

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013428.D
 Acq On : 14 Nov 2019 18:07
 Operator : JC/SP
 Sample : K5859-01 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:58:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	118802	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.84	114	670382	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	590273	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	262666	29.94	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.80%
60) 4-Bromofluorobenzene	11.13	95	275740	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	8.70	98	800437	29.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.97%

Target Compounds

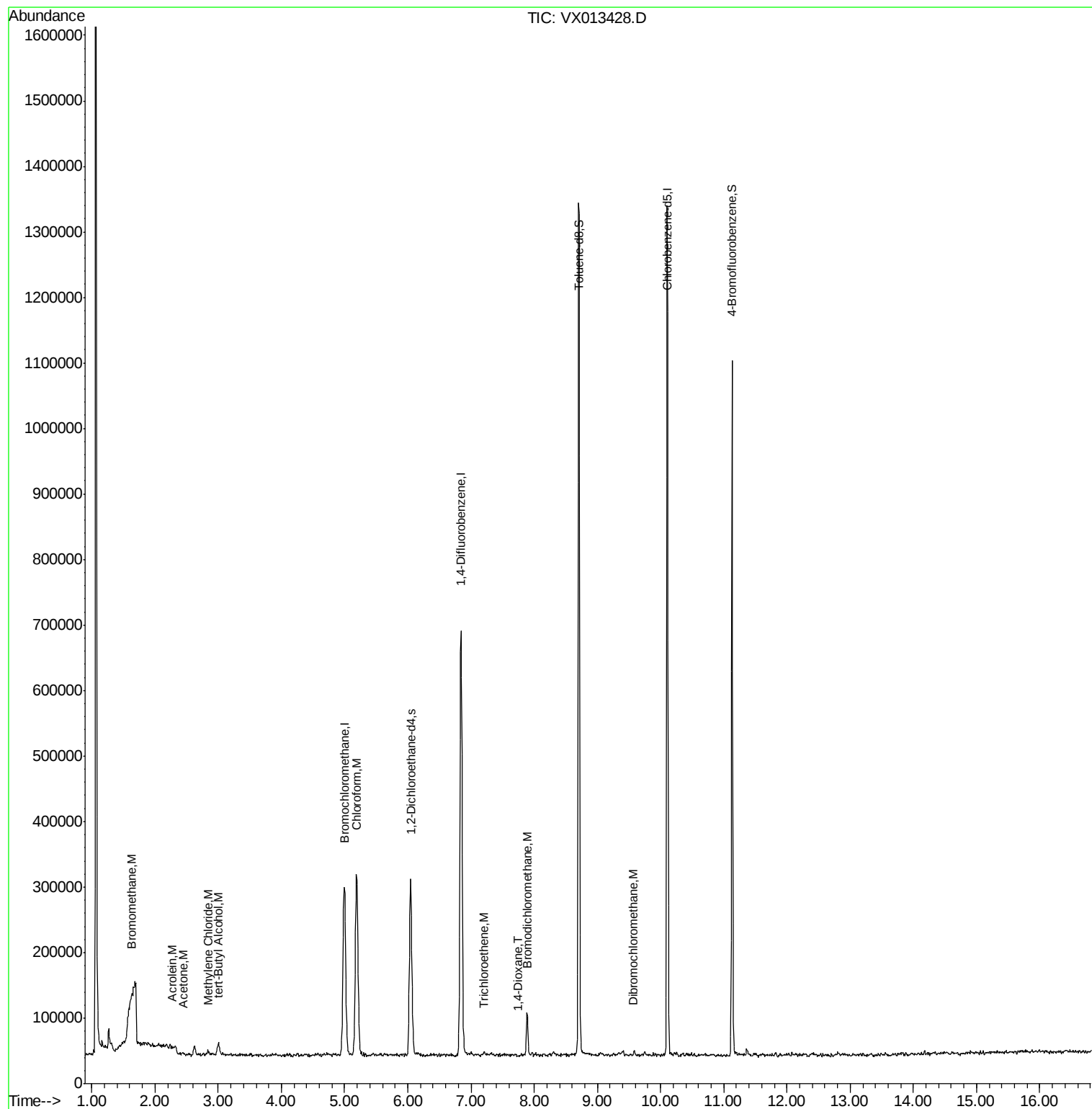
					Ovalue
5) Bromomethane	1.63	94	1471	0.222 ug/l	85
13) Acrolein	2.27	56	354	0.259 ug/l	90
15) Acetone	2.44	58	1401	0.978 ug/l	99
18) Methylene Chloride	2.84	84	2744	0.330 ug/l #	87
23) tert-Butyl Alcohol	3.00	59	12697	5.581 ug/l #	99
25) Chloroform	5.19	83	324706	23.429 ug/l	99
37) Trichloroethene	7.20	130	2033	0.244 ug/l	89
41) Bromodichloromethane	7.89	83	42405	4.065 ug/l	96
45) 1,4-Dioxane	7.75	88	101	0.462 ug/l #	1
53) Dibromochloromethane	9.57	129	2806	0.335 ug/l	100

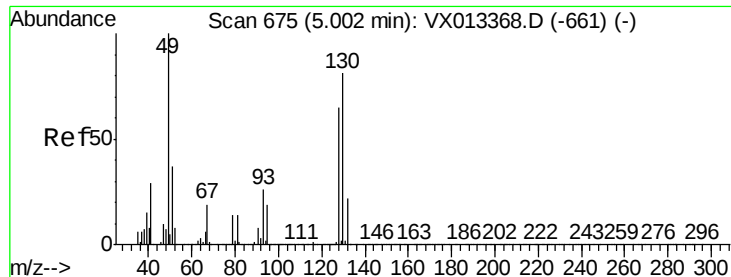
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

Instrument :
MSVOA_X
ClientSampleId :

