

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030620\
 Data File : VX015128.D
 Acq On : 06 Mar 2020 15:40
 Operator : JC/SP
 Sample : L1820-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 06 23:15:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:37:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	61548	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	313816	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	289768	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	129412	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	11.13	95	123207	27.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.00%
63) Toluene-d8	8.71	98	368900	29.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.30%

Target Compounds

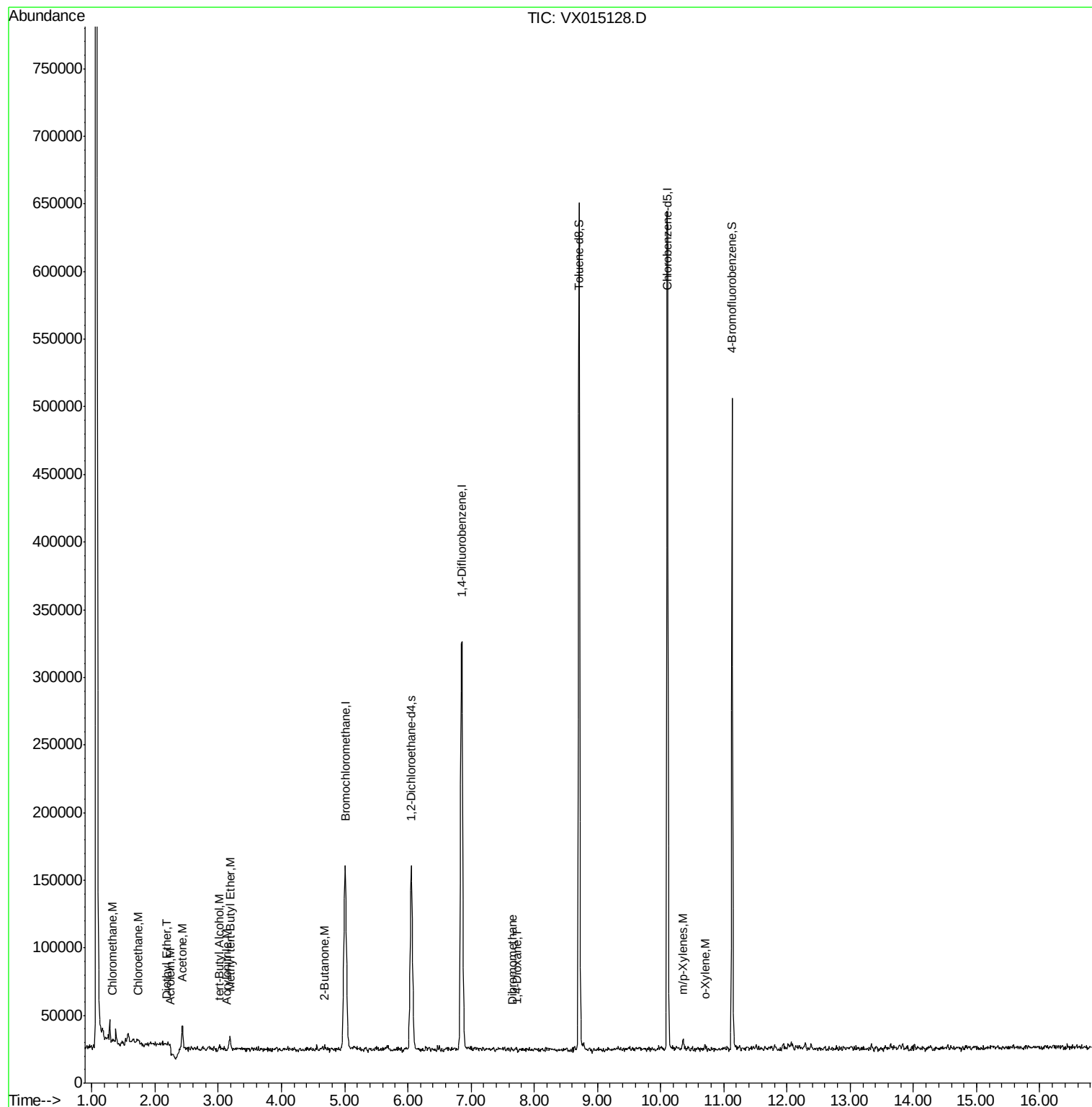
					Ovalue
3) Chloromethane	1.32	50	764	0.215 ug/l	90
6) Chloroethane	1.73	64	1834	0.716 ug/l	95
8) Diethyl Ether	2.19	74	476	0.203 ug/l	61
13) Acrolein	2.25	56	261	0.326 ug/l	95
14) Acrylonitrile	3.14	53	420	0.231 ug/l #	17
15) Acetone	2.43	58	6481	9.960 ug/l	98
23) tert-Butyl Alcohol	3.03	59	2764	3.835 ug/l #	95
24) Methyl tert-Butyl Ether	3.19	73	9968	0.926 ug/l	94
30) 2-Butanone	4.68	43	811	0.317 ug/l #	97
40) Dibromomethane	7.66	93	465	0.202 ug/l	24
45) 1,4-Dioxane	7.73	88	98	1.361 ug/l #	1
67) m/p-Xylenes	10.35	106	2451	0.389 ug/l	95
68) o-Xylene	10.70	106	1495	0.245 ug/l	90

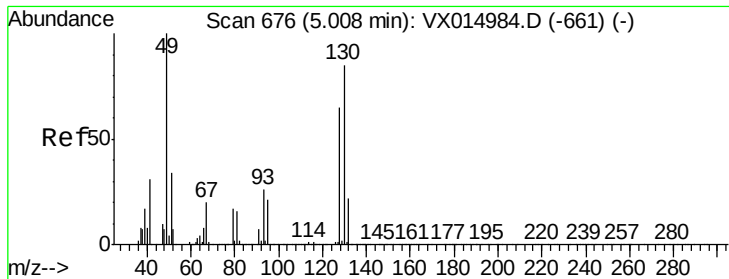
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Mar 06 23:15:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:37:56 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX015128.D

