

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041020\
 Data File : VX015620.D
 Acq On : 10 Apr 2020 14:48
 Operator : JC/SP
 Sample : L2210-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 400408742.3-VOA

Quant Time: Apr 11 02:05:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	185159	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	1031301	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	943165	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	451139	31.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.93%
60) 4-Bromofluorobenzene	11.12	95	488002	30.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.77%
63) Toluene-d8	8.70	98	1201078	29.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.90%

Target Compounds

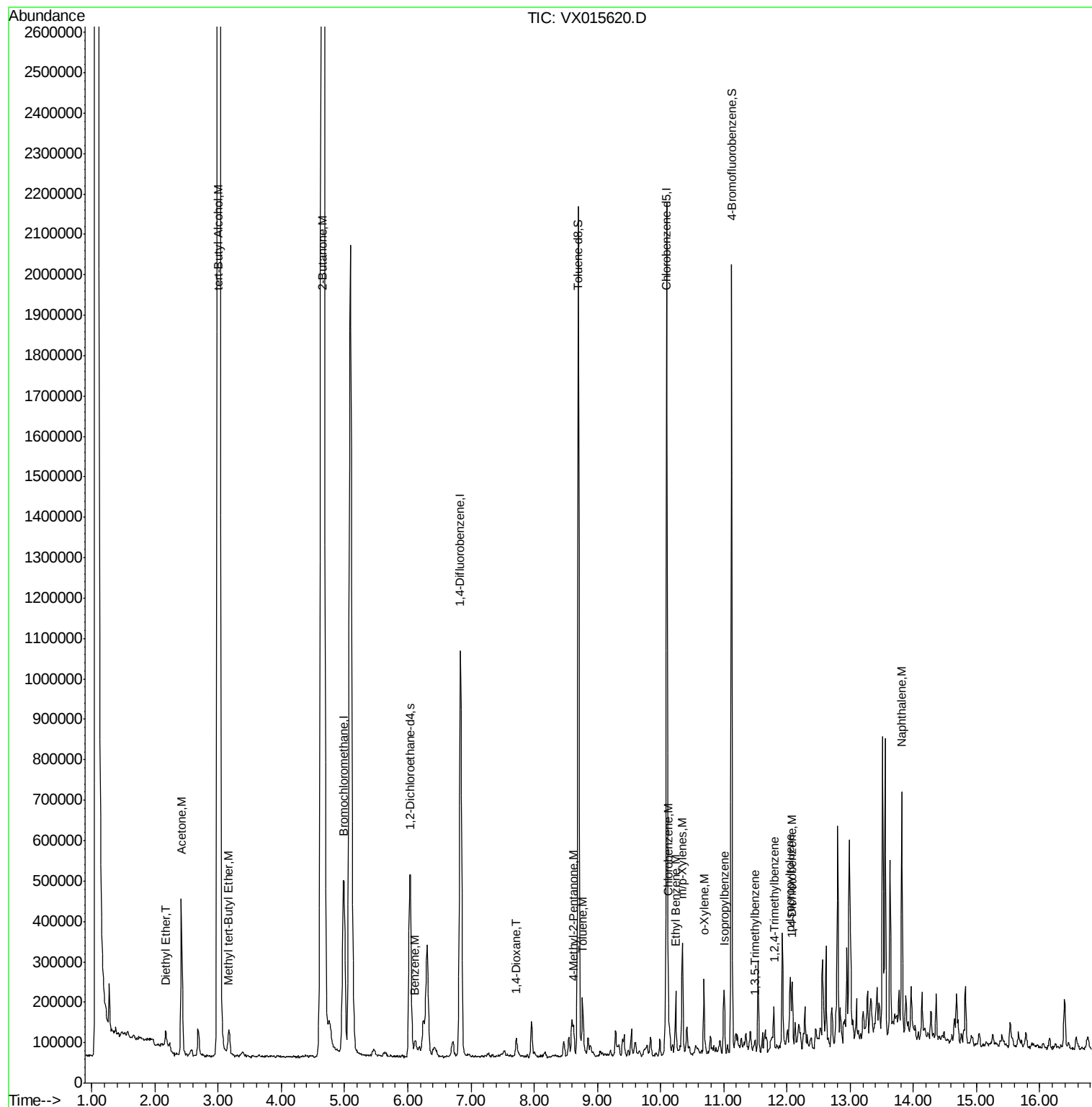
					Ovalue
8) Diethyl Ether	2.17	74	12262	2.124 ug/l	98
15) Acetone	2.42	58	106274	66.173 ug/l	87
23) tert-Butyl Alcohol	3.01	59	16773467	5399.207 ug/l	100
24) Methyl tert-Butyl Ether	3.17	73	69328	1.852 ug/l	100
30) 2-Butanone	4.65	43	763318	82.181 ug/l #	88
34) Benzene	6.12	78	49730	1.114 ug/l #	93
45) 1,4-Dioxane	7.71	88	33623	112.249 ug/l	96
58) 4-Methyl-2-Pentanone	8.62	43	38733	2.146 ug/l #	87
62) Toluene	8.77	91	82347	1.724 ug/l	98
64) Chlorobenzene	10.12	112	20087	0.654 ug/l	92
66) Ethyl Benzene	10.24	91	93199	1.708 ug/l	99
67) m/p-Xylenes	10.34	106	53802	2.605 ug/l	97
68) o-Xylene	10.68	106	36702	1.818 ug/l	96
70) Isopropylbenzene	11.01	105	81497	1.523 ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	13697	0.298 ug/l	94
80) 1,2,4-Trimethylbenzene	11.79	105	43397	0.932 ug/l	99
82) p-Isopropyltoluene	12.05	119	27454	0.553 ug/l	94
84) 1,4-Dichlorobenzene	12.08	146	50980	1.977 ug/l	99
91) Naphthalene	13.82	128	264522	4.499 ug/l	100

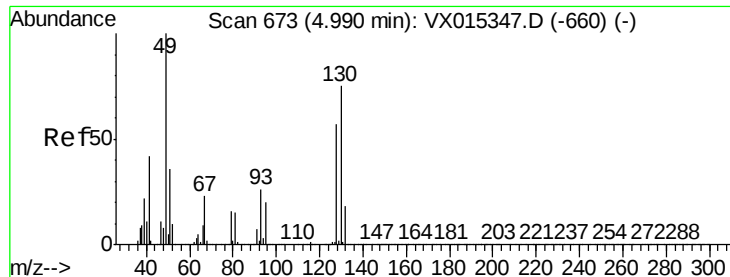
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 26 02:31:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 672

Delta R.T. -0.01 min

Lab File: VX015620.D

Acq: 10 Apr 2020 14:48

Instrument :

MSVOA_X

ClientSampleId :

400408742.3-VOA

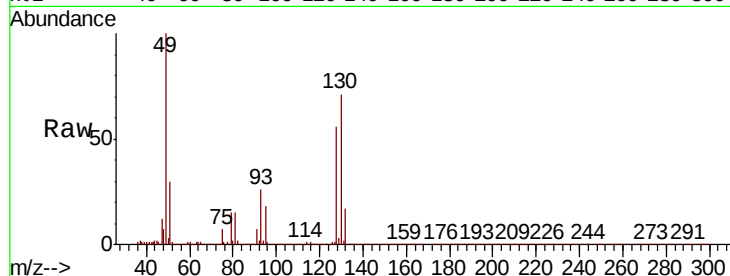
Tot Ion:128 Resp: 185159

Ion Ratio Lower Upper

128 100

49 172.1 0.0 428.0

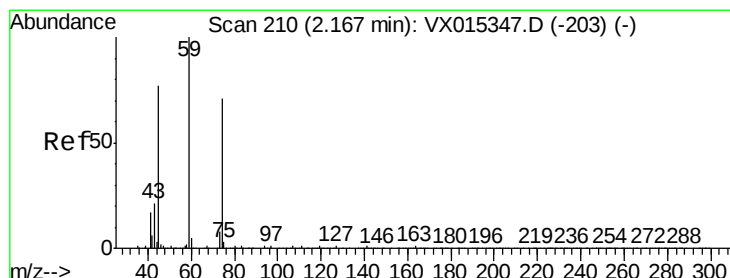
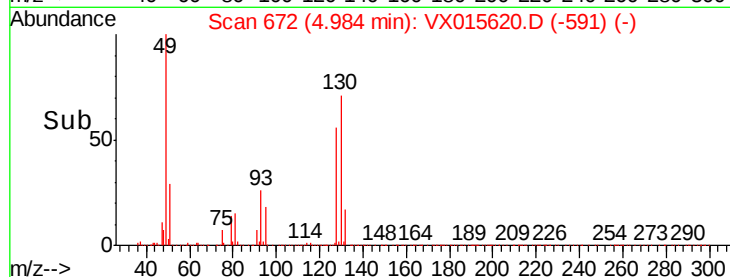
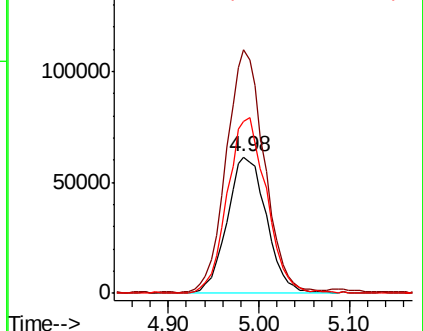
130 127.3 0.0 324.5