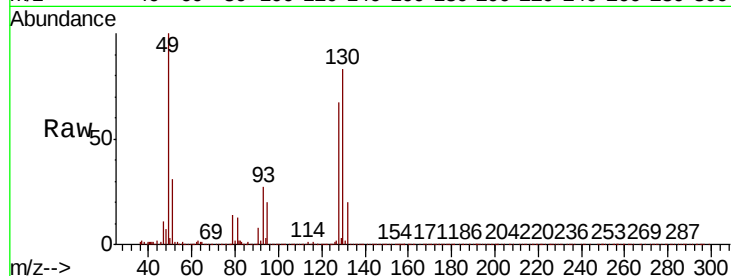
Tot Ion:128 Resp: 118802

Ion Ratio Lower Upper

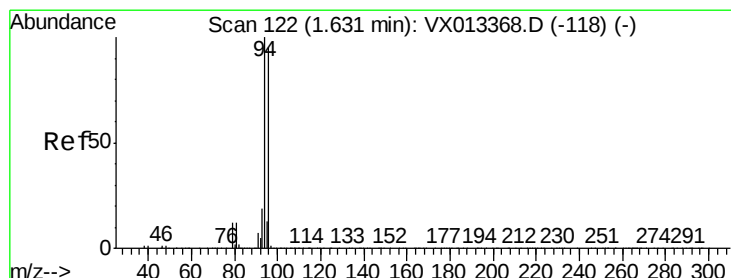
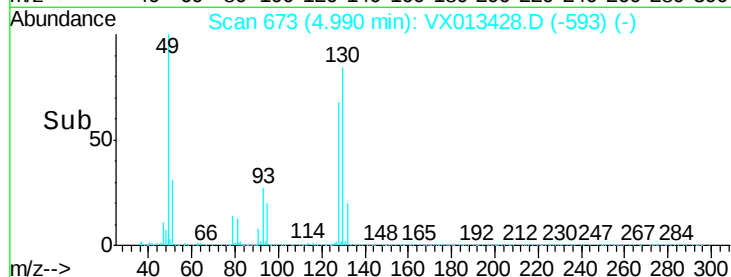
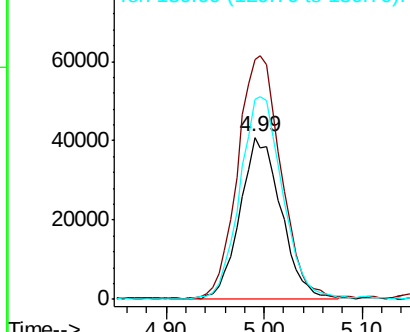
128 100

49 158.3 0.0 388.3

130 129.8 0.0 318.5



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: 0.222 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013428.D

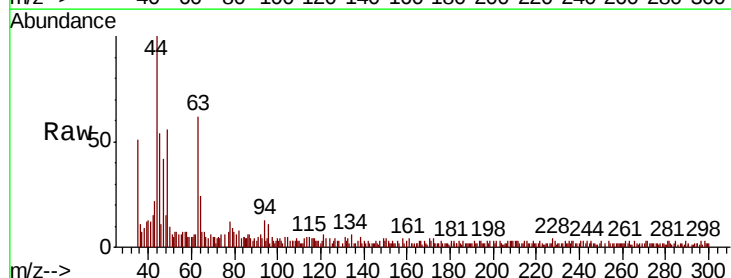
Acq: 14 Nov 2019 18:07

Tgt Ion: 94 Resp: 1471

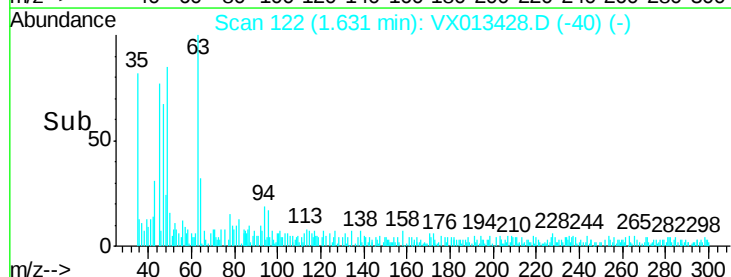
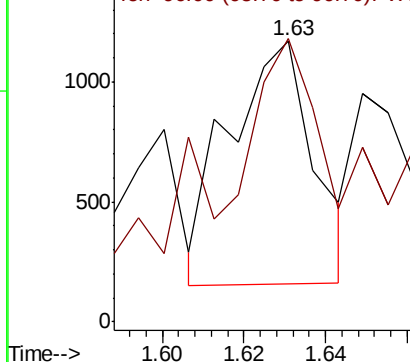
Ion Ratio Lower Upper

