

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018948.D
 Acq On : 15 Oct 2020 21:23
 Operator : JC/SP
 Sample : L4371-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

Quant Time: Oct 16 01:45:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 15:32:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	43972	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.83	114	252551	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	216768	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	92155	32.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.50%
60) 4-Bromofluorobenzene	11.12	95	97309	28.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.10%
63) Toluene-d8	8.70	98	292680	30.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.03%

Target Compounds

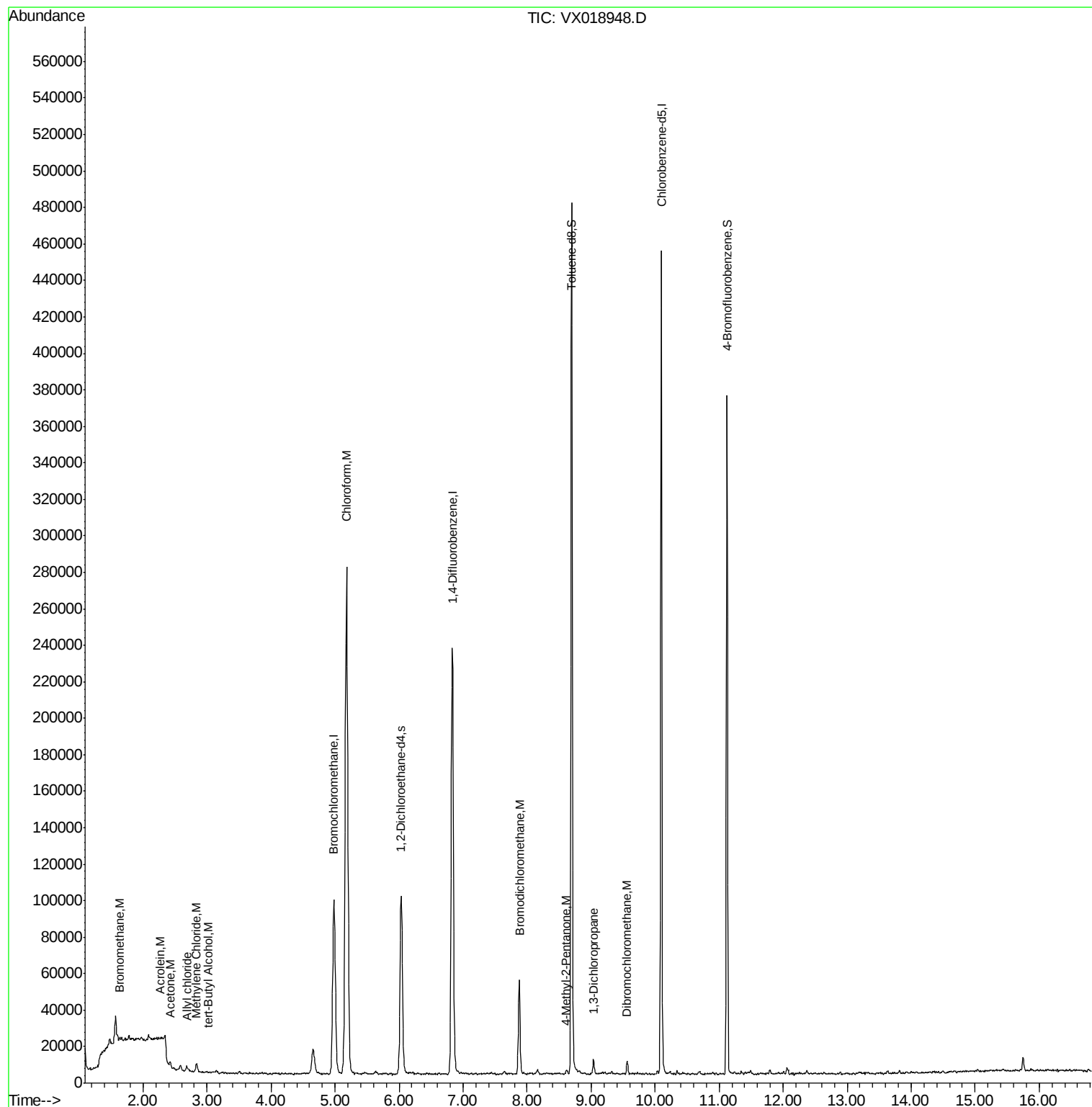
					Ovalue	
5) Bromomethane	1.64	94	371	0.217	ug/l #	50
13) Acrolein	2.26	56	380	0.770	ug/l	93
15) Acetone	2.42	58	1144	2.830	ug/l	81
17) Allyl chloride	2.68	41	3460	1.013	ug/l #	41
18) Methylene Chloride	2.83	84	2156	0.813	ug/l	92
23) tert-Butyl Alcohol	3.02	59	426	0.637	ug/l #	90
25) Chloroform	5.18	83	338546	73.614	ug/l	99
41) Bromodichloromethane	7.88	83	34149	8.605	ug/l	99
52) 1,3-Dichloropropane	9.04	76	1251	0.271	ug/l	48
53) Dibromochloromethane	9.56	129	2024	0.608	ug/l	96
58) 4-Methyl-2-Pentanone	8.61	43	1859	0.537	ug/l #	52

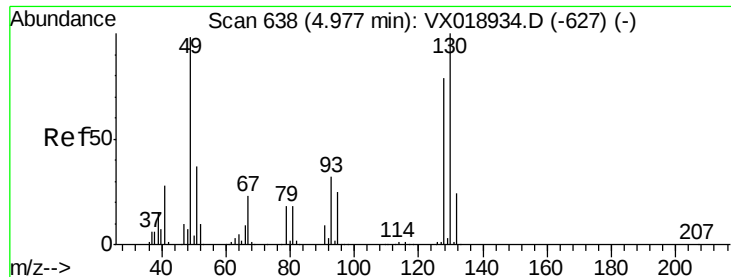
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX101520\
Data File : VX018948.D
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Instrument :
MSVOA_X
ClientSampleId :
14B-4

