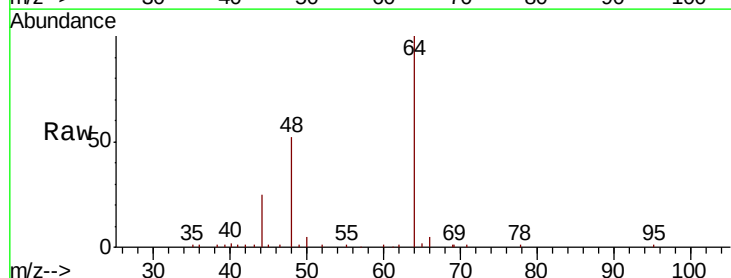
Acq: 05 Apr 2019 12:11

Tgt Ion: 50 Resp: 963

Ion Ratio Lower Upper

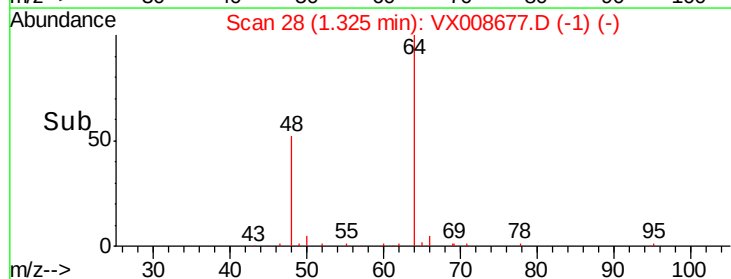
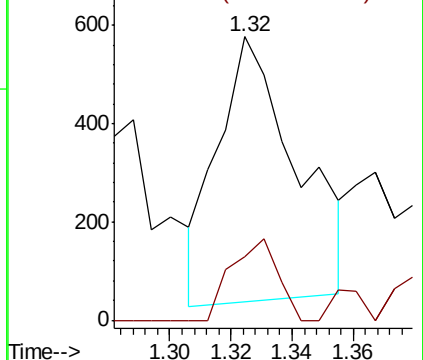
50 100

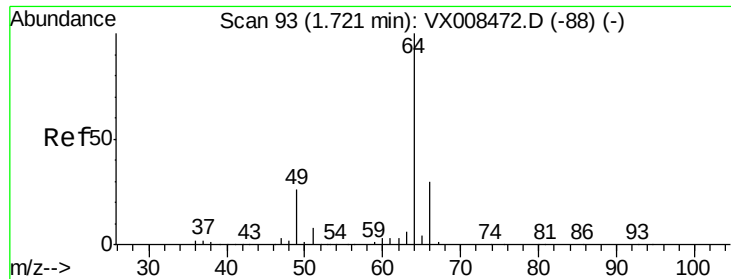
52 33.2 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 10.411 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.40 min

Lab File: VX008677.D

Acq: 05 Apr 2019 12:11

Instrument :

MSVOA_X

ClientSampleId :

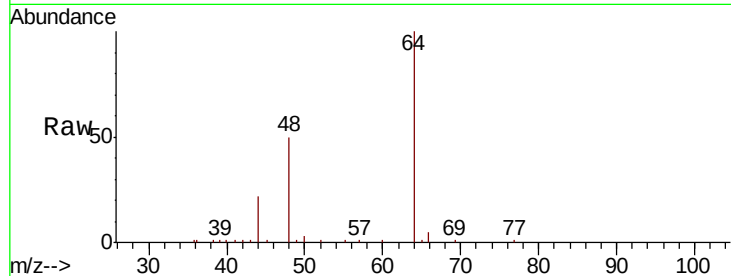
002M-35TH-AVE(APR)

Tgt Ion: 64 Resp: 19730

Ion Ratio Lower Upper

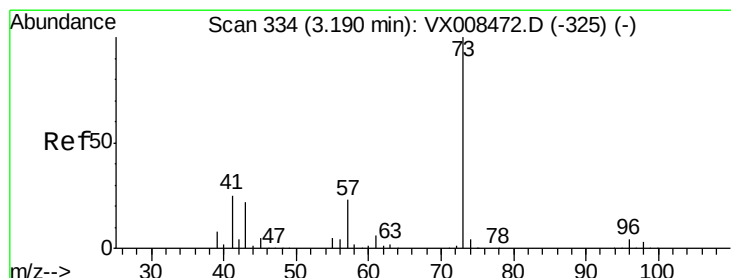
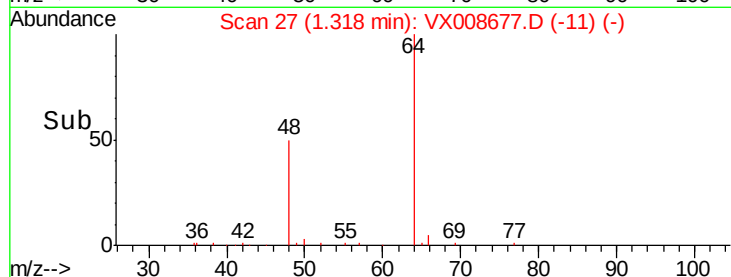
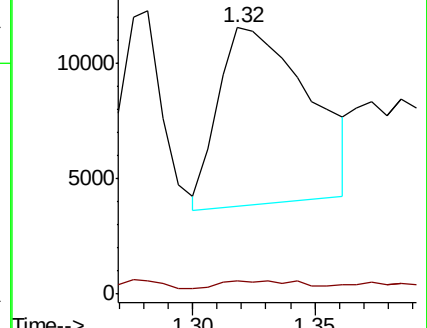
64 100

66 4.5 23.9 35.9#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#12

Methyl Acetate

Concen: 2.166 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.42 min

Lab File: VX008677.D

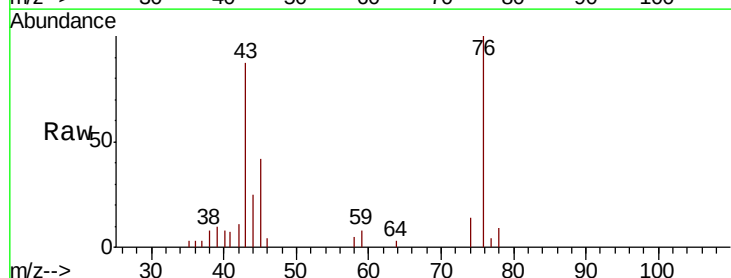
Acq: 05 Apr 2019 12:11

Tgt Ion: 43 Resp: 3564

Ion Ratio Lower Upper

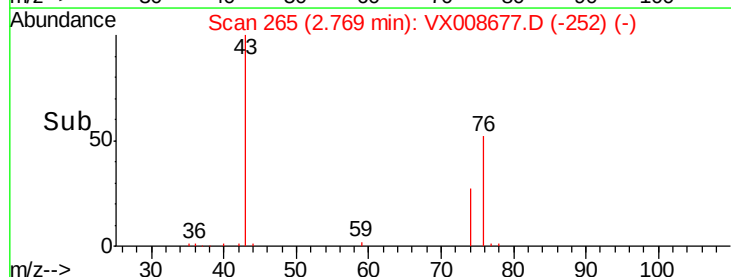
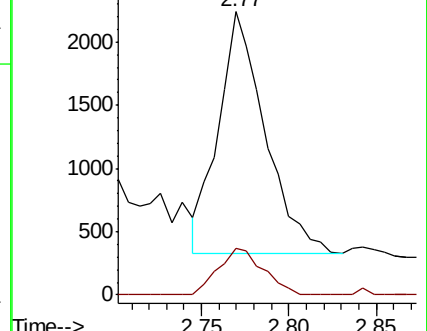
43 100

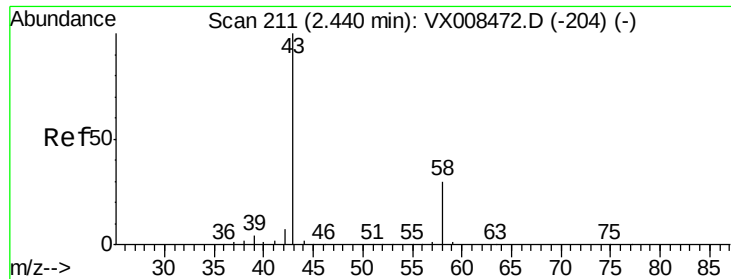
74 20.9 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#15

Acetone

Concen: 1003.926 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008677.D

Acq: 05 Apr 2019 12:11

Instrument :

MSVOA_X

ClientSampleId :