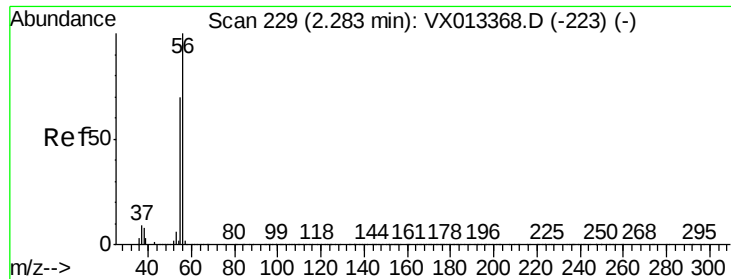
94 100

96 80.2 75.7 113.5



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

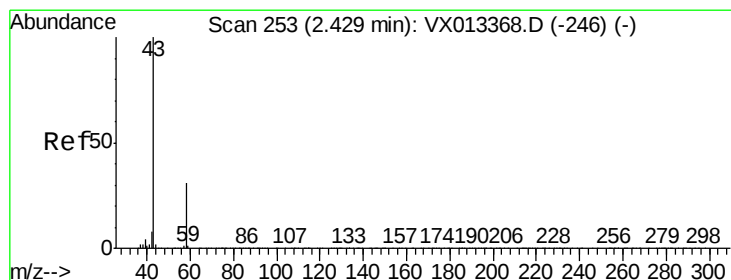
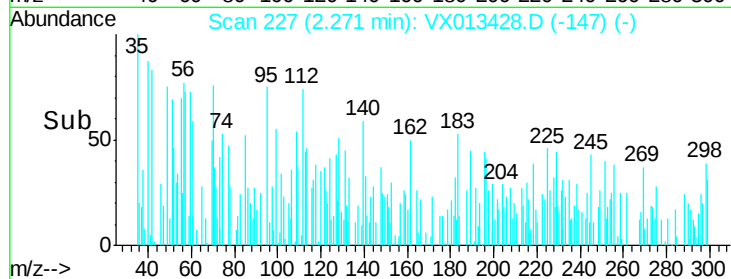
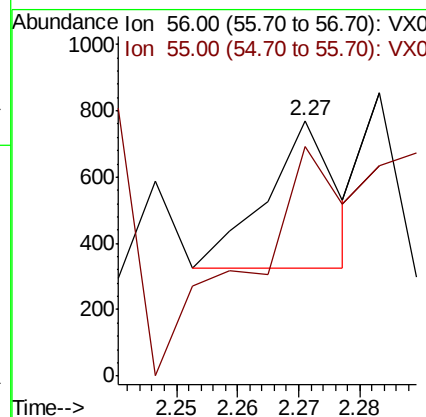
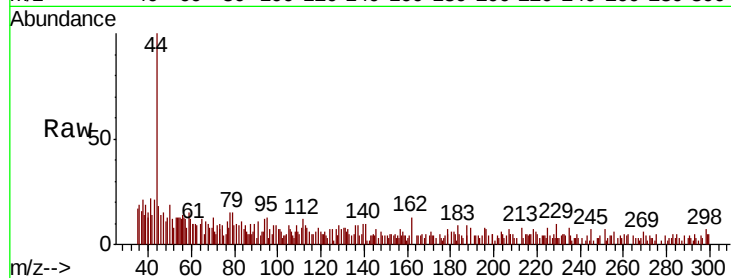




#13
Acrolein
Concen: 0.259 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX013428.D
Acq: 14 Nov 2019 18:07

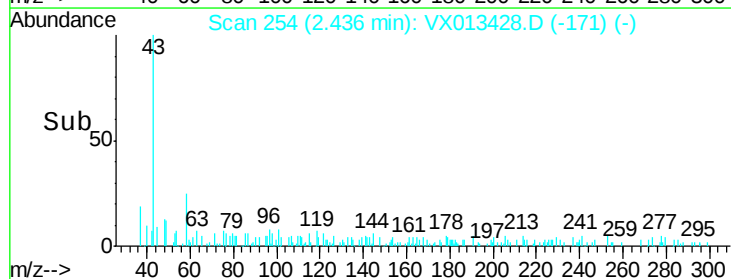
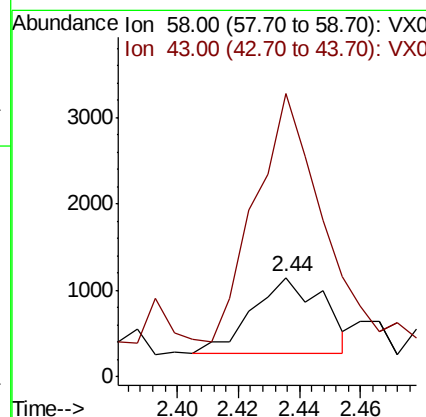
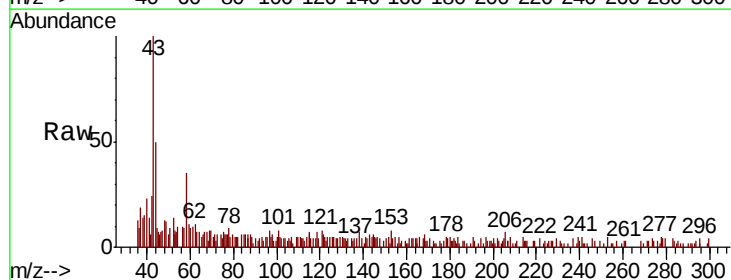
Instrument :
MSVOA_X
ClientSampled :

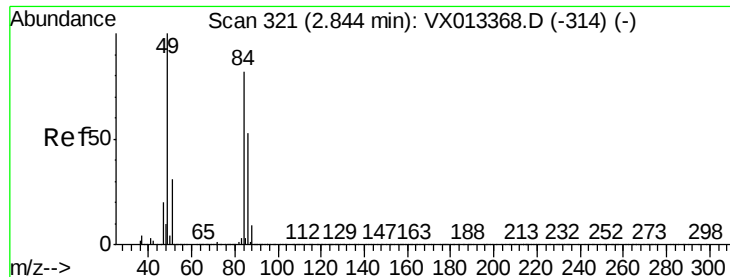
Tot Ion: 56 Resp: 354
Ion Ratio Lower Upper
56 100
55 61.6 55.8 83.8



#15
Acetone
Concen: 0.978 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013428.D
Acq: 14 Nov 2019 18:07

