

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020520\
 Data File : VX014820.D
 Acq On : 05 Feb 2020 14:21
 Operator : JC/SP
 Sample : L1392-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 06 03:05:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	63688	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	367396	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	329878	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.06	65	147581	32.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.90%
60) 4-Bromofluorobenzene	11.14	95	153513	29.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.93%
63) Toluene-d8	8.71	98	440728	29.58	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.60%

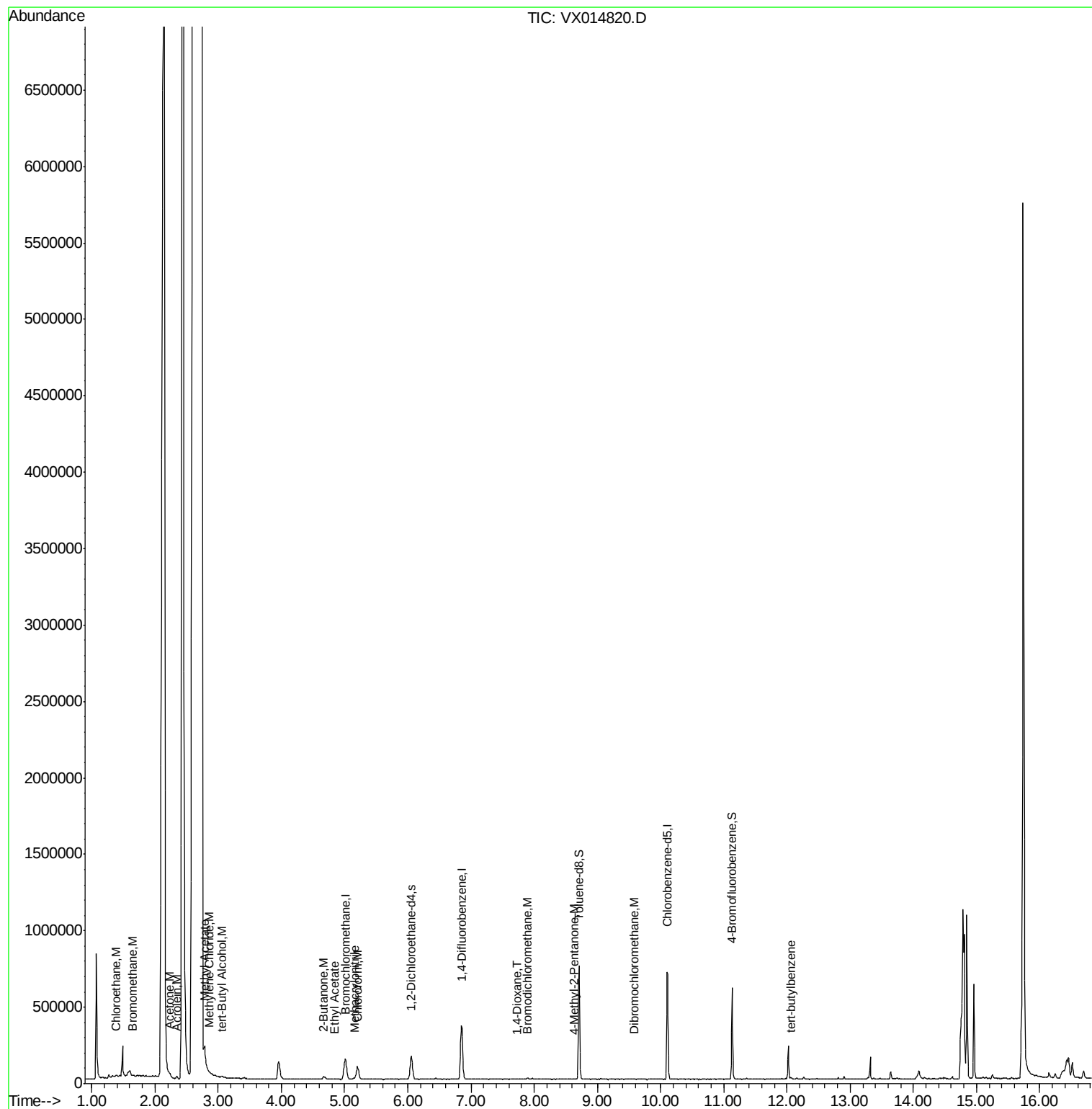
Target Compounds					Ovalue
5) Bromomethane	1.64	94	1075	0.318	ug/l 81
6) Chloroethane	1.38	64	716	0.235	ug/l 95
12) Methyl Acetate	2.78	43	177002	27.791	ug/l 99
13) Acrolein	2.34	56	818	1.223	ug/l 96
15) Acetone	2.24	58	431	0.590	ug/l 76
18) Methylene Chloride	2.86	84	956	0.232	ug/l # 76
23) tert-Butyl Alcohol	3.06	59	5221	5.793	ug/l # 96
25) Chloroform	5.20	83	97970	14.421	ug/l 99
30) 2-Butanone	4.67	43	26999	7.910	ug/l # 98
35) Methacrylonitrile	5.16	41	693	0.203	ug/l 81
41) Bromodichloromethane	7.89	83	5550	1.019	ug/l # 96
43) Ethyl Acetate	4.83	43	6013	0.973	ug/l 99
45) 1,4-Dioxane	7.72	88	114	1.143	ug/l # 1
53) Dibromochloromethane	9.57	129	1513	0.349	ug/l 90
58) 4-Methyl-2-Pentanone	8.62	43	1824	0.294	ug/l # 58
79) tert-butylbenzene	12.06	119	3007	0.207	ug/l 74

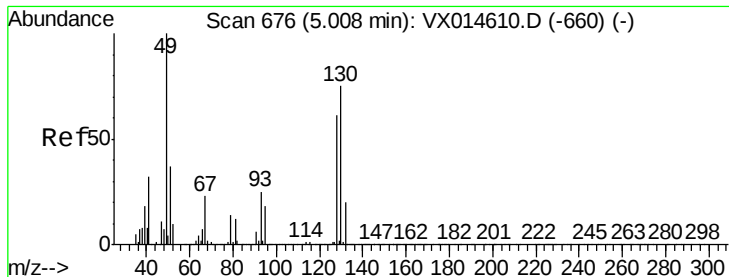
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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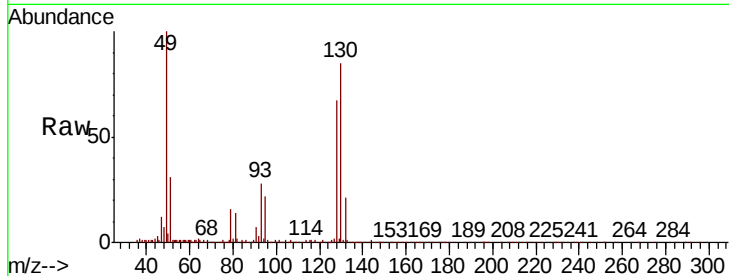


#1

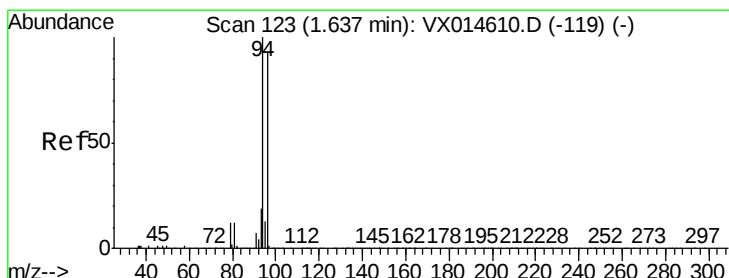
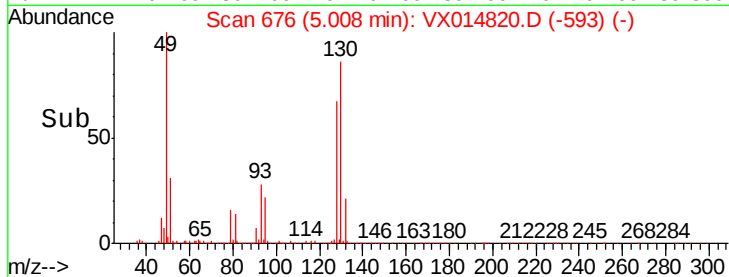
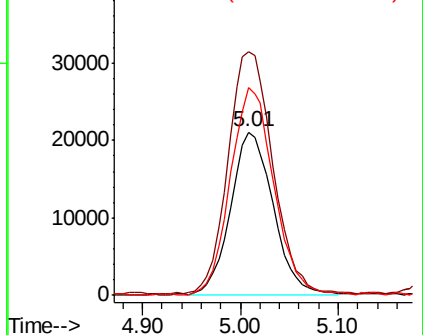
Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.01 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VX014820.D
 Acq: 05 Feb 2020 14:21