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



#8

Diethyl Ether

Concen: 2.124 ug/l

RT: 2.17 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX015620.D

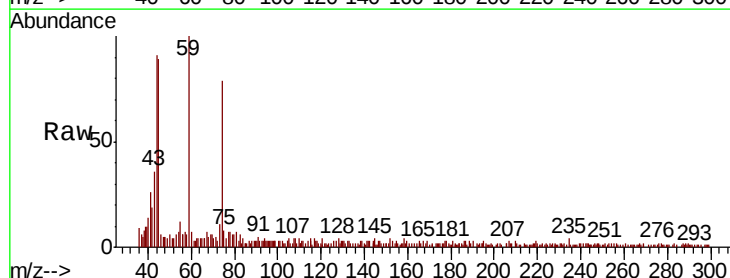
Acq: 10 Apr 2020 14:48

Tgt Ion: 74 Resp: 12262

Ion Ratio Lower Upper

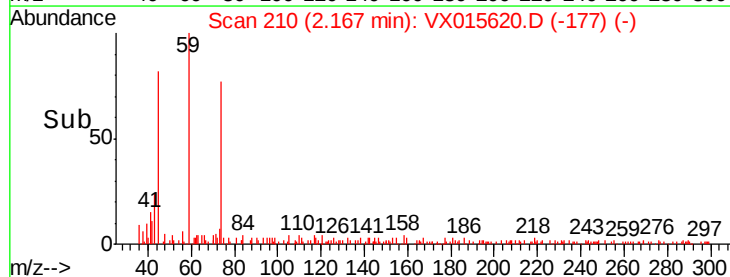
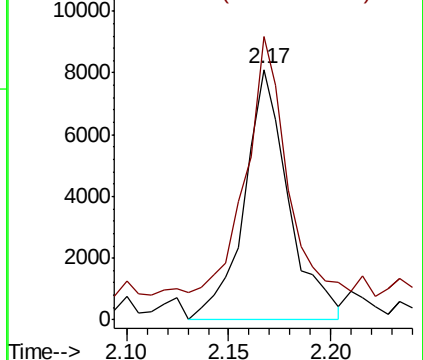
74 100

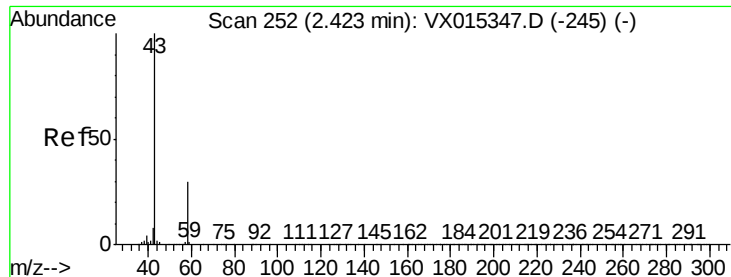
45 107.4 21.8 196.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

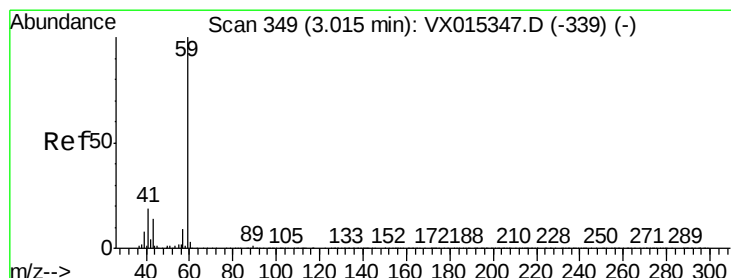
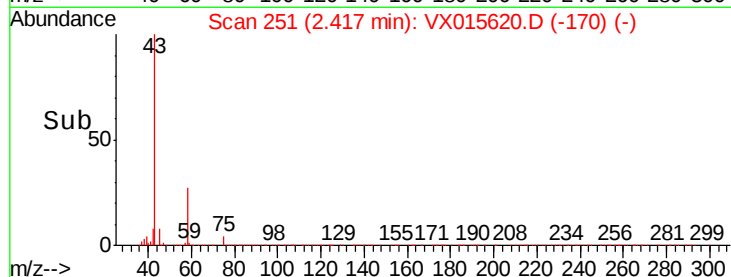
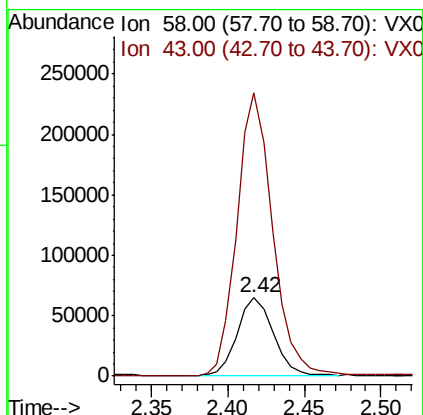
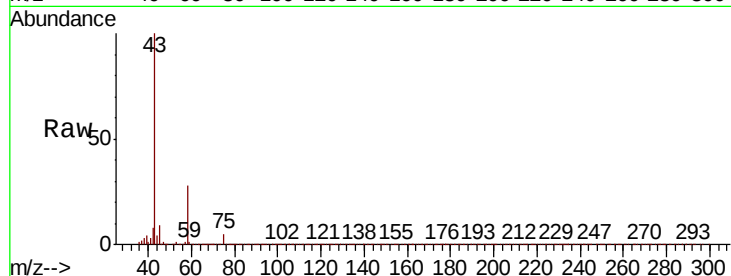




#15
Acetone
Concen: 66.173 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.01 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

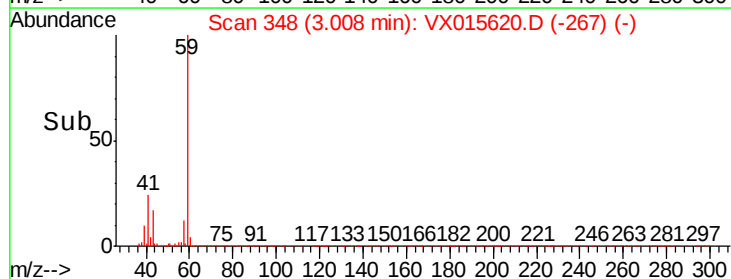
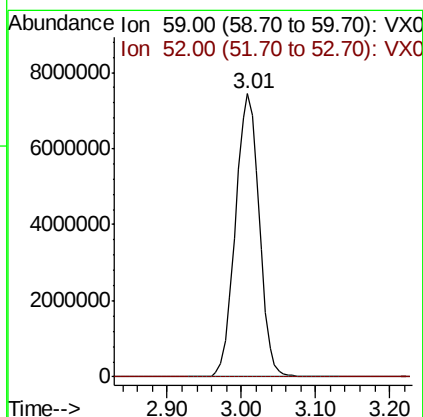
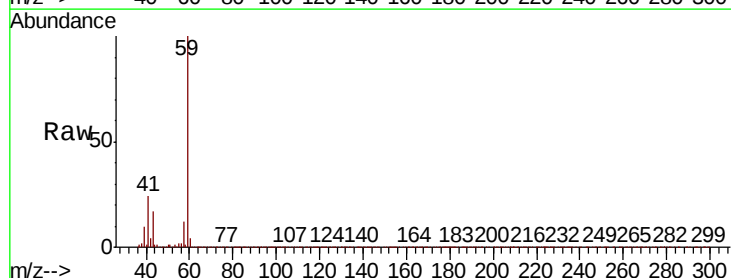
Instrument :
MSVOA_X
ClientSampleId :
400408742.3-VOA

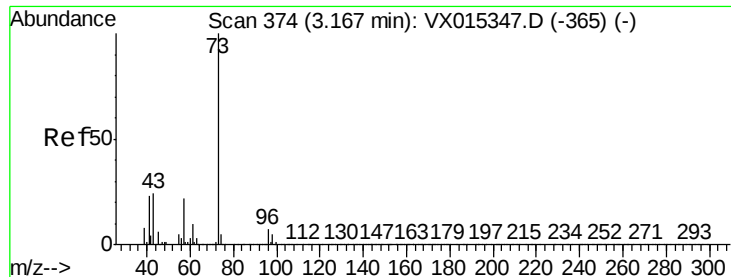
Tot Ion: 58 Resp: 106274
Ion Ratio Lower Upper
58 100
43 362.7 267.8 401.8



#23
tert-Butyl Alcohol
Concen: 5399.207 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.01 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