Quant Time: Oct 16 01:45:46 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 15 15:32:58 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

Instrument :

MSVOA_X

ClientSampled :

14B-4

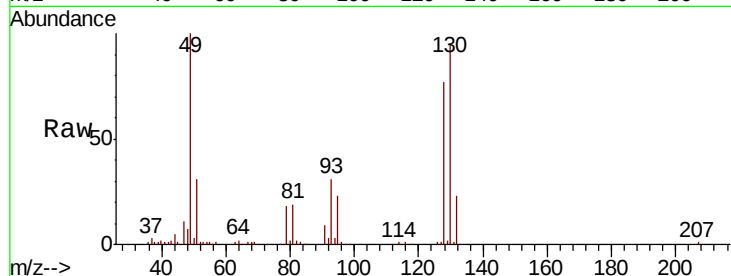
Tot Ion:128 Resp: 43972

Ion Ratio Lower Upper

128 100

49 139.5 0.0 330.5

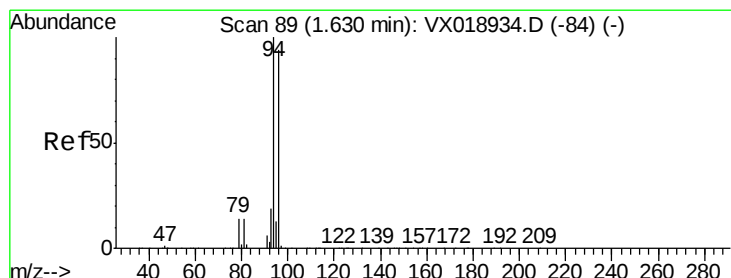
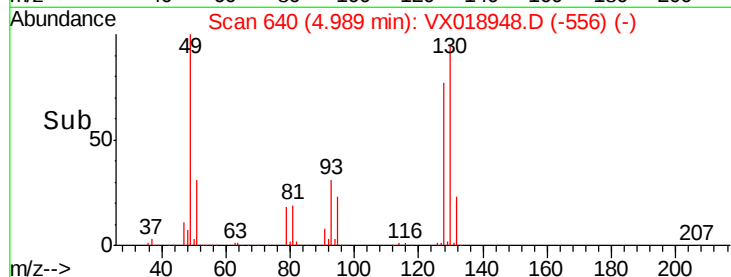
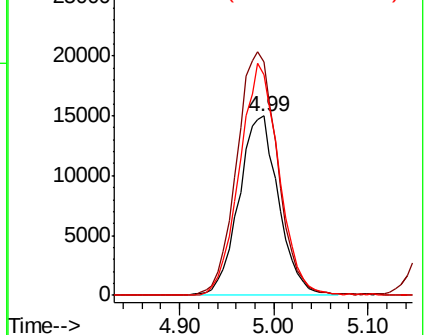
130 127.9 0.0 323.8



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



#5

Bromomethane

Concen: 0.217 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX018948.D

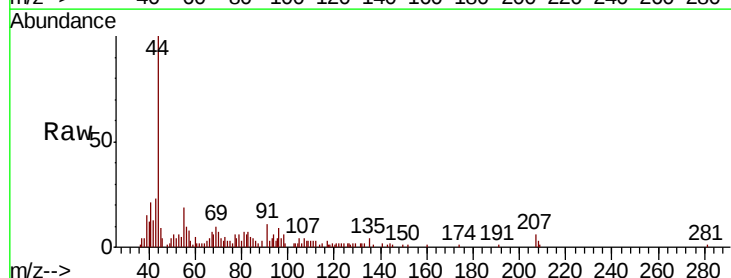
Acq: 15 Oct 2020 21:23

Tgt Ion: 94 Resp: 371

Ion Ratio Lower Upper

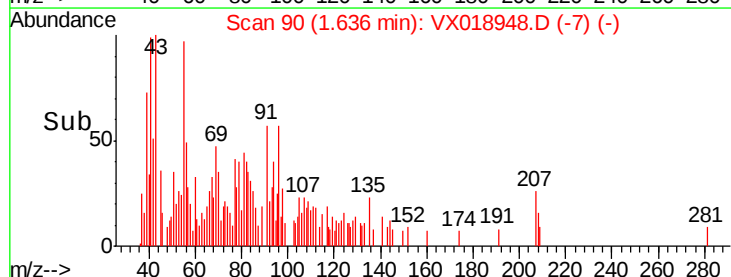
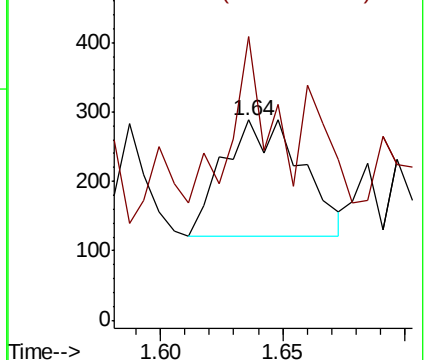
94 100

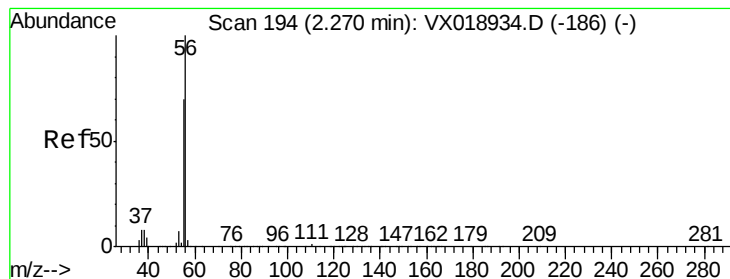
96 143.1 75.9 113.9#



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#13

Acrolein

Concen: 0.770 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.01 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

Instrument :

MSVOA_X

ClientSampled :