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:128 Resp: 63688
 Ion Ratio Lower Upper
 128 100
 49 156.1 0.0 405.0
 130 129.7 0.0 321.5



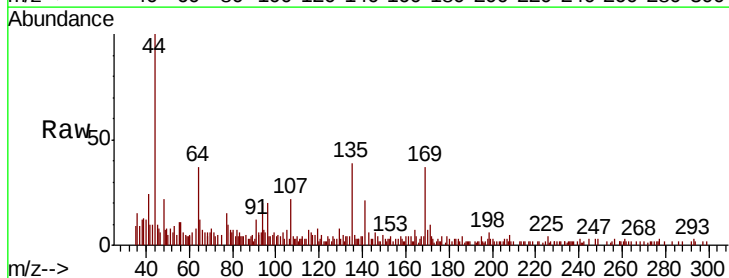
Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VX0
 Ion 130.00 (129.70 to 130.70): V



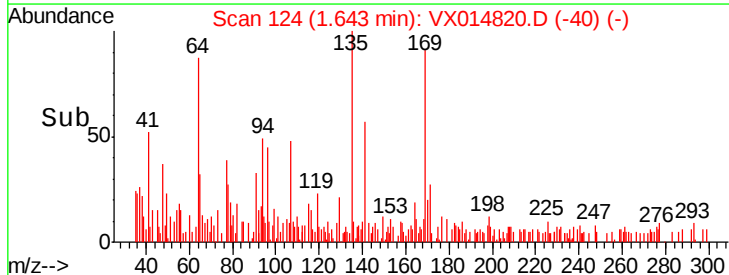
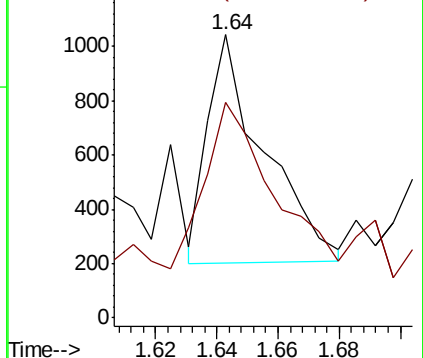
#5

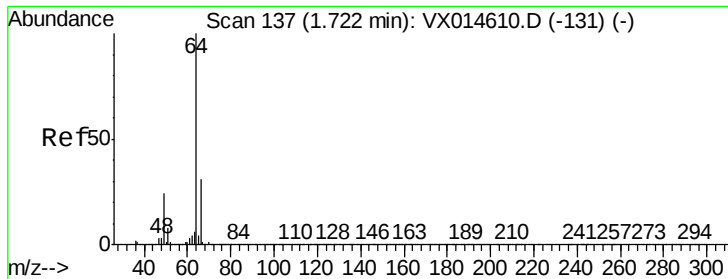
Bromomethane
 Concen: 0.318 ug/l
 RT: 1.64 min Scan# 124
 Delta R.T. 0.01 min
 Lab File: VX014820.D
 Acq: 05 Feb 2020 14:21

Tgt Ion: 94 Resp: 1075
 Ion Ratio Lower Upper
 94 100
 96 74.4 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VX0
 Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 0.235 ug/l

RT: 1.38 min Scan# 81

Delta R.T. -0.32 min

Lab File: VX014820.D

Acq: 05 Feb 2020 14:21

Instrument :

MSVOA_X

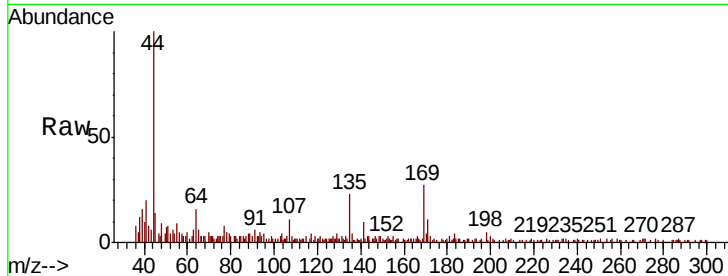
ClientSampleId :

Tot Ion: 64 Resp: 716

Ion Ratio Lower Upper

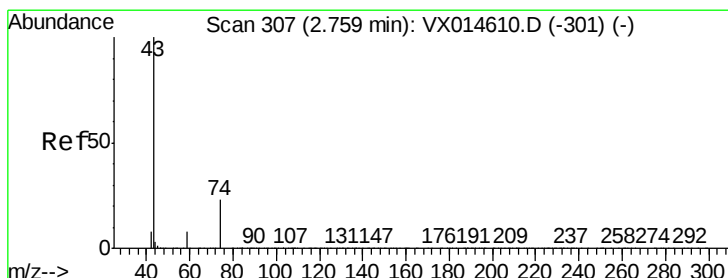
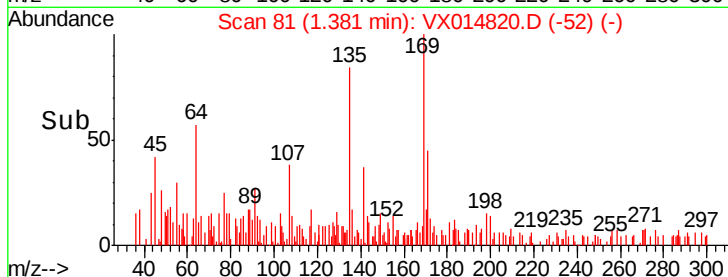
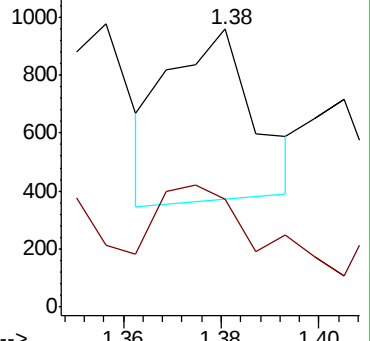
64 100

66 34.1 25.2 37.8



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#12

Methyl Acetate

Concen: 27.791 ug/l

RT: 2.78 min Scan# 311

Delta R.T. 0.02 min

Lab File: VX014820.D

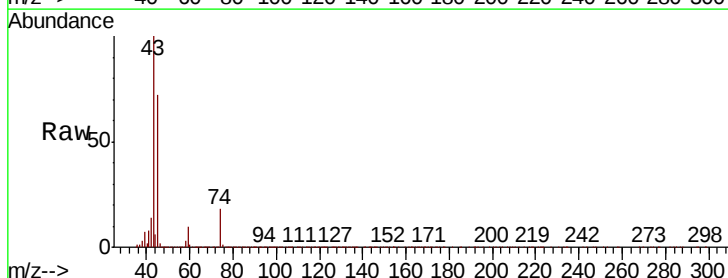
Acq: 05 Feb 2020 14:21

Tgt Ion: 43 Resp: 177002

Ion Ratio Lower Upper

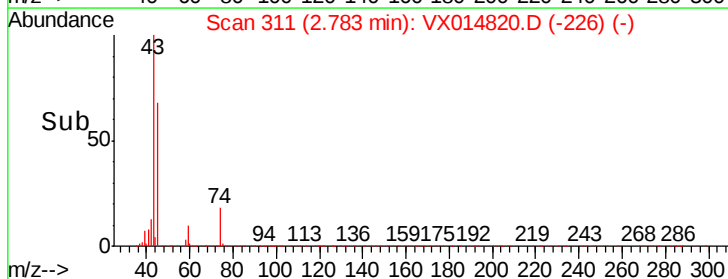
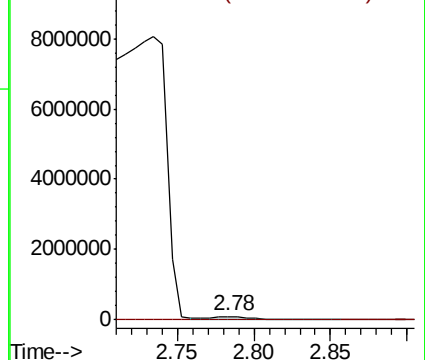
43 100