Tgt Ion: 59 Resp:16773467
Ion Ratio Lower Upper
59 100
52 0.2 0.2 0.2



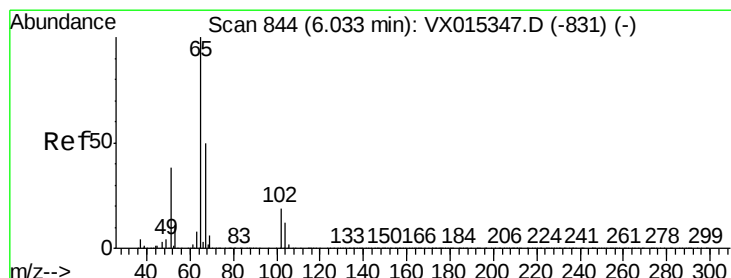
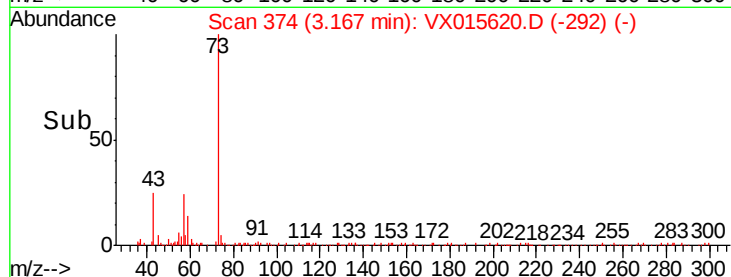
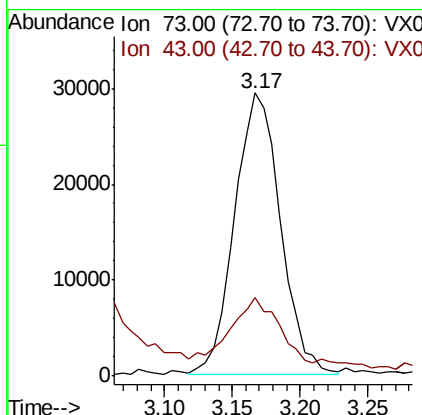
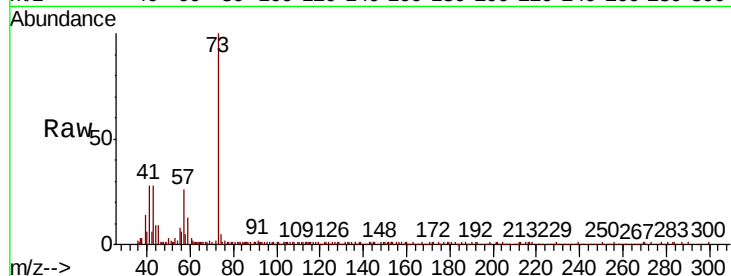


#24

Methyl tert-Butyl Ether
 Concen: 1.852 ug/l
 RT: 3.17 min Scan# 374
 Delta R.T. -0.00 min
 Lab File: VX015620.D
 Acq: 10 Apr 2020 14:48

Instrument :
 MSVOA_X
 ClientSampleId :
 400408742.3-VOA

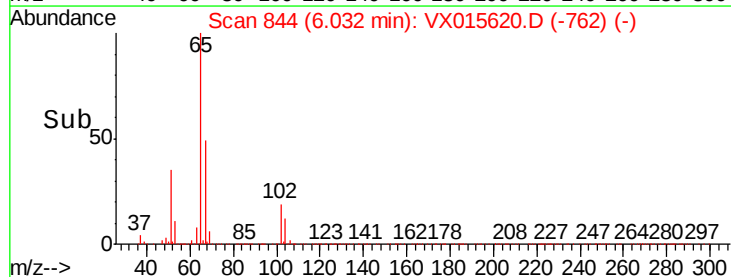
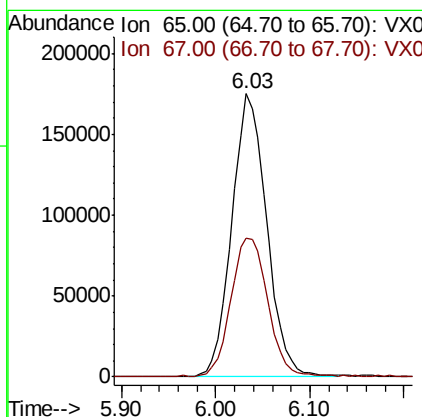
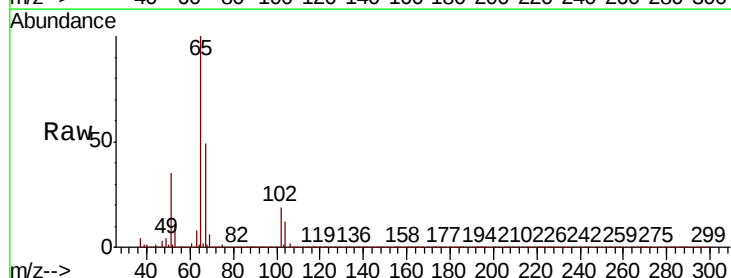
Tot Ion: 73 Resp: 69328
 Ion Ratio Lower Upper
 73 100
 43 24.2 19.2 28.8

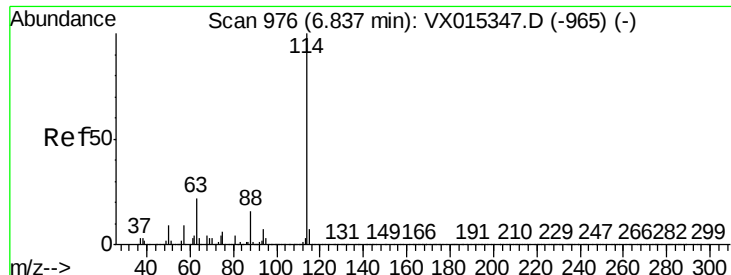


#27

1,2-Dichloroethane-d4
 Concen: 31.180 ug/l
 RT: 6.03 min Scan# 844
 Delta R.T. -0.00 min
 Lab File: VX015620.D
 Acq: 10 Apr 2020 14:48

Tgt Ion: 65 Resp: 451139
 Ion Ratio Lower Upper
 65 100
 67 51.8 40.9 61.3

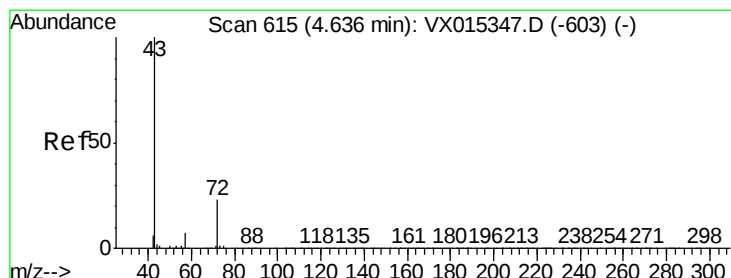
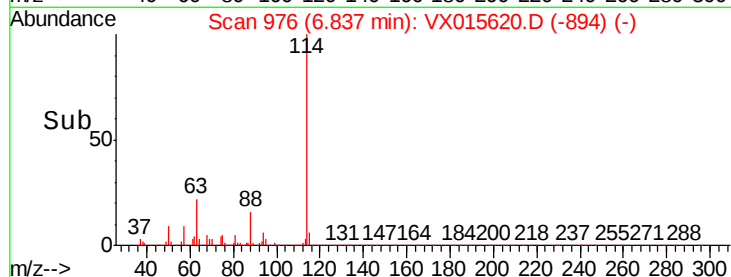
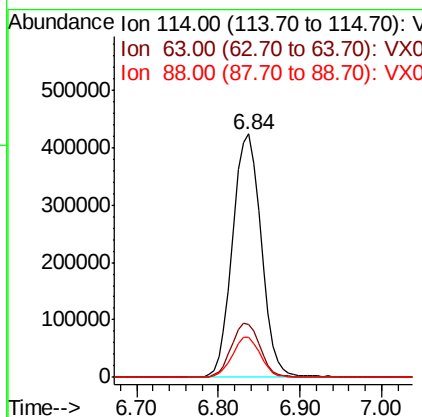
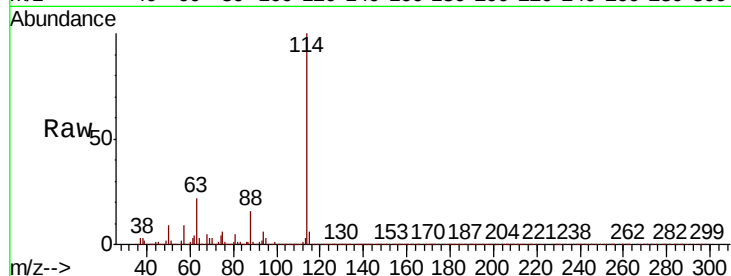




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.84 min Scan# 976
 Delta R.T. -0.00 min
 Lab File: VX015620.D
 Acq: 10 Apr 2020 14:48

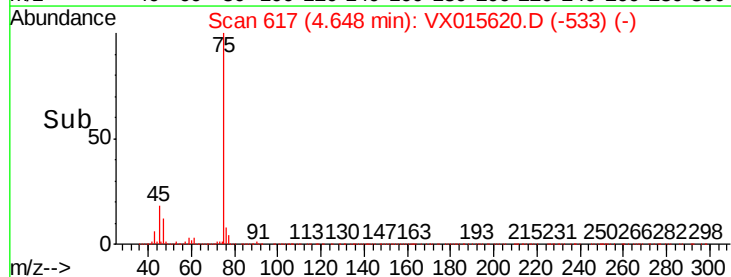
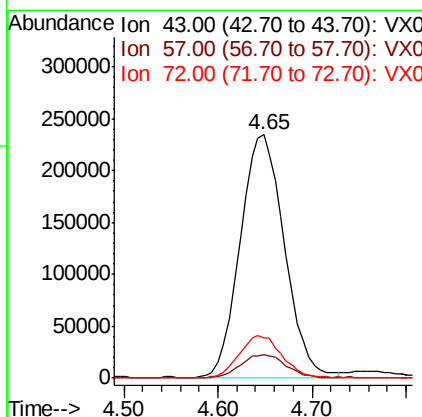
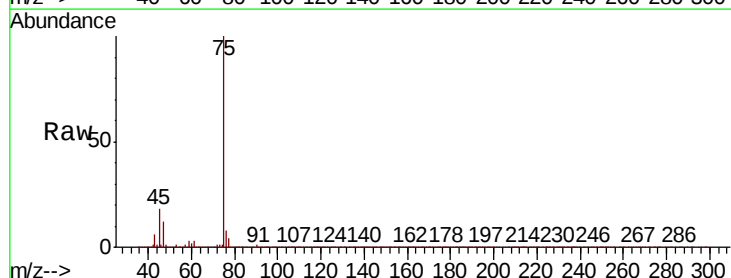
Instrument :
 MSVOA_X
 ClientSampleId :
 400408742.3-VOA