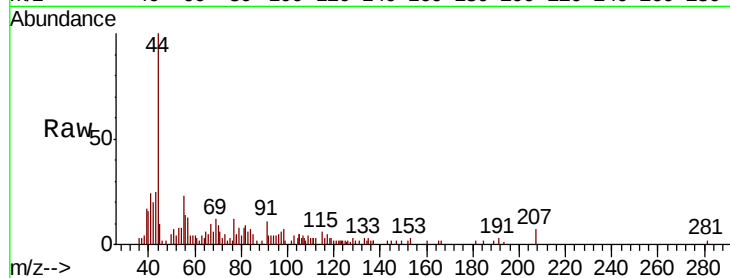
14B-4

Tot Ion: 56 Resp: 380

Ion Ratio Lower Upper

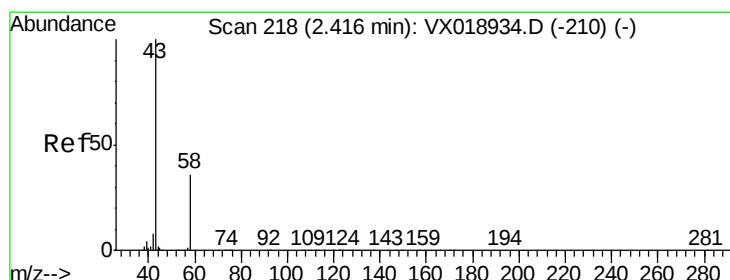
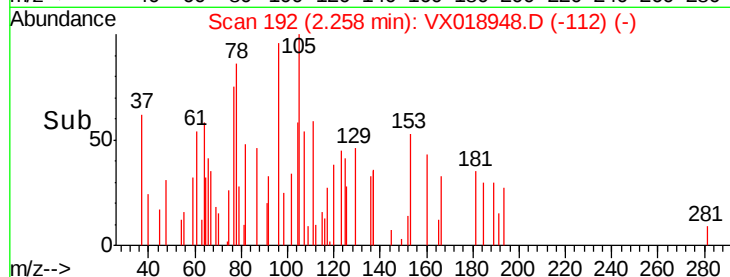
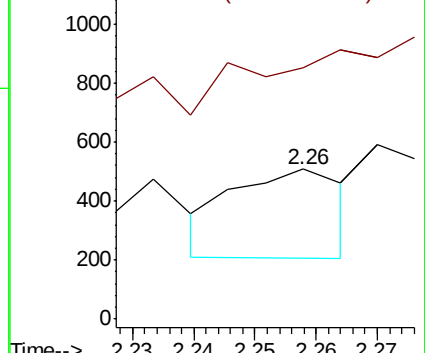
56 100

55 77.4 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acetone

Concen: 2.830 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX018948.D

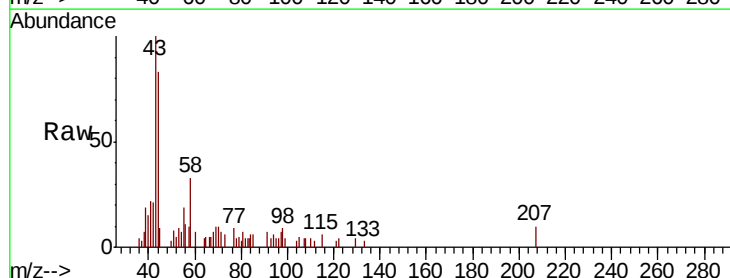
Acq: 15 Oct 2020 21:23

Tgt Ion: 58 Resp: 1144

Ion Ratio Lower Upper

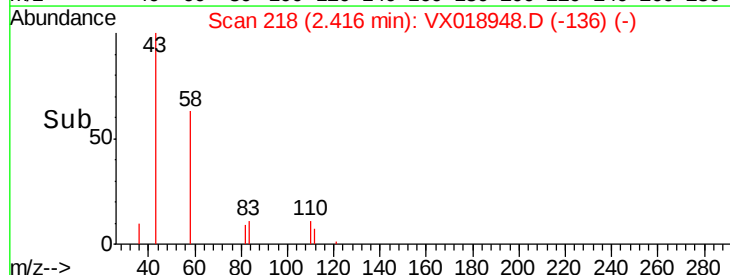
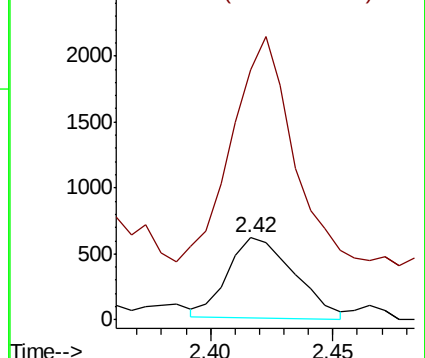
58 100