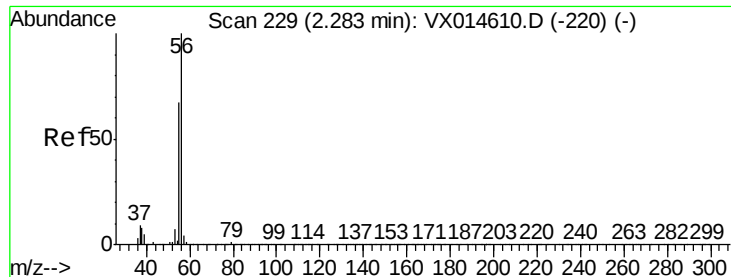
74 23.6 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#13

Acrolein

Concen: 1.223 ug/l

RT: 2.34 min Scan# 238

Delta R.T. 0.05 min

Lab File: VX014820.D

Acq: 05 Feb 2020 14:21

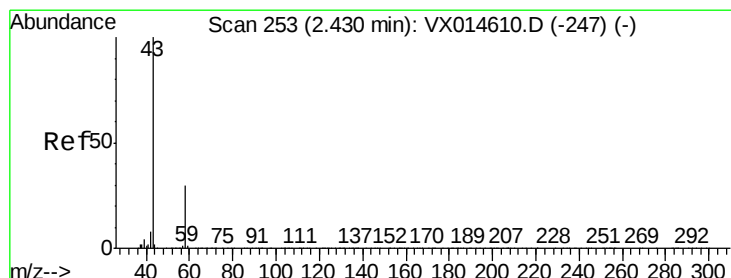
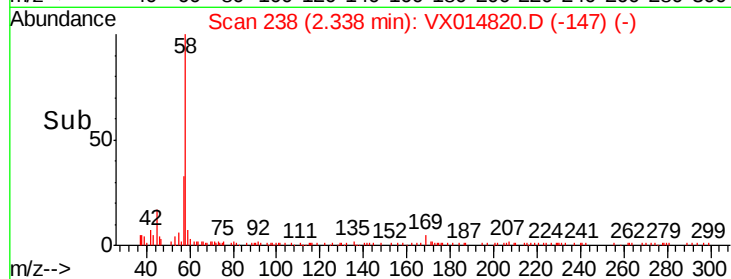
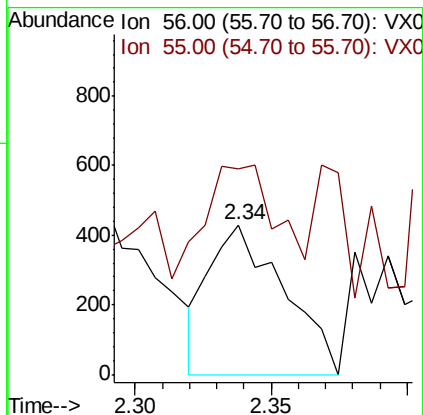
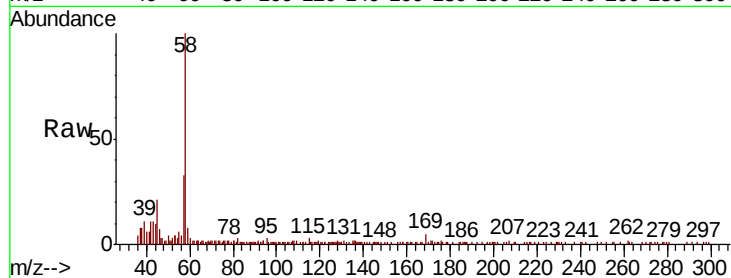
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 818

Ion Ratio Lower Upper

56 100

55 71.5 54.9 82.3



#15

Acetone

Concen: 0.590 ug/l

RT: 2.24 min Scan# 222

Delta R.T. -0.20 min

Lab File: VX014820.D

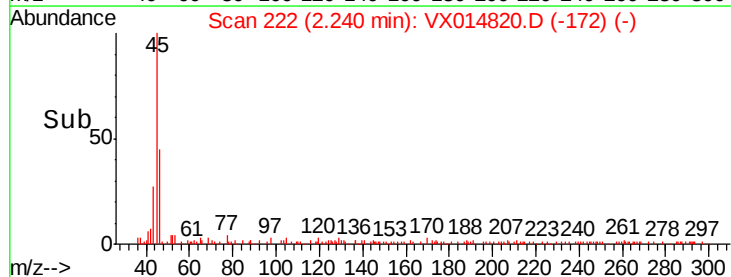
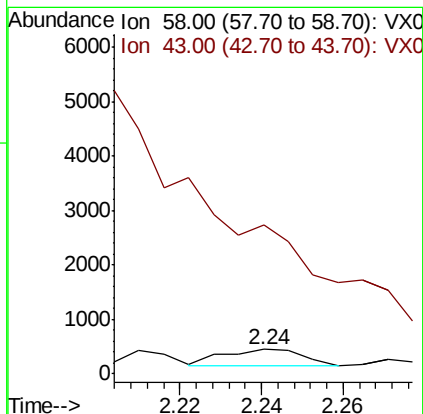
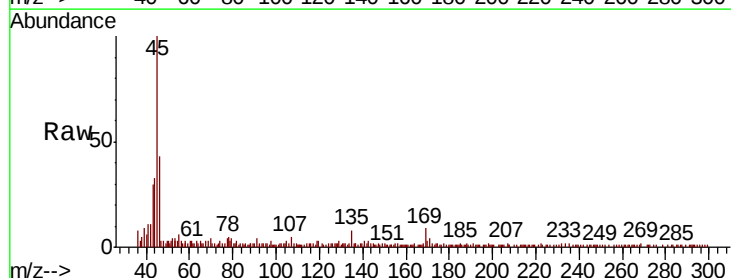
Acq: 05 Feb 2020 14:21

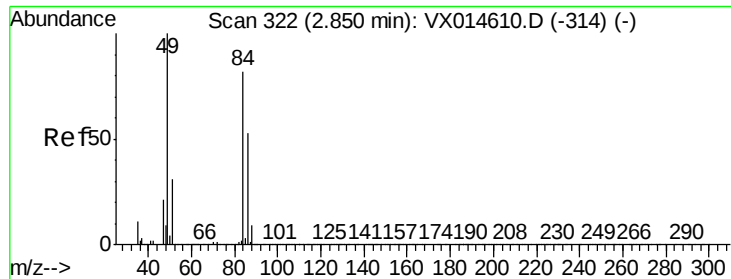
Tgt Ion: 58 Resp: 431

Ion Ratio Lower Upper

58 100

43 342.2 236.3 354.5

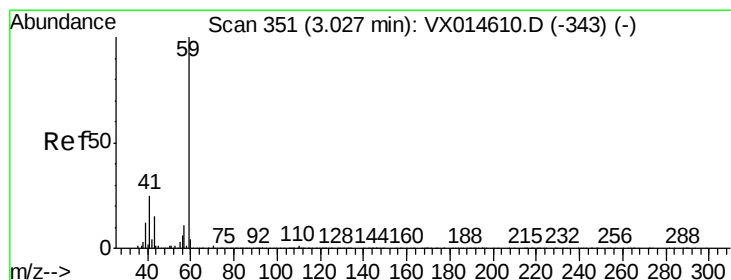
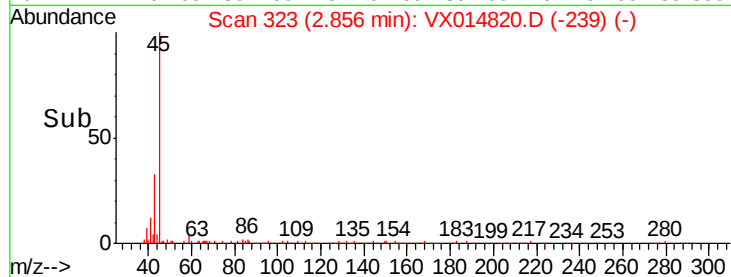
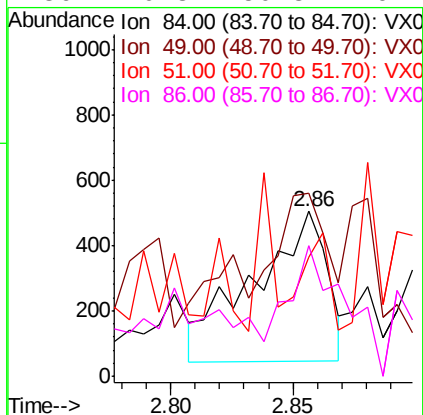
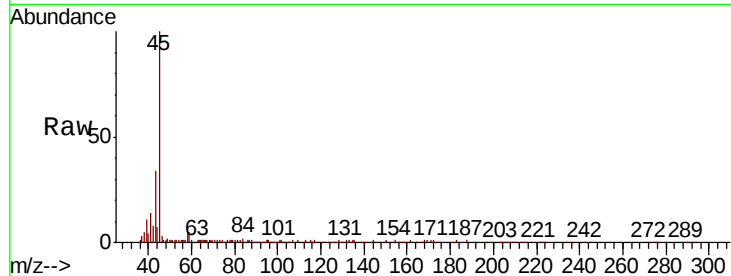




