

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016118.D
 Acq On : 08 May 2020 14:10
 Operator : JC/SP
 Sample : L2511-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 09 01:42:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	49944	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	277038	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	251099	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	109674	28.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.23%
60) 4-Bromofluorobenzene	11.12	95	122635	29.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.07%
63) Toluene-d8	8.70	98	330435	30.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.27%

Target Compounds

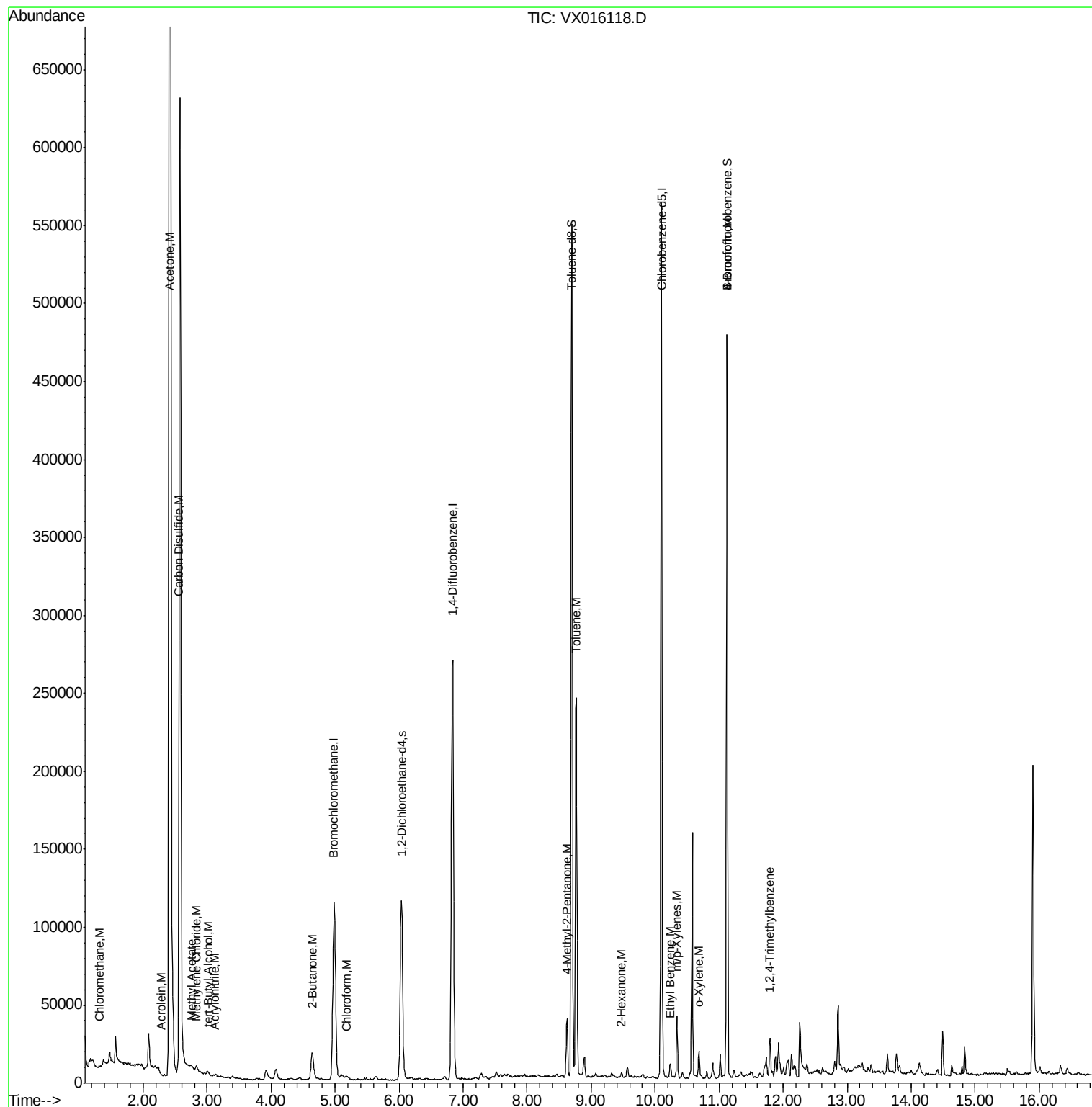
					Ovalue
3) Chloromethane	1.31	50	726	0.215	ug/l 89
12) Methyl Acetate	2.75	43	2391	0.479	ug/l # 69
13) Acrolein	2.29	56	113	0.282	ug/l 93
14) Acrylonitrile	3.11	53	388	0.211	ug/l 84
15) Acetone	2.42	58	1108561	2272.711	ug/l 83
16) Carbon Disulfide	2.56	76	8280	0.952	ug/l 100
18) Methylene Chloride	2.84	84	1221	0.381	ug/l 95
23) tert-Butyl Alcohol	3.01	59	1961	2.174	ug/l # 100
25) Chloroform	5.18	83	2115	0.365	ug/l # 83
30) 2-Butanone	4.64	43	25800	9.937	ug/l 99
56) Bromoform	11.12	173	986	0.360	ug/l # 1
58) 4-Methyl-2-Pentanone	8.62	43	21426	4.327	ug/l 96
59) 2-Hexanone	9.48	43	1708	0.447	ug/l # 95
62) Toluene	8.77	91	155668	11.604	ug/l 99
66) Ethyl Benzene	10.24	91	5449	0.357	ug/l 92
67) m/p-Xylenes	10.34	106	8848	1.520	ug/l 99
68) o-Xylene	10.68	106	3604	0.642	ug/l 91
80) 1,2,4-Trimethylbenzene	11.79	105	6817	0.531	ug/l 56

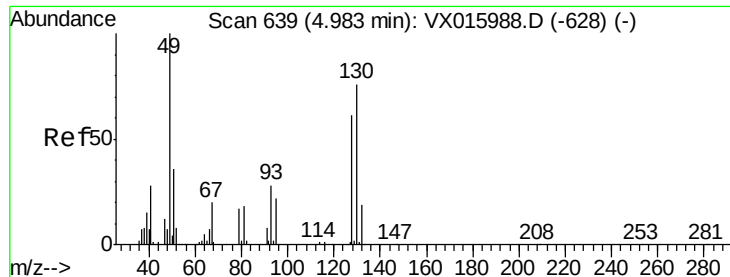
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 09 01:42:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
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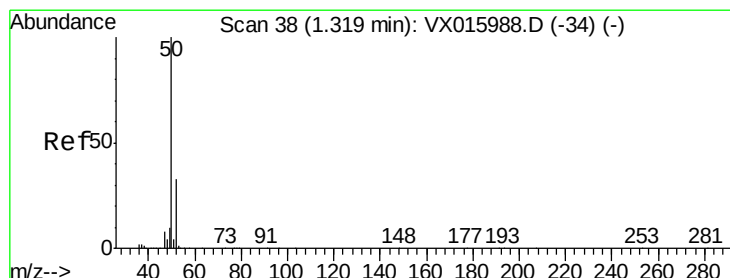
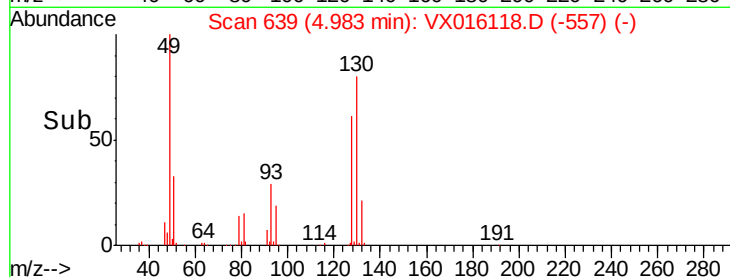
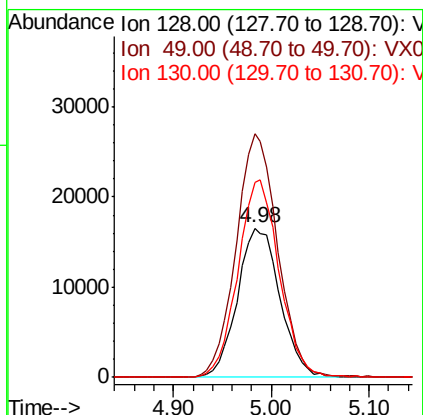
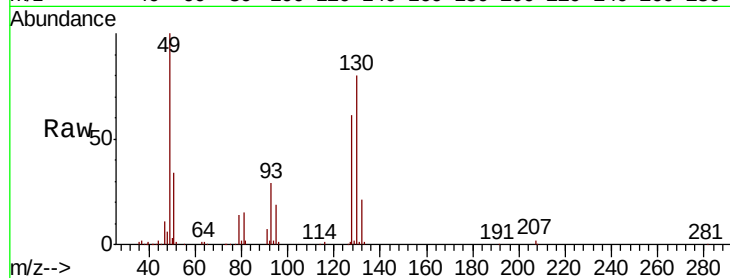




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.98 min Scan# 639
Delta R.T. 0.00 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