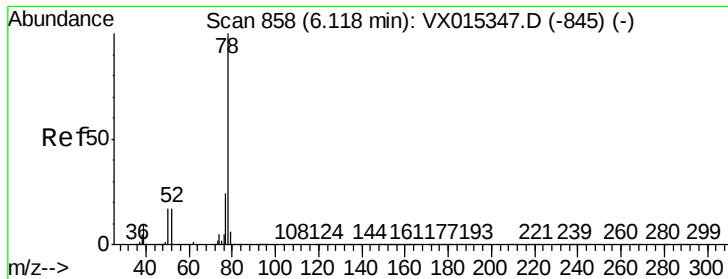
Tot Ion:114 Resp: 1031301
 Ion Ratio Lower Upper
 114 100
 63 21.8 17.4 26.2
 88 15.9 12.9 19.3



#30
 2-Butanone
 Concen: 82.181 ug/l
 RT: 4.65 min Scan# 617
 Delta R.T. 0.01 min
 Lab File: VX015620.D
 Acq: 10 Apr 2020 14:48

Tgt Ion: 43 Resp: 763318
 Ion Ratio Lower Upper
 43 100
 57 9.7 5.9 8.9#
 72 16.3 18.6 27.8#





#34

Benzene

Concen: 1.114 ug/l

RT: 6.12 min Scan# 858

Delta R.T. -0.00 min

Lab File: VX015620.D

Acq: 10 Apr 2020 14:48

Instrument :

MSVOA_X

ClientSampleId :

400408742.3-VOA

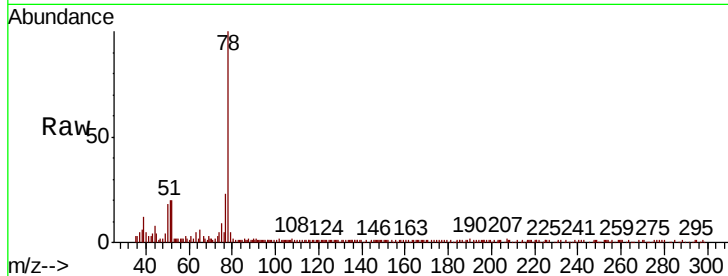
Tot Ion: 78 Resp: 49730

Ion Ratio Lower Upper

78 100

77 22.1 19.4 29.2

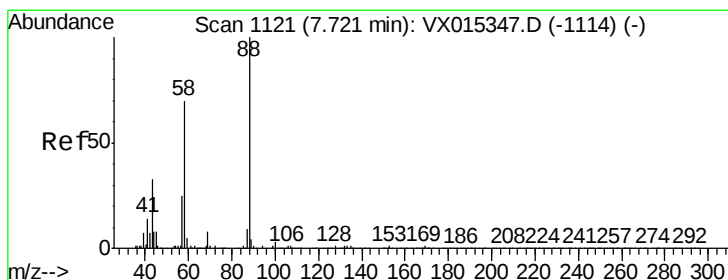
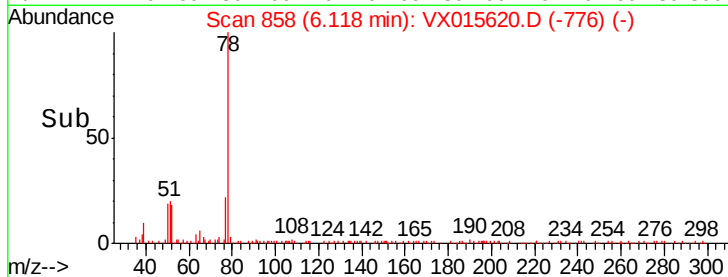
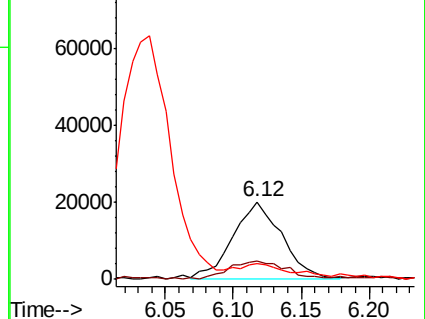
51 13.4 14.6 21.8#



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



#45

1,4-Dioxane

Concen: 112.249 ug/l

RT: 7.71 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VX015620.D

Acq: 10 Apr 2020 14:48

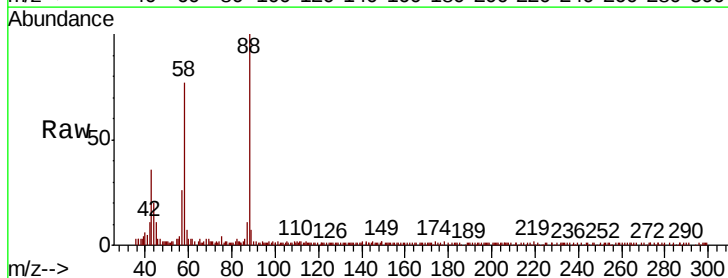
Tgt Ion: 88 Resp: 33623

Ion Ratio Lower Upper

88 100

43 33.0 32.1 48.1

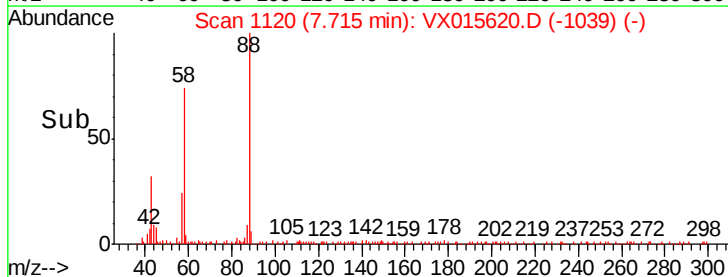
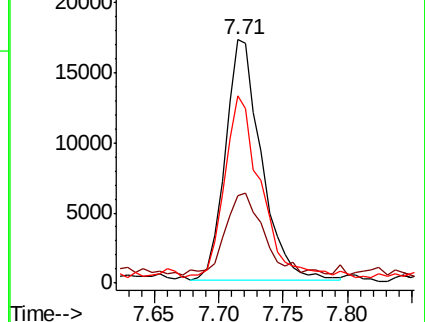
58 74.7 59.4 89.0

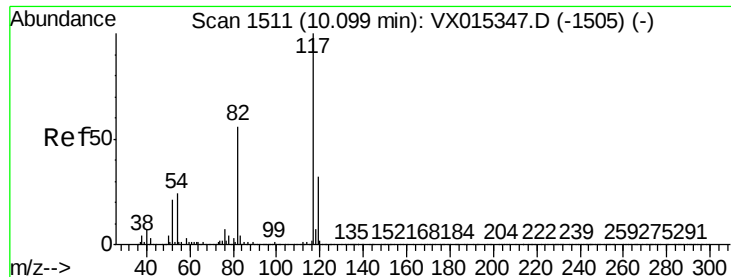


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

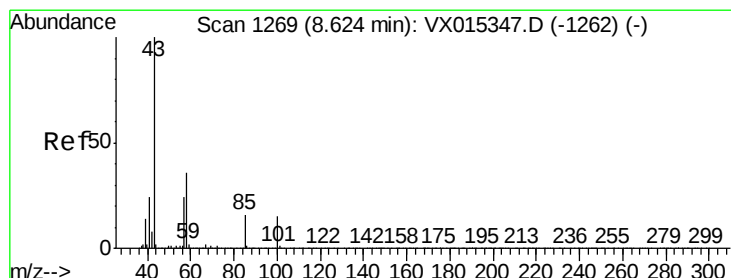
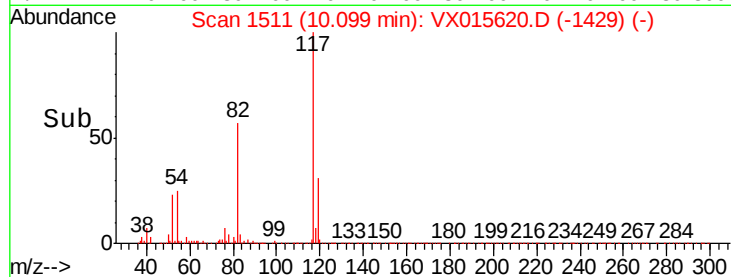
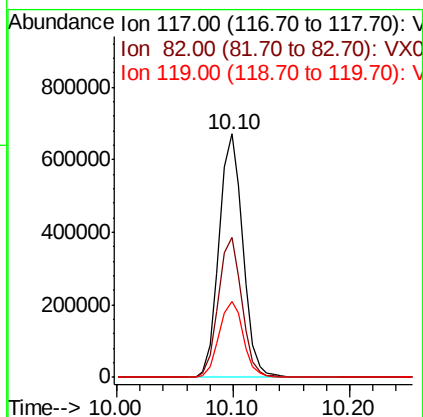
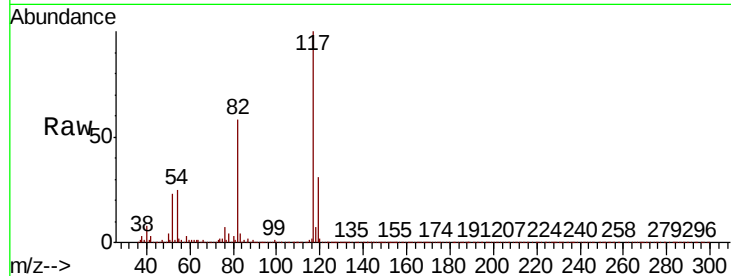