#18
Methylene Chloride
Concen: 0.232 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

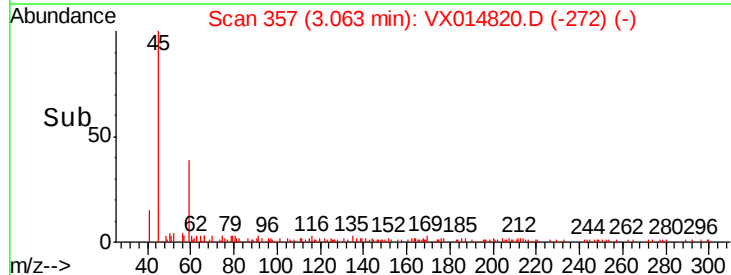
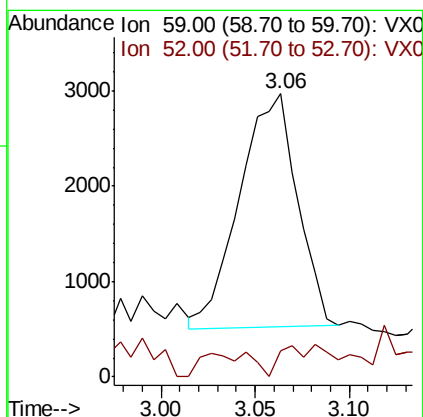
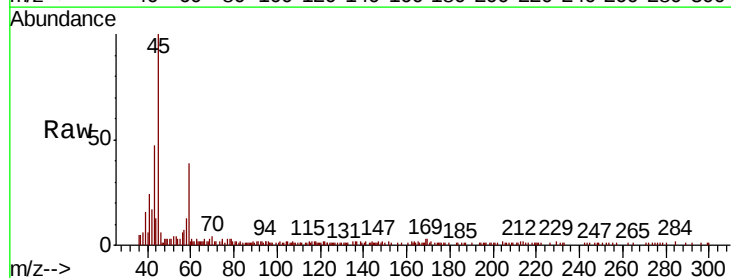
Instrument :
MSVOA_X
ClientSampled :

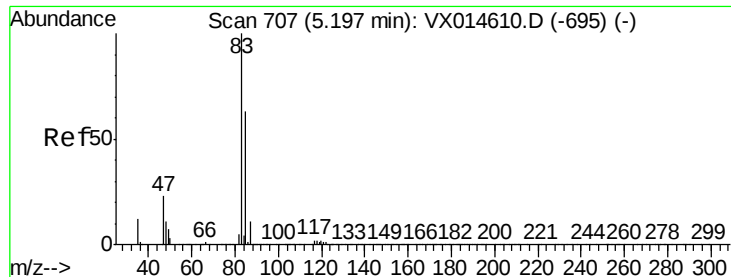
Tot Ion: 84 Resp: 956
Ion Ratio Lower Upper
84 100
49 99.1 102.2 153.2#
51 66.2 31.4 47.0#
86 70.3 50.8 76.2



#23
tert-Butyl Alcohol
Concen: 5.793 ug/l
RT: 3.06 min Scan# 357
Delta R.T. 0.02 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

Tgt Ion: 59 Resp: 5221
Ion Ratio Lower Upper
59 100
52 5.6 0.2 0.2#





#25

Chloroform

Concen: 14.421 ug/l

RT: 5.20 min Scan# 708

Delta R.T. -0.00 min

Lab File: VX014820.D

Acq: 05 Feb 2020 14:21

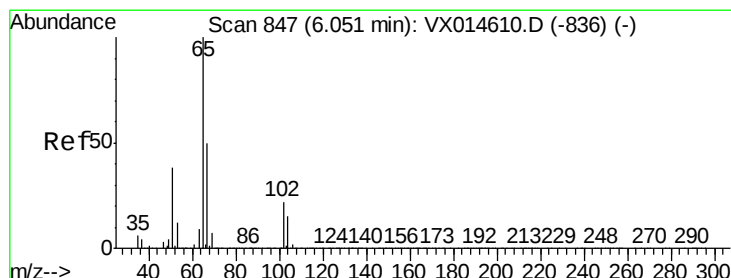
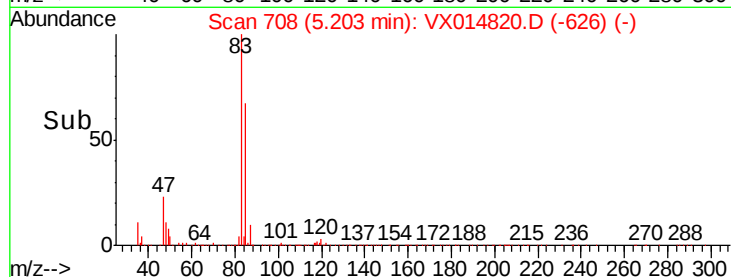
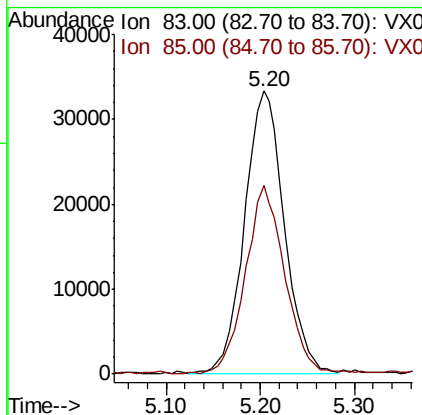
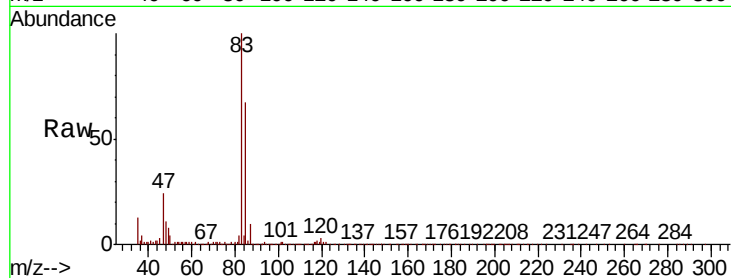
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 97970

Ion Ratio Lower Upper

83 100

85 66.4 52.7 79.1



#27

1,2-Dichloroethane-d4

Concen: 32.968 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014820.D

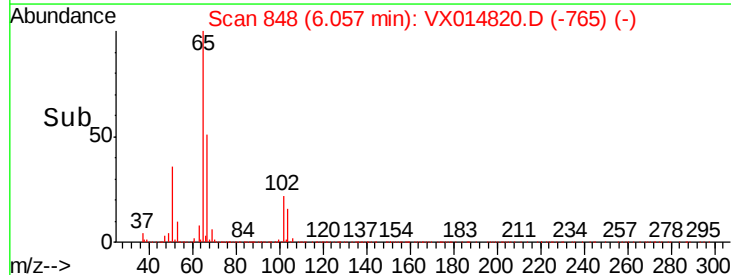
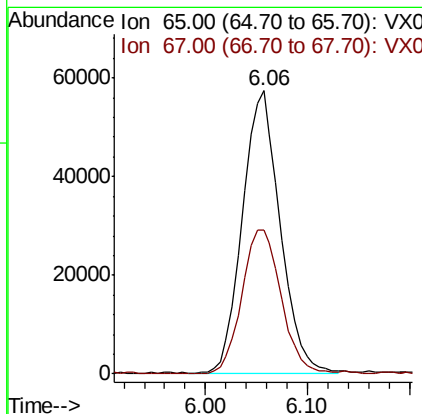
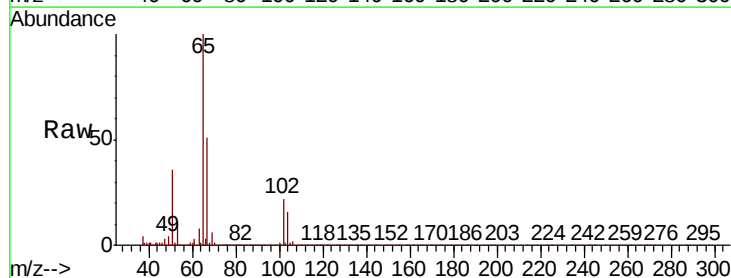
Acq: 05 Feb 2020 14:21