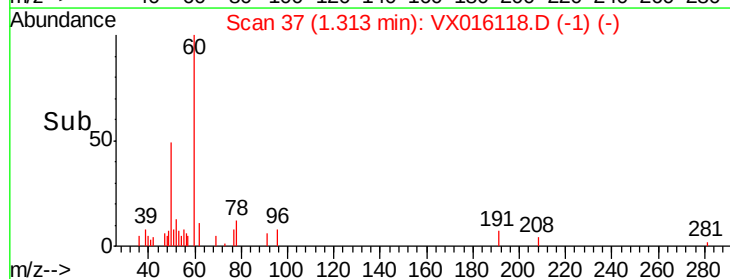
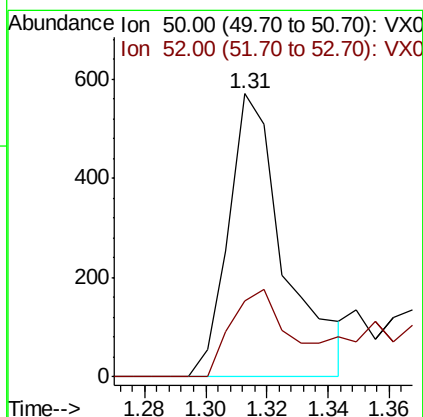
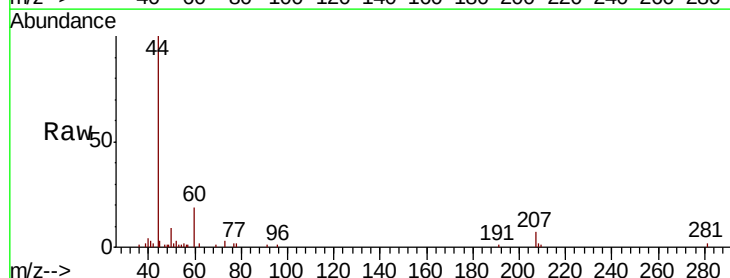
Instrument :
MSVOA_X
ClientSampleId :

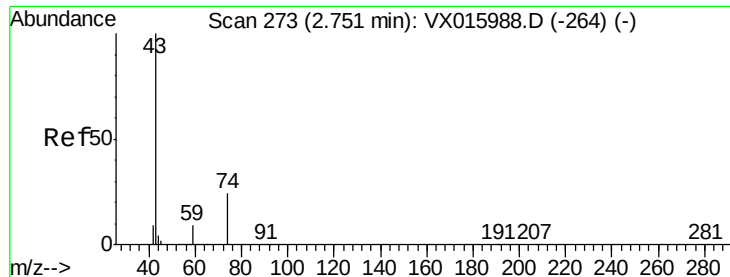
Tot Ion:128 Resp: 49944
Ion Ratio Lower Upper
128 100
49 159.8 0.0 418.5
130 128.2 0.0 326.3



#3
Chloromethane
Concen: 0.215 ug/l
RT: 1.31 min Scan# 37
Delta R.T. -0.01 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Tgt Ion: 50 Resp: 726
Ion Ratio Lower Upper
50 100
52 27.0 26.5 39.7

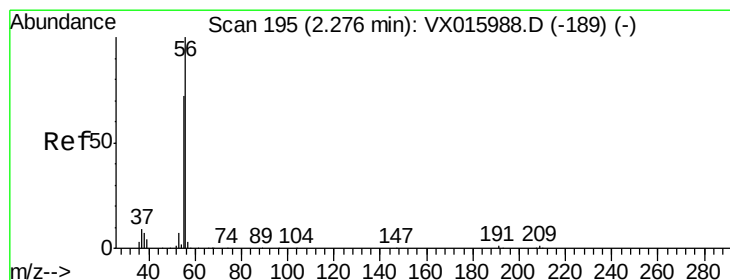
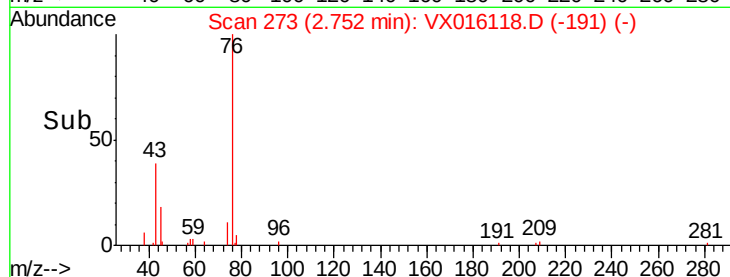
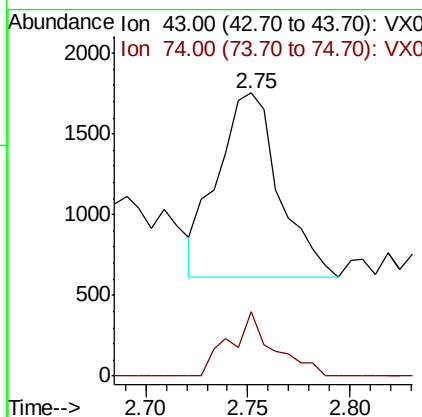
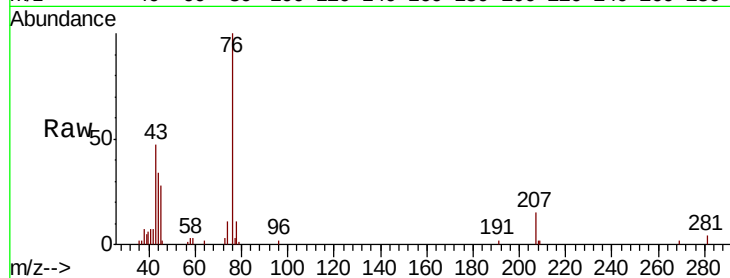




#12
Methvl Acetate
Concen: 0.479 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

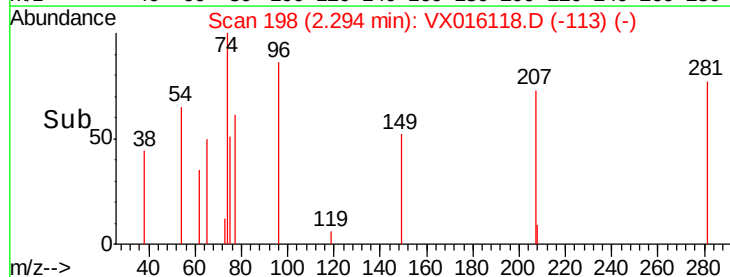
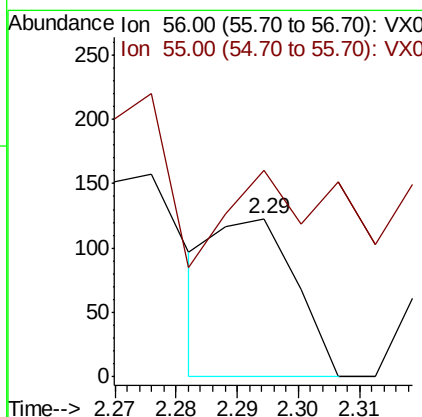
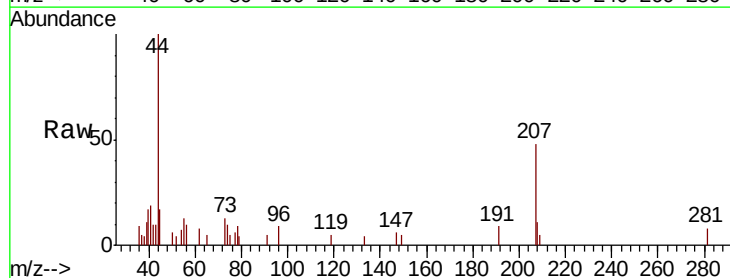
Instrument :
MSVOA_X
ClientSampleId :

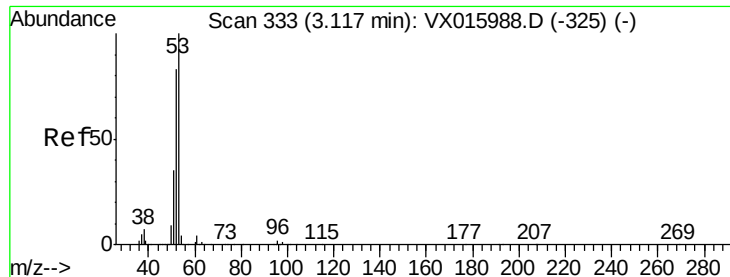
Tot Ion: 43 Resp: 2391
Ion Ratio Lower Upper
43 100
74 39.0 19.0 28.4#



#13
Acrolein
Concen: 0.282 ug/l
RT: 2.29 min Scan# 198
Delta R.T. 0.02 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 76.1 56.2 84.4