Tgt Ion: 58 Resp: 1401
Ion Ratio Lower Upper
58 100
43 325.3 261.4 392.2

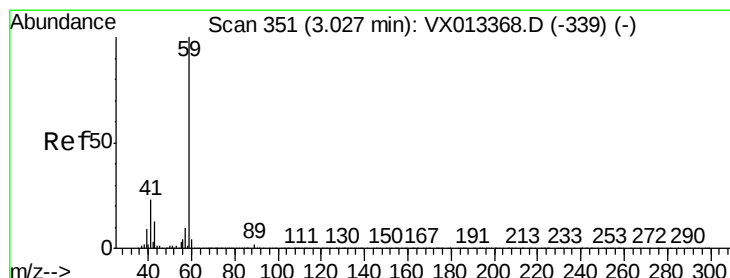
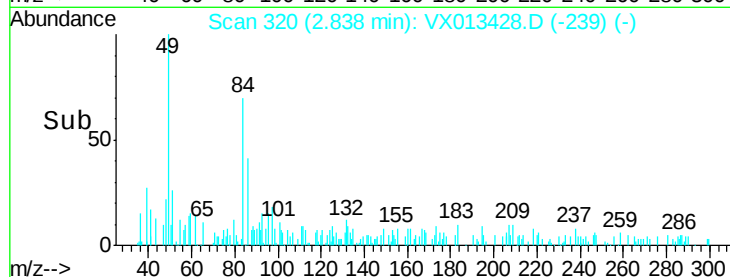
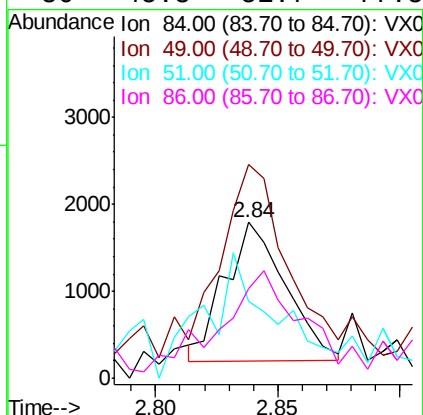
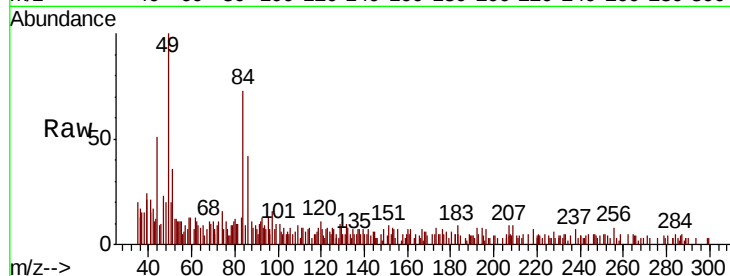




#18
Methvlene Chloride
Concen: 0.330 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX013428.D
Acq: 14 Nov 2019 18:07

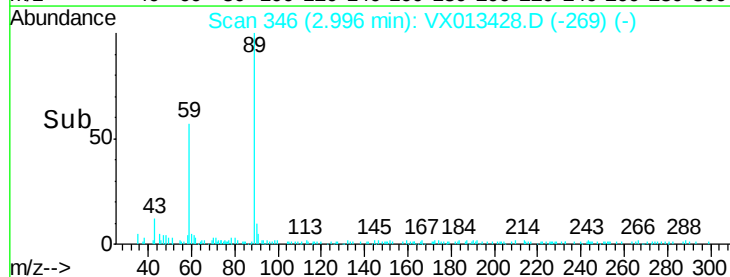
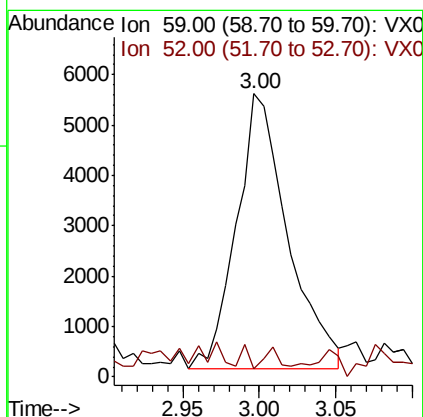
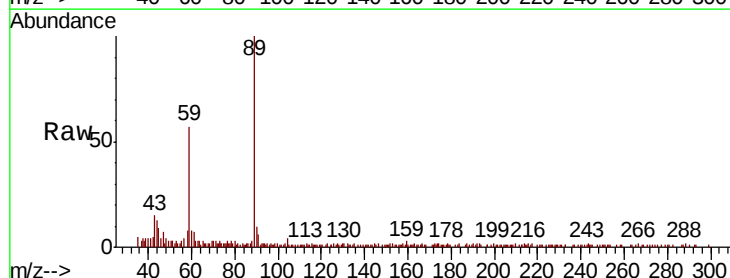
Instrument :
MSVOA_X
ClientSampleId :

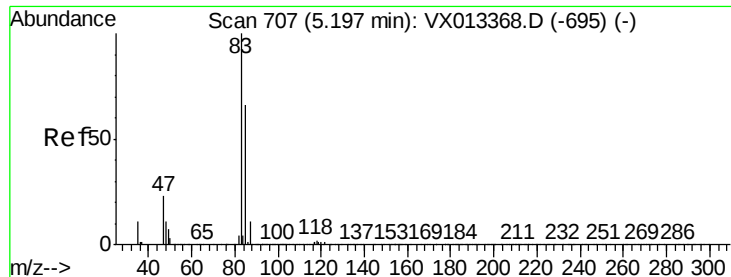
Tot Ion: 84 Resp: 2744
Ion Ratio Lower Upper
84 100
49 133.1 96.8 145.2
51 38.9 30.0 45.0
86 45.8 51.7 77.5#



#23
tert-Butyl Alcohol
Concen: 5.581 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.03 min
Lab File: VX013428.D
Acq: 14 Nov 2019 18:07

Tgt Ion: 59 Resp: 12697
Ion Ratio Lower Upper
59 100
52 1.4 0.1 0.1#





#25

Chloroform

Concen: 23.429 ug/l

RT: 5.19 min Scan# 706

Delta R.T. -0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

Instrument :

MSVOA_X

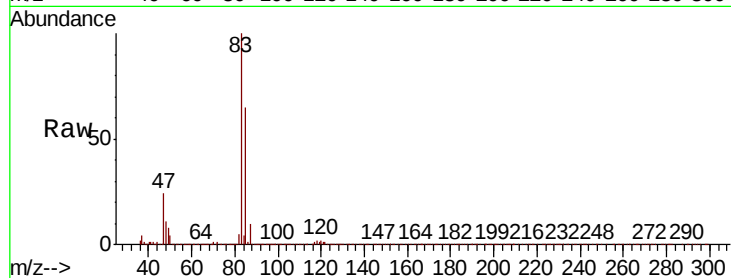
ClientSampleId :