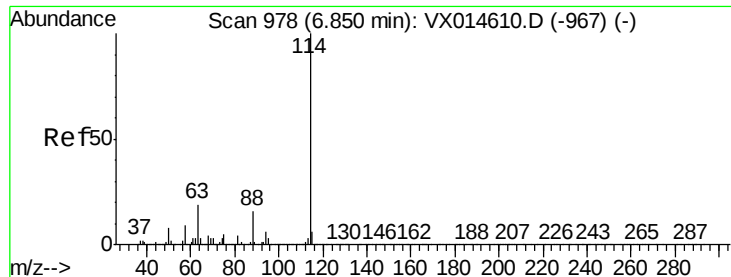
Tgt Ion: 65 Resp: 147581

Ion Ratio Lower Upper

65 100

67 52.6 43.1 64.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014820.D

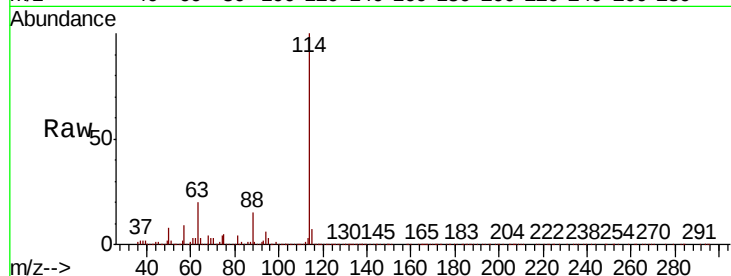
Acq: 05 Feb 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	114	Resp:	367396
Ion	Ratio	Lower	Upper
114	100		
63	20.0	16.1	24.1
88	15.6	12.5	18.7



Abundance Ion 114.00 (113.70 to 114.70): VX014610.D (-967) (-)

Ion 63.00 (62.70 to 63.70): VX014610.D (-967) (-)

Ion 88.00 (87.70 to 88.70): VX014610.D (-967) (-)

6.85

150000

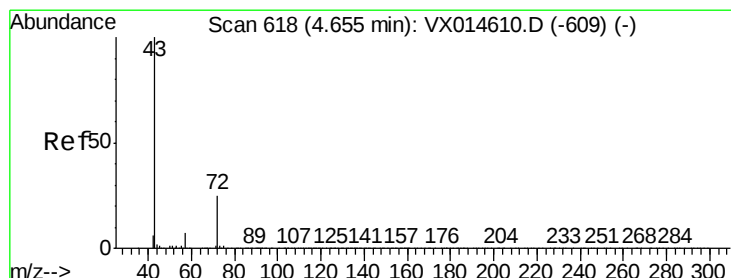
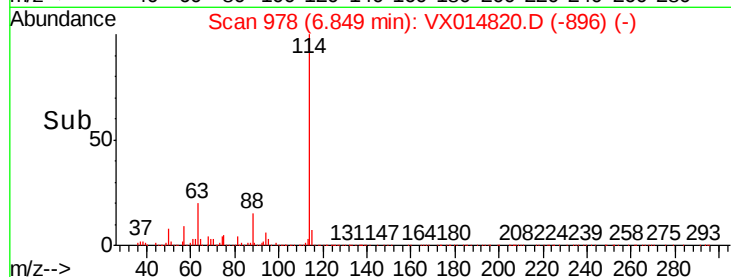
100000

50000

0

6.80 6.90

Time-->



#30

2-Butanone

Concen: 7.910 ug/l

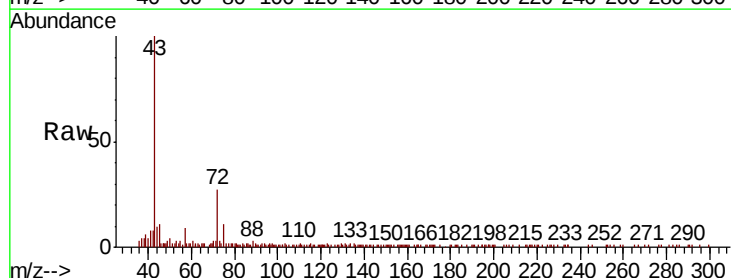
RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014820.D

Acq: 05 Feb 2020 14:21

Tgt Ion:	43	Resp:	26999
Ion	Ratio	Lower	Upper
43	100		
57	9.3	6.2	9.2#
72	26.3	20.3	30.5



Abundance Ion 43.00 (42.70 to 43.70): VX014610.D (-609) (-)

Ion 57.00 (56.70 to 57.70): VX014610.D (-609) (-)

Ion 72.00 (71.70 to 72.70): VX014610.D (-609) (-)

4.67

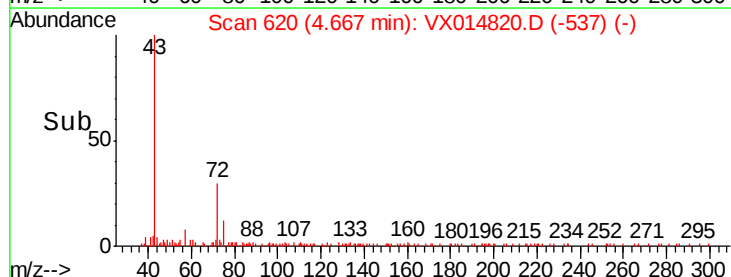
10000

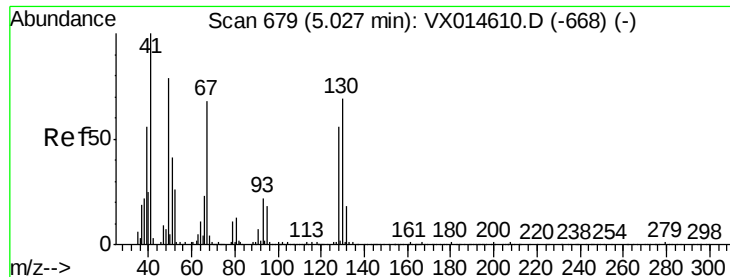
5000

0

4.60 4.65 4.70

Time-->

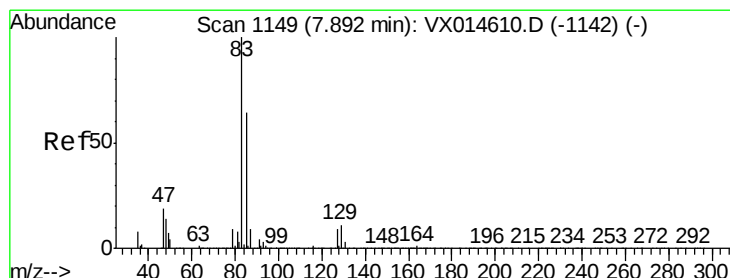
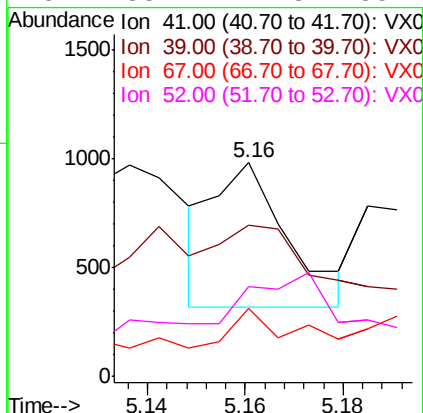
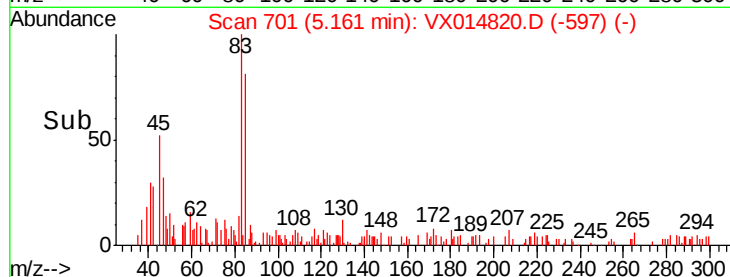
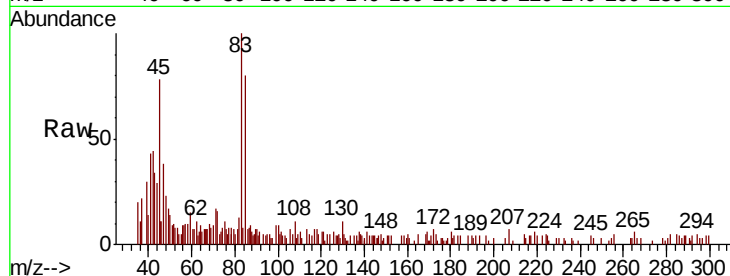