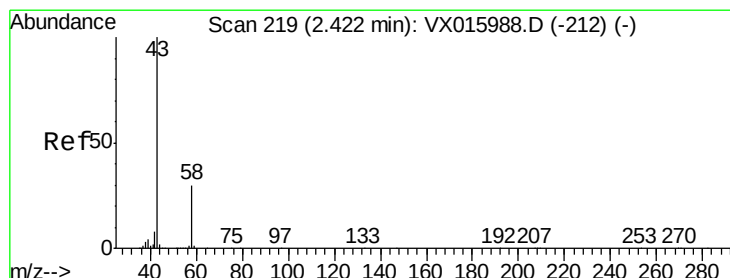
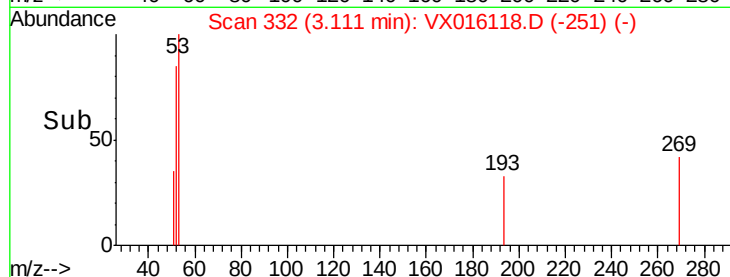
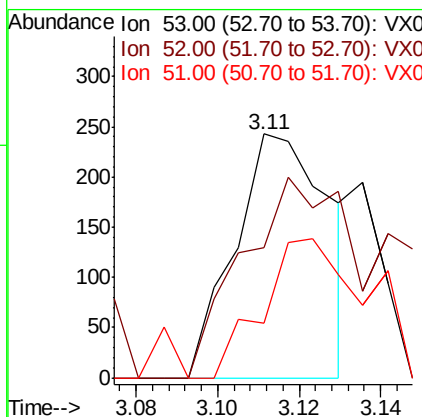
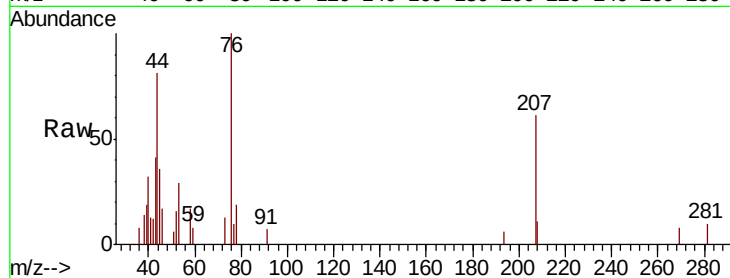




#14
Acrylonitrile
Concen: 0.211 ug/l
RT: 3.11 min Scan# 332
Delta R.T. -0.01 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

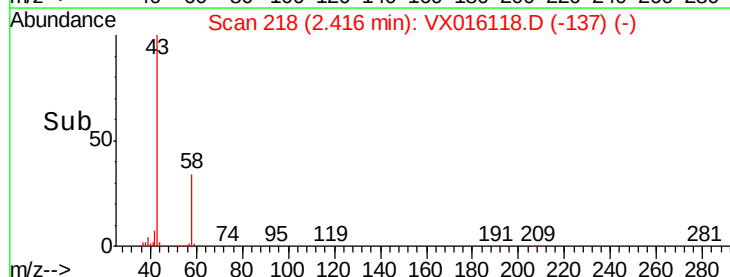
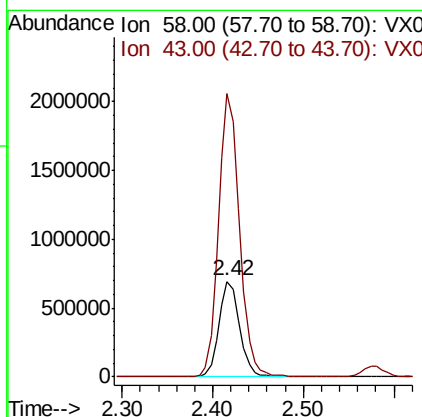
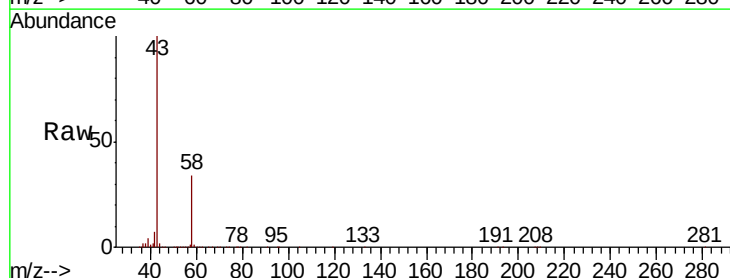
Instrument :
MSVOA_X
ClientSampled :

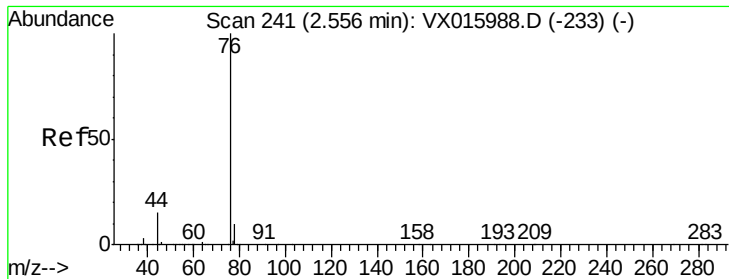
Tot Ion: 53 Resp: 388
Ion Ratio Lower Upper
53 100
52 91.8 41.2 123.6
51 52.8 17.8 53.5



#15
Acetone
Concen: 2272.711 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Tgt Ion: 58 Resp: 1108561
Ion Ratio Lower Upper
58 100
43 295.7 264.2 396.2





#16

Carbon Disulfide

Concen: 0.952 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VX016118.D

Acq: 08 May 2020 14:10

Instrument :

MSVOA_X

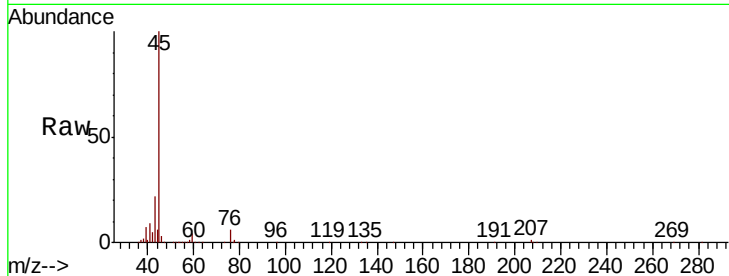
ClientSampleId :

Tot Ion: 76 Resp: 8280

Ion Ratio Lower Upper

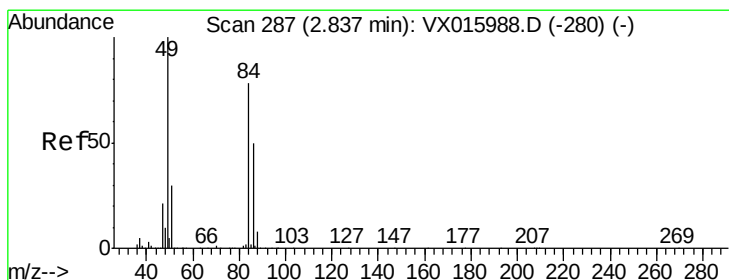
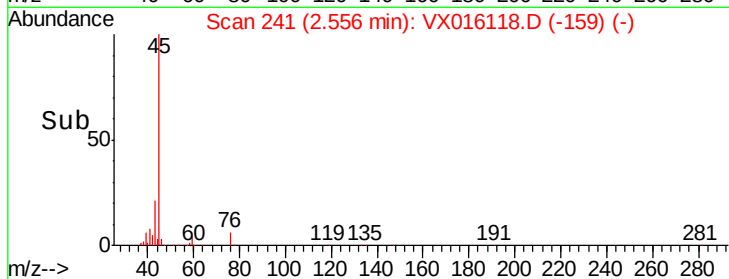
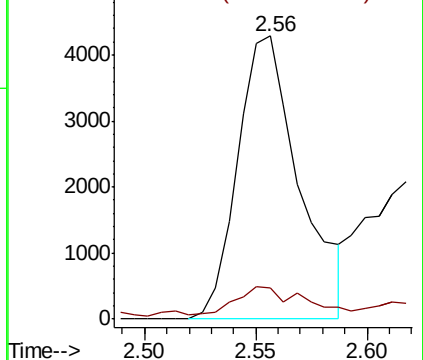
76 100