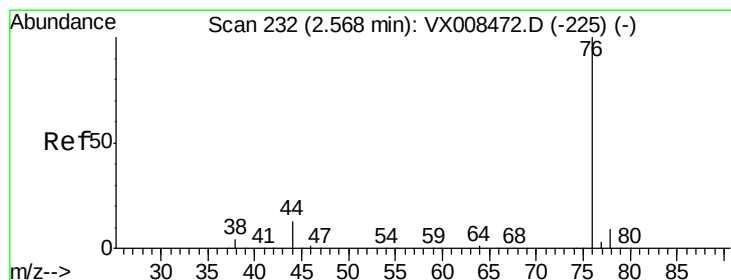
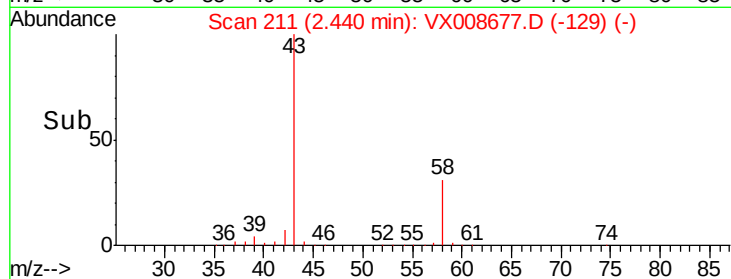
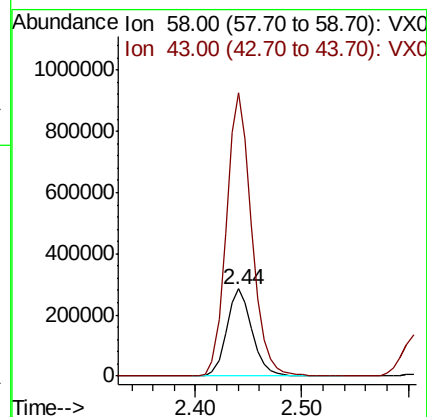
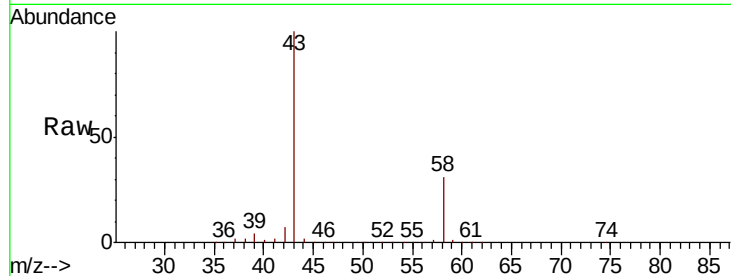
002M-35TH-AVE(APR)

Tgt Ion: 58 Resp: 471020

Ion Ratio Lower Upper

58 100

43 325.4 249.8 374.6



#16

Carbon Disulfide

Concen: 0.339 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008677.D

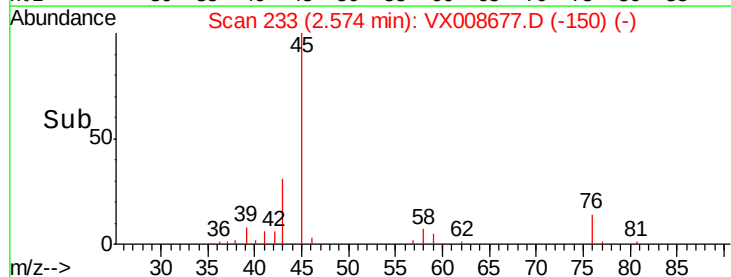
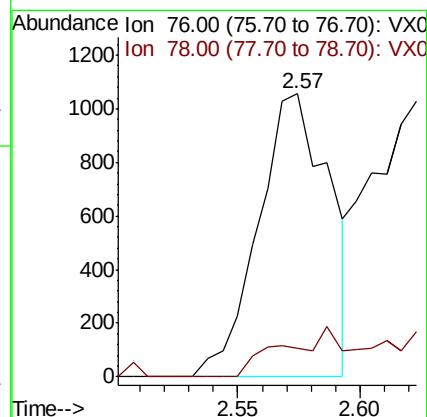
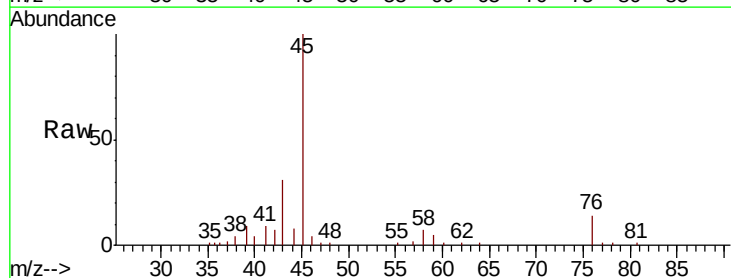
Acq: 05 Apr 2019 12:11

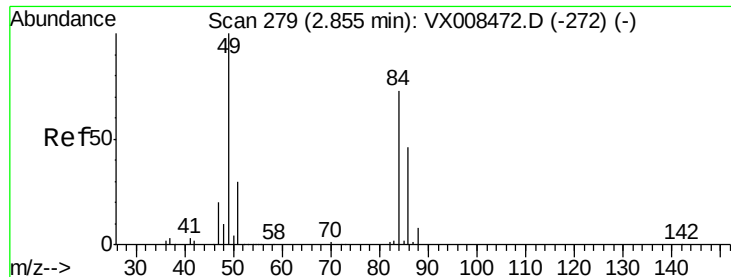
Tgt Ion: 76 Resp: 2139

Ion Ratio Lower Upper

76 100

78 10.3 7.5 11.3

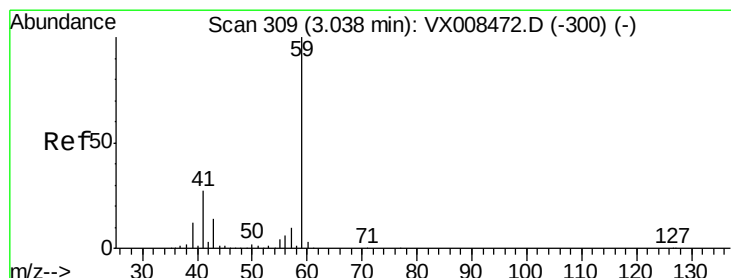
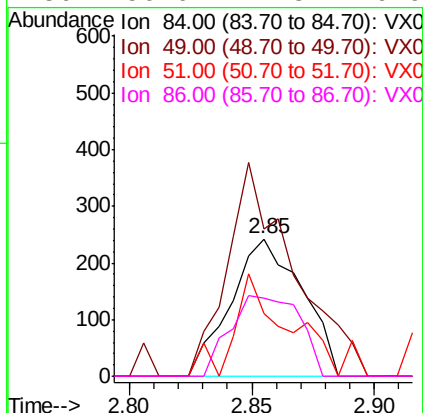
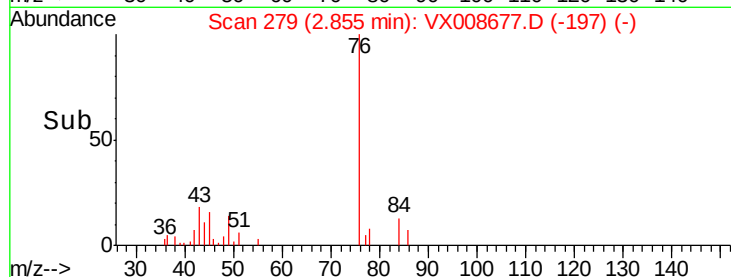
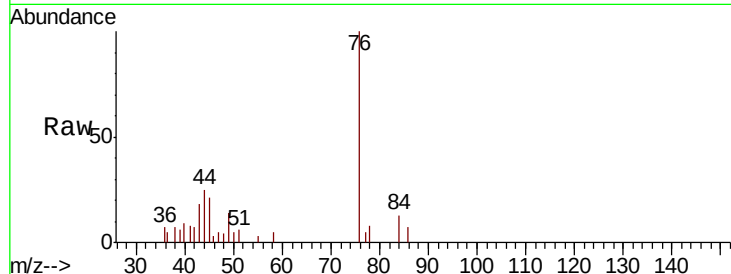




#18
Methylene Chloride
Concen: 0.203 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

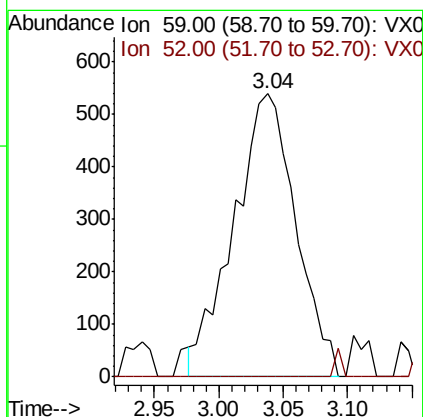
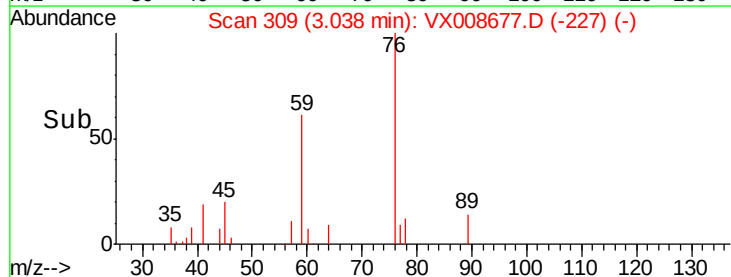
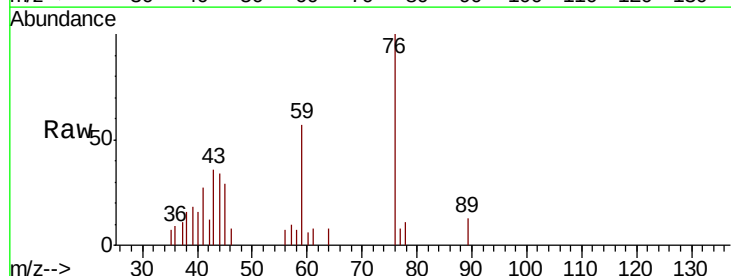
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(APR)