#35
Methacrylonitrile
Concen: 0.203 ug/l
RT: 5.16 min Scan# 701
Delta R.T. 0.13 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

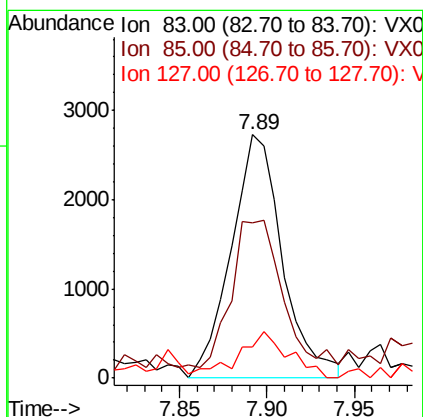
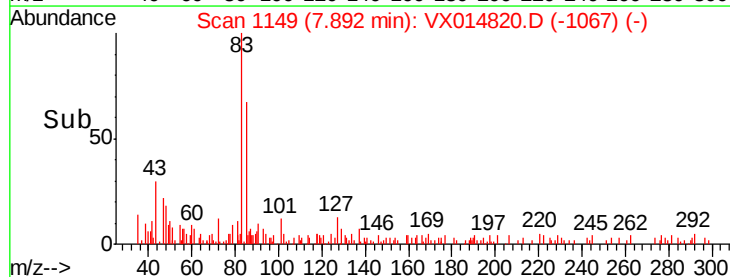
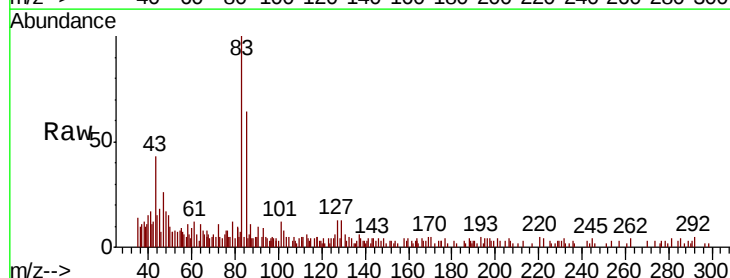
Instrument :
MSVOA_X
ClientSampled :

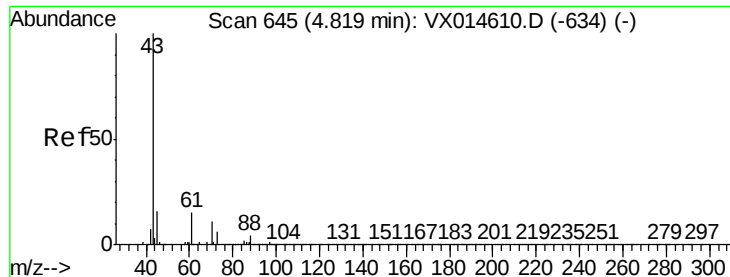
Tot Ion:	41	Resp:	693
Ion	Ratio	Lower	Upper
41	100		
39	51.0	26.7	80.1
67	35.9	31.5	94.5
52	33.1	12.8	38.4



#41
Bromodichloromethane
Concen: 1.019 ug/l
RT: 7.89 min Scan# 1149
Delta R.T. -0.00 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

Tgt Ion:	83	Resp:	5550
Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.6	77.4
127	12.5	6.0	9.0#

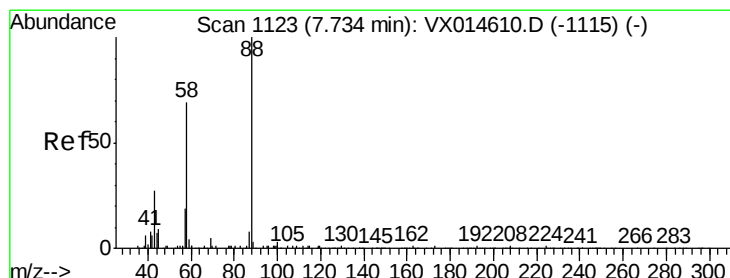
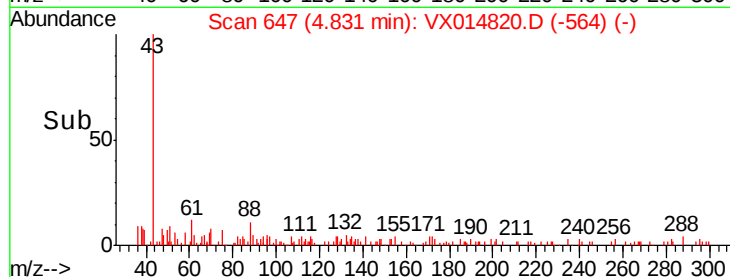
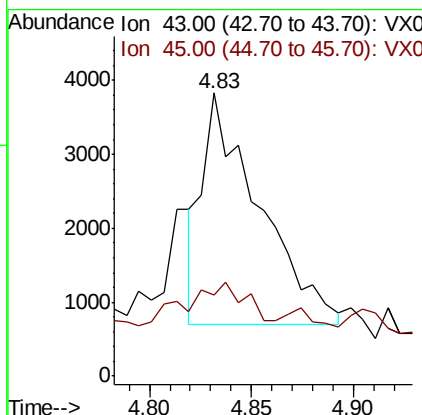
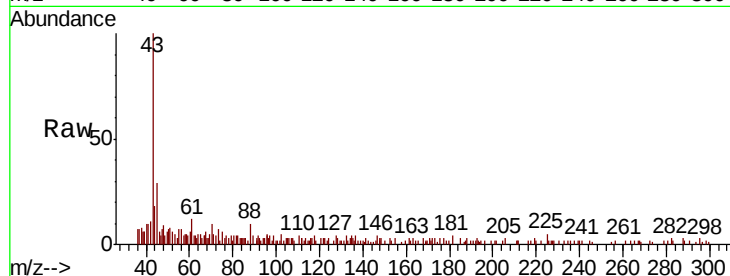




#43
Ethyl Acetate
Concen: 0.973 ug/l
RT: 4.83 min Scan# 647
Delta R.T. 0.01 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

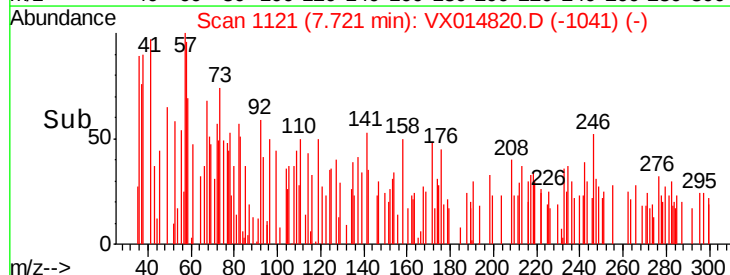
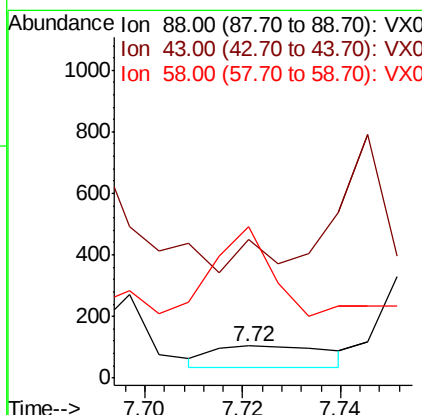
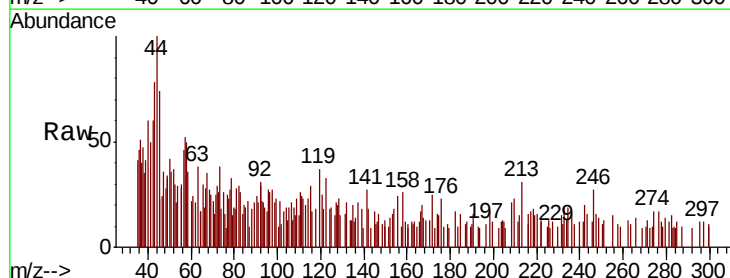
Instrument :
MSVOA_X
ClientSampled :