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

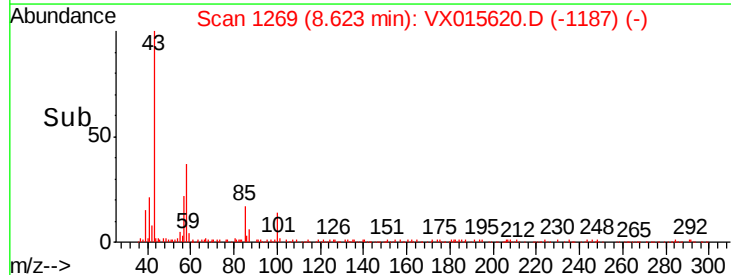
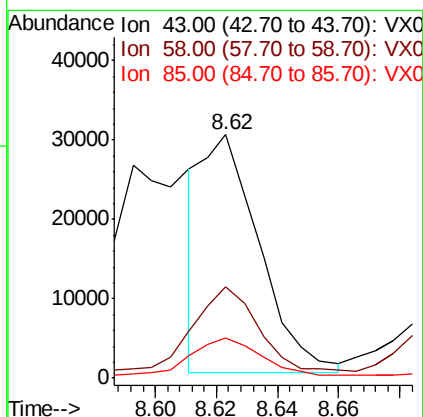
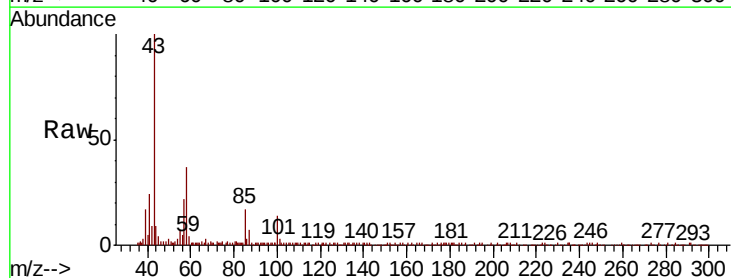
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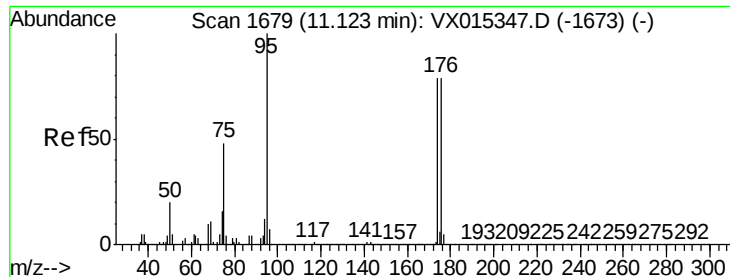
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.0	67.6
119	31.7	25.5	38.3



#58
4-Methyl-2-Pentanone
Concen: 2.146 ug/l
RT: 8.62 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.6	29.4	44.0
85	22.4	13.0	19.4

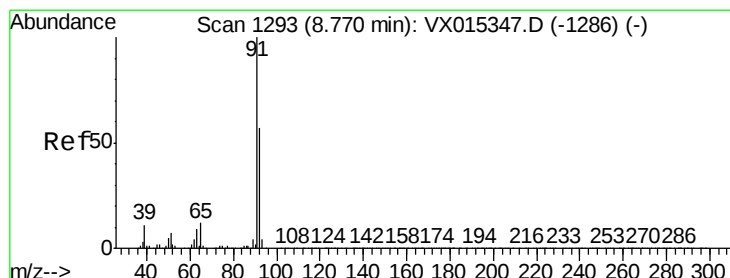
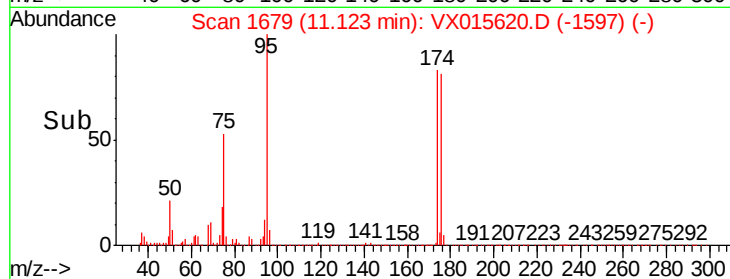
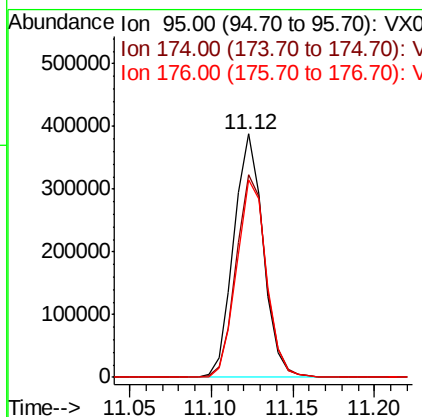
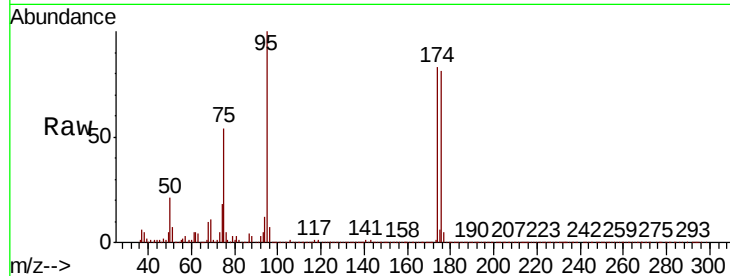




#60
4-Bromofluorobenzene
Concen: 30.233 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

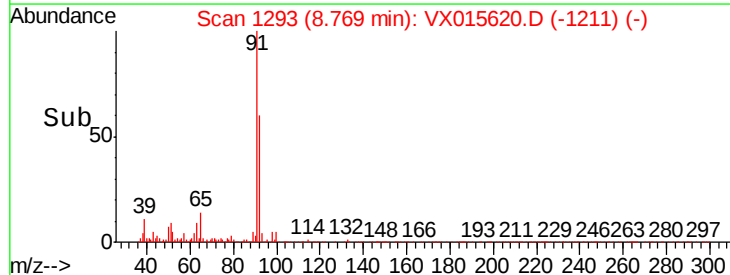
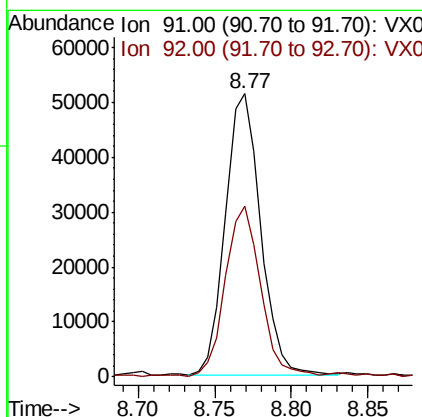
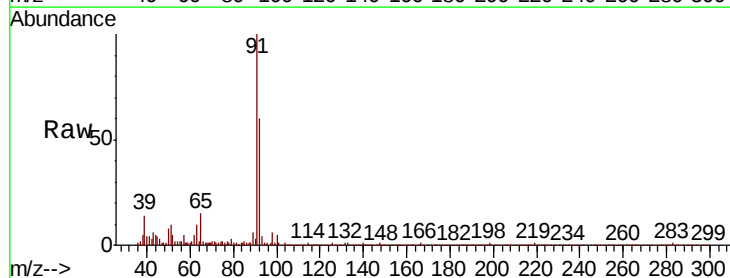
Instrument :
MSVOA_X
ClientSampleId :
400408742.3-VOA

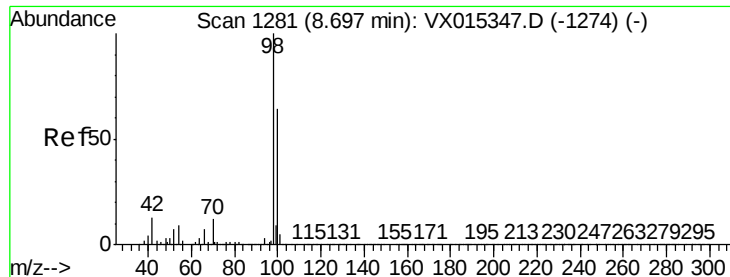
Tot Ion	Ratio	Lower	Upper
95	100		
174	84.5	66.4	99.6
176	82.4	64.1	96.1



#62
Toluene
Concen: 1.724 ug/l
RT: 8.77 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.6	46.7	70.1





#63

Toluene-d8

Concen: 29.973 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015620.D

Acq: 10 Apr 2020 14:48

Instrument :

MSVOA_X

ClientSampleId :