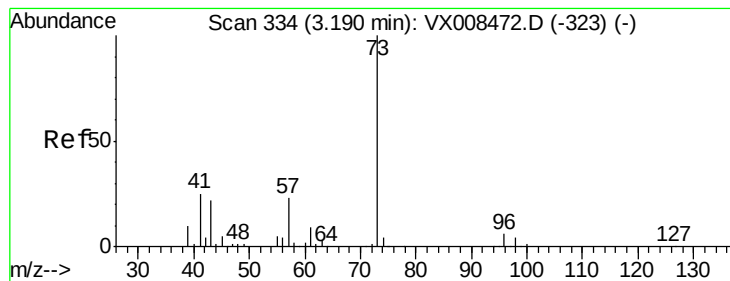
Tgt Ion: 84 Resp: 493
Ion Ratio Lower Upper
84 100
49 107.9 96.1 144.1
51 46.3 29.1 43.7#
86 56.6 47.3 70.9



#23
tert-Butyl Alcohol
Concen: 2.938 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Tgt Ion: 59 Resp: 1805
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



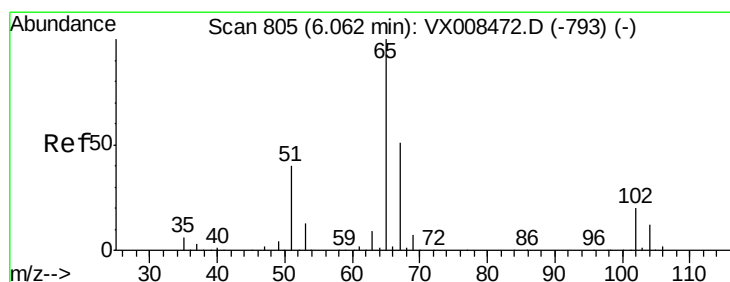
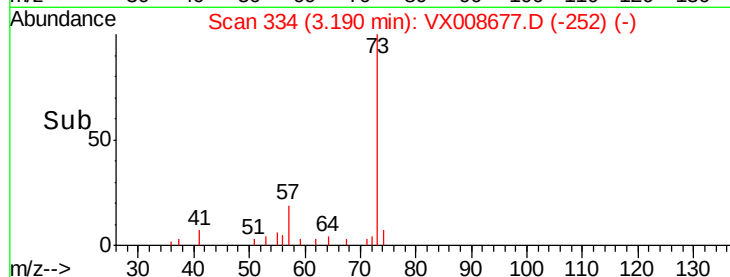
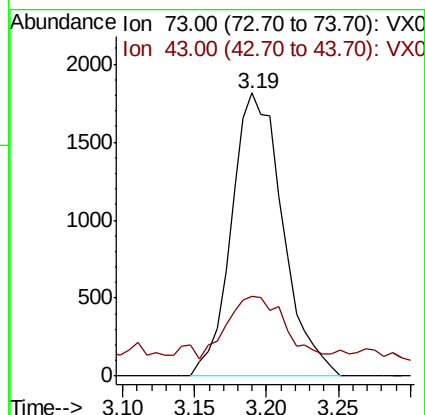
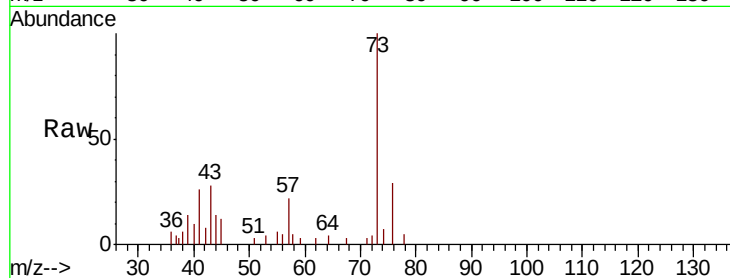


#24

Methyl tert-Butyl Ether
 Concen: 0.602 ug/l
 RT: 3.19 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VX008677.D
 Acq: 05 Apr 2019 12:11

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(APR)

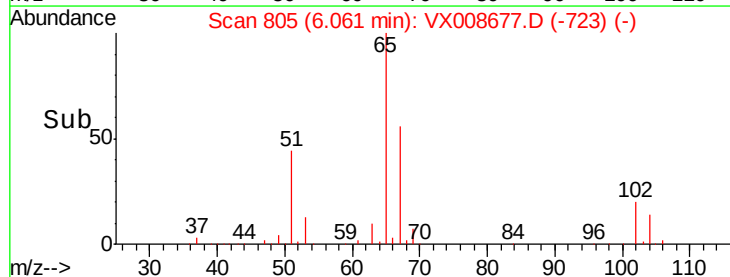
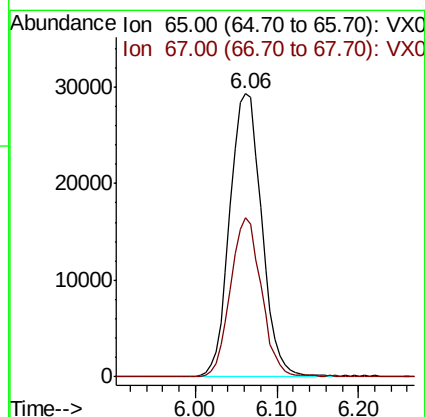
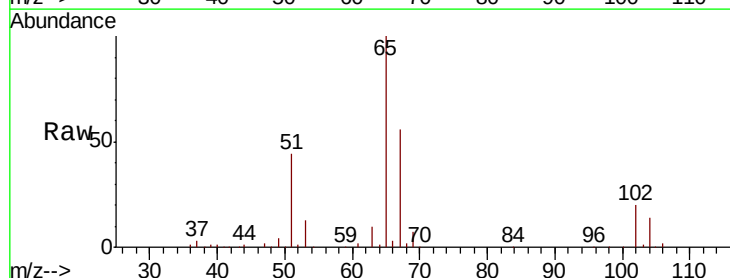
Tgt Ion: 73 Resp: 4491
 Ion Ratio Lower Upper
 73 100
 43 24.9 17.1 25.7

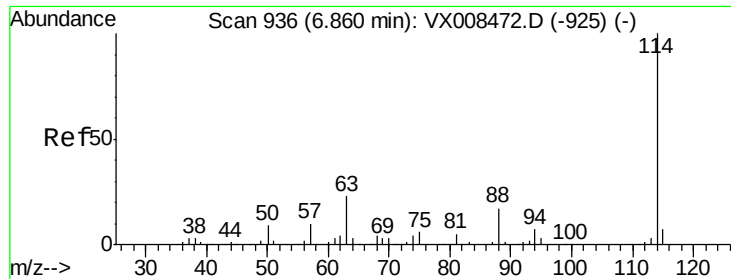


#27

1,2-Dichloroethane-d4
 Concen: 29.583 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008677.D
 Acq: 05 Apr 2019 12:11

Tgt Ion: 65 Resp: 79349
 Ion Ratio Lower Upper
 65 100
 67 54.3 42.9 64.3

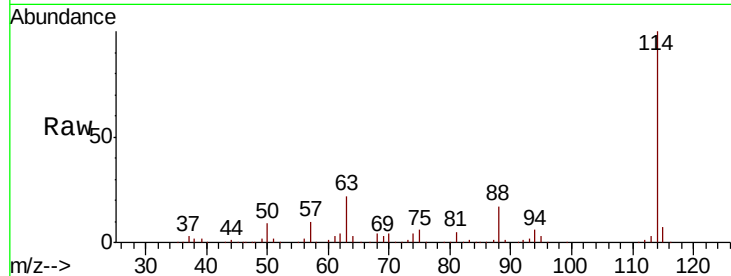




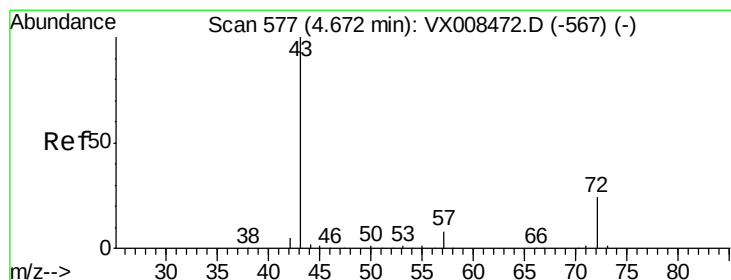
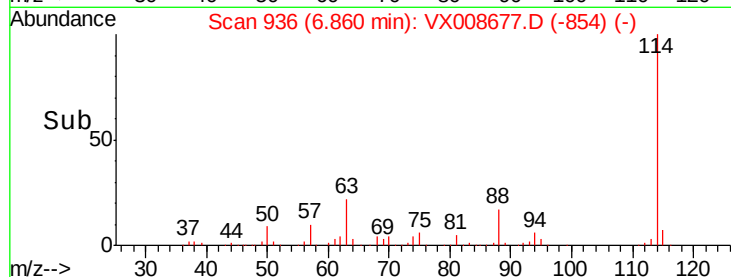
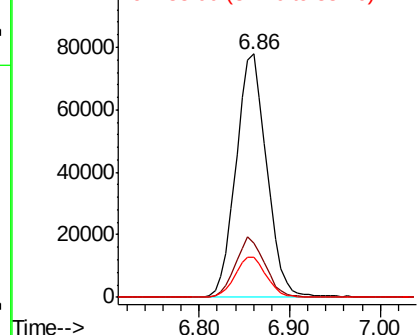
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008677.D
 Acq: 05 Apr 2019 12:11

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(APR)

Tgt Ion: 114 Resp: 183283
 Ion Ratio Lower Upper
 114 100
 63 23.9 14.2 21.4#
 88 16.8 11.9 17.9