Acq: 06 Mar 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

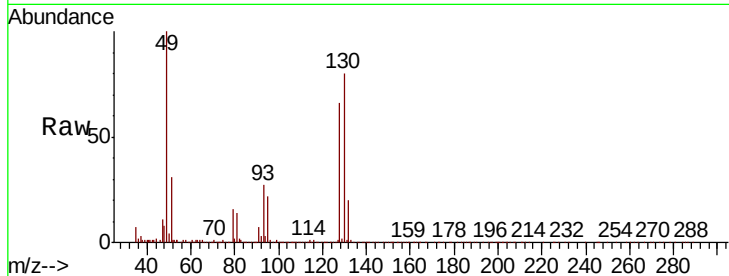
Tot Ion:128 Resp: 61548

Ion Ratio Lower Upper

128 100

49 155.9 0.0 384.7

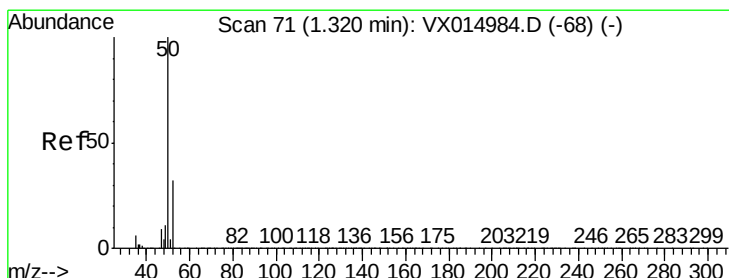
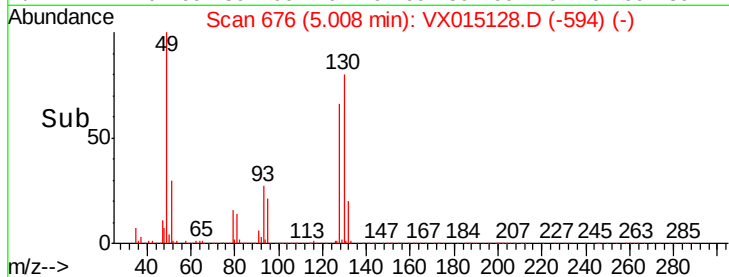
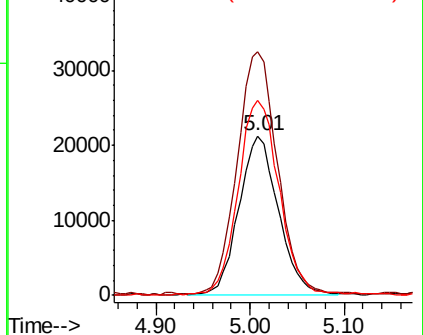
130 128.2 0.0 330.8



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: 0.215 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015128.D

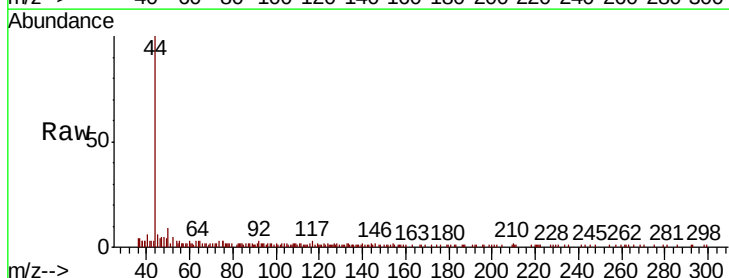
Acq: 06 Mar 2020 15:40

Tgt Ion: 50 Resp: 764

Ion Ratio Lower Upper

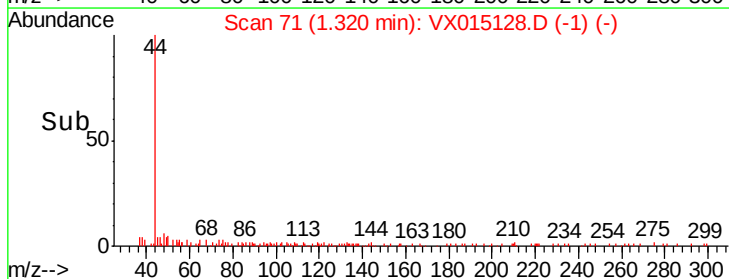
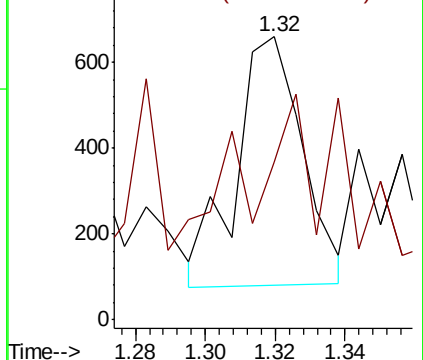
50 100

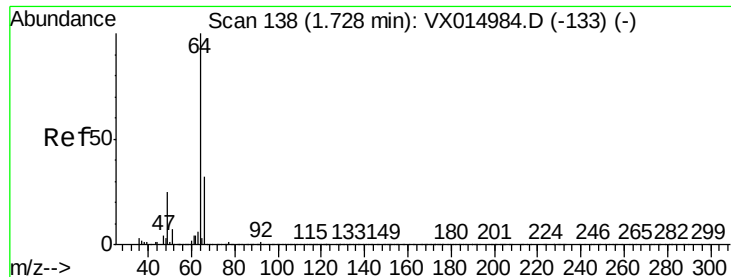
52 26.0 25.4 38.0



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 0.716 ug/l

RT: 1.73 min Scan# 139

Delta R.T. 0.01 min

Lab File: VX015128.D

Acq: 06 Mar 2020 15:40

Instrument :

MSVOA_X

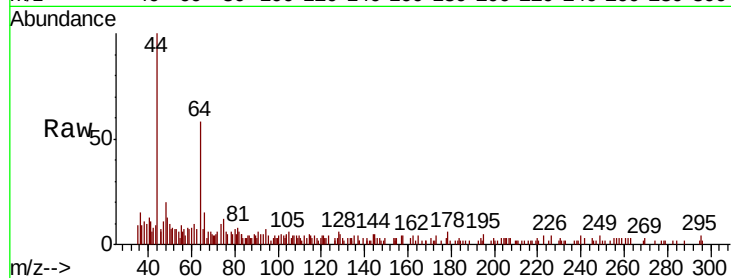
ClientSampleId :

Tot Ion: 64 Resp: 1834

Ion Ratio Lower Upper

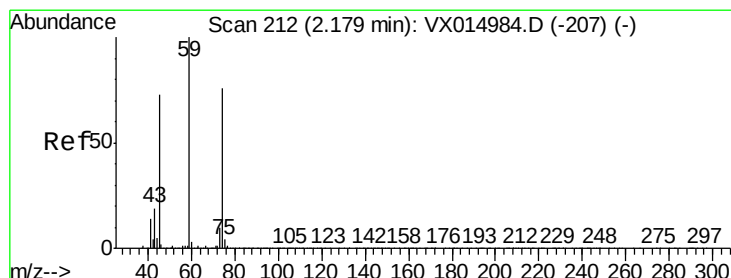
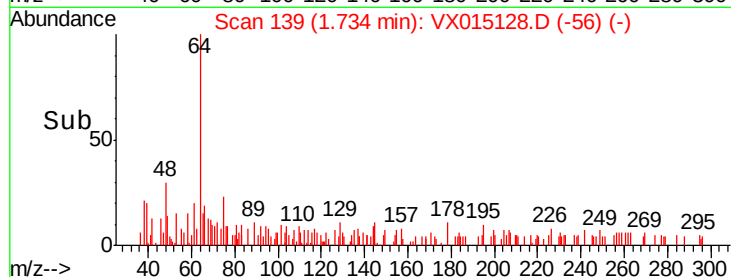
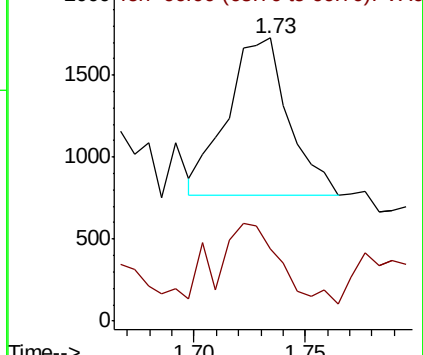
64 100