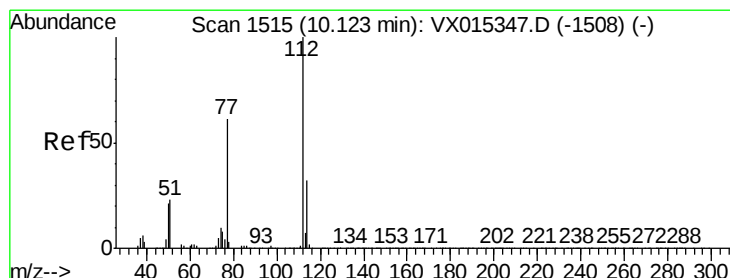
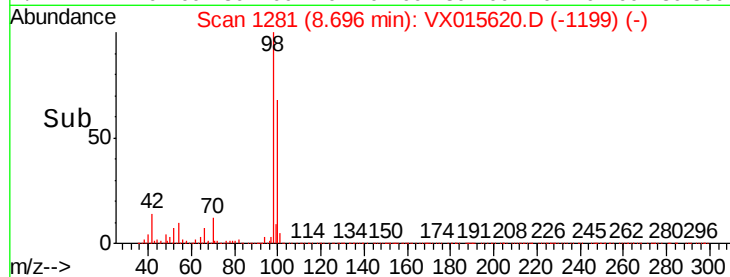
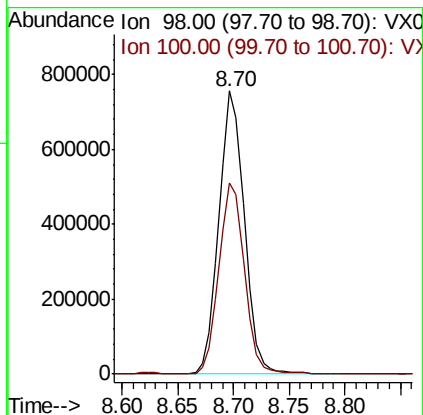
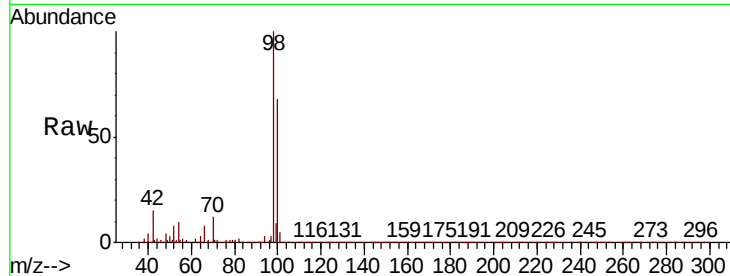
400408742.3-VOA

Tot Ion: 98 Resp: 1201078

Ion Ratio Lower Upper

98 100

100 67.3 52.2 78.2



#64

Chlorobenzene

Concen: 0.654 ug/l

RT: 10.12 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VX015620.D

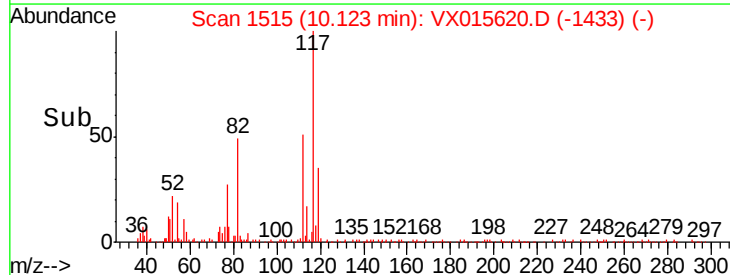
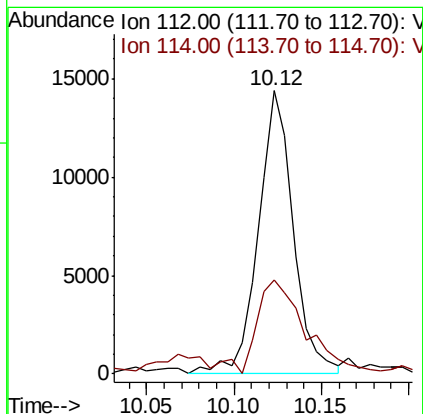
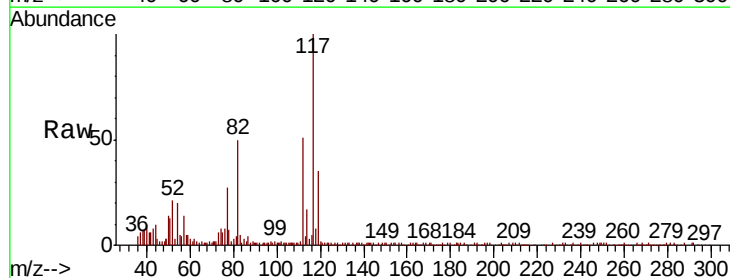
Acq: 10 Apr 2020 14:48

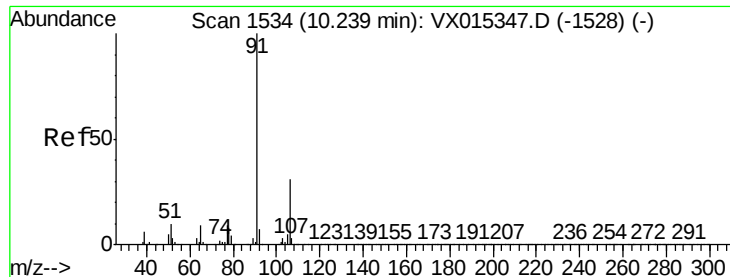
Tgt Ion: 112 Resp: 20087

Ion Ratio Lower Upper

112 100

114 27.8 25.8 38.8





#66

Ethyl Benzene

Concen: 1.708 ug/l

RT: 10.24 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VX015620.D

Acq: 10 Apr 2020 14:48

Instrument :

MSVOA_X

ClientSampleId :

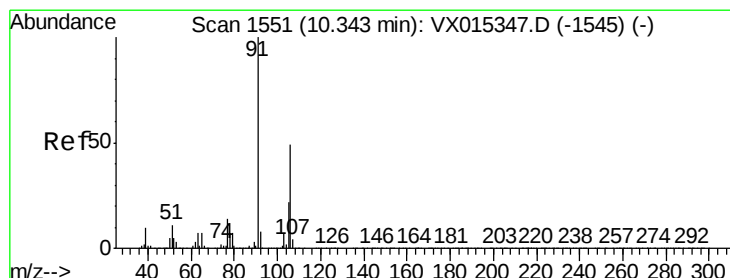
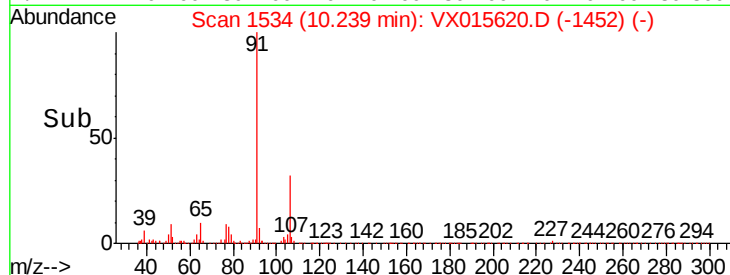
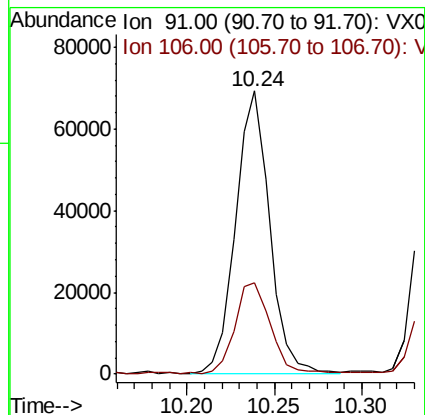
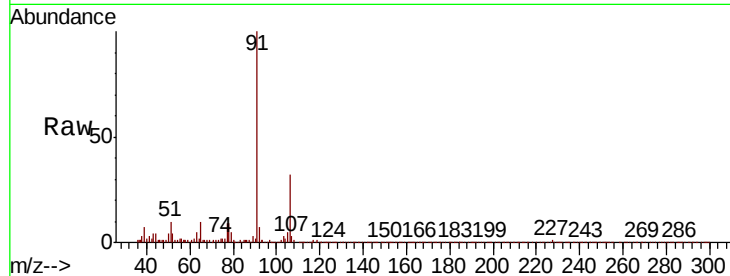
400408742.3-VOA

Tot Ion: 91 Resp: 93199

Ion Ratio Lower Upper

91 100

106 31.9 25.0 37.6



#67

m/p-Xylenes

Concen: 2.605 ug/l

RT: 10.34 min Scan# 1551

Delta R.T. -0.00 min

Lab File: VX015620.D

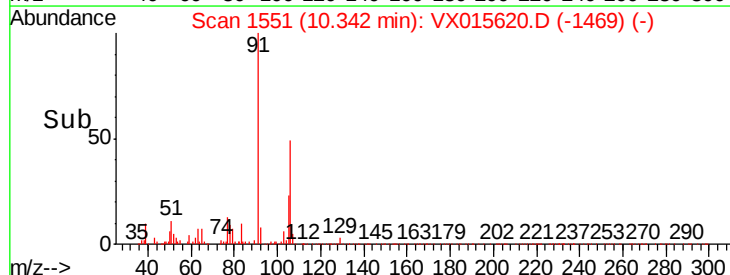
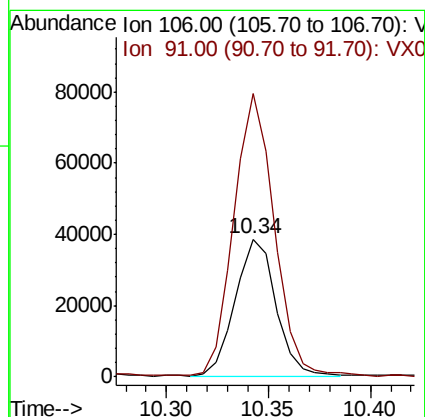
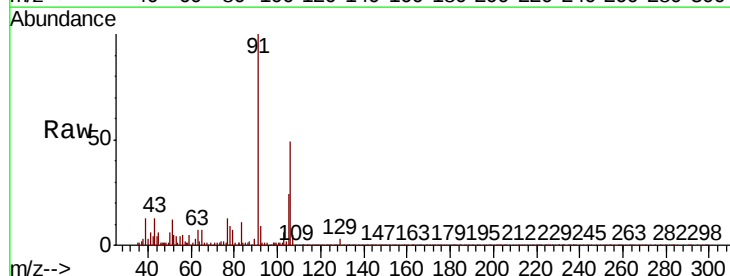
Acq: 10 Apr 2020 14:48