78 9.6 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#18

Methylene Chloride

Concen: 0.381 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX016118.D

Acq: 08 May 2020 14:10

Tgt Ion: 84 Resp: 1221

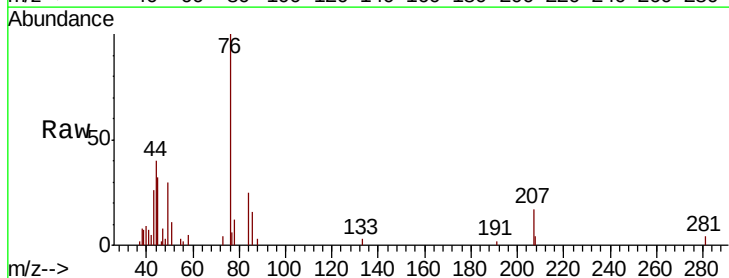
Ion Ratio Lower Upper

84 100

49 122.8 103.0 154.4

51 46.0 31.4 47.0

86 65.7 51.7 77.5

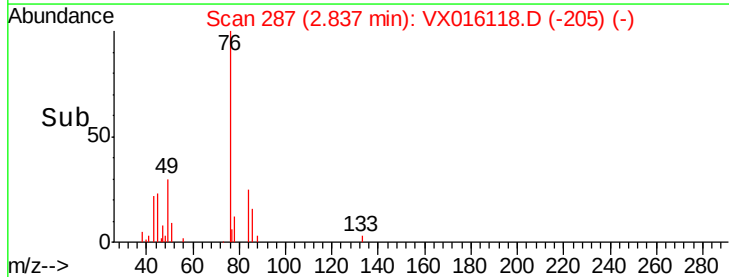
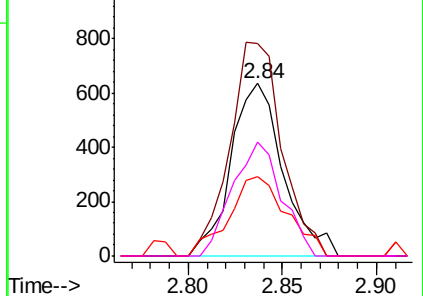


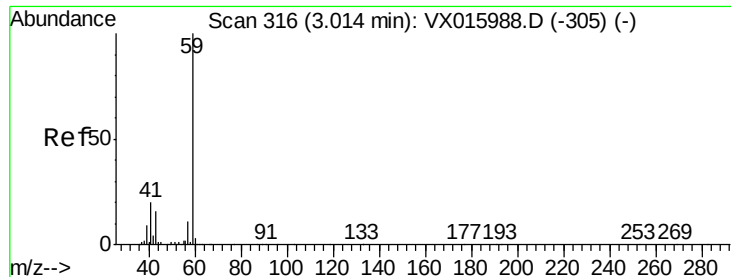
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



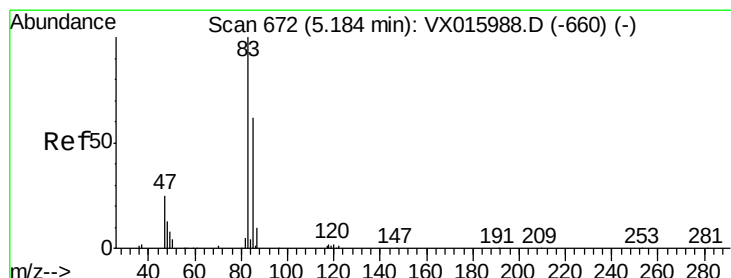
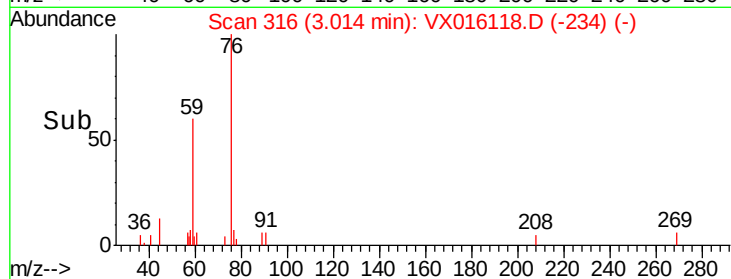
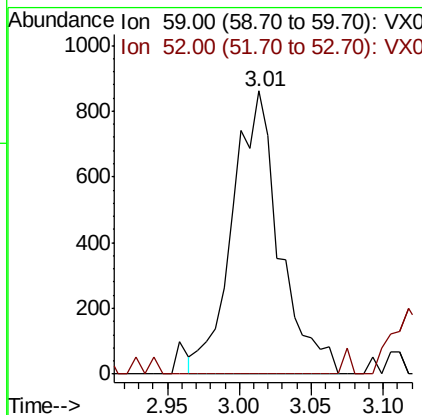
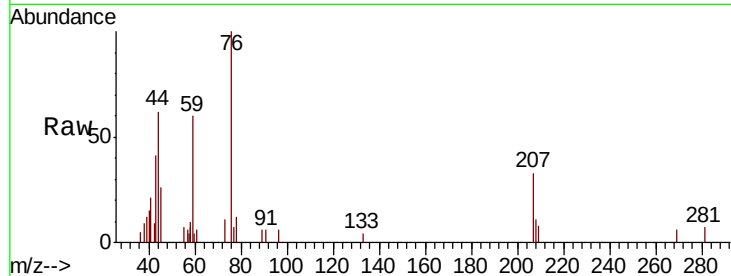


#23

tert-Butyl Alcohol
 Concen: 2.174 ug/l
 RT: 3.01 min Scan# 316
 Delta R.T. 0.00 min
 Lab File: VX016118.D
 Acq: 08 May 2020 14:10

Instrument :
 MSVOA_X
 ClientSampled :

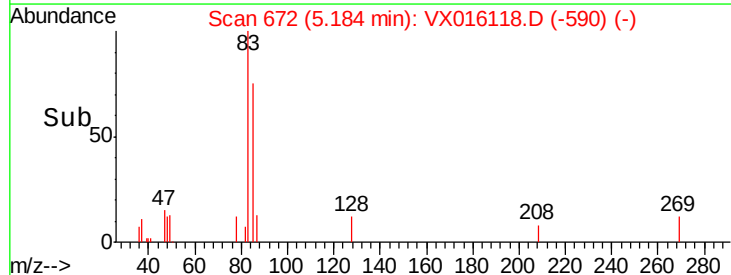
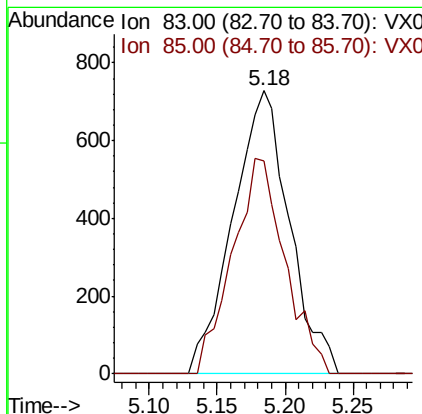
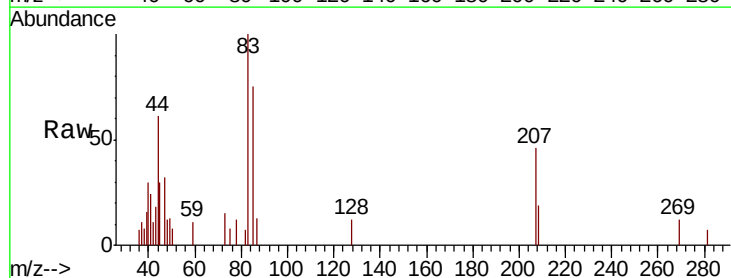
Tot Ion: 59 Resp: 1961
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

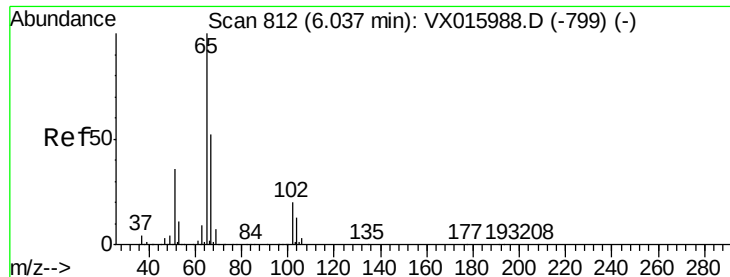


#25

Chloroform
 Concen: 0.365 ug/l
 RT: 5.18 min Scan# 672
 Delta R.T. 0.00 min
 Lab File: VX016118.D
 Acq: 08 May 2020 14:10

Tgt Ion: 83 Resp: 2115
 Ion Ratio Lower Upper
 83 100
 85 75.1 49.6 74.4#





#27

1,2-Dichloroethane-d4

Concen: 28.573 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX016118.D

Acq: 08 May 2020 14:10

Instrument :

MSVOA_X

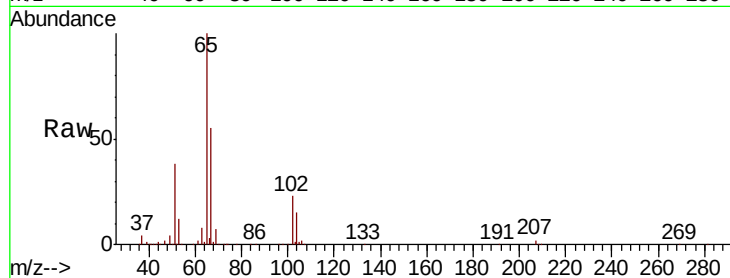
ClientSampleId :