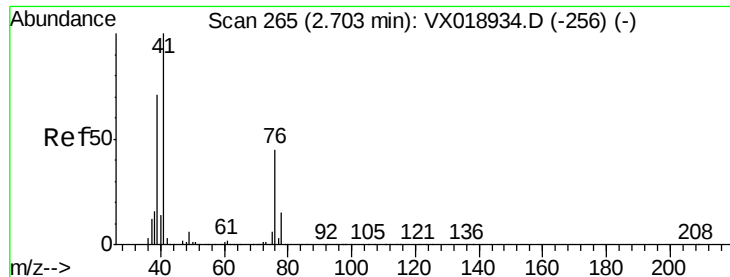
43 244.1 223.8 335.8



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

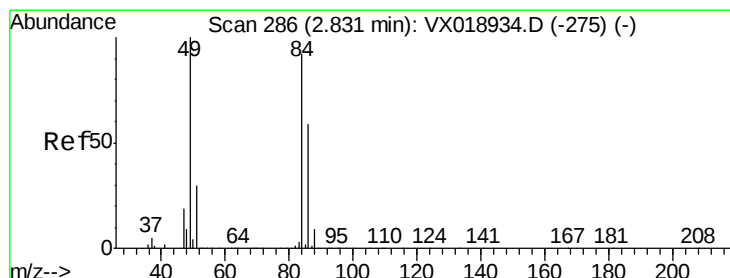
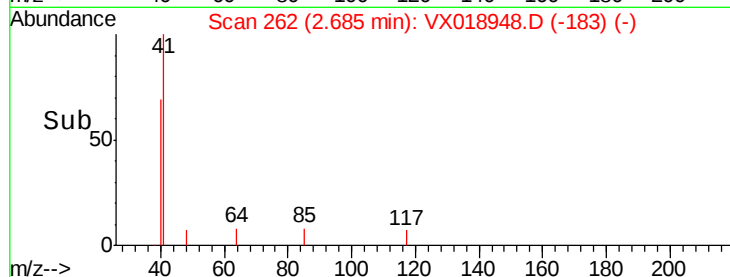
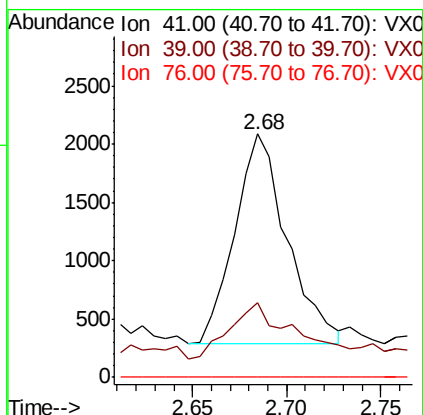
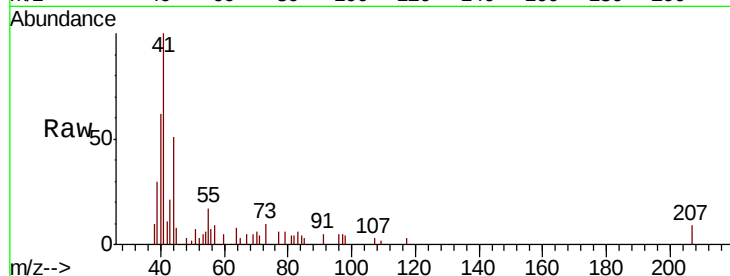




#17
Allvl chloride
Concen: 1.013 ug/l
RT: 2.68 min Scan# 262
Delta R.T. -0.02 min
Lab File: VX018948.D
Acq: 15 Oct 2020 21:23

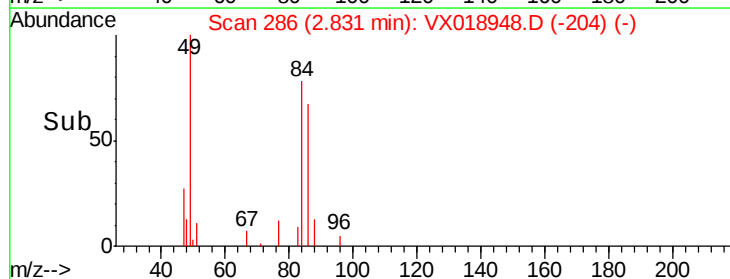
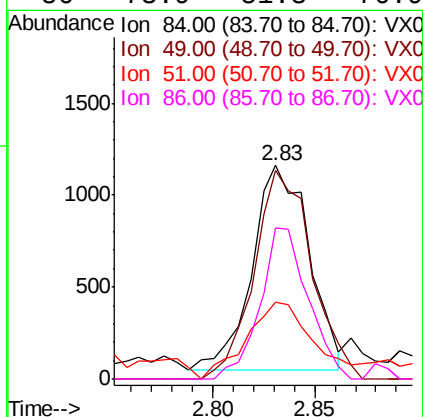
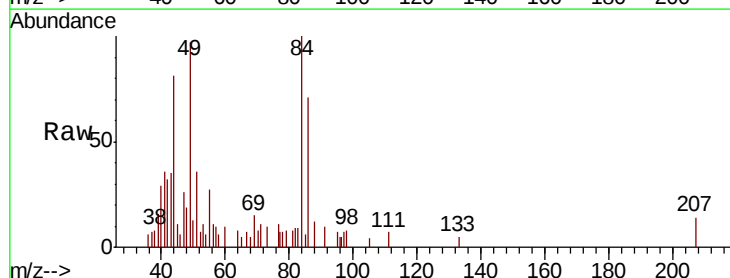
Instrument :
MSVOA_X
ClientSampled :
14B-4

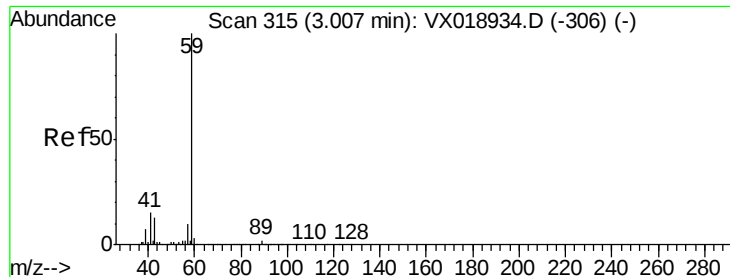
Tot Ion: 41 Resp: 3460
Ion Ratio Lower Upper
41 100
39 26.7 35.4 106.3#
76 0.0 22.4 67.2#



#18
Methylene Chloride
Concen: 0.813 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018948.D
Acq: 15 Oct 2020 21:23

Tgt Ion: 84 Resp: 2156
Ion Ratio Lower Upper
84 100
49 102.0 87.2 130.8
51 31.9 25.9 38.9
86 73.9 51.3 76.9





#23

tert-Butyl Alcohol

Concen: 0.637 ug/l

RT: 3.02 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

Instrument :

MSVOA_X

ClientSampleId :