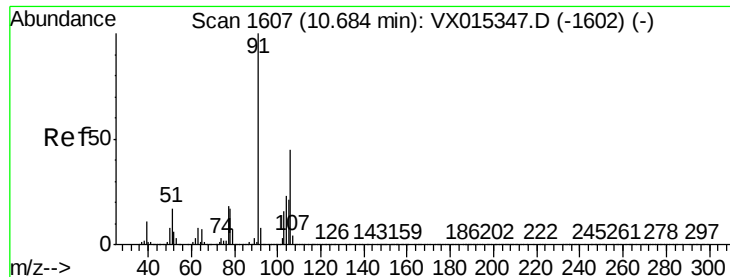
Tgt Ion: 106 Resp: 53802

Ion Ratio Lower Upper

106 100

91 201.7 165.0 247.4

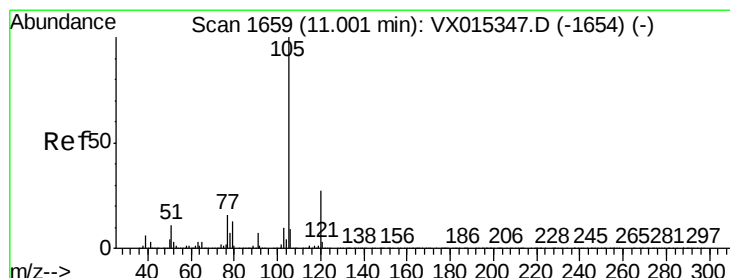
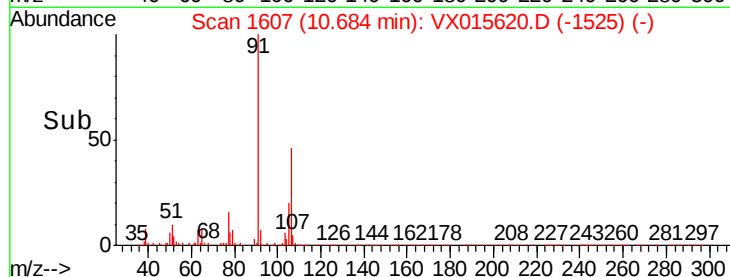
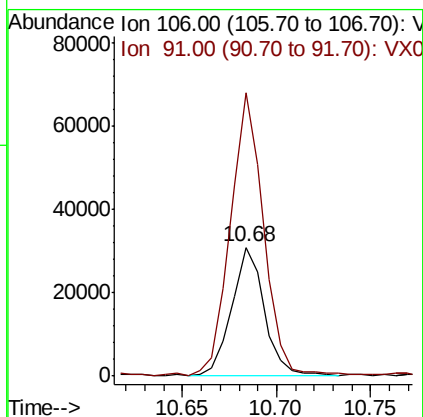
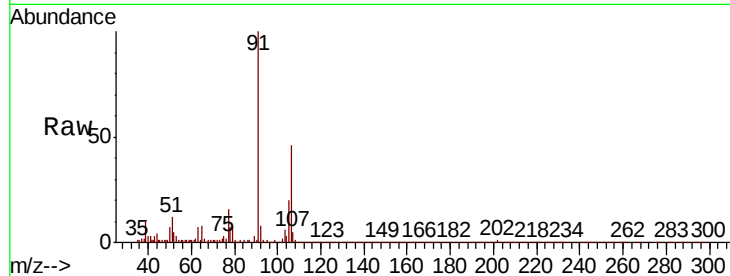




#68
o-Xylene
Concen: 1.818 ug/l
RT: 10.68 min Scan# 1607
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

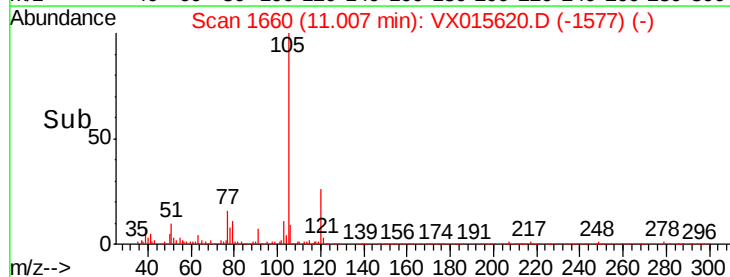
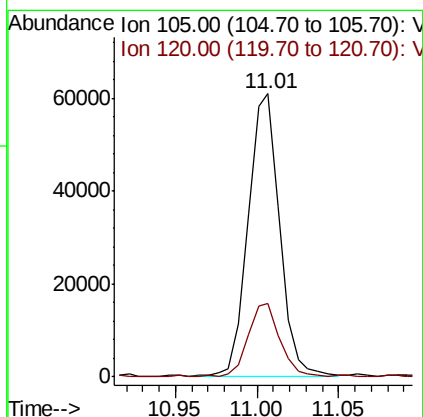
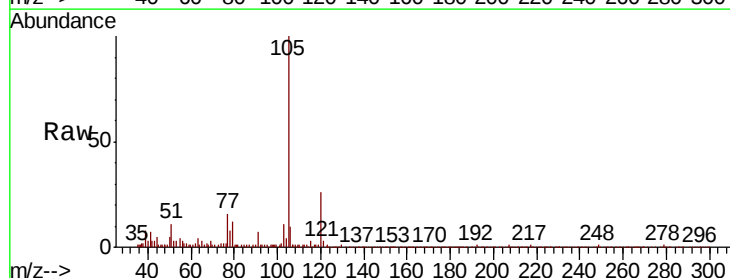
Instrument :
MSVOA_X
ClientSampleId :
400408742.3-VOA

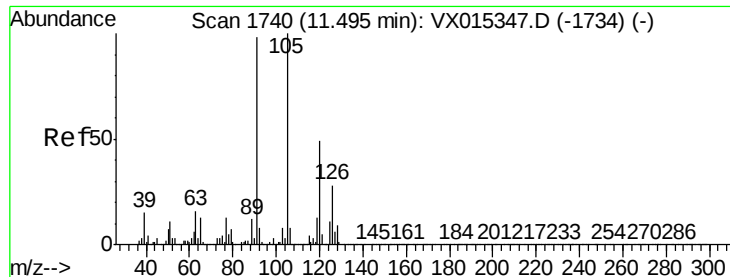
Tot Ion:106 Resp: 36702
Ion Ratio Lower Upper
106 100
91 224.2 109.1 327.2



#70
Isopropylbenzene
Concen: 1.523 ug/l
RT: 11.01 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

Tgt Ion:105 Resp: 81497
Ion Ratio Lower Upper
105 100
120 25.9 18.8 34.8





#76

1,3,5-Trimethylbenzene

Concen: 0.298 ug/l

RT: 11.49 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VX015620.D

Acq: 10 Apr 2020 14:48

Instrument :

MSVOA_X

ClientSampleId :

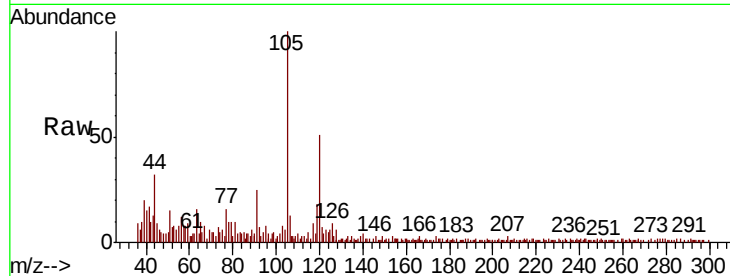
400408742.3-VOA

Tot Ion:105 Resp: 13697

Ion Ratio Lower Upper

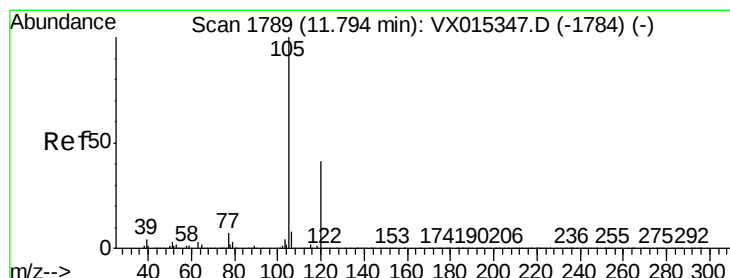
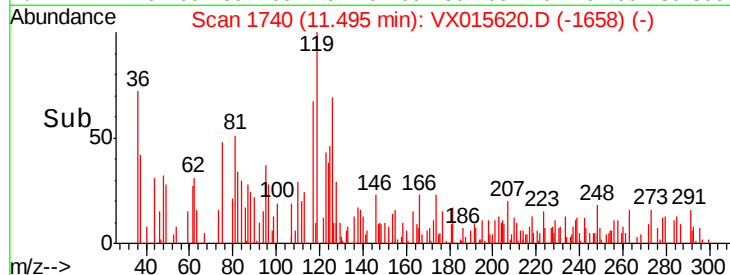
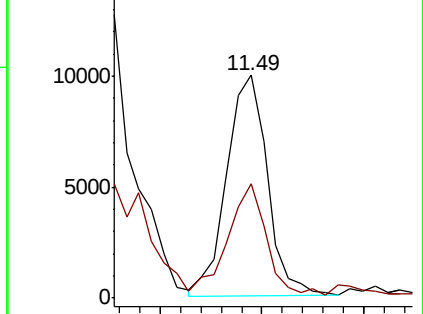
105 100