Tot Ion: 83 Resp: 324706

Ion Ratio Lower Upper

83 100

85 64.7 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

120000

100000

80000

60000

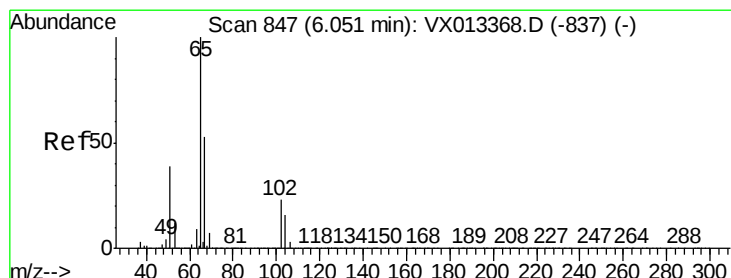
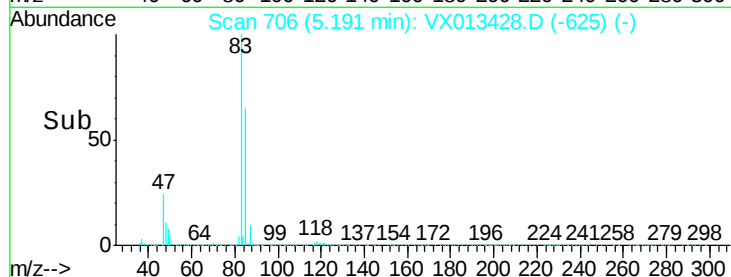
40000

20000

0

5.10 5.20 5.30

Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.942 ug/l

RT: 6.04 min Scan# 846

Delta R.T. -0.01 min

Lab File: VX013428.D

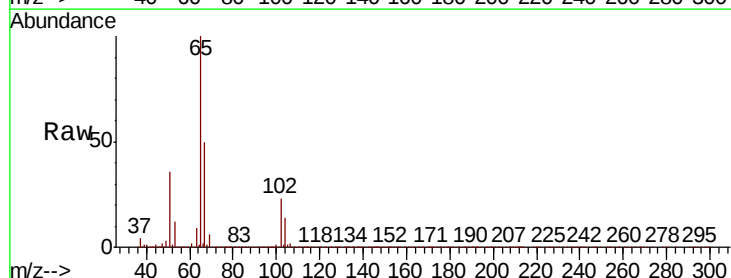
Acq: 14 Nov 2019 18:07

Tgt Ion: 65 Resp: 262666

Ion Ratio Lower Upper

65 100

67 51.8 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

120000

100000

80000

60000

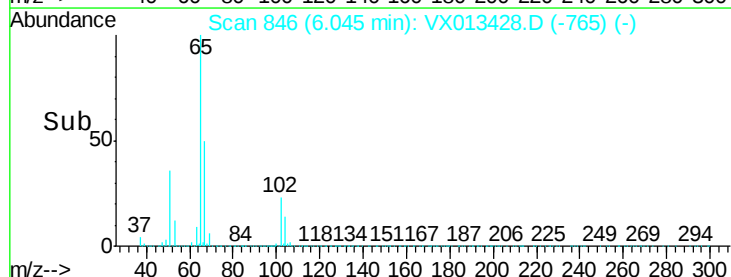
40000

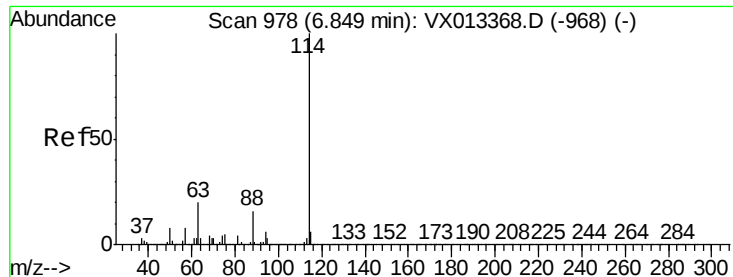
20000

0

6.00 6.10

Time-->

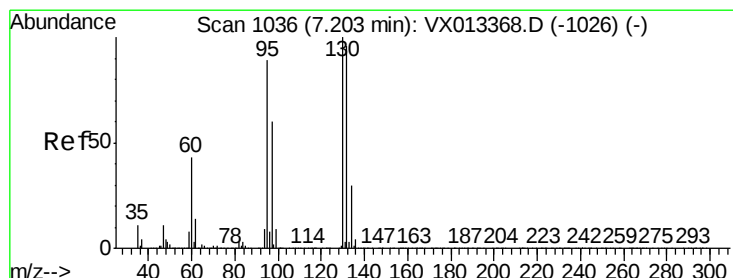
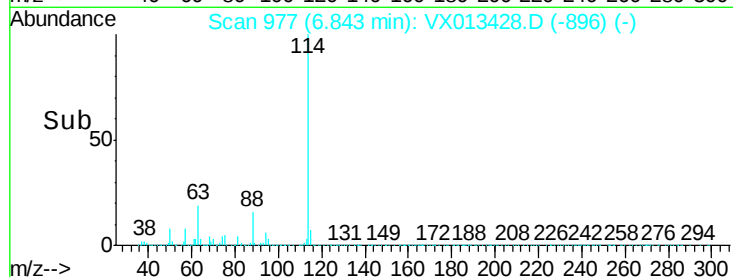
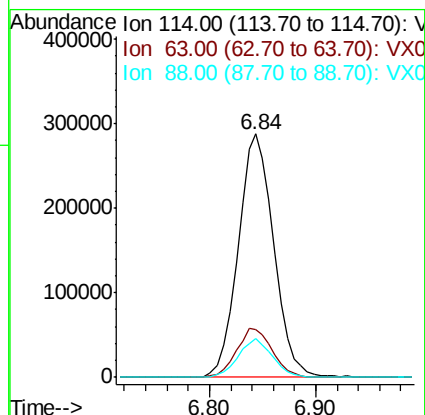
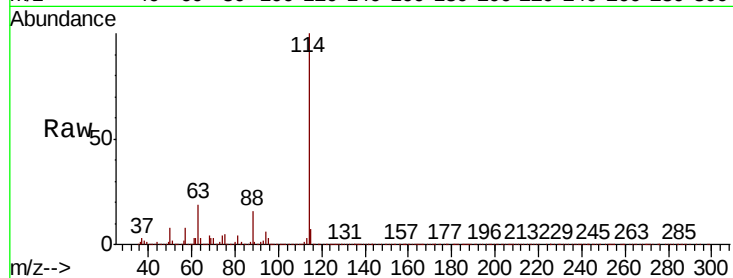