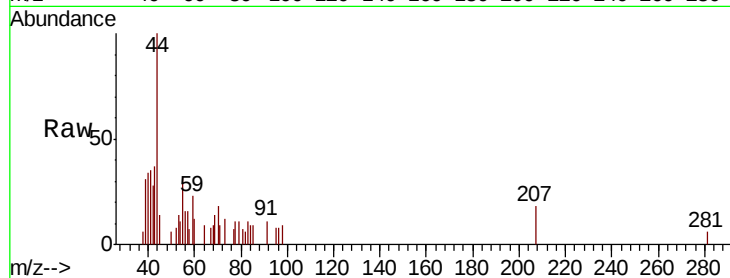
14B-4

Tot Ion: 59 Resp: 426

Ion Ratio Lower Upper

59 100

52 13.4 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

3.02

250

200

150

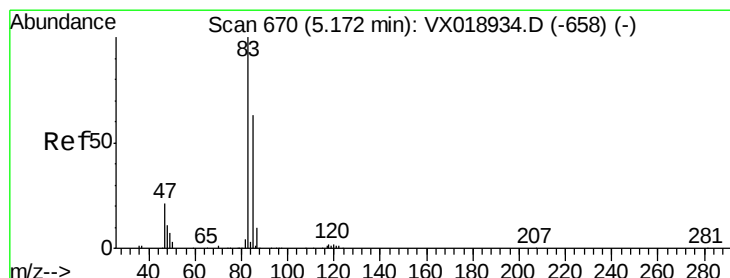
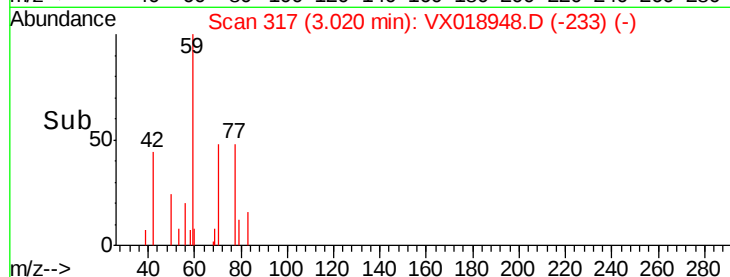
100

50

0

2.96 2.98 3.00 3.02 3.04

Time-->



#25

Chloroform

Concen: 73.614 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX018948.D

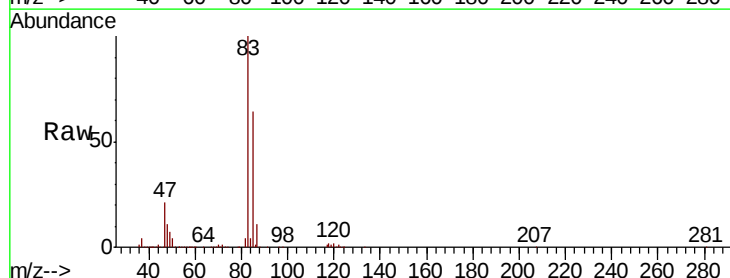
Acq: 15 Oct 2020 21:23

Tgt Ion: 83 Resp: 338546

Ion Ratio Lower Upper

83 100

85 63.5 50.3 75.5



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

5.18

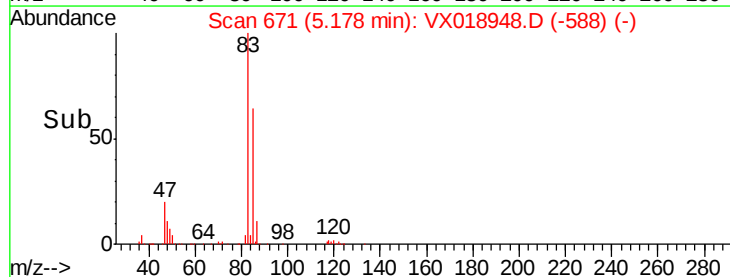
100000

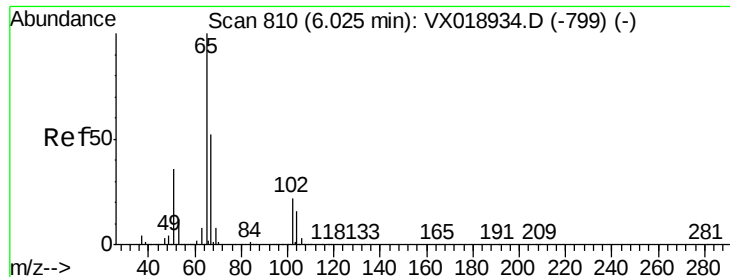
50000

0

5.10 5.12 5.14 5.16 5.18 5.20 5.22 5.24 5.26 5.28 5.30

Time-->





#27

1,2-Dichloroethane-d4

Concen: 32.854 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

Instrument :

MSVOA_X

ClientSampleId :