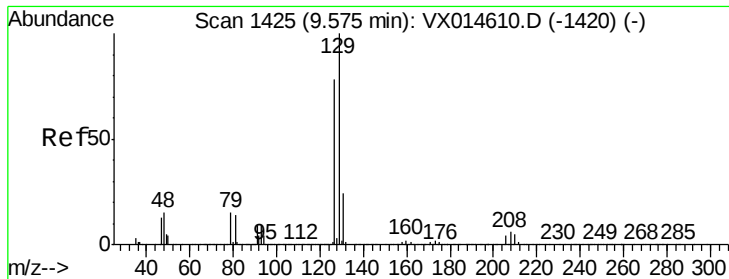
Tot Ion: 43 Resp: 6013
Ion Ratio Lower Upper
43 100
45 15.1 11.8 17.8



#45
1,4-Dioxane
Concen: 1.143 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

Tgt Ion: 88 Resp: 114
Ion Ratio Lower Upper
88 100
43 43.0 25.4 38.2#
58 274.6 56.5 84.7#

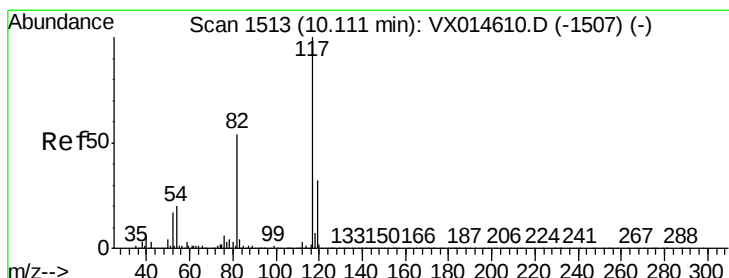
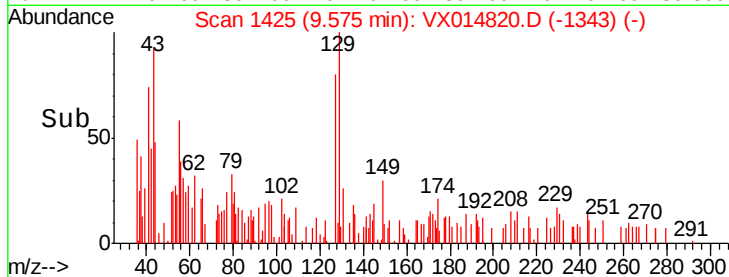
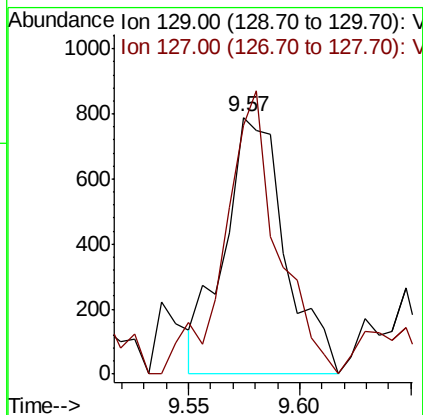
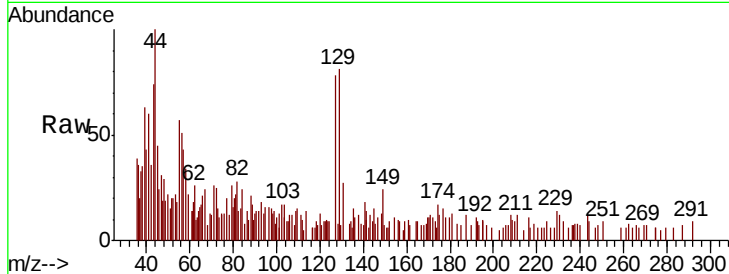




#53
Dibromochloromethane
Concen: 0.349 ug/l
RT: 9.57 min Scan# 1425
Delta R.T. -0.00 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

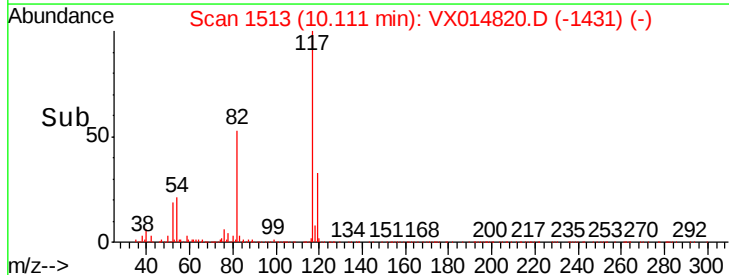
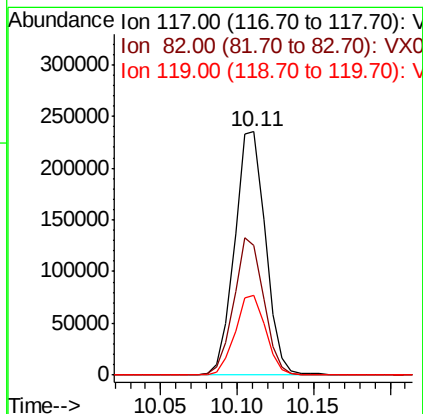
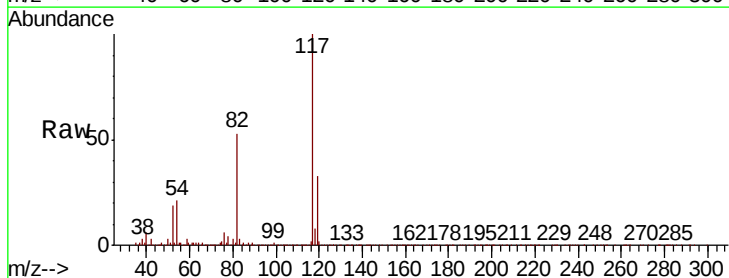
Instrument :
MSVOA_X
ClientSampleId :

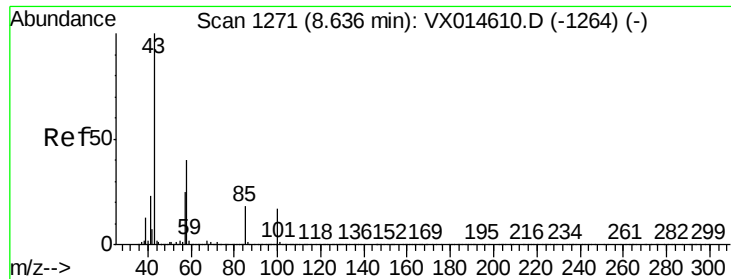
Tot Ion:129 Resp: 1513
Ion Ratio Lower Upper
129 100
127 86.8 39.1 117.5



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

Tgt Ion:117 Resp: 329878
Ion Ratio Lower Upper
117 100
82 54.4 43.8 65.6
119 32.5 25.8 38.6