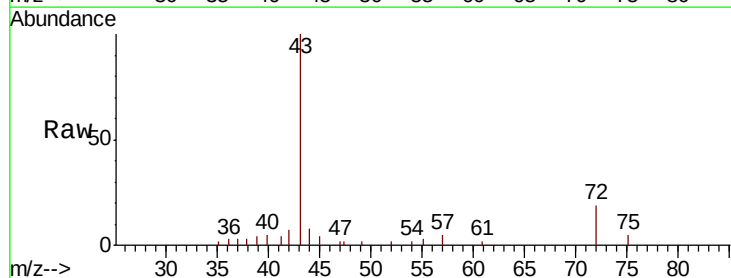


Abundance Ion 114.00 (113.70 to 114.70): VX0
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

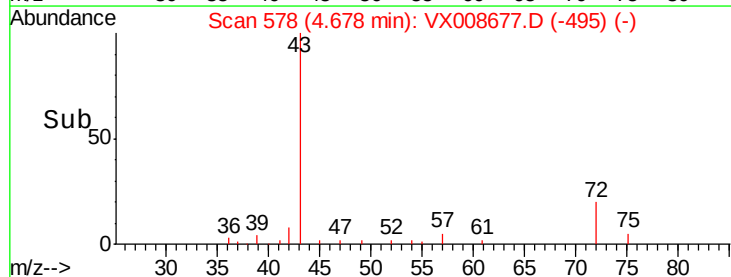
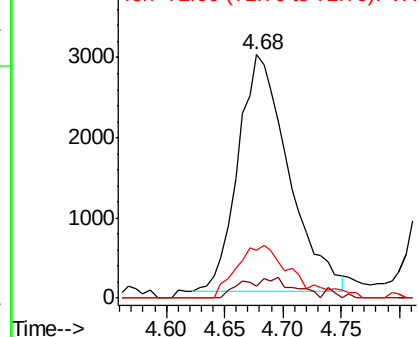


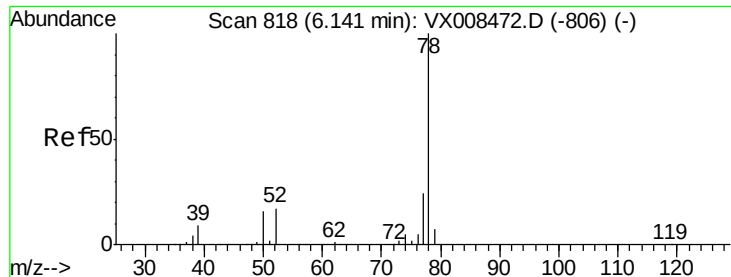
#30
 2-Butanone
 Concen: 3.938 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VX008677.D
 Acq: 05 Apr 2019 12:11

Tgt Ion: 43 Resp: 8929
 Ion Ratio Lower Upper
 43 100
 57 5.3 7.0 10.6#
 72 21.8 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0





#34

Benzene

Concen: 0.311 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX008677.D

Acq: 05 Apr 2019 12:11

Instrument :

MSVOA_X

ClientSampleId :

002M-35TH-AVE(APR)

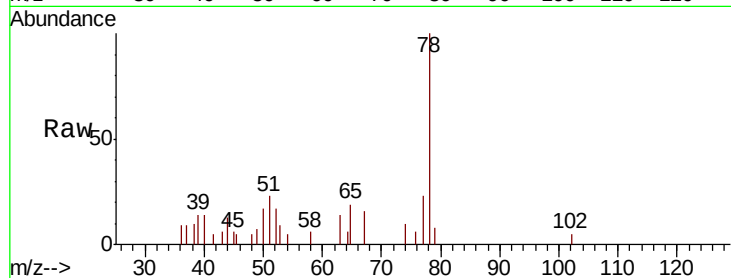
Tgt Ion: 78 Resp: 2933

Ion Ratio Lower Upper

78 100

77 22.9 19.1 28.7

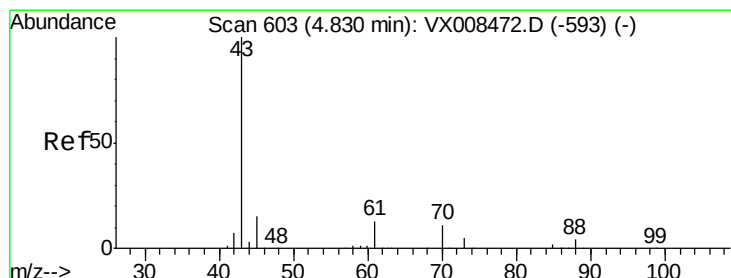
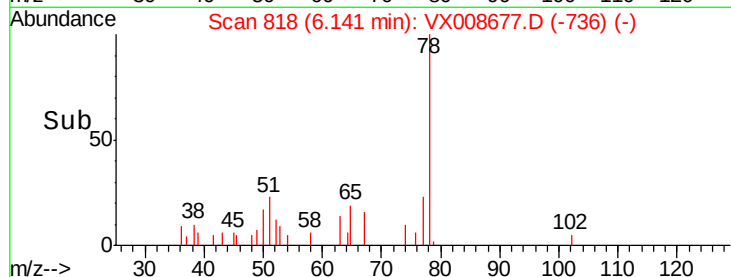
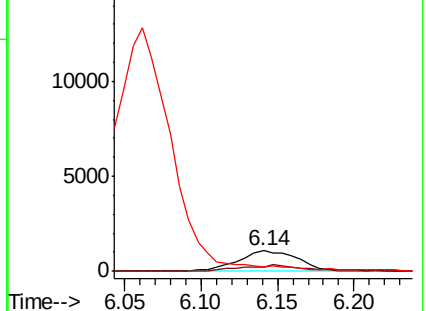
51 12.8 10.8 16.2



Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#43

Ethyl Acetate

Concen: 1.716 ug/l

RT: 4.84 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX008677.D

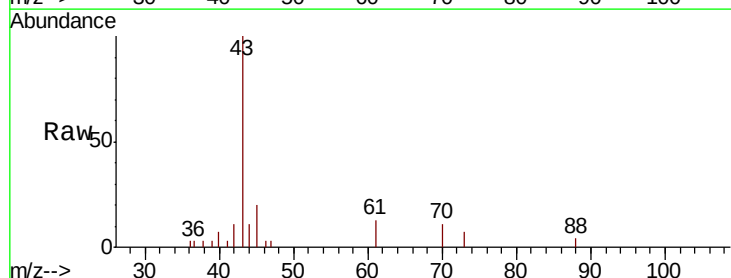
Acq: 05 Apr 2019 12:11

Tgt Ion: 43 Resp: 7002

Ion Ratio Lower Upper

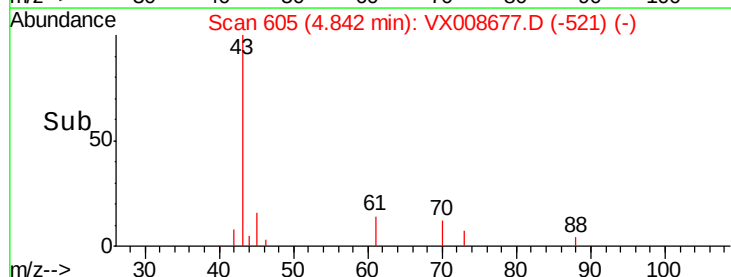
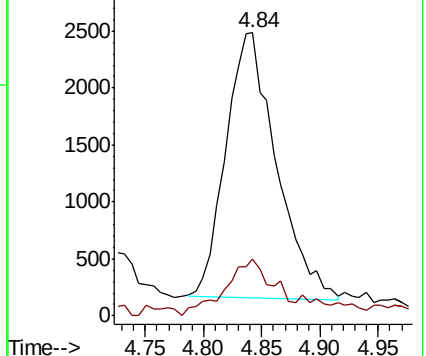
43 100

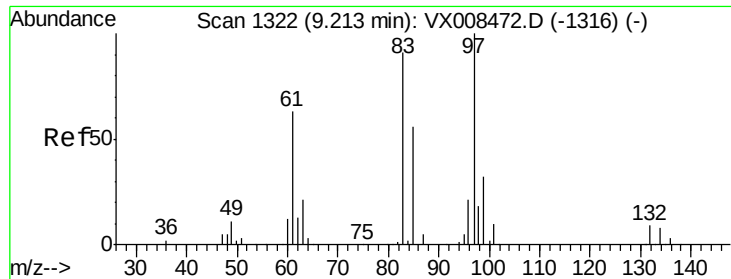
45 9.8 6.9 10.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