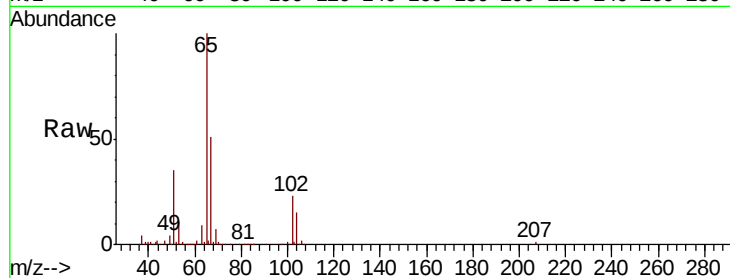
14B-4

Tot Ion: 65 Resp: 92155

Ion Ratio Lower Upper

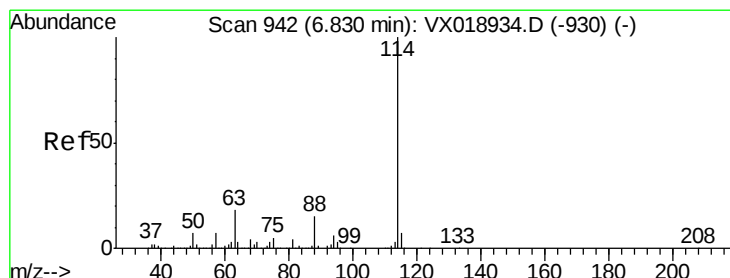
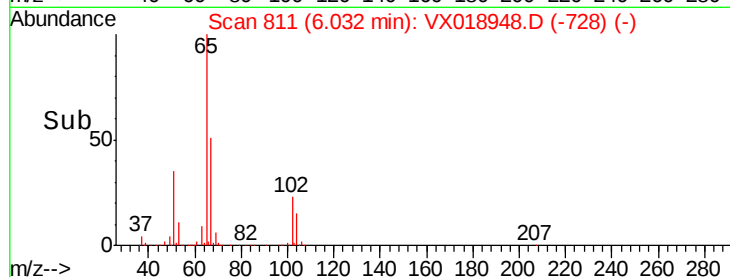
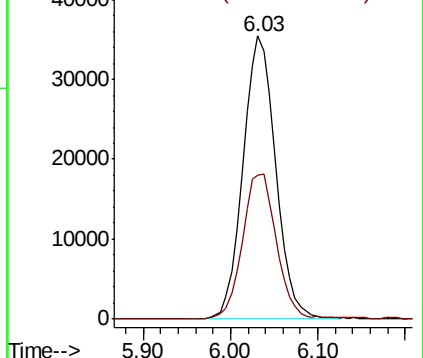
65 100

67 52.8 42.1 63.1



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: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

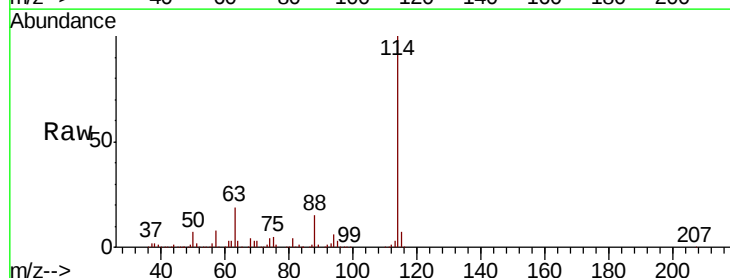
Tgt Ion: 114 Resp: 252551

Ion Ratio Lower Upper

114 100

63 18.5 14.6 21.8

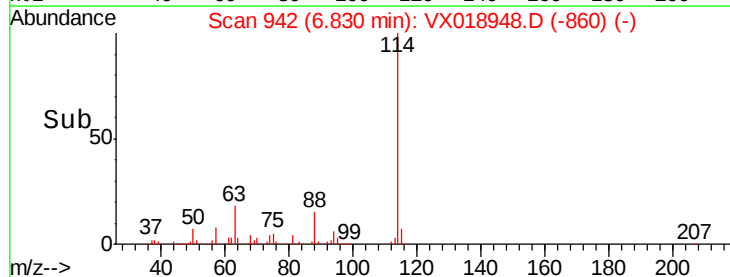
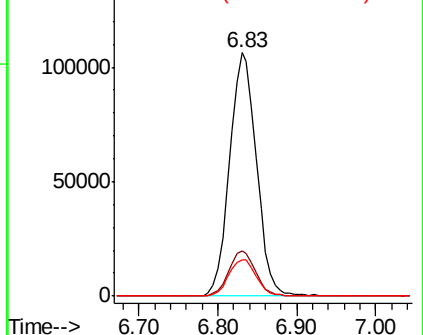
88 15.4 12.3 18.5

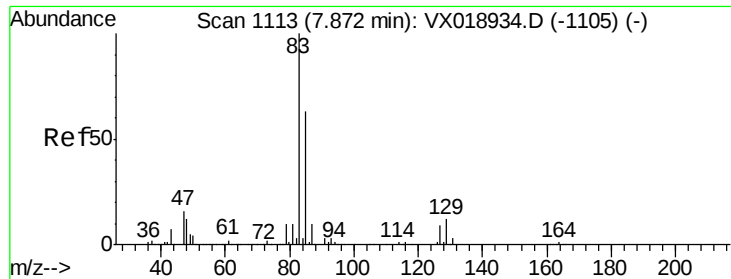


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#41

Bromodichloromethane

Concen: 8.605 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

Instrument :

MSVOA_X

ClientSampleId :