66 35.3 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#8

Diethyl Ether

Concen: 0.203 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX015128.D

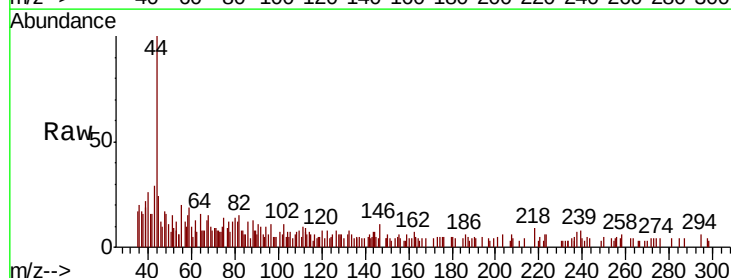
Acq: 06 Mar 2020 15:40

Tgt Ion: 74 Resp: 476

Ion Ratio Lower Upper

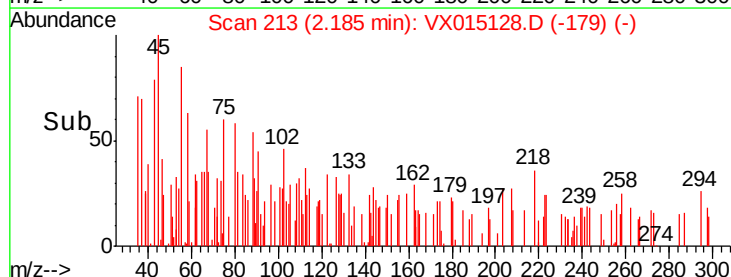
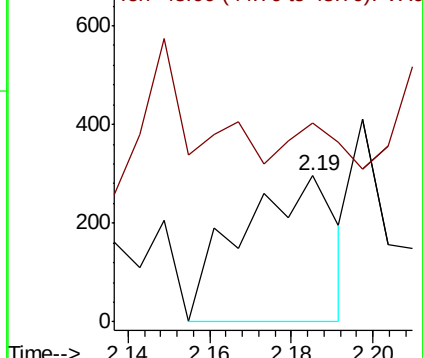
74 100

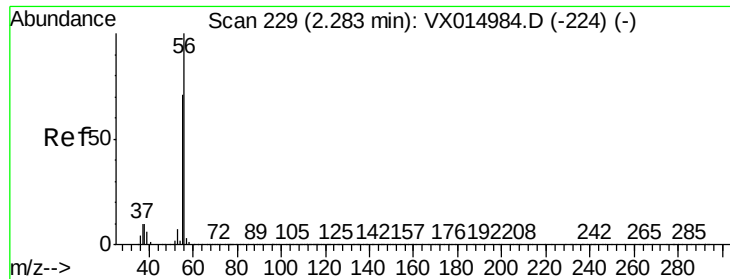
45 59.2 19.6 176.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

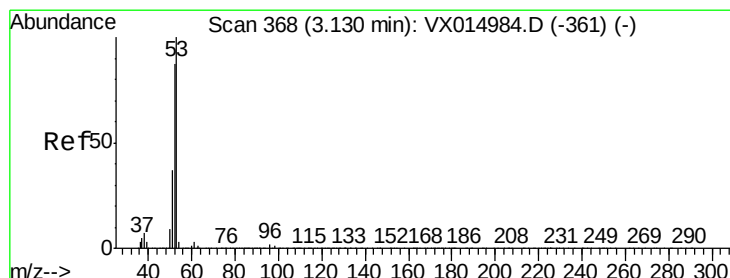
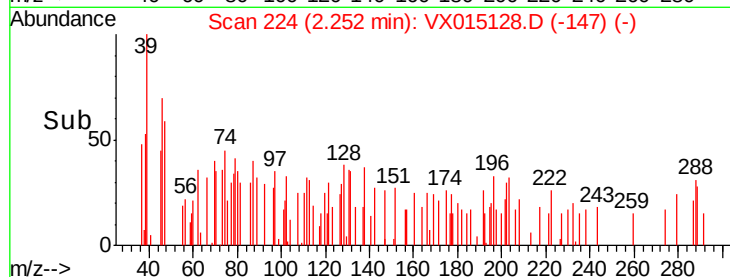
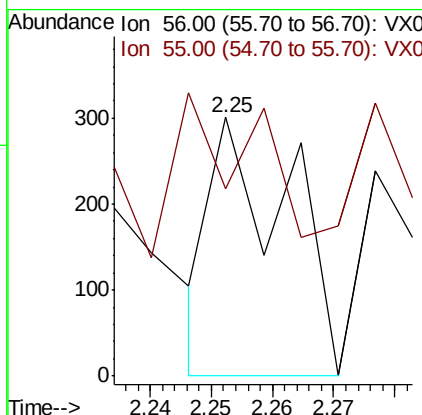
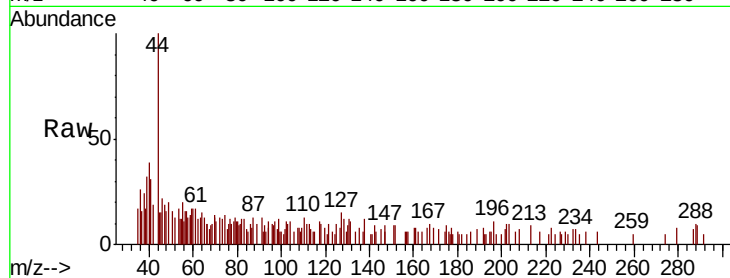




#13
Acrolein
Concen: 0.326 ug/l
RT: 2.25 min Scan# 224
Delta R.T. -0.03 min
Lab File: VX015128.D
Acq: 06 Mar 2020 15:40

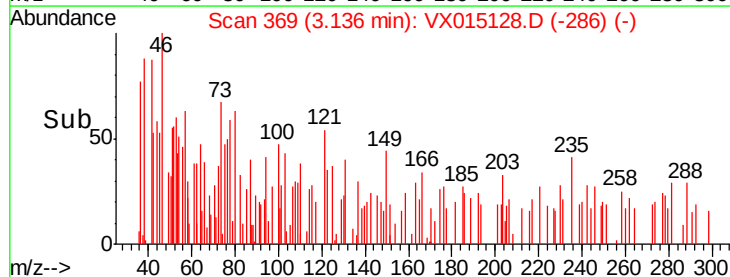
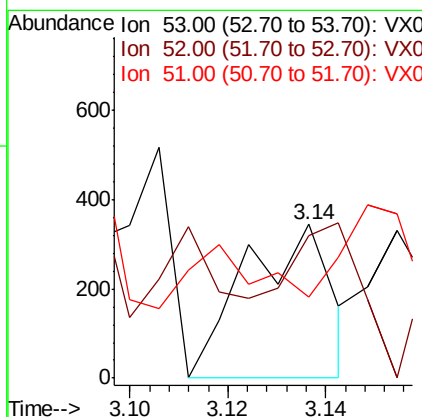
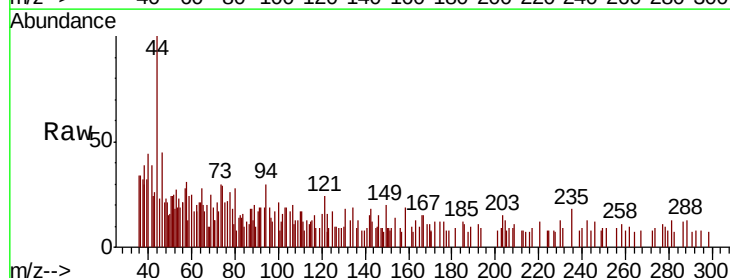
Instrument :
MSVOA_X
ClientSampled :