120 44.6 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.932 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX015620.D

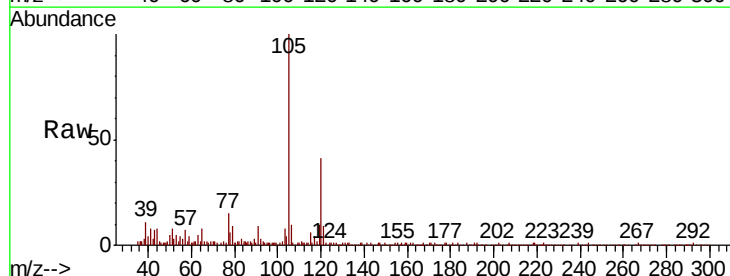
Acq: 10 Apr 2020 14:48

Tgt Ion:105 Resp: 43397

Ion Ratio Lower Upper

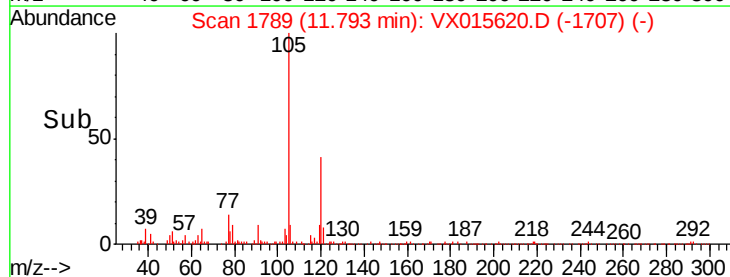
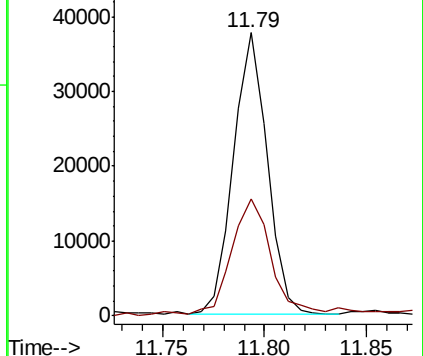
105 100

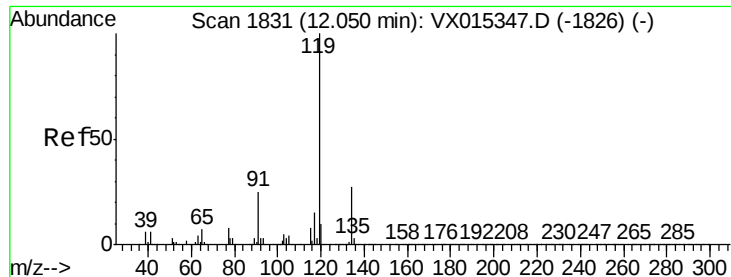
120 46.1 0.0 91.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

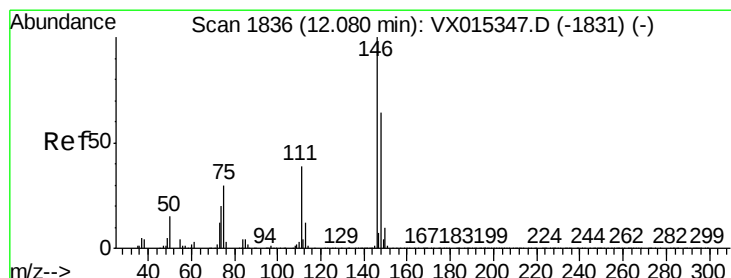
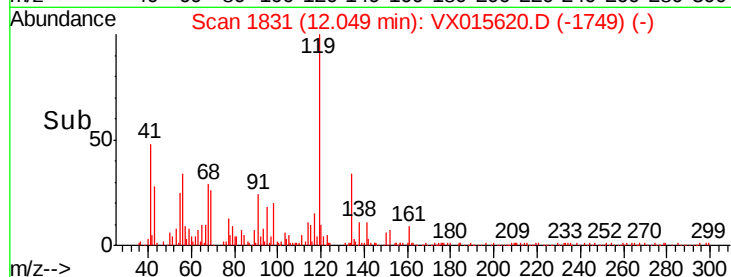
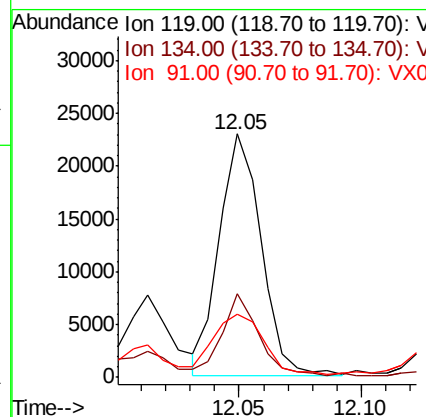
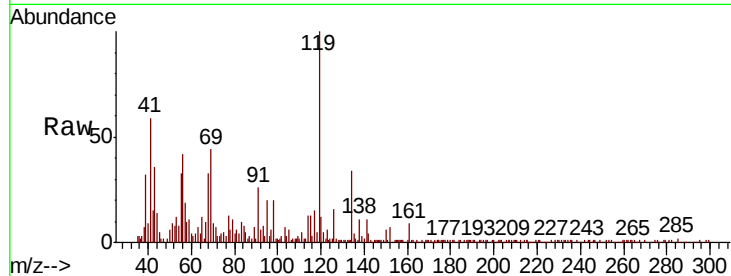




#82
p-Isopropyltoluene
Concen: 0.553 ug/l
RT: 12.05 min Scan# 1831
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

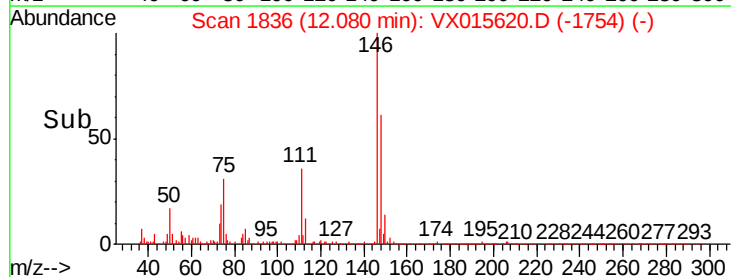
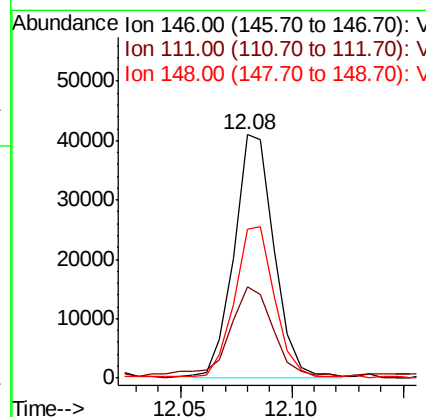
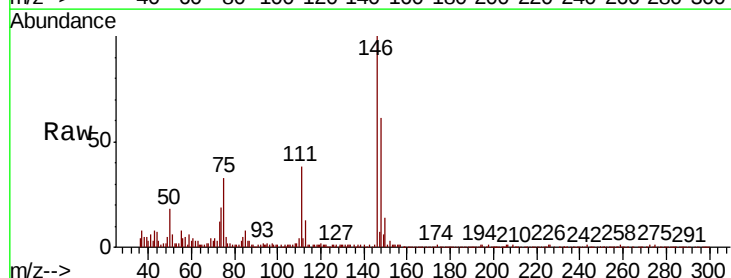
Instrument :
MSVOA_X
ClientSampleId :
400408742.3-VOA

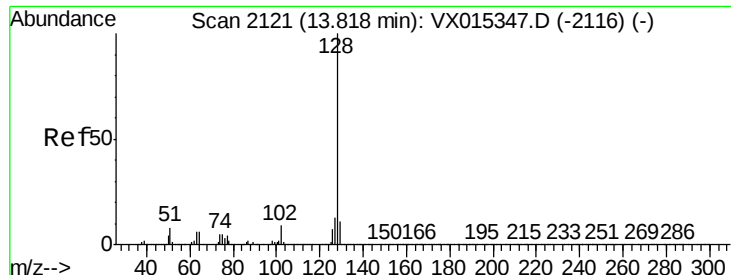
Tot Ion	Ratio	Lower	Upper
119	100		
134	28.3	0.0	53.2
91	28.5	0.0	48.2



#84
1,4-Dichlorobenzene
Concen: 1.977 ug/l
RT: 12.08 min Scan# 1836
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	18.9	56.9
148	62.4	31.4	94.3





#91
Naphthalene
Concen: 4.499 ug/l
RT: 13.82 min Scan# 2121
Delta R.T. -0.00 min
Lab File: VX015620.D
Acq: 10 Apr 2020 14:48

Instrument :
MSVOA_X
ClientSampleId :
400408742.3-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.3	8.9	13.3