14B-4

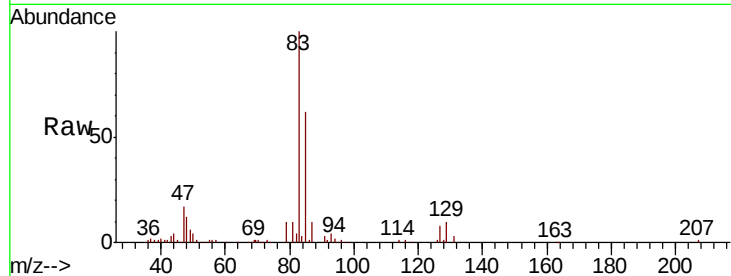
Tot Ion: 83 Resp: 34149

Ion Ratio Lower Upper

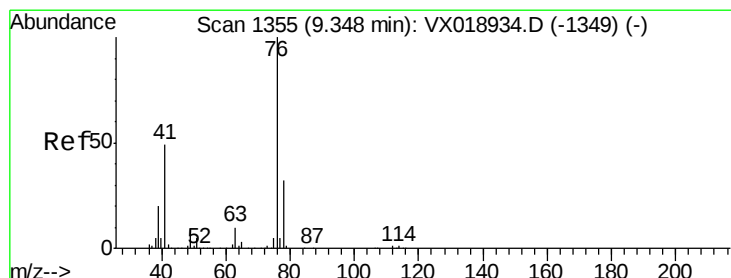
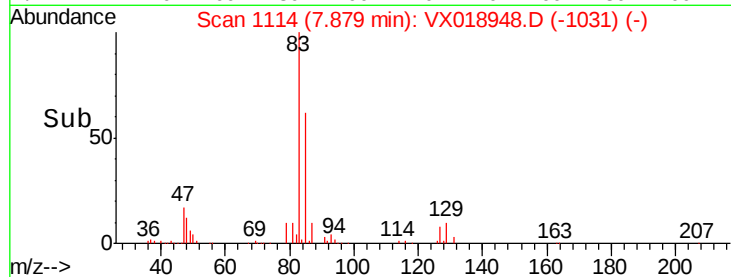
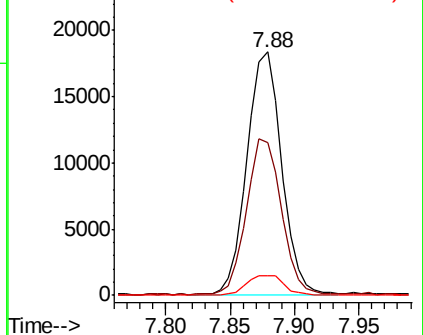
83 100

85 62.3 50.4 75.6

127 8.3 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 85.00 (84.70 to 85.70): VX0
Ion 127.00 (126.70 to 127.70): V



#52

1,3-Dichloropropane

Concen: 0.271 ug/l

RT: 9.04 min Scan# 1304

Delta R.T. -0.31 min

Lab File: VX018948.D

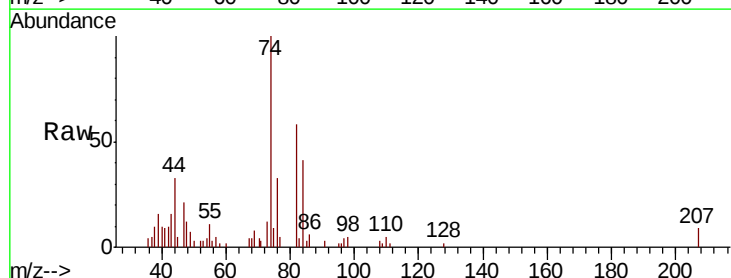
Acq: 15 Oct 2020 21:23

Tgt Ion: 76 Resp: 1251

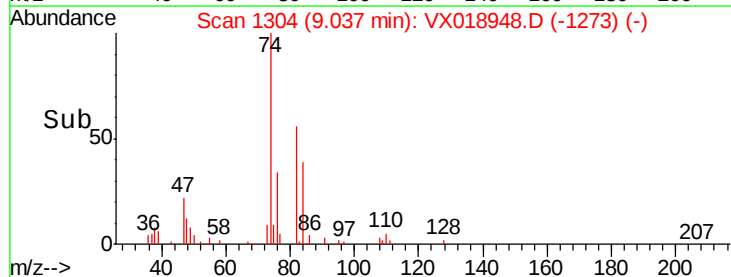
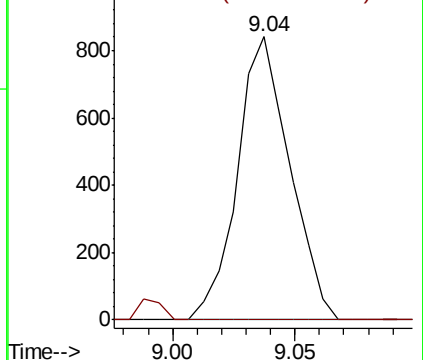
Ion Ratio Lower Upper

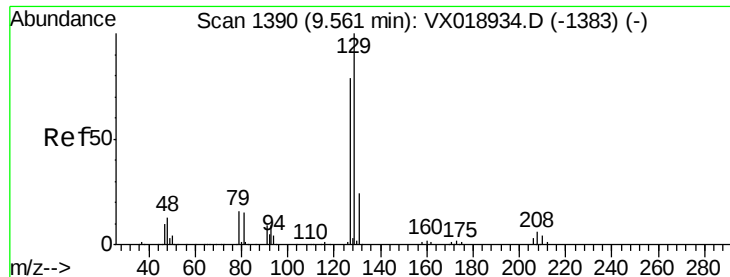
76 100

78 3.4 0.0 65.2



Abundance Ion 76.00 (75.70 to 76.70): VX0
Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 0.608 ug/l

RT: 9.56 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

Instrument :

MSVOA_X

ClientSampleId :

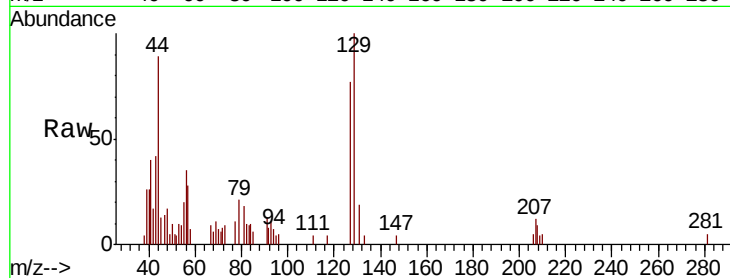
14B-4

Tot Ion:129 Resp: 2024

Ion Ratio Lower Upper

129 100

127 81.1 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.56

1500

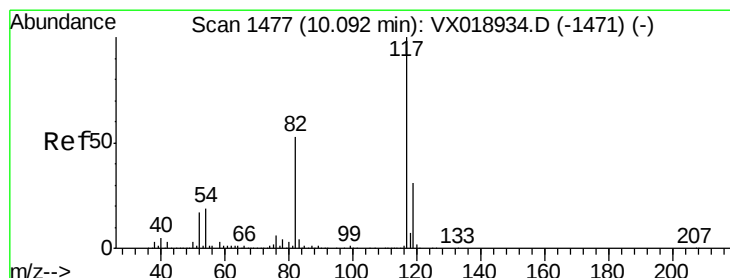
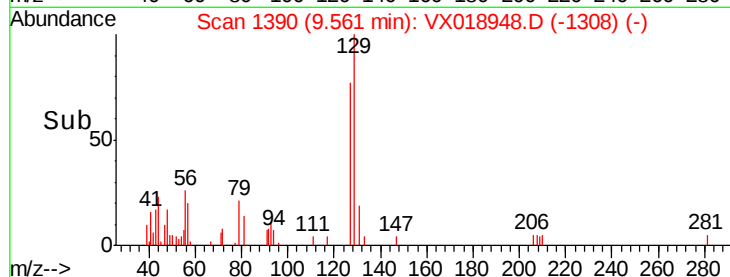
1000