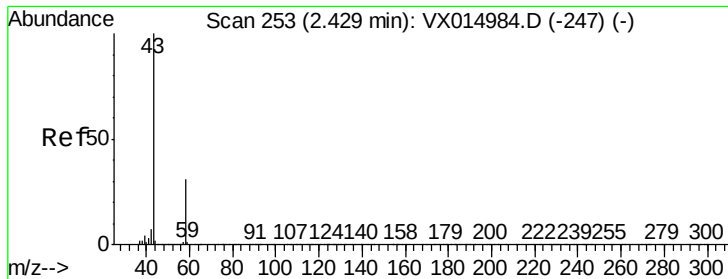
Tot Ion: 56 Resp: 261
Ion Ratio Lower Upper
56 100
55 66.3 56.2 84.2



#14
Acrylonitrile
Concen: 0.231 ug/l
RT: 3.14 min Scan# 369
Delta R.T. 0.01 min
Lab File: VX015128.D
Acq: 06 Mar 2020 15:40

Tgt Ion: 53 Resp: 420
Ion Ratio Lower Upper
53 100
52 0.0 41.5 124.6#
51 0.0 18.1 54.4#





#15

Acetone

Concen: 9.960 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX015128.D

Acq: 06 Mar 2020 15:40

Instrument :

MSVOA_X

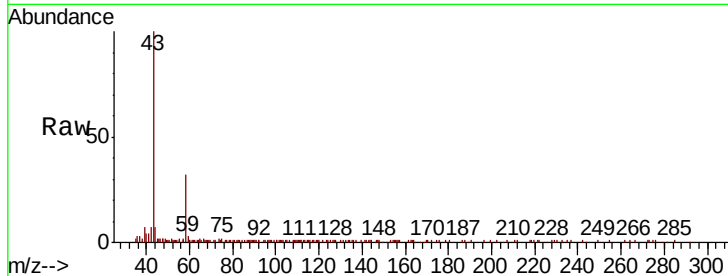
ClientSampled :

Tot Ion: 58 Resp: 6481

Ion Ratio Lower Upper

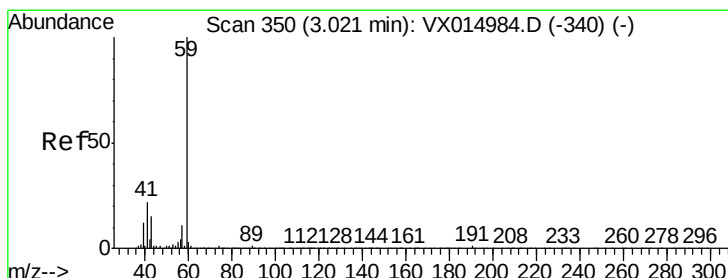
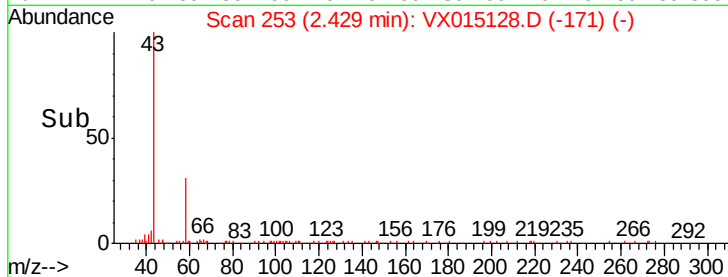
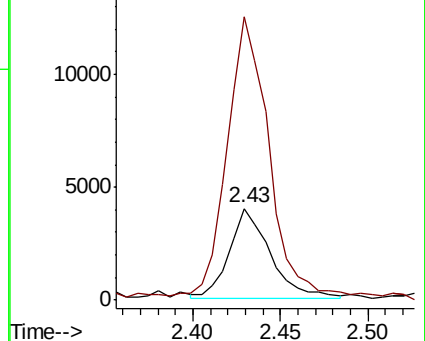
58 100

43 317.6 257.7 386.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#23

tert-Butyl Alcohol

Concen: 3.835 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.01 min

Lab File: VX015128.D

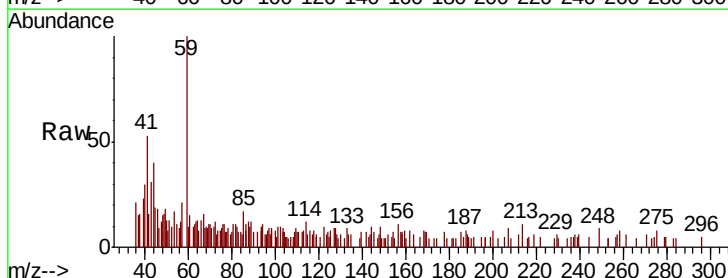
Acq: 06 Mar 2020 15:40

Tgt Ion: 59 Resp: 2764

Ion Ratio Lower Upper

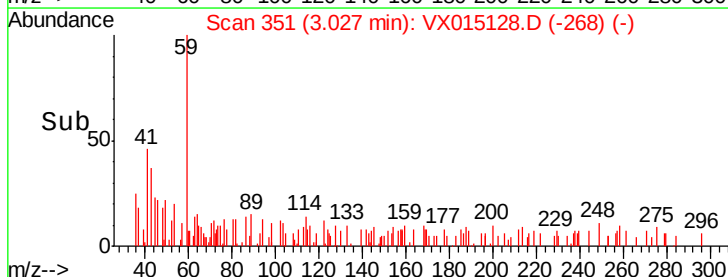
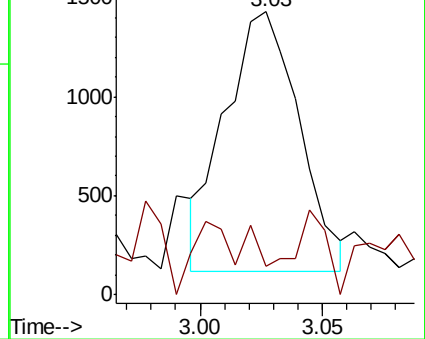
59 100

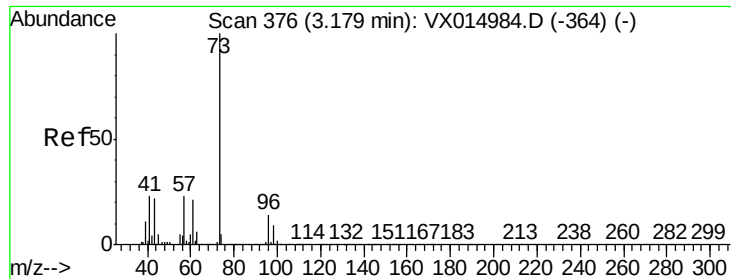
52 4.1 0.4 0.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