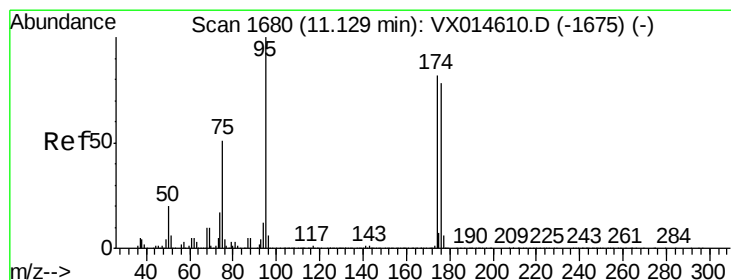
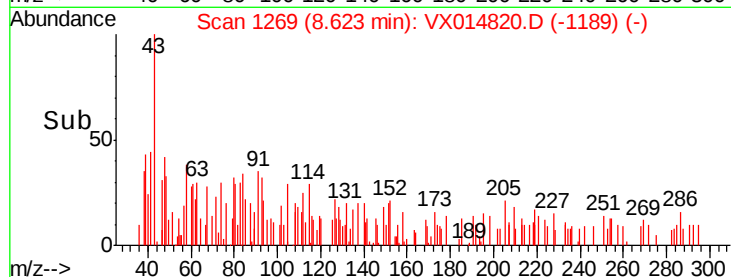
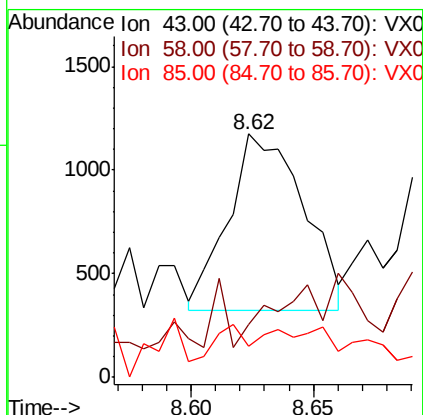
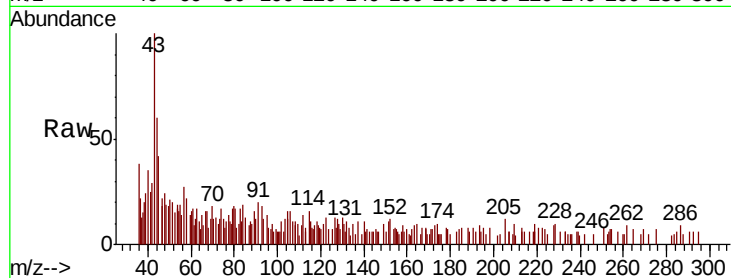




#58
4-Methyl-2-Pentanone
Concen: 0.294 ug/l
RT: 8.62 min Scan# 1269
Delta R.T. -0.01 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

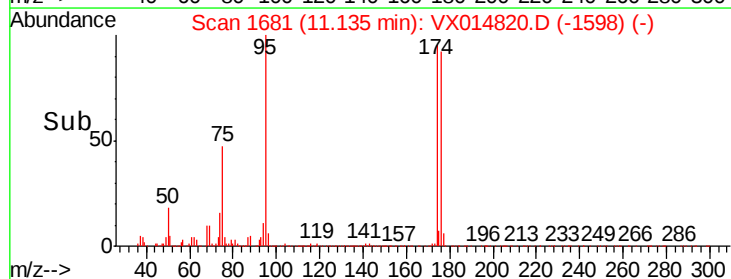
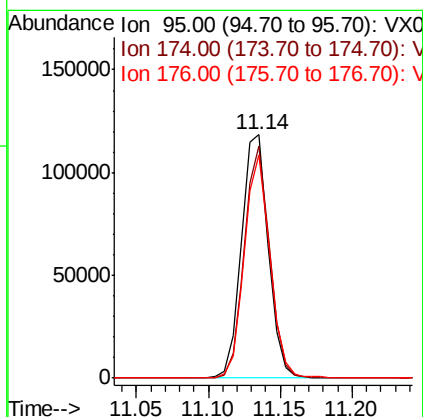
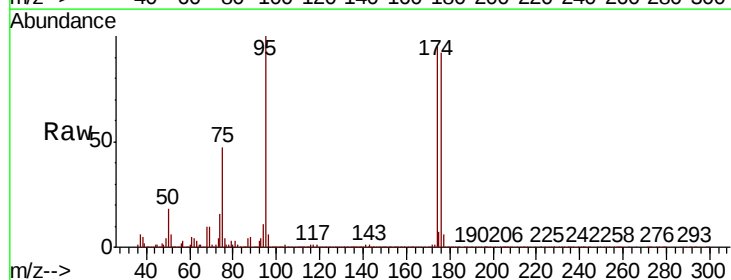
Instrument :
MSVOA_X
ClientSampled :

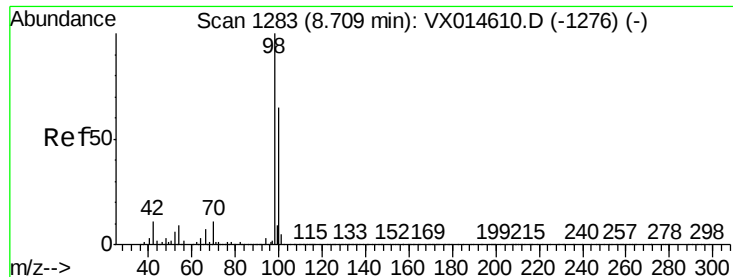
Tot Ion: 43 Resp: 1824
Ion Ratio Lower Upper
43 100
58 6.7 31.2 46.8#
85 9.5 14.2 21.2#



#60
4-Bromofluorobenzene
Concen: 29.081 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014820.D
Acq: 05 Feb 2020 14:21

Tgt Ion: 95 Resp: 153513
Ion Ratio Lower Upper
95 100
174 89.3 70.2 105.2
176 86.4 68.3 102.5





#63

Toluene-d8

Concen: 29.578 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014820.D

Acq: 05 Feb 2020 14:21

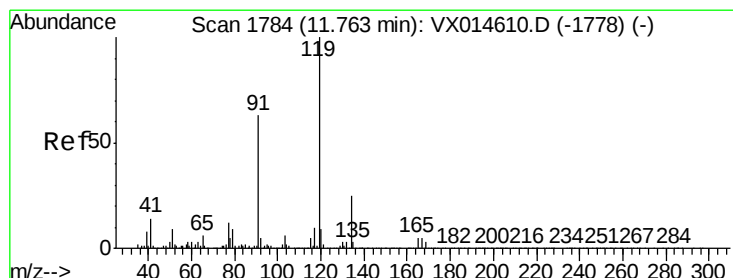
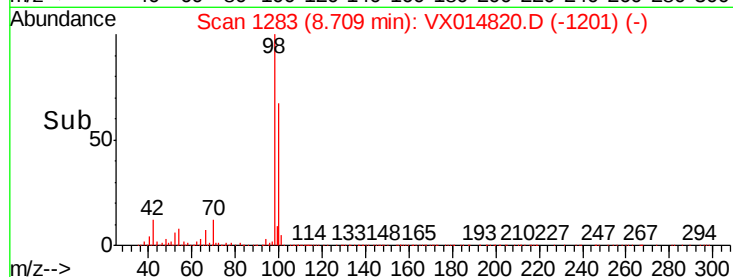
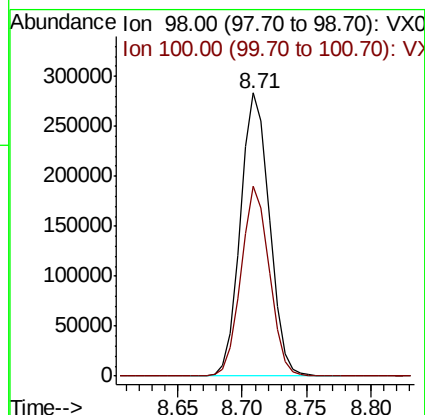
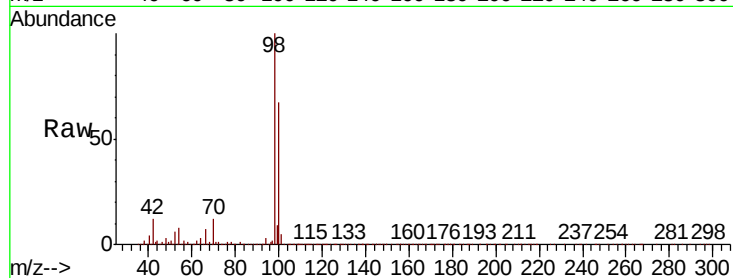
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 440728

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#79

tert-butylbenzene

Concen: 0.207 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.30 min

Lab File: VX014820.D

Acq: 05 Feb 2020 14:21

Tgt Ion: 119 Resp: 3007

Ion Ratio Lower Upper

119 100

91 36.5 0.0 112.6

134 36.0 0.0 49.8