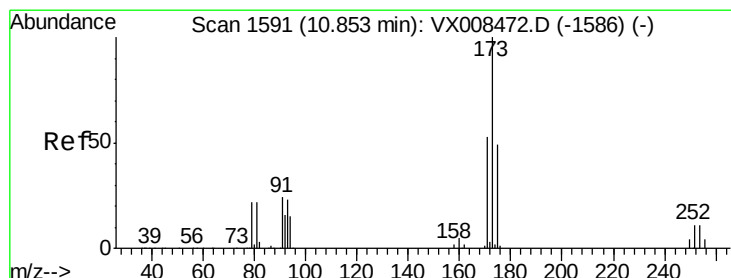
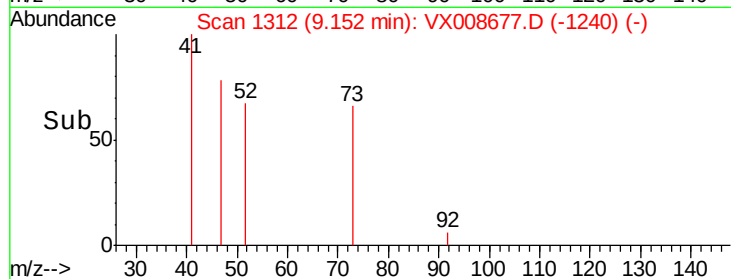
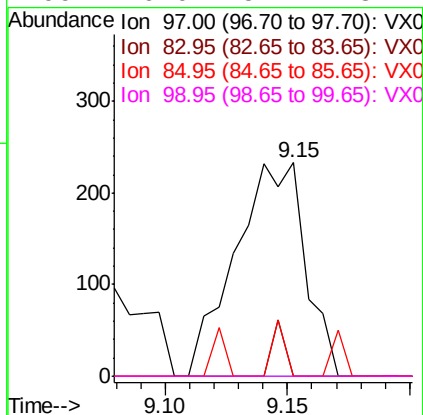
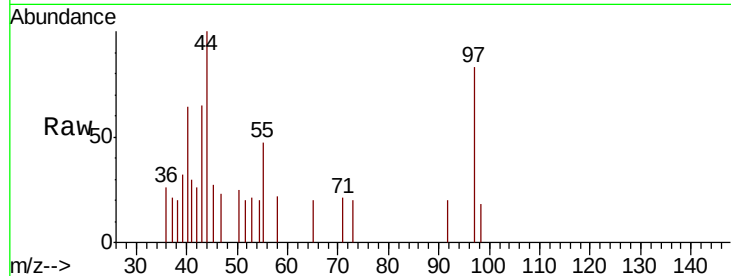




#50
1,1,2-Trichloroethane
Concen: 0.201 ug/l
RT: 9.15 min Scan# 1312
Delta R.T. -0.06 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

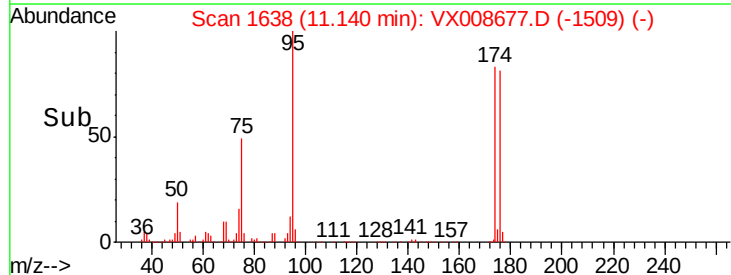
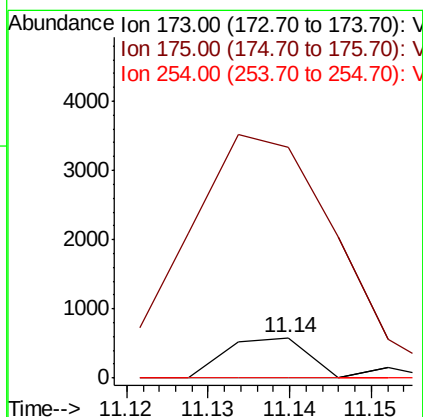
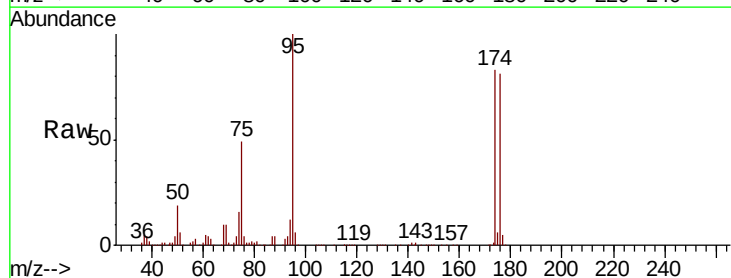
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(APR)

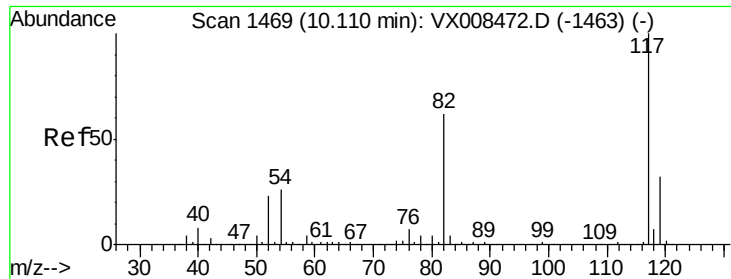
Tgt Ion:	97	Resp:	463
Ion	Ratio	Lower	Upper
97	100		
83	0.0	72.0	108.0#
85	0.0	45.0	67.6#
99	0.0	54.2	81.4#



#56
Bromoform
Concen: 0.246 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.29 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Tgt Ion:	173	Resp:	405
Ion	Ratio	Lower	Upper
173	100		
175	1148.4	38.5	57.7#
254	0.0	7.4	11.2#

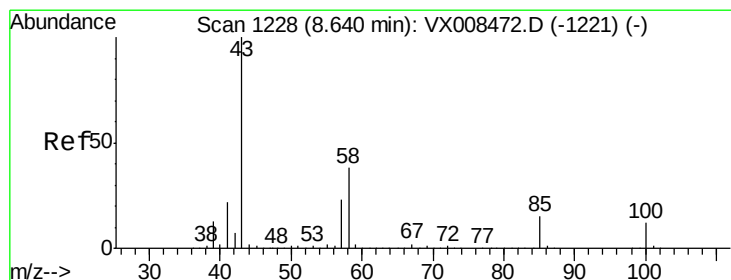
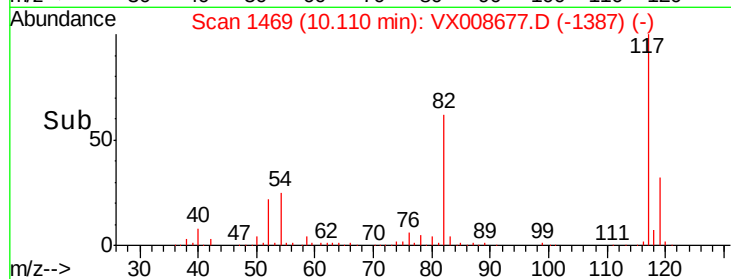
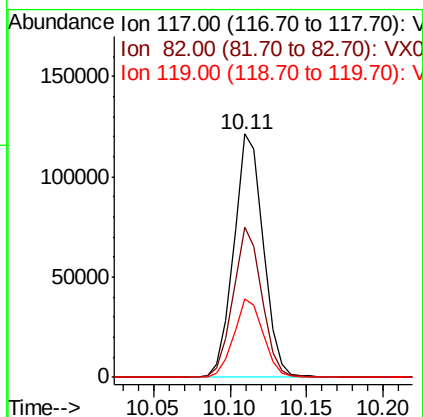
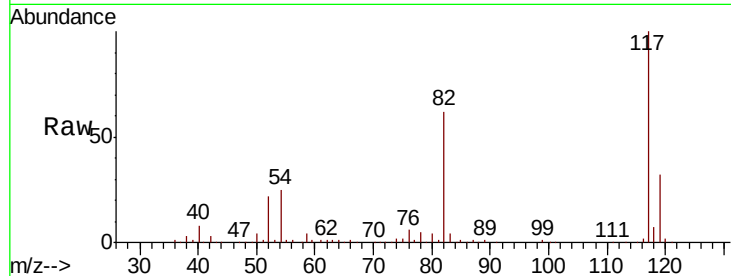




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

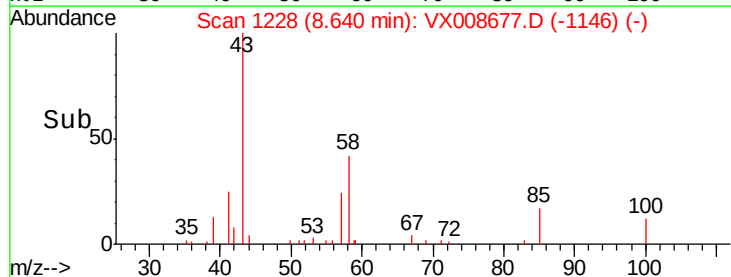
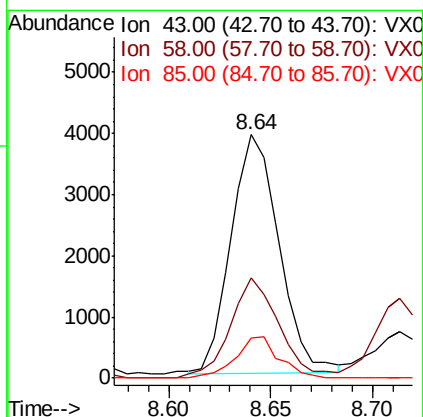
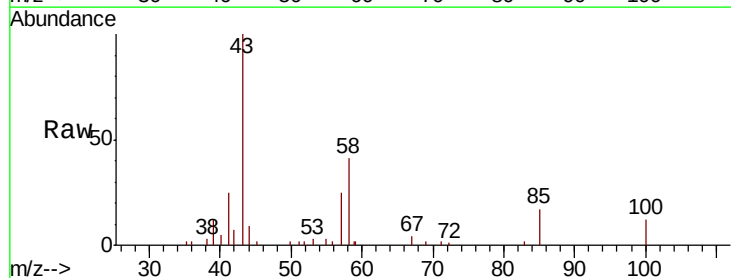
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(APR)