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.84 min Scan# 977
Delta R.T. -0.01 min
Lab File: VX013428.D
Acq: 14 Nov 2019 18:07

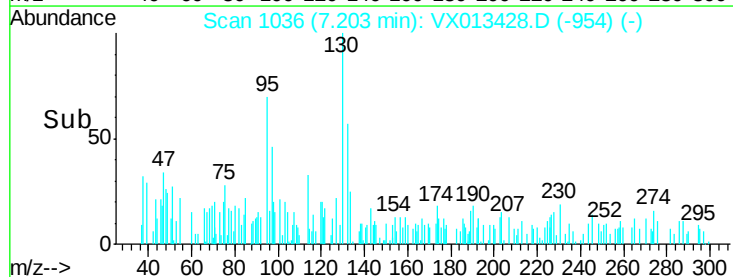
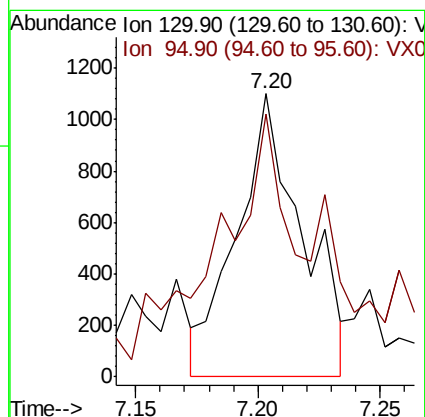
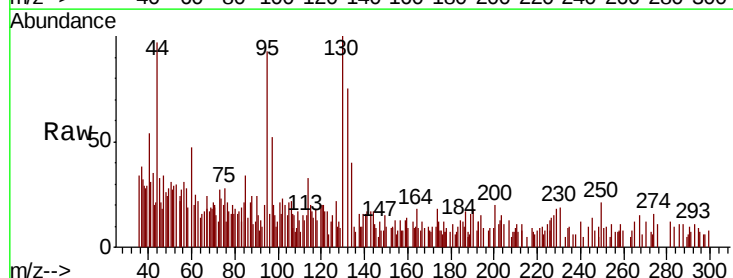
Instrument :
MSVOA_X
ClientSampleId :

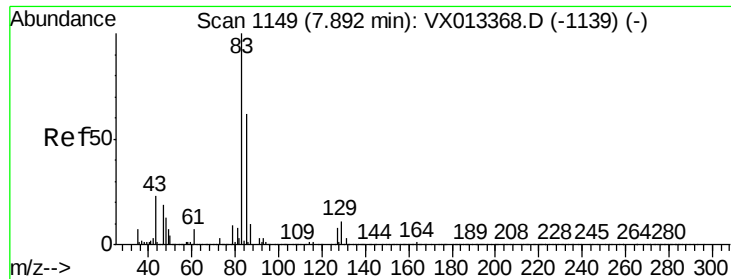
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	16.1	24.1
88	15.7	12.3	18.5



#37
Trichloroethene
Concen: 0.244 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VX013428.D
Acq: 14 Nov 2019 18:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	78.7	71.3	106.9





#41

Bromodichloromethane

Concen: 4.065 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

Instrument :

MSVOA_X

ClientSampled :

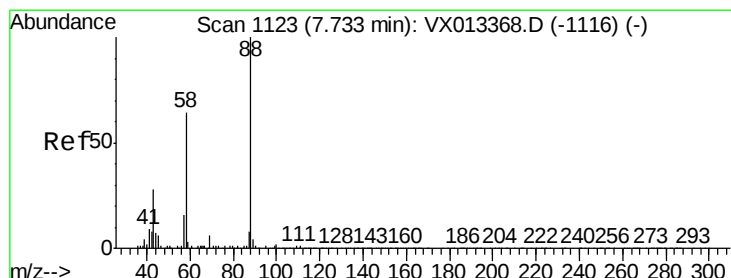
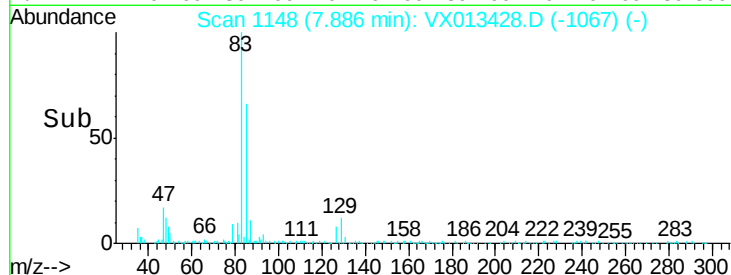
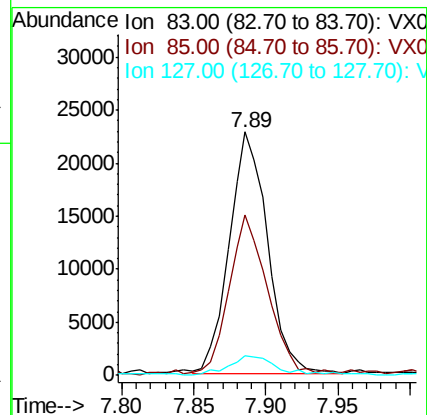
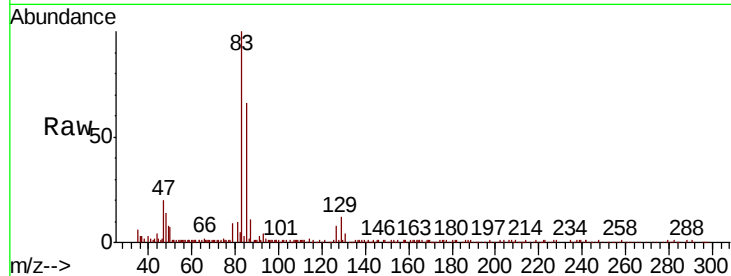
Tot Ion: 83 Resp: 42405