Tot Ion: 65 Resp: 109674

Ion Ratio Lower Upper

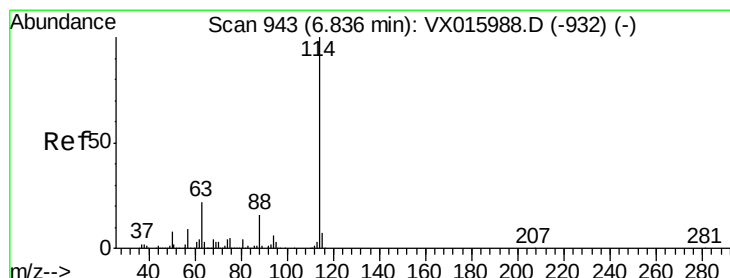
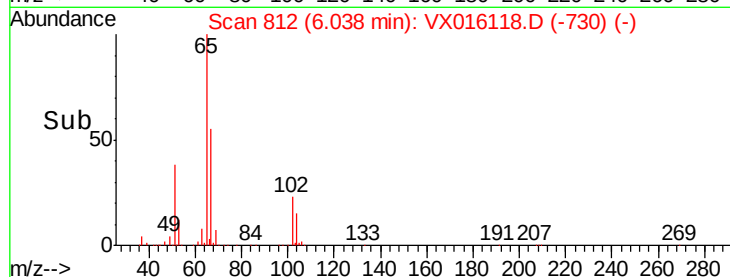
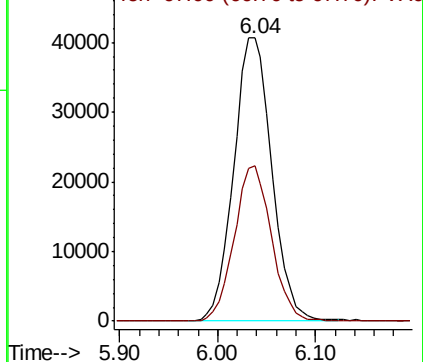
65 100

67 53.4 41.0 61.4



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: 6.84 min Scan# 943

Delta R.T. 0.00 min

Lab File: VX016118.D

Acq: 08 May 2020 14:10

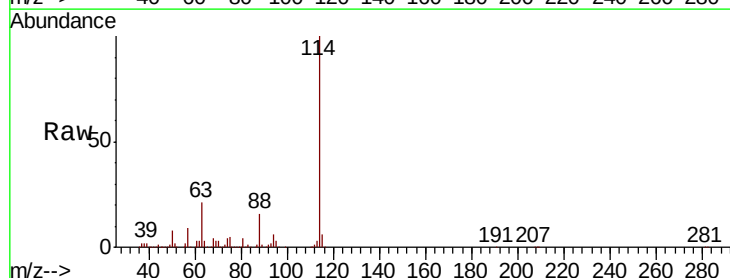
Tgt Ion: 114 Resp: 277038

Ion Ratio Lower Upper

114 100

63 20.9 17.1 25.7

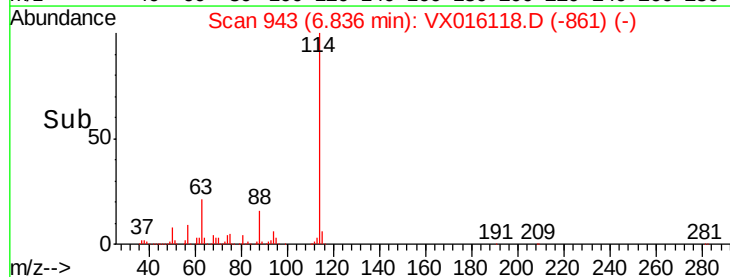
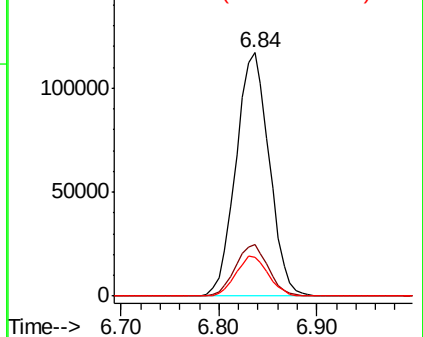
88 16.0 13.0 19.4

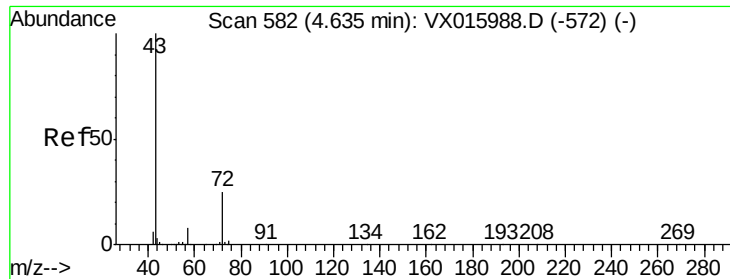


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

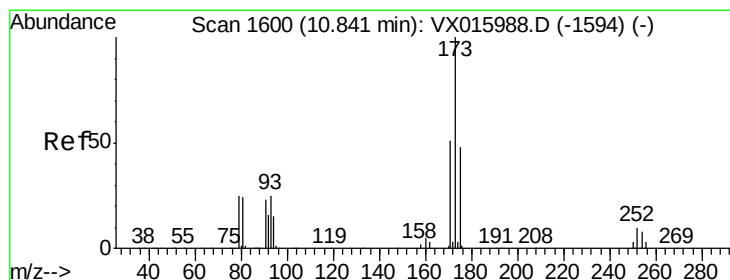
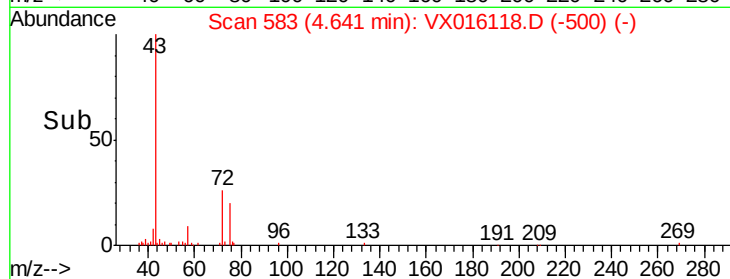
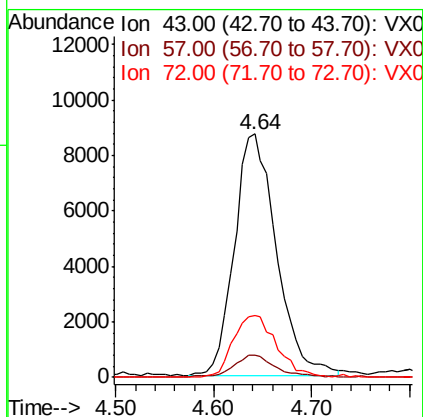
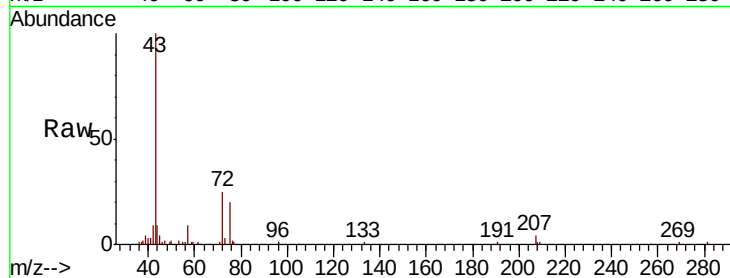




#30
2-Butanone
Concen: 9.937 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

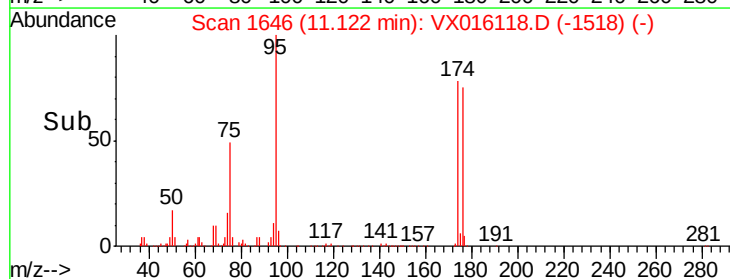
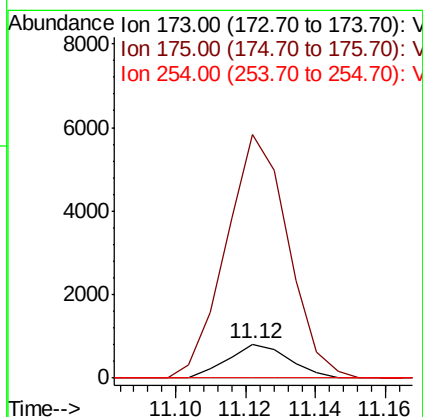
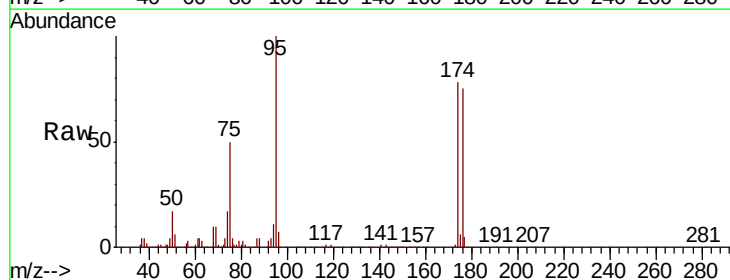
Instrument :
MSVOA_X
ClientSampleId :