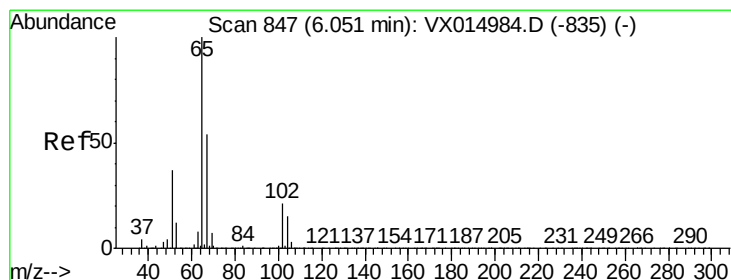
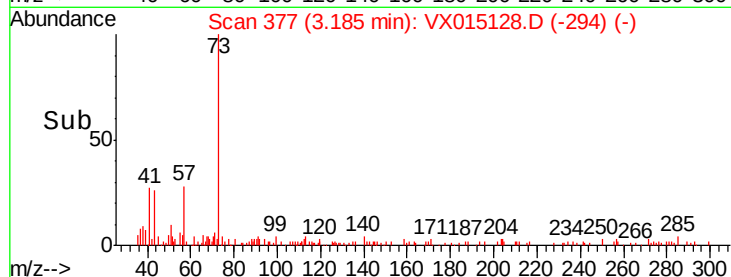
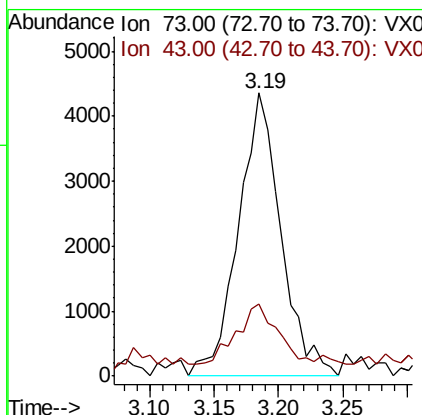
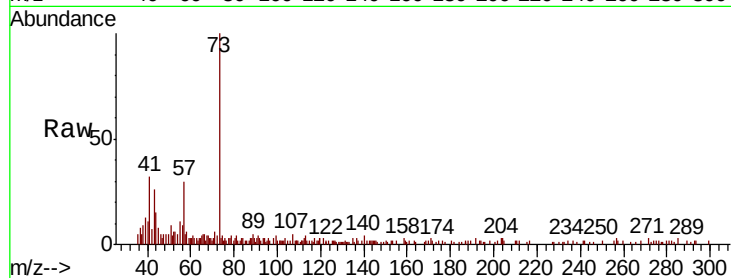


#24

Methyl tert-Butyl Ether
 Concen: 0.926 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.01 min
 Lab File: VX015128.D
 Acq: 06 Mar 2020 15:40

Instrument :
 MSVOA_X
 ClientSampleId :

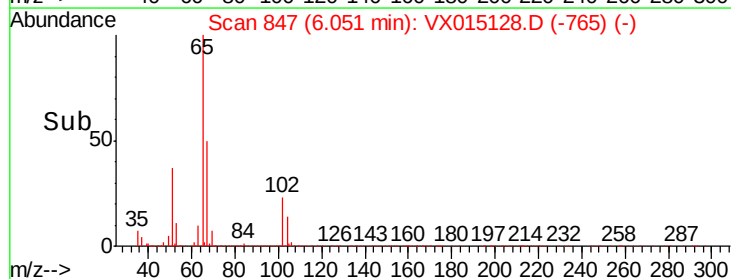
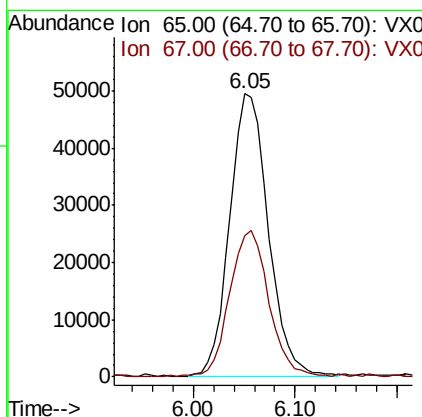
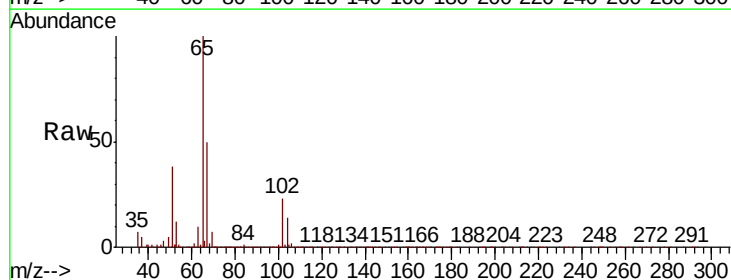
Tot Ion: 73 Resp: 9968
 Ion Ratio Lower Upper
 73 100
 43 19.2 17.7 26.5

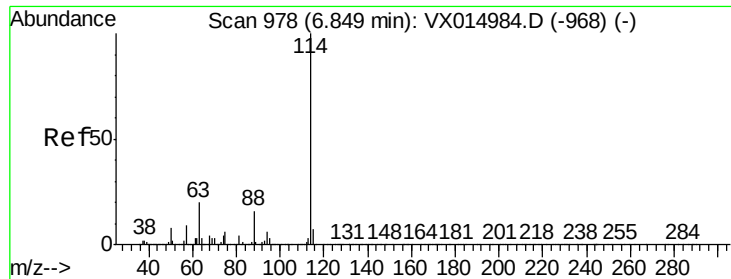


#27

1,2-Dichloroethane-d4
 Concen: 30.238 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX015128.D
 Acq: 06 Mar 2020 15:40

Tgt Ion: 65 Resp: 129412
 Ion Ratio Lower Upper
 65 100
 67 52.8 41.9 62.9

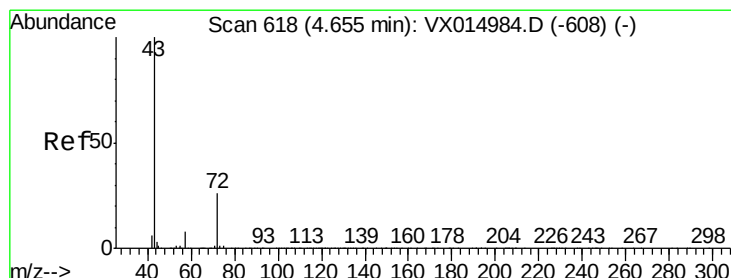
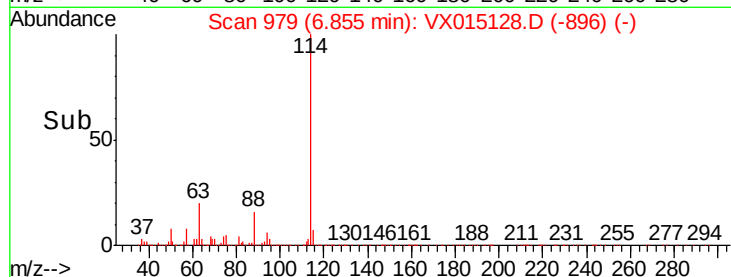
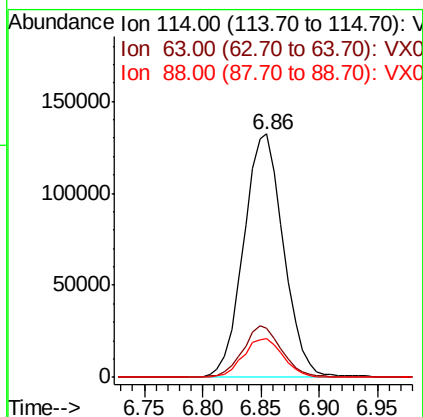
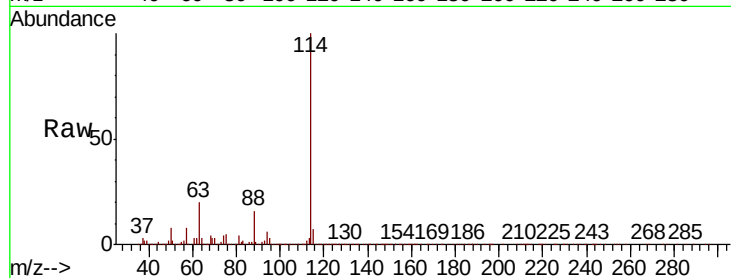