Ion Ratio Lower Upper

83 100

85 65.3 49.3 73.9

127 7.9 6.6 10.0



#45

1,4-Dioxane

Concen: 0.462 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

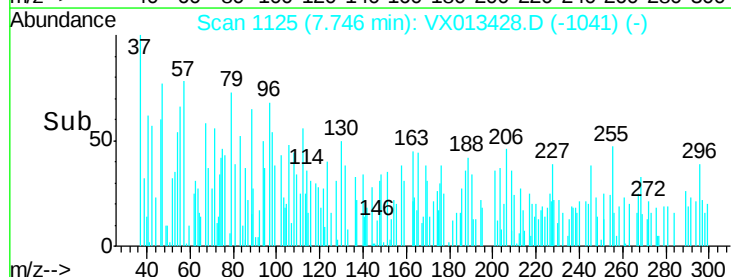
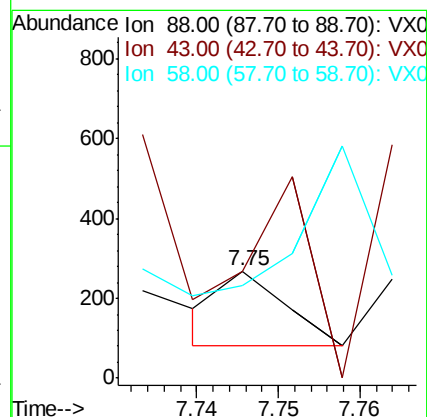
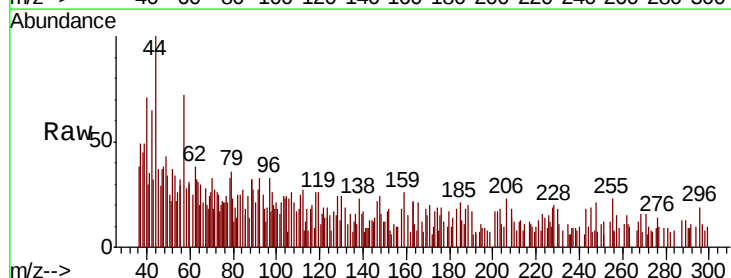
Tgt Ion: 88 Resp: 101

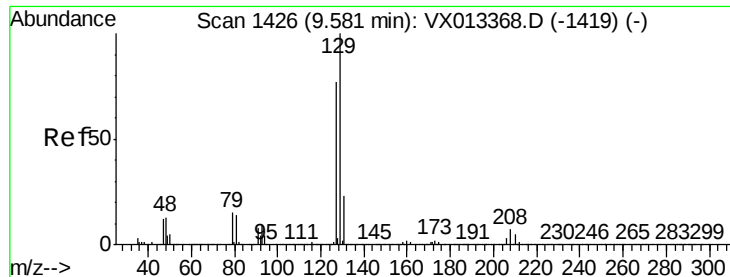
Ion Ratio Lower Upper

88 100

43 279.2 26.1 39.1#

58 0.0 55.8 83.8#





#53

Dibromochloromethane

Concen: 0.335 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. -0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

Instrument :

MSVOA_X

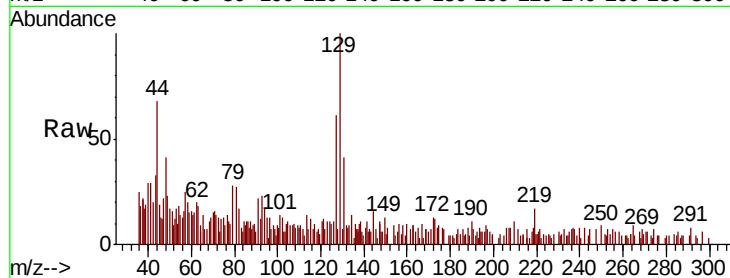
ClientSampleId :

Tot Ion:129 Resp: 2806

Ion Ratio Lower Upper

129 100

127 79.6 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.57

1500

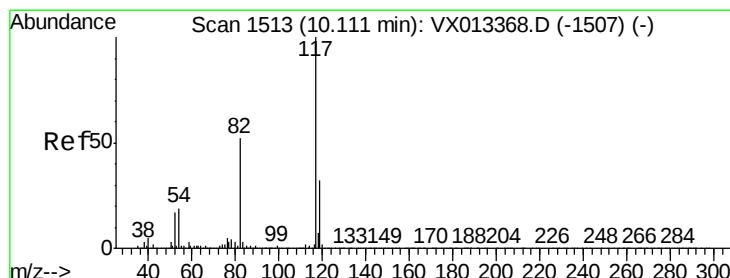
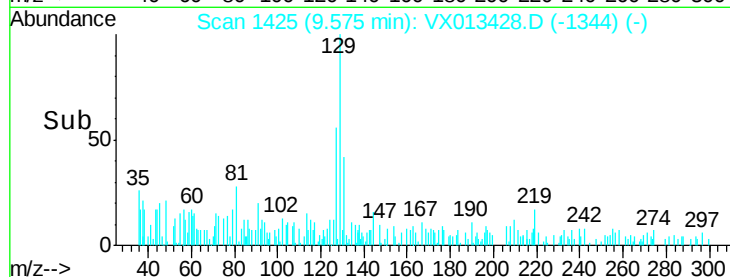
1000