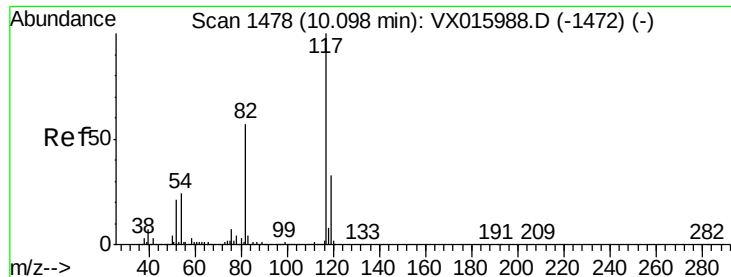
Tot Ion: 43 Resp: 25800
Ion Ratio Lower Upper
43 100
57 8.9 6.3 9.5
72 25.7 20.8 31.2



#56
Bromoform
Concen: 0.360 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.28 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Tgt Ion: 173 Resp: 986
Ion Ratio Lower Upper
173 100
175 729.0 38.0 57.0#
254 0.0 6.8 10.2#

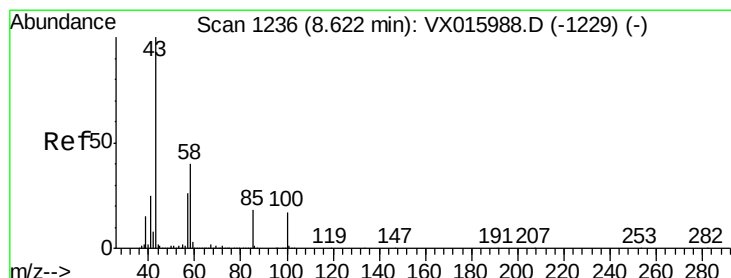
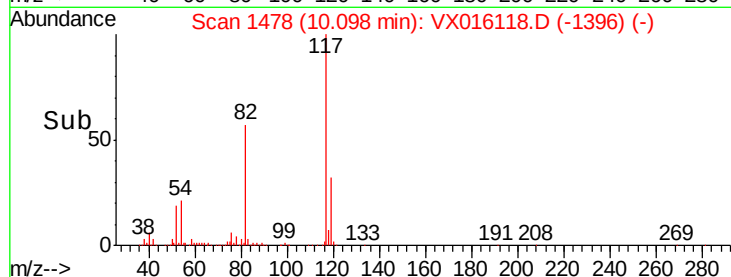
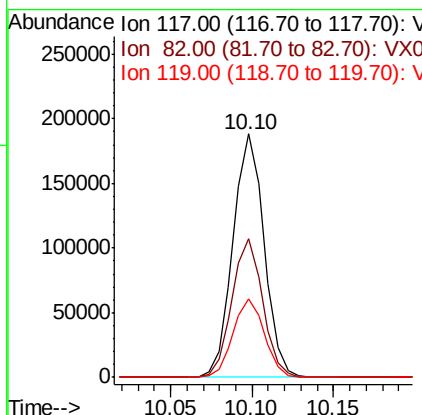
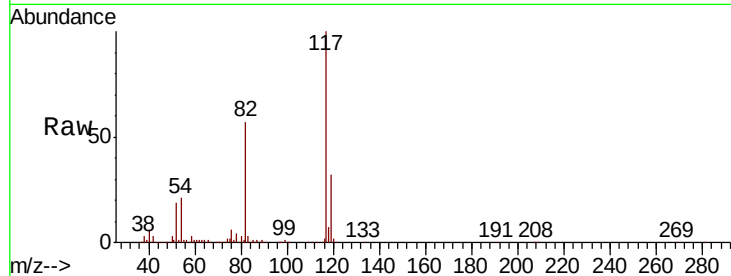




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

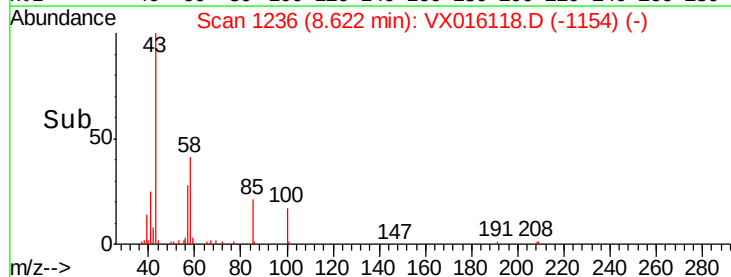
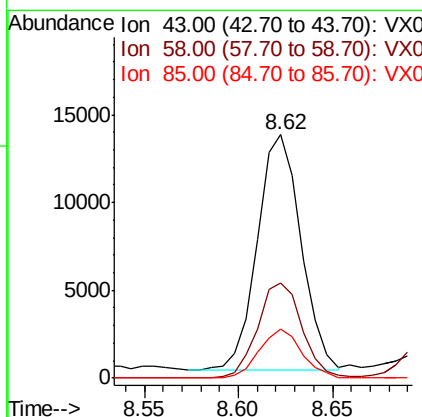
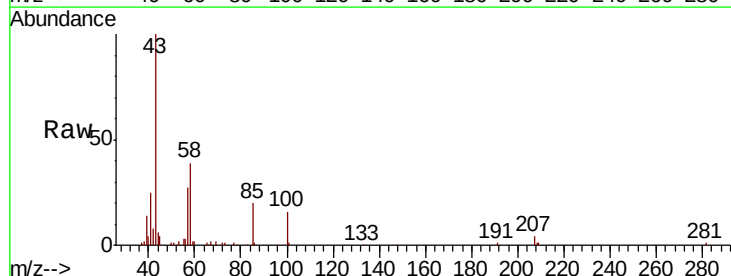
Instrument :
MSVOA_X
ClientSampleId :

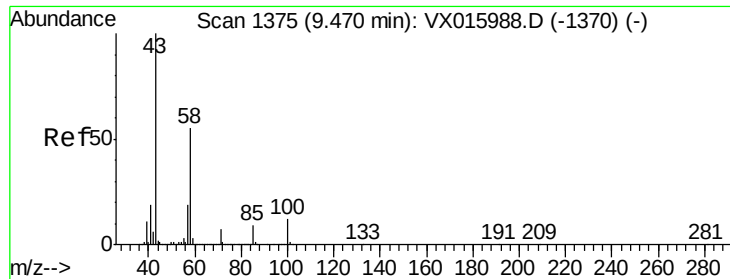
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.1	67.7
119	32.3	25.6	38.4



#58
4-Methyl-2-Pentanone
Concen: 4.327 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.5	31.8	47.6
85	20.3	14.5	21.7

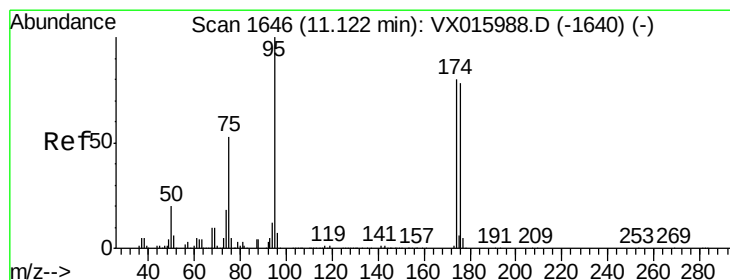
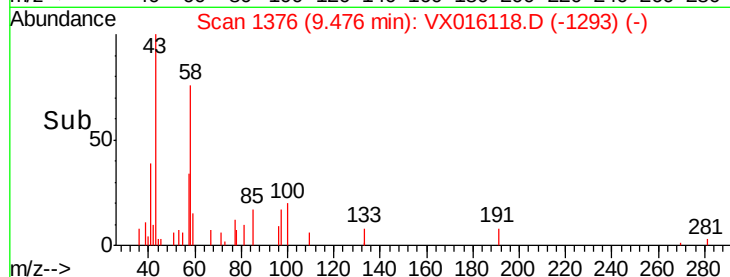
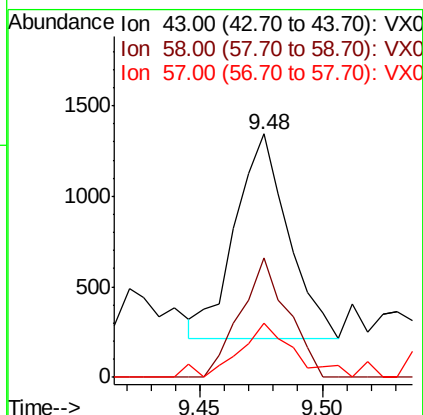
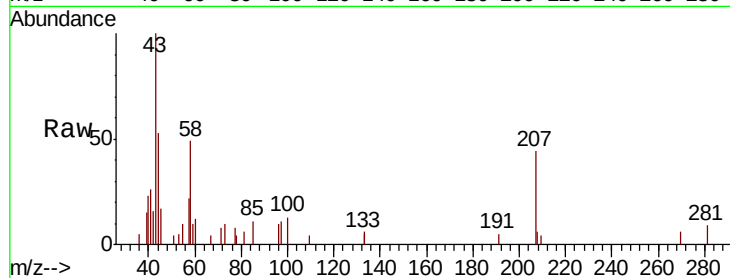




#59
2-Hexanone
Concen: 0.447 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