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX015128.D
 Acq: 06 Mar 2020 15:40

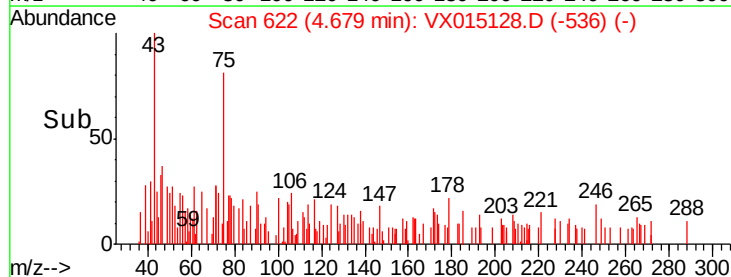
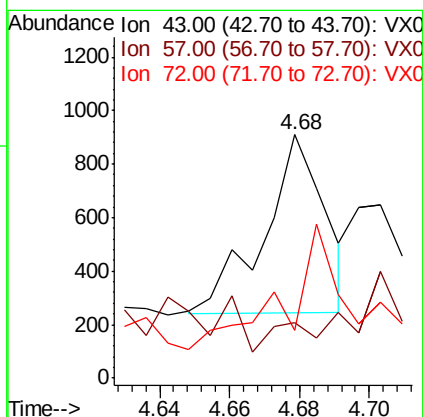
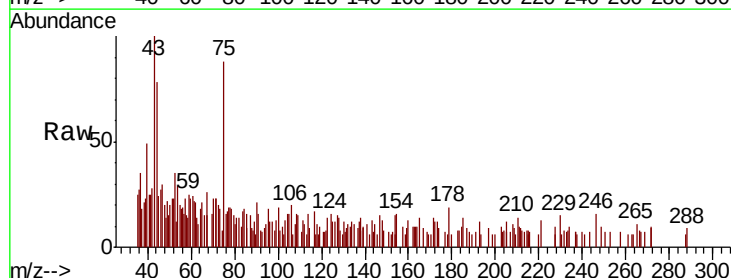
Instrument :
 MSVOA_X
 ClientSampleId :

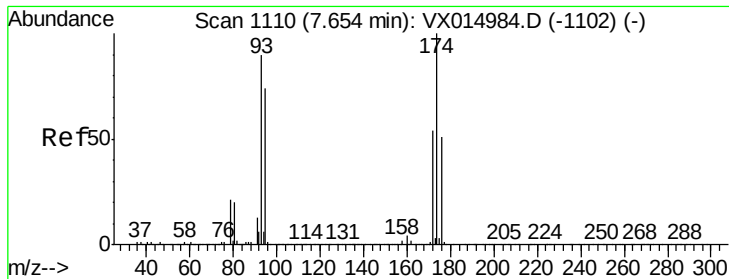
Tot Ion:114 Resp: 313816
 Ion Ratio Lower Upper
 114 100
 63 20.2 15.6 23.4
 88 16.0 12.2 18.2



#30
 2-Butanone
 Concen: 0.317 ug/l
 RT: 4.68 min Scan# 622
 Delta R.T. 0.02 min
 Lab File: VX015128.D
 Acq: 06 Mar 2020 15:40

Tgt Ion: 43 Resp: 811
 Ion Ratio Lower Upper
 43 100
 57 11.3 6.5 9.7#
 72 24.7 20.3 30.5





#40

Dibromomethane

Concen: 0.202 ug/l

RT: 7.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VX015128.D

Acq: 06 Mar 2020 15:40

Instrument :

MSVOA_X

ClientSampled :

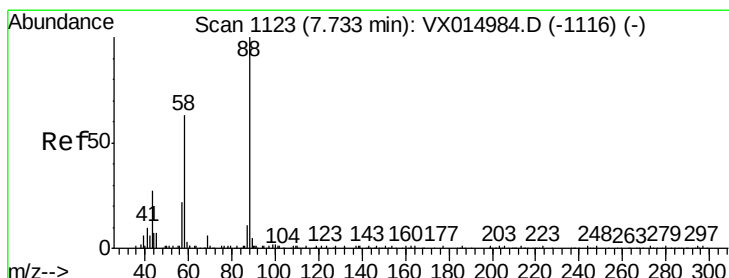
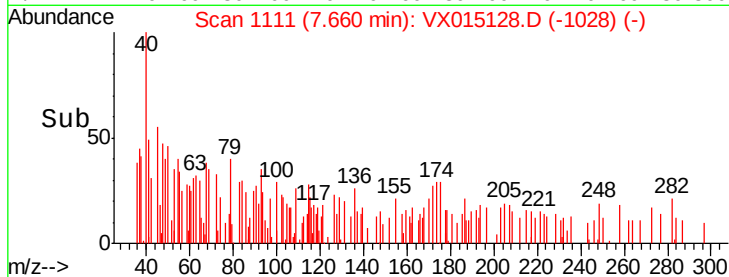
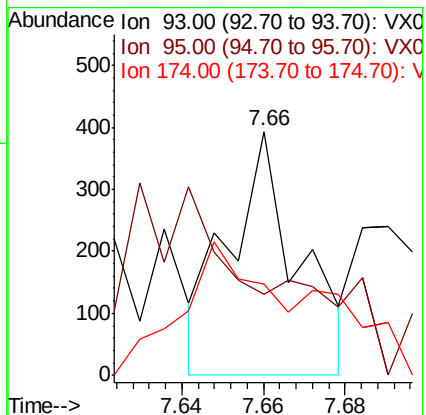
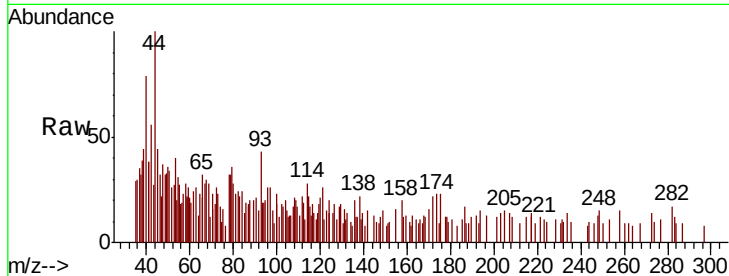
Tot Ion: 93 Resp: 465