500

0

9.55 9.60

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

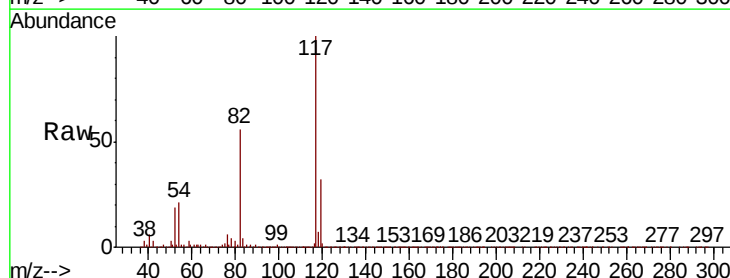
Tgt Ion:117 Resp: 590273

Ion Ratio Lower Upper

117 100

82 54.9 43.7 65.5

119 32.4 25.5 38.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

600000

500000

400000

300000

200000

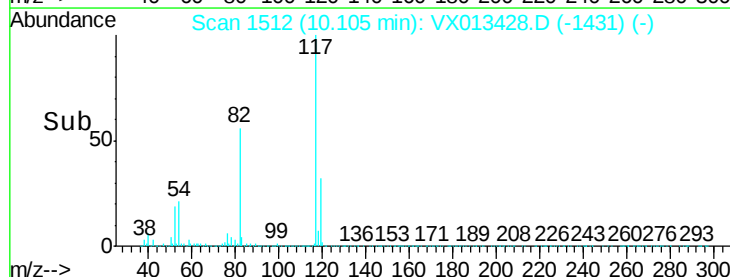
100000

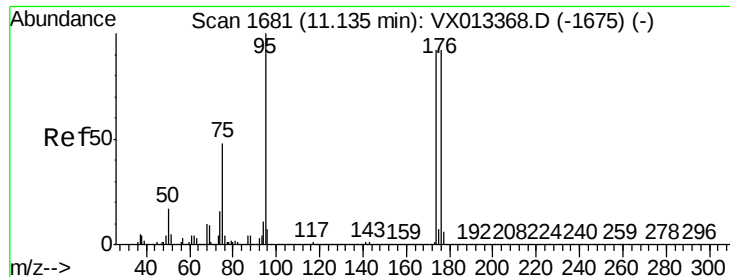
0

10.10

10.20

Time-->





#60

4-Bromofluorobenzene

Concen: 29.064 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

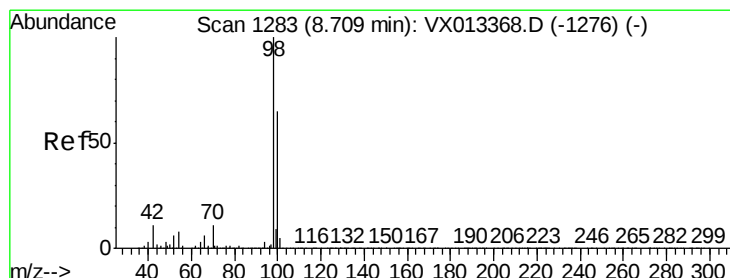
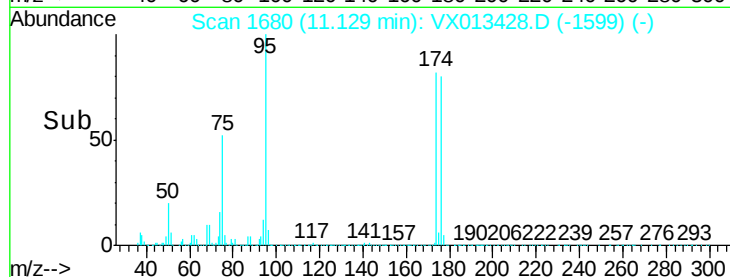
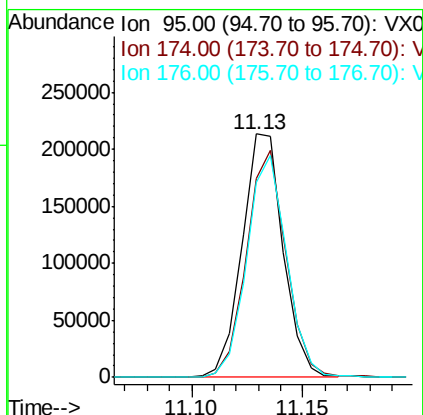
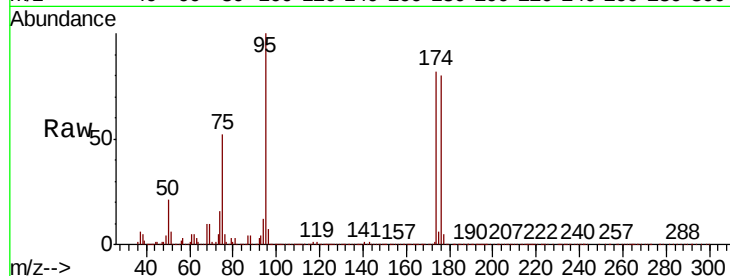
Tot Ion: 95 Resp: 275740

Ion Ratio Lower Upper

95 100

174 89.7 70.2 105.2

176 88.5 68.3 102.5



#63

Toluene-d8

Concen: 29.988 ug/l

RT: 8.70 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VX013428.D

Acq: 14 Nov 2019 18:07

Tgt Ion: 98 Resp: 800437

Ion Ratio Lower Upper

98 100

100 65.1 52.5 78.7