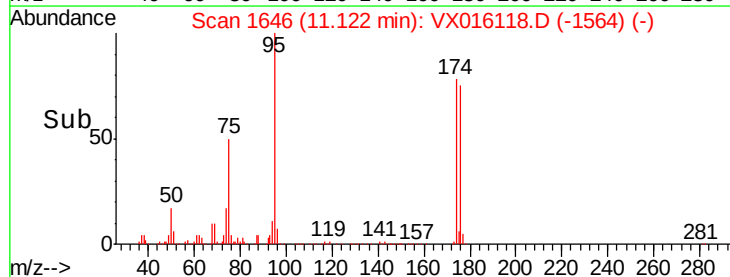
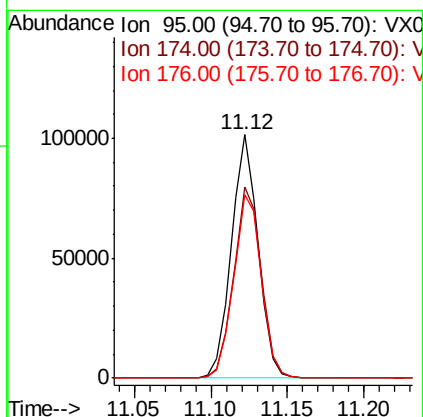
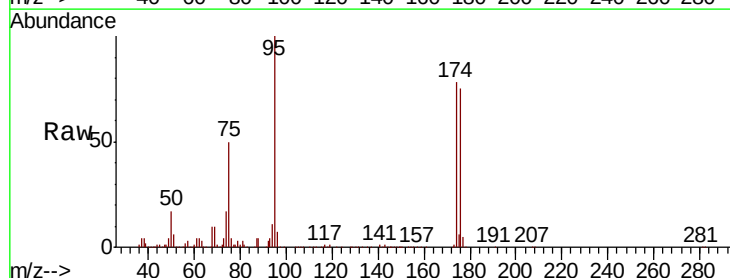
Instrument :
MSVOA_X
ClientSampleId :

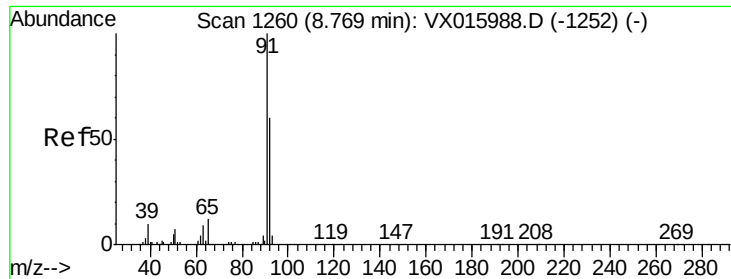
Tot Ion: 43 Resp: 1708
Ion Ratio Lower Upper
43 100
58 52.0 44.0 66.0
57 23.6 15.5 23.3#



#60
4-Bromofluorobenzene
Concen: 29.124 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Tgt Ion: 95 Resp: 122635
Ion Ratio Lower Upper
95 100
174 80.5 64.8 97.2
176 77.8 62.4 93.6





#62

Toluene

Concen: 11.604 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VX016118.D

Acq: 08 May 2020 14:10

Instrument :

MSVOA_X

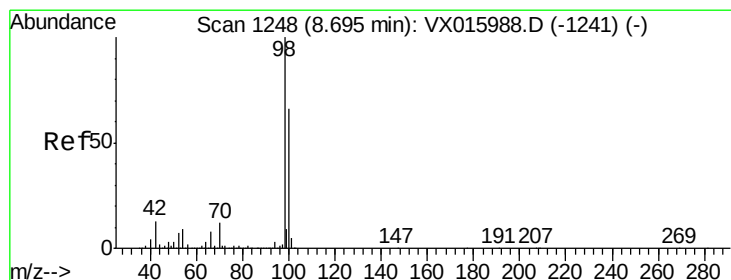
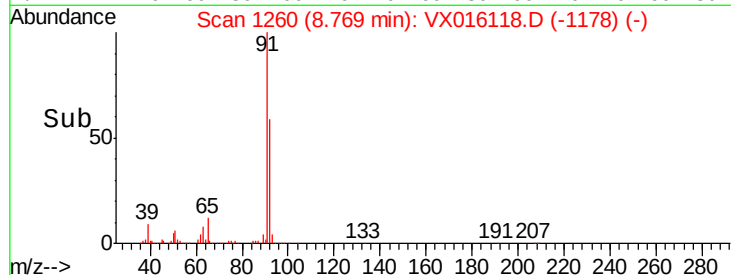
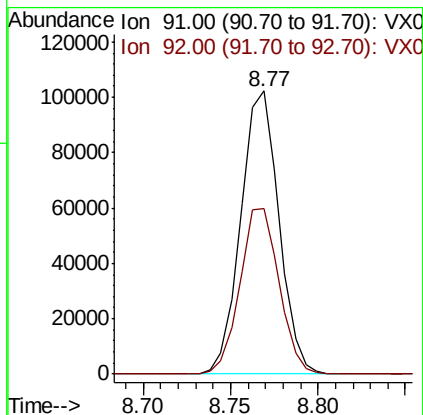
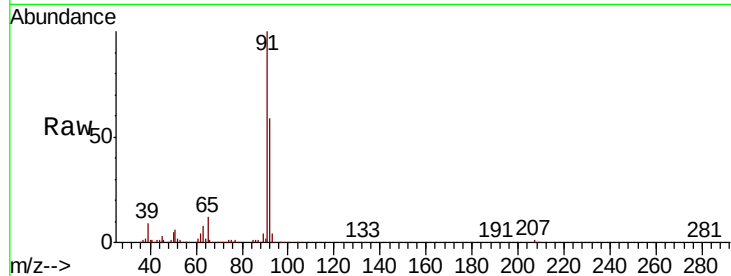
ClientSampleId :

Tot Ion: 91 Resp: 155668

Ion Ratio Lower Upper

91 100

92 60.0 47.2 70.8



#63

Toluene-d8

Concen: 30.676 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016118.D

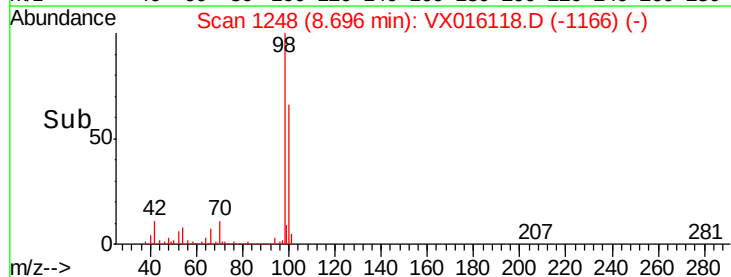
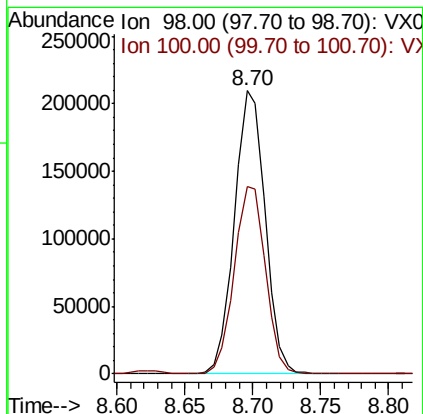
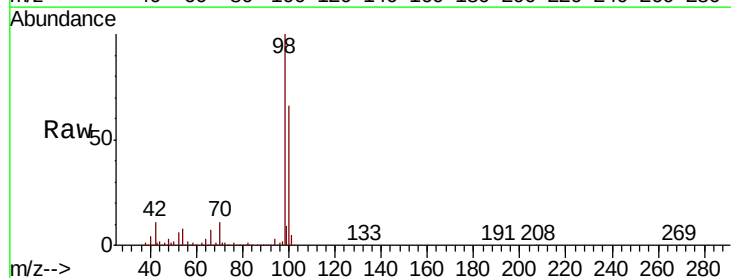
Acq: 08 May 2020 14:10

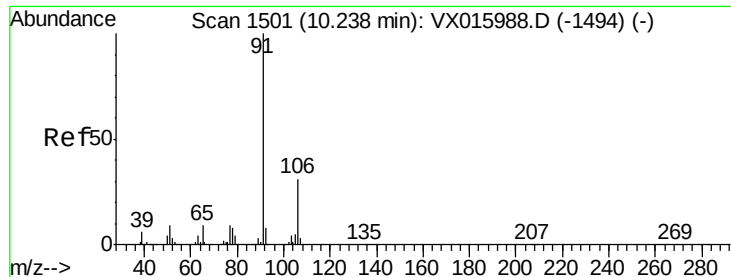
Tgt Ion: 98 Resp: 330435

Ion Ratio Lower Upper

98 100

100 67.1 52.5 78.7





#66

Ethyl Benzene

Concen: 0.357 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VX016118.D

Acq: 08 May 2020 14:10

Instrument :