Ion Ratio Lower Upper

93 100

95 12.3 0.0 164.6

174 33.8 0.0 226.4



#45

1,4-Dioxane

Concen: 1.361 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX015128.D

Acq: 06 Mar 2020 15:40

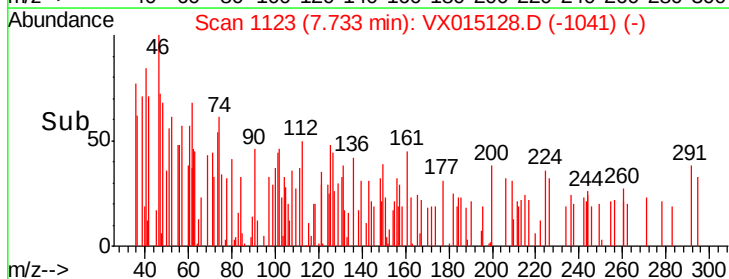
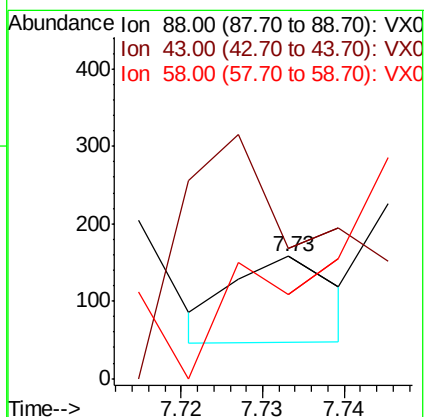
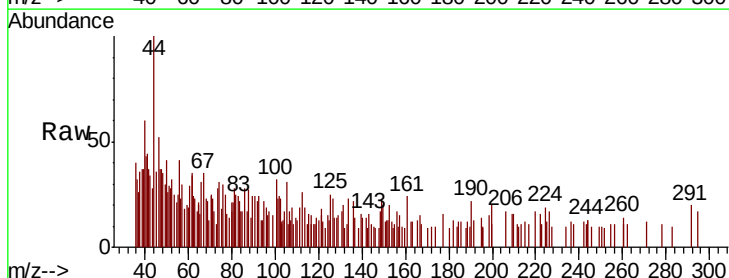
Tgt Ion: 88 Resp: 98

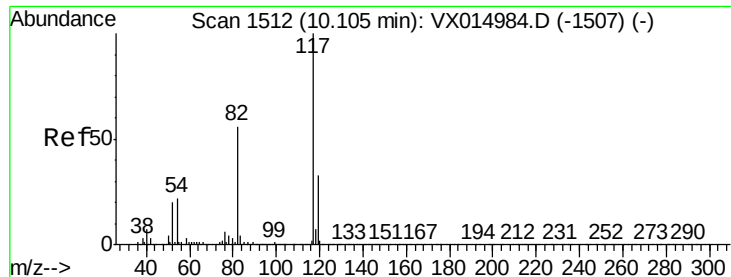
Ion Ratio Lower Upper

88 100

43 405.1 25.4 38.2#

58 96.9 55.8 83.8#

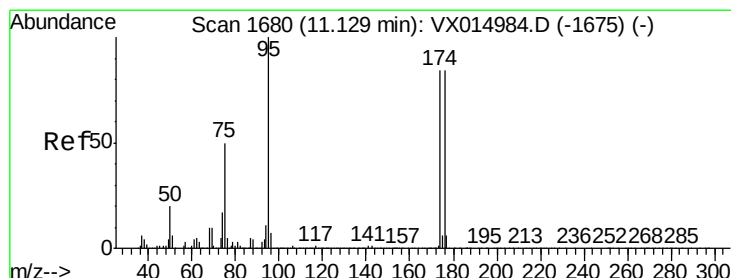
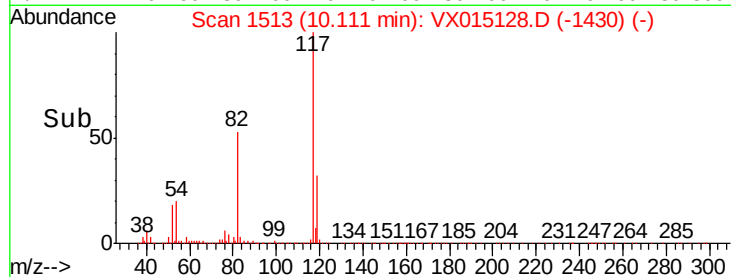
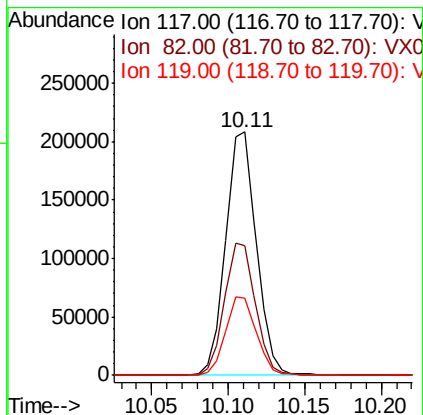
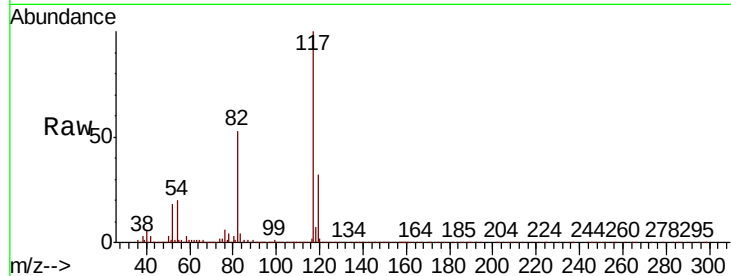




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.01 min
Lab File: VX015128.D
Acq: 06 Mar 2020 15:40

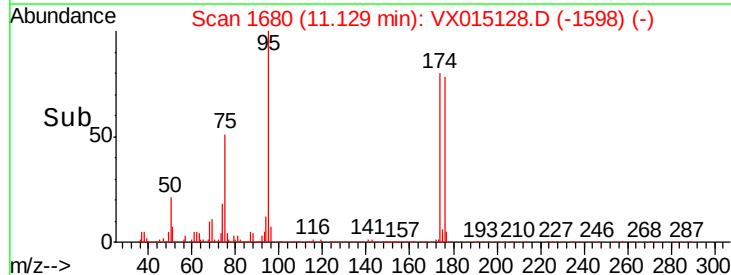
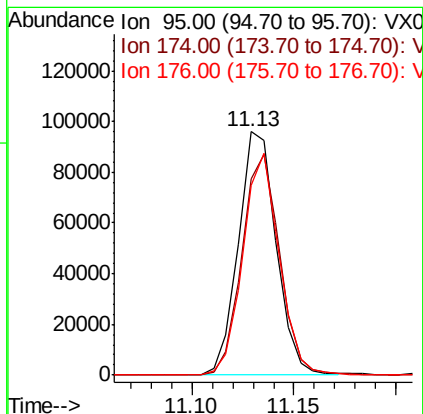
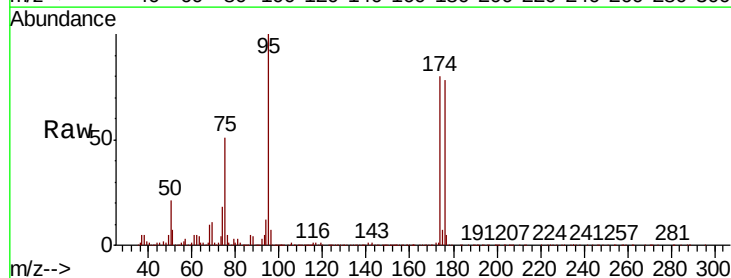
Instrument :
MSVOA_X
ClientSampled :

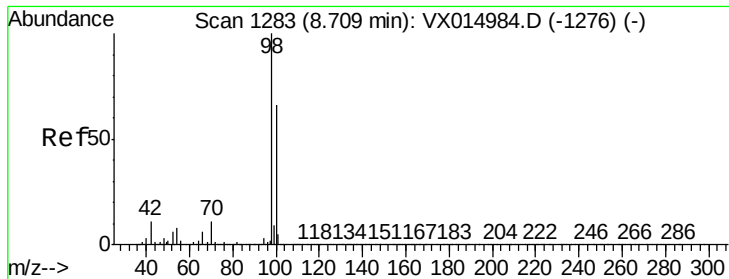
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.4	65.2
119	32.1	26.0	39.0