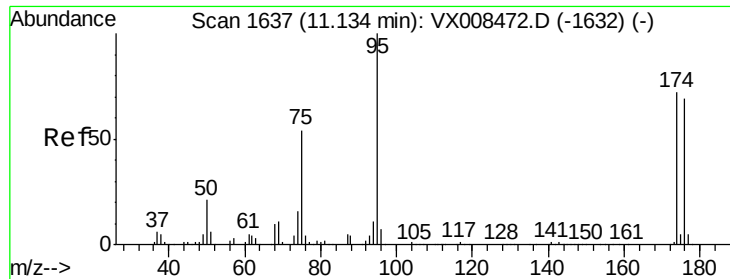
Tgt Ion: 117 Resp: 162272
Ion Ratio Lower Upper
117 100
82 60.0 40.4 60.6
119 31.9 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 1.493 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Tgt Ion: 43 Resp: 6392
Ion Ratio Lower Upper
43 100
58 42.6 31.4 47.0
85 15.8 15.0 22.6

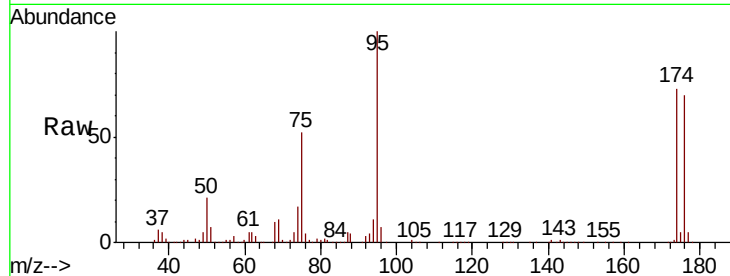




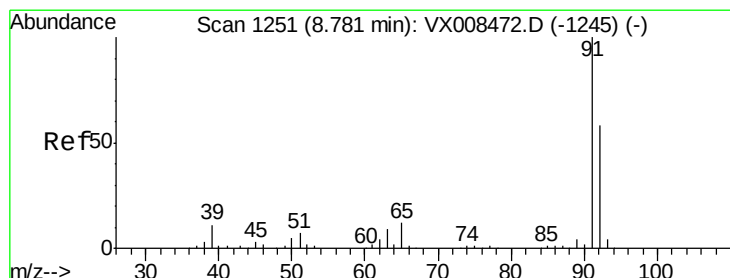
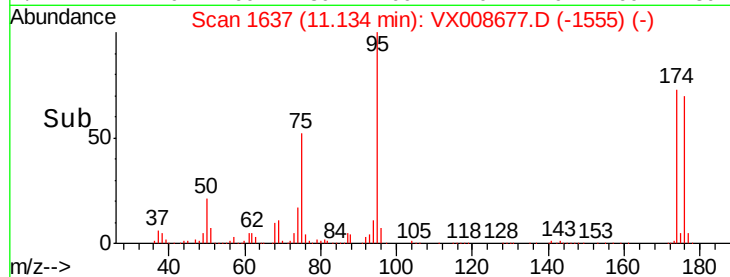
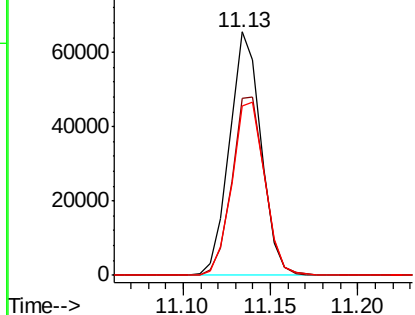
#60
4-Bromofluorobenzene
Concen: 29.078 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(APR)

Tgt Ion: 95 Resp: 82213
Ion Ratio Lower Upper
95 100
174 75.9 74.9 112.3
176 74.3 70.7 106.1

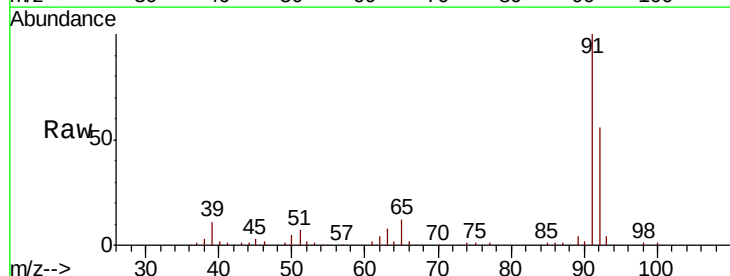


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

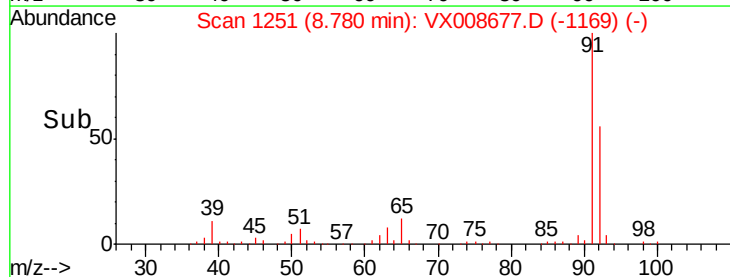
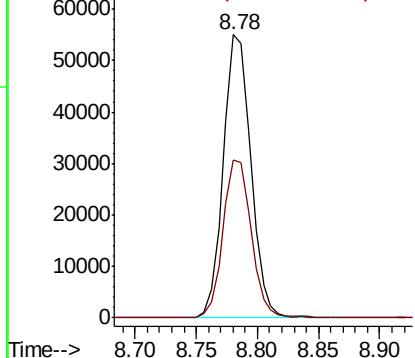


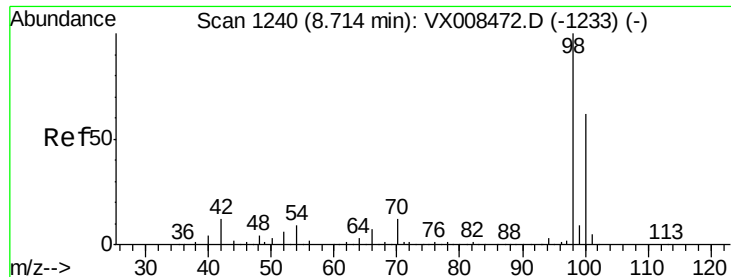
#62
Toluene
Concen: 8.776 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Tgt Ion: 91 Resp: 86226
Ion Ratio Lower Upper
91 100
92 56.8 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: 29.633 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008677.D

Acq: 05 Apr 2019 12:11

Instrument :

MSVOA_X

ClientSampleId :

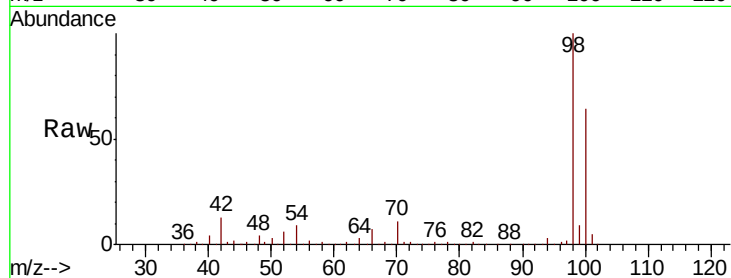
002M-35TH-AVE(APR)

Tgt Ion: 98 Resp: 228255

Ion Ratio Lower Upper

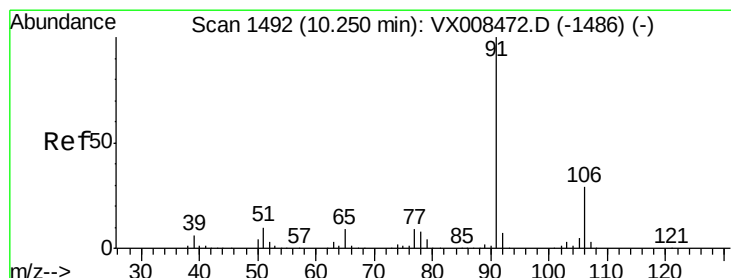
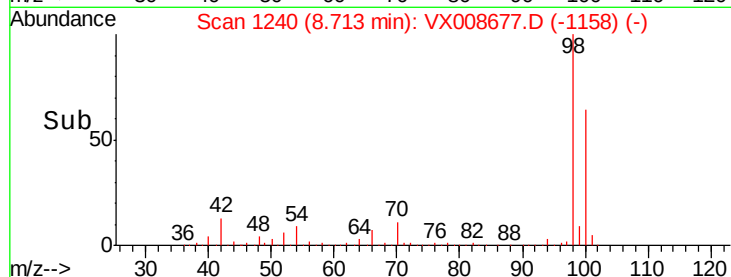
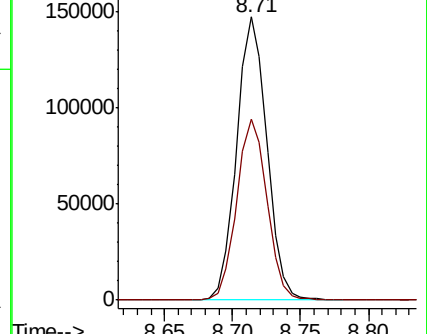
98 100