MSVOA_X

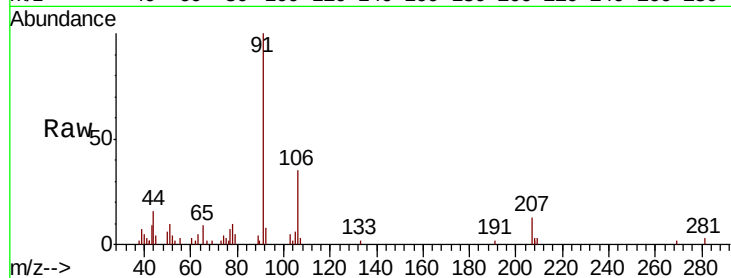
ClientSampleId :

Tot Ion: 91 Resp: 5449

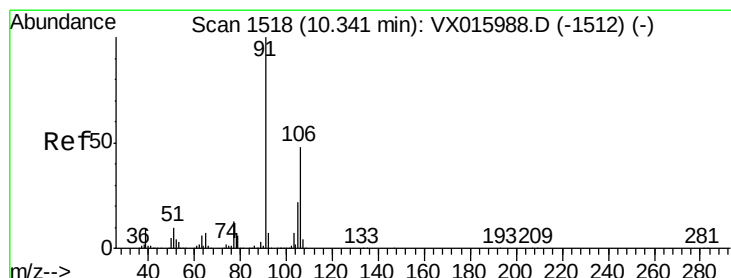
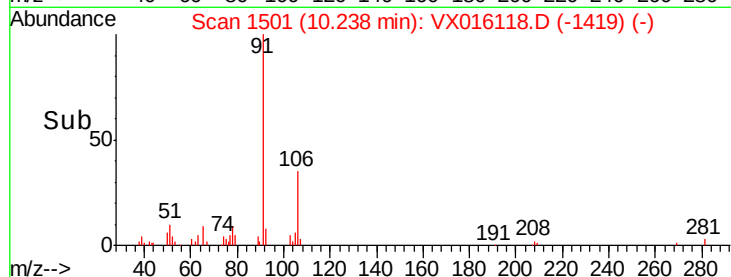
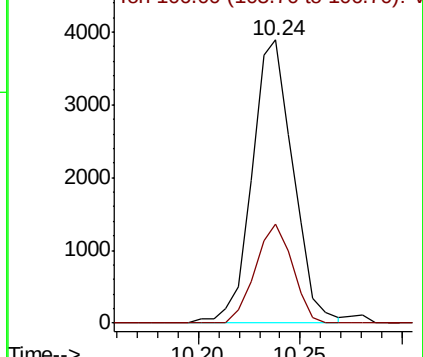
Ion Ratio Lower Upper

91 100

106 35.2 24.8 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX016118.D (-1419) (-)



#67

m/p-Xylenes

Concen: 1.520 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX016118.D

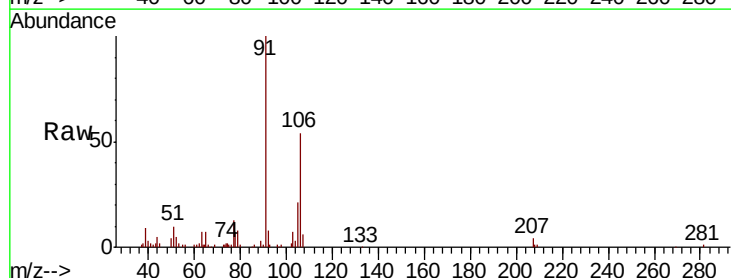
Acq: 08 May 2020 14:10

Tgt Ion: 106 Resp: 8848

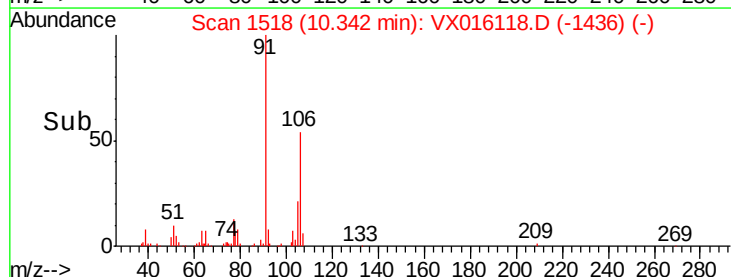
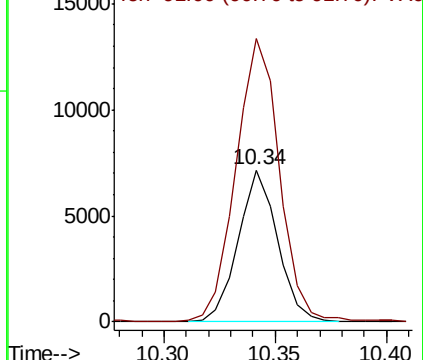
Ion Ratio Lower Upper

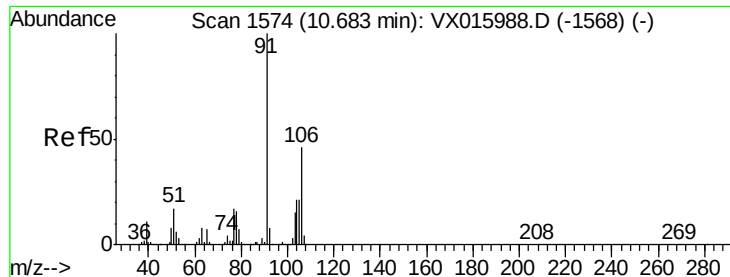
106 100

91 206.1 164.2 246.4



Abundance Ion 106.00 (105.70 to 106.70): VX016118.D (-1436) (-)

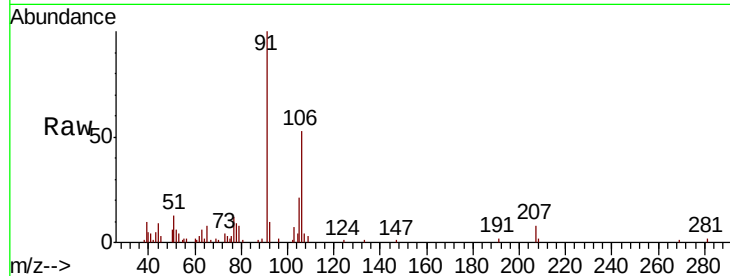




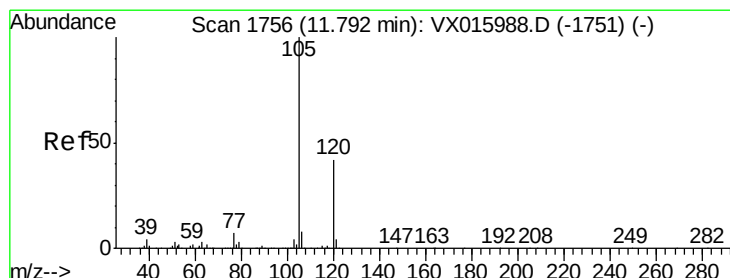
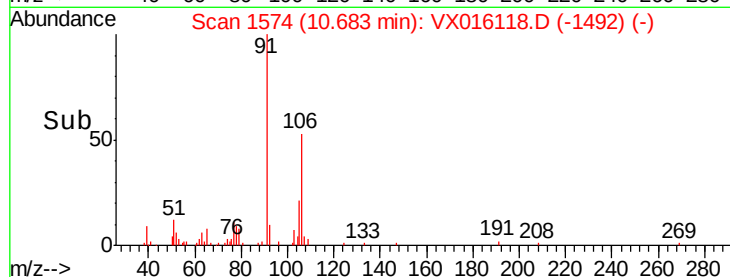
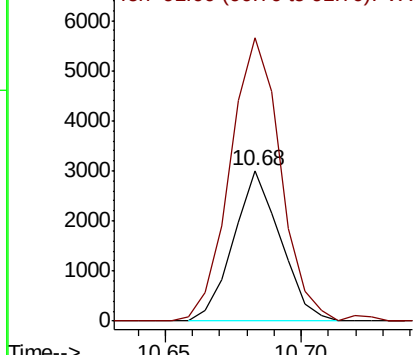
#68
o-Xylene
Concen: 0.642 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 3604
Ion Ratio Lower Upper
106 100
91 201.6 108.3 325.0

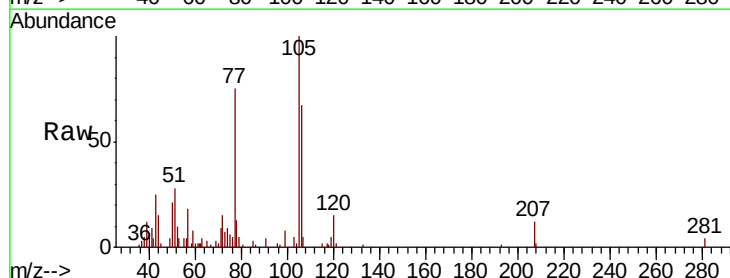


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0



#80
1,2,4-Trimethylbenzene
Concen: 0.531 ug/l
RT: 11.79 min Scan# 1756
Delta R.T. 0.00 min
Lab File: VX016118.D
Acq: 08 May 2020 14:10

Tgt Ion:105 Resp: 6817
Ion Ratio Lower Upper
105 100
120 16.5 0.0 91.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