#60
4-Bromofluorobenzene
Concen: 27.300 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX015128.D
Acq: 06 Mar 2020 15:40

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.0	72.3	108.5
176	88.4	72.0	108.0

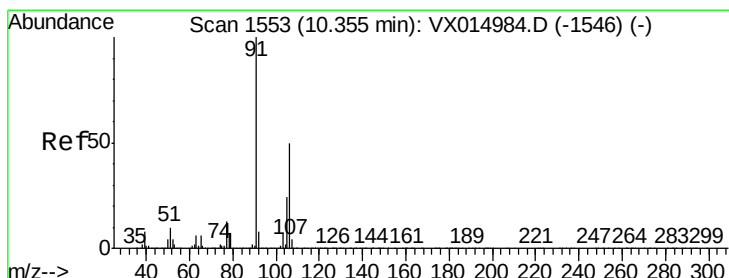
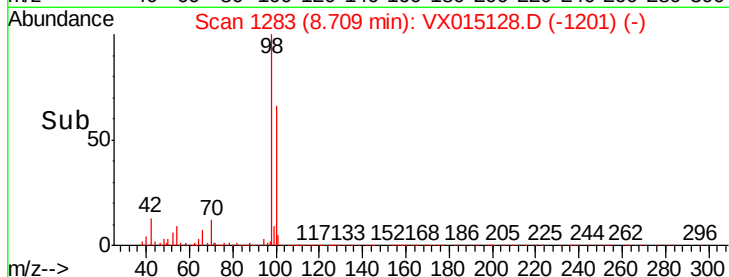
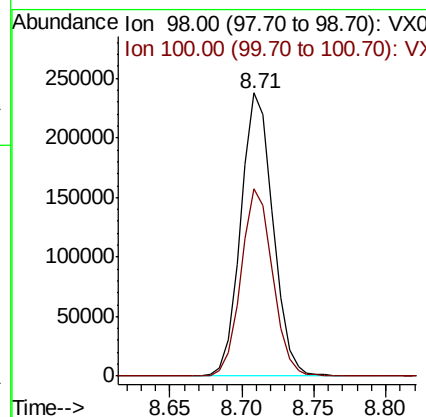
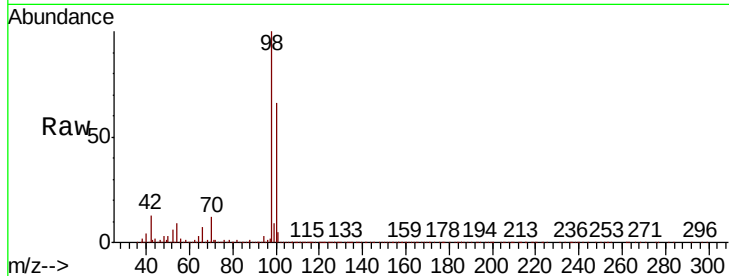




#63
Toluene-d8
Concen: 29.194 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015128.D
Acq: 06 Mar 2020 15:40

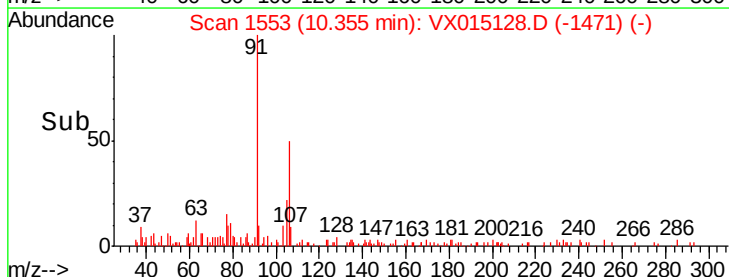
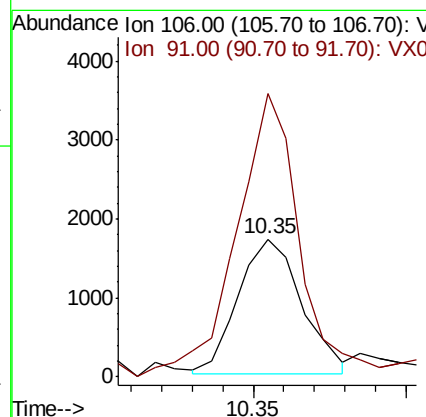
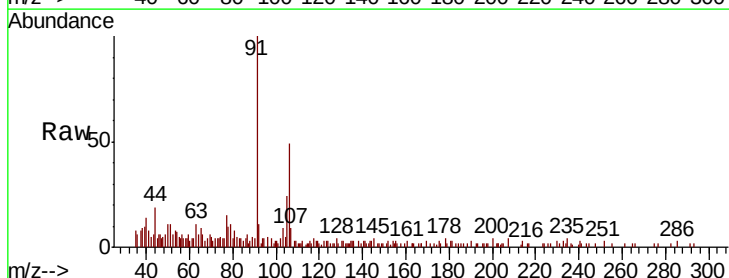
Instrument :
MSVOA_X
ClientSampled :

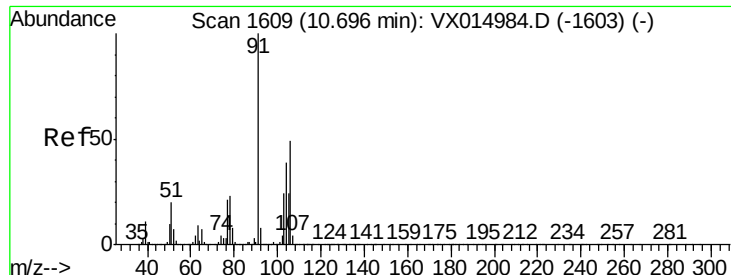
Tot Ion: 98 Resp: 368900
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2



#67
m/p-Xylenes
Concen: 0.389 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX015128.D
Acq: 06 Mar 2020 15:40

Tgt Ion: 106 Resp: 2451
Ion Ratio Lower Upper
106 100
91 208.7 160.4 240.6

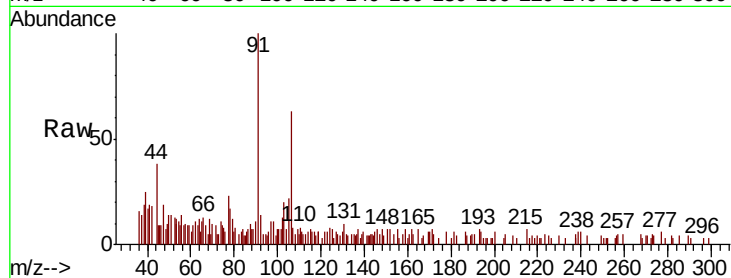




#68
 o-Xylene
 Concen: 0.245 ug/l
 RT: 10.70 min Scan# 1609
 Delta R.T. -0.00 min
 Lab File: VX015128.D
 Acq: 06 Mar 2020 15:40

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:106 Resp: 1495
 Ion Ratio Lower Upper
 106 100
 91 195.0 105.3 315.9



Abundance Ion 106.00 (105.70 to 106.70): V
 2000 Ion 91.00 (90.70 to 91.70): VX0