100 64.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#66

Ethyl Benzene

Concen: 0.215 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX008677.D

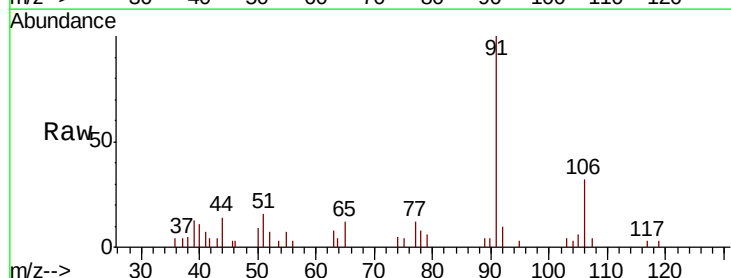
Acq: 05 Apr 2019 12:11

Tgt Ion: 91 Resp: 2342

Ion Ratio Lower Upper

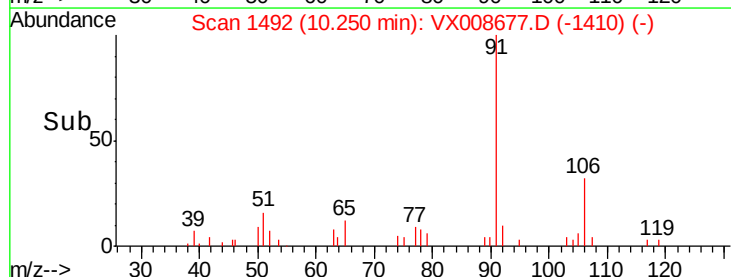
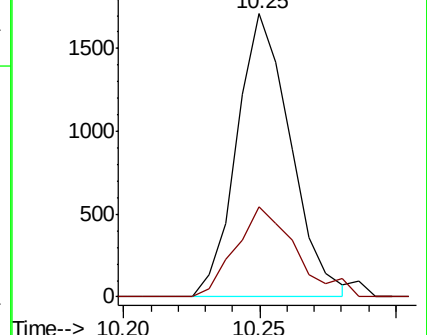
91 100

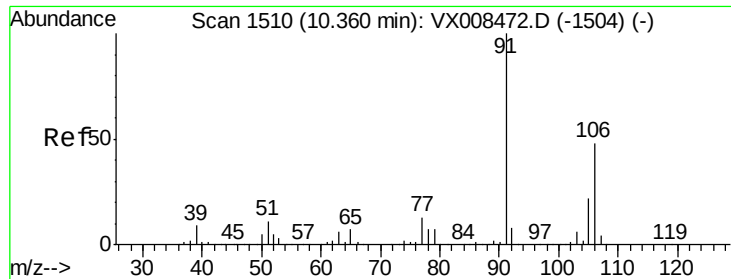
106 32.0 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

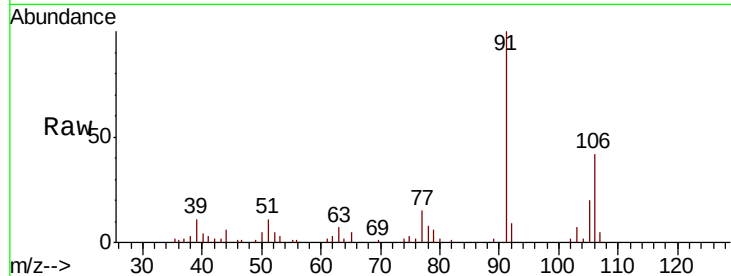




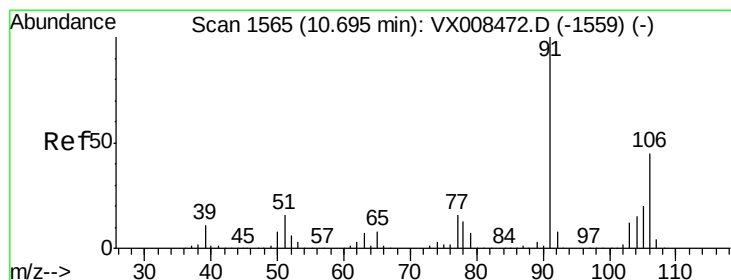
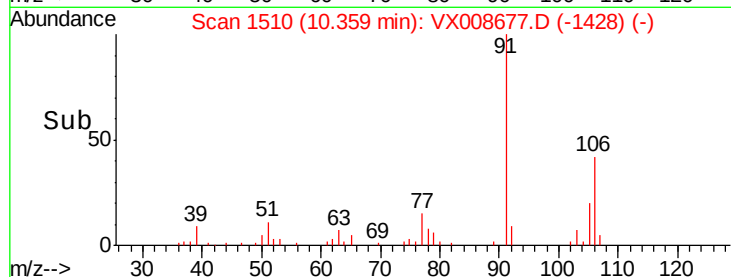
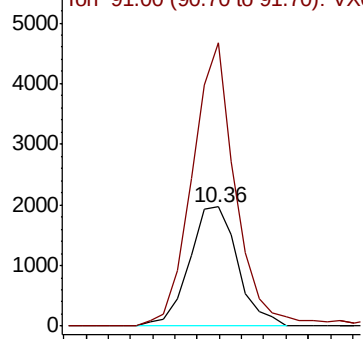
#67
m/p-Xylenes
Concen: 0.748 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(APR)

Tgt Ion:106 Resp: 2974
Ion Ratio Lower Upper
106 100
91 215.2 157.0 235.4

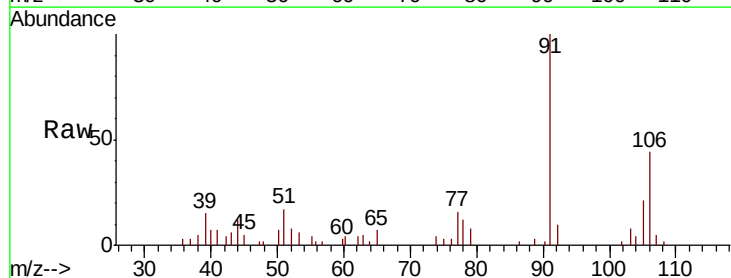


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

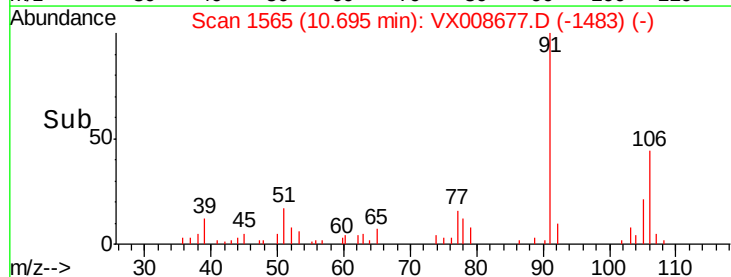
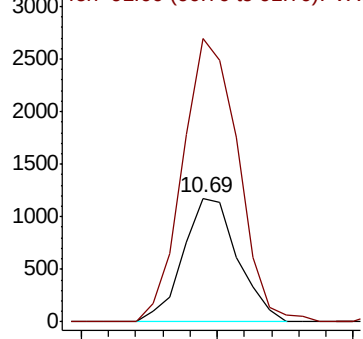


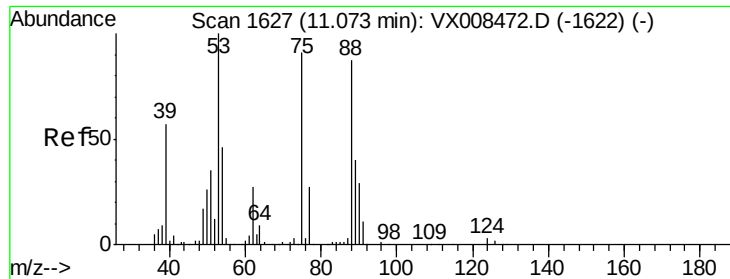
#68
o-Xylene
Concen: 0.420 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Tgt Ion:106 Resp: 1634
Ion Ratio Lower Upper
106 100
91 233.0 104.4 313.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

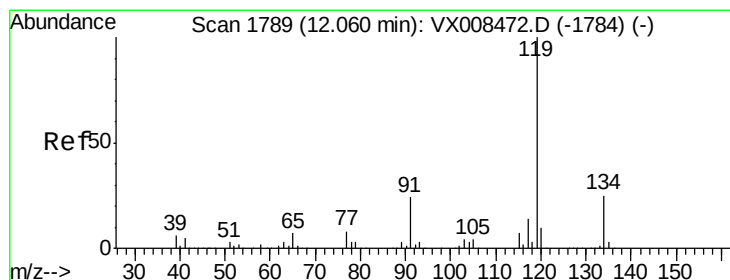
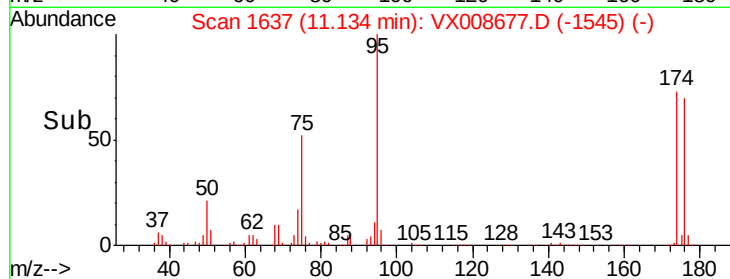
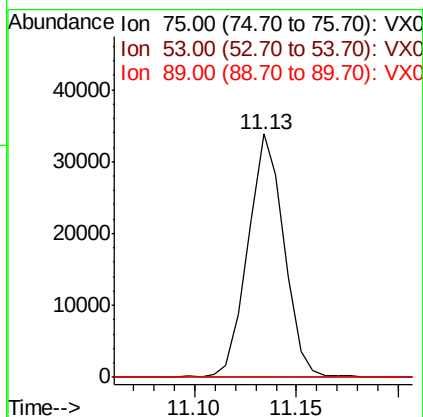
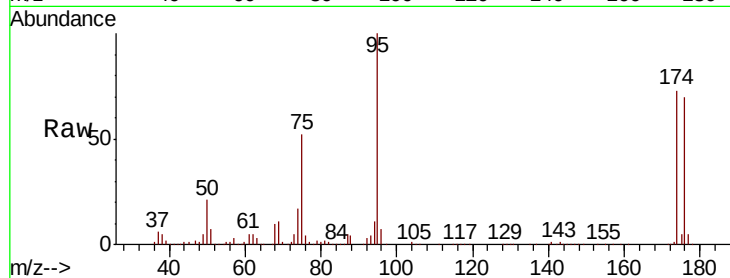




#77
t-1,4-Dichloro-2-butene
Concen: 33.465 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

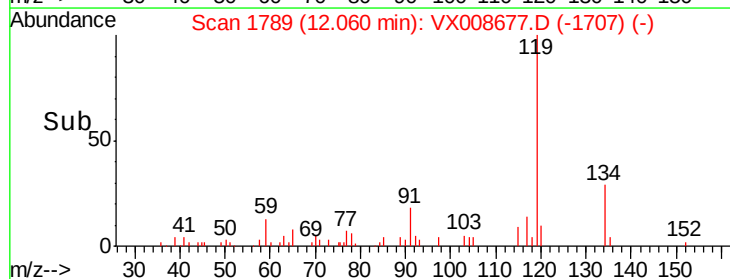
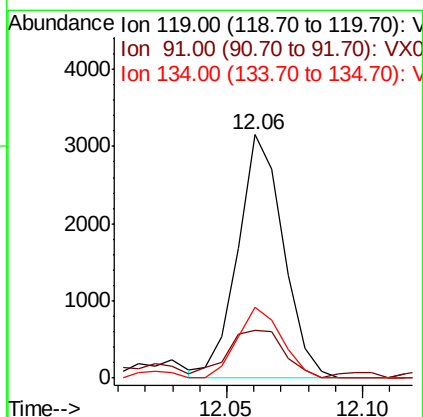
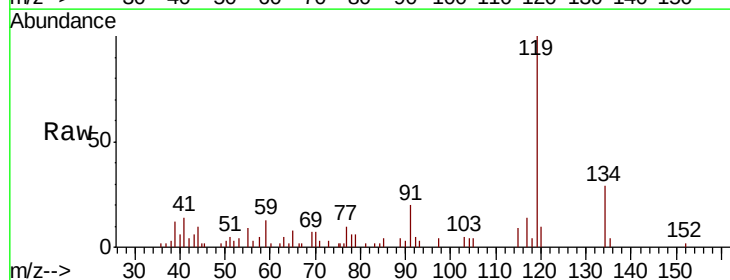
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(APR)

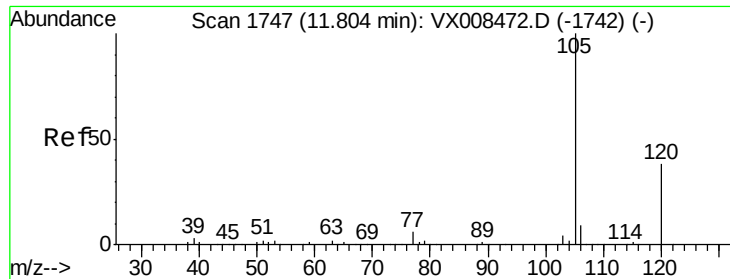
Tgt Ion: 75 Resp: 41618
Ion Ratio Lower Upper
75 100
53 0.0 55.5 166.7#
89 0.0 24.4 73.2#



#79
tert-butylbenzene
Concen: 0.409 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Tgt Ion: 119 Resp: 3667
Ion Ratio Lower Upper
119 100
91 24.9 0.0 45.0
134 28.3 0.0 55.4

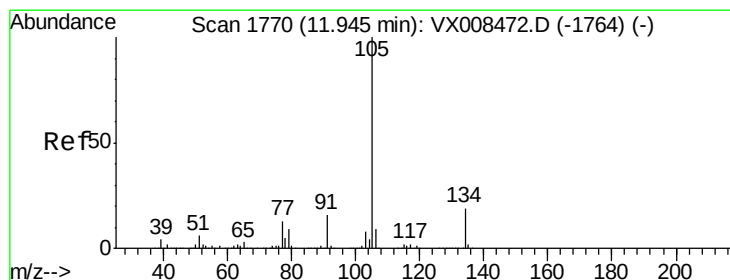
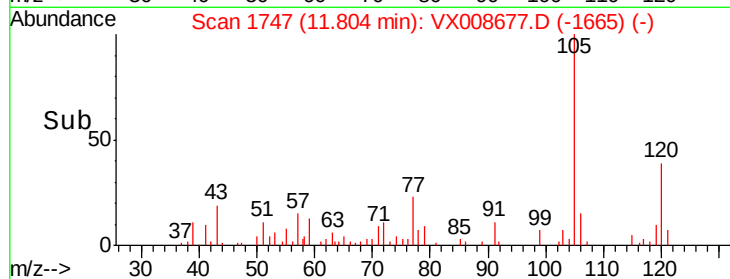
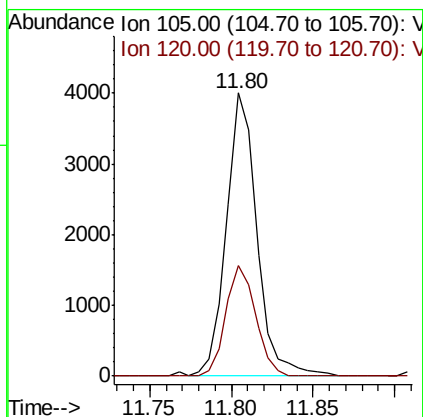
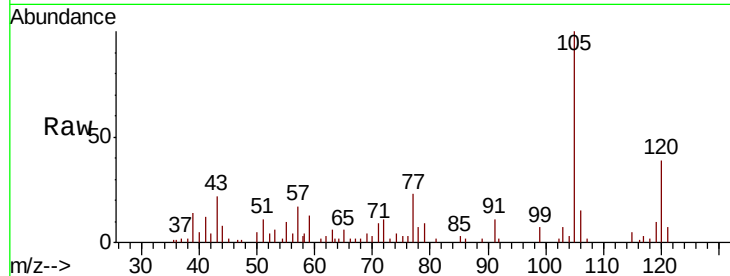




#80
1,2,4-Trimethylbenzene
Concen: 0.596 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

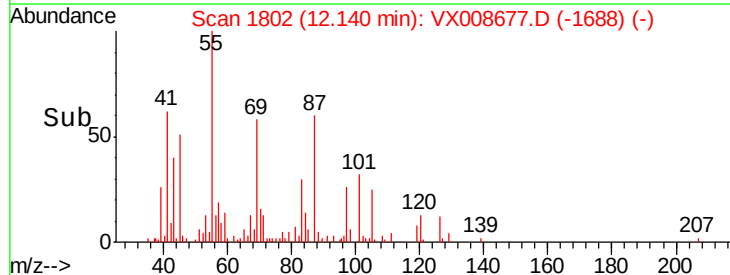
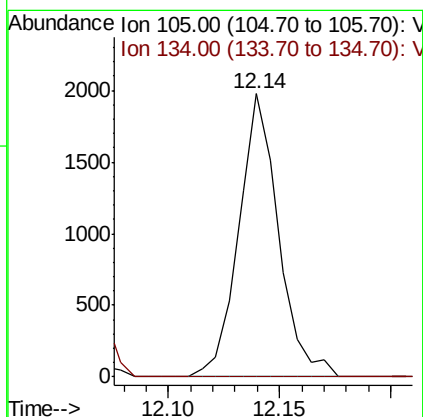
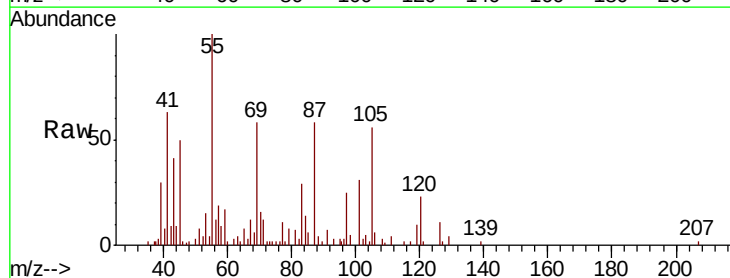
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(APR)

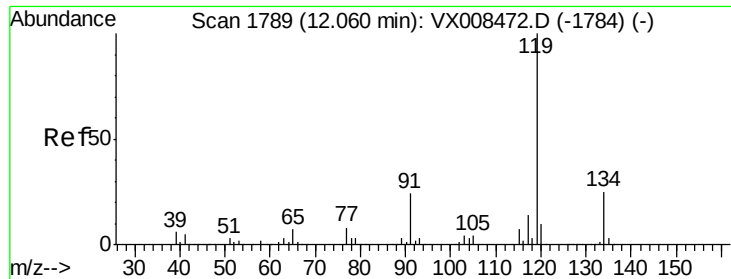
Tgt Ion:105 Resp: 5220
Ion Ratio Lower Upper
105 100
120 38.2 0.0 94.0



#81
sec-Butylbenzene
Concen: 0.246 ug/l
RT: 12.14 min Scan# 1802
Delta R.T. 0.20 min
Lab File: VX008677.D
Acq: 05 Apr 2019 12:11

Tgt Ion:105 Resp: 2463
Ion Ratio Lower Upper
105 100
134 4.5 0.0 41.8





#82
 p-Isopropyltoluene
 Concen: 0.409 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VX008677.D
 Acq: 05 Apr 2019 12:11

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(APR)

Tgt Ion	Resp	Lower	Upper
119	3667		
134	28.3	0.0	55.4
91	24.9	0.0	45.0