500

0

9.55 9.60

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

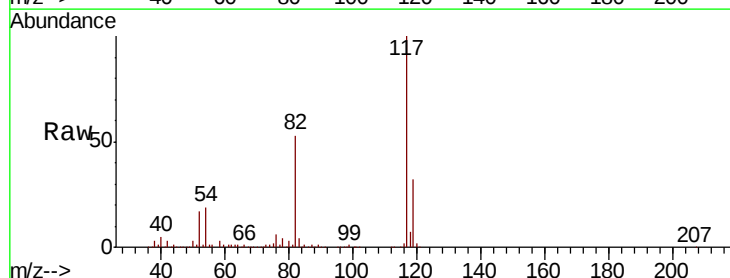
Tgt Ion:117 Resp: 216768

Ion Ratio Lower Upper

117 100

82 53.4 41.6 62.4

119 31.7 25.7 38.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

200000

150000

100000

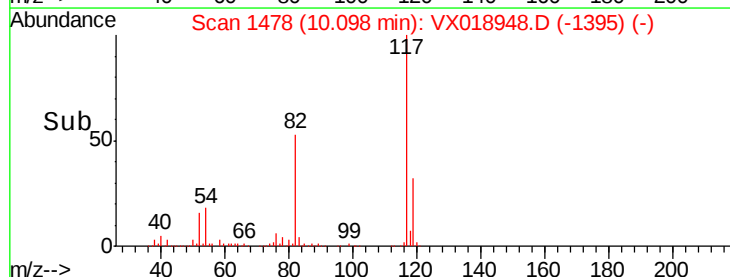
50000

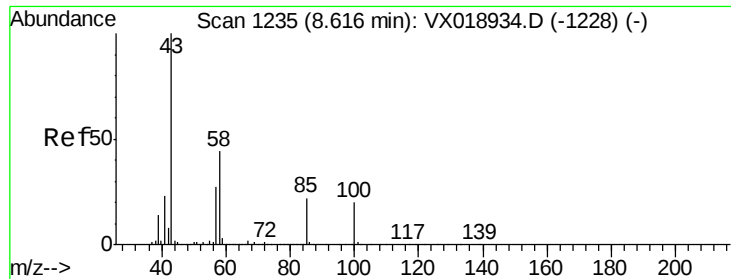
0

10.10

10.00 10.10 10.20

Time-->

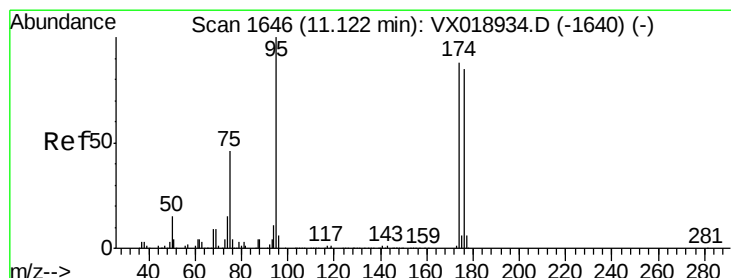
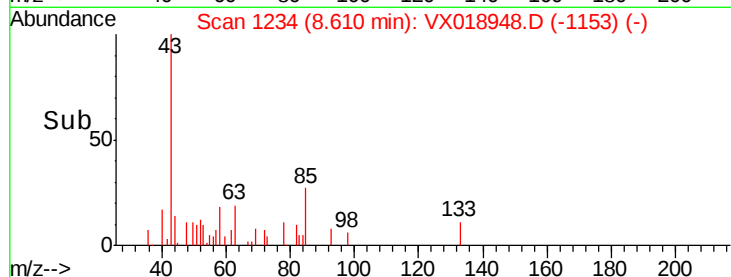
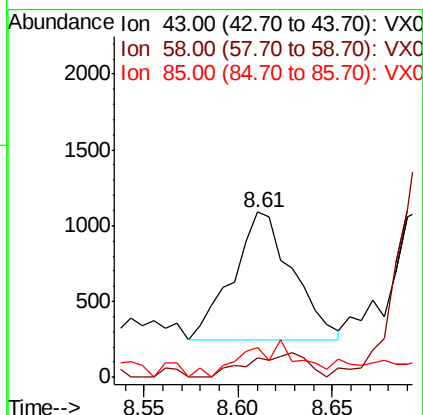
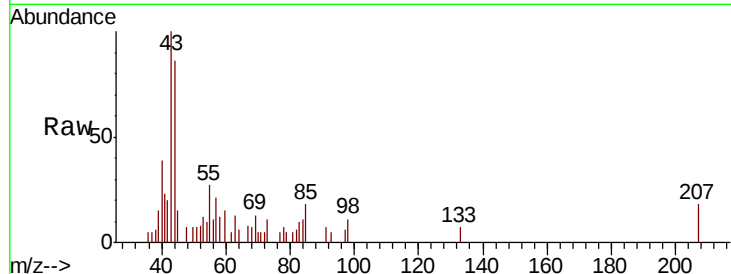




#58
4-Methyl-2-Pentanone
Concen: 0.537 ug/l
RT: 8.61 min Scan# 1234
Delta R.T. -0.01 min
Lab File: VX018948.D
Acq: 15 Oct 2020 21:23

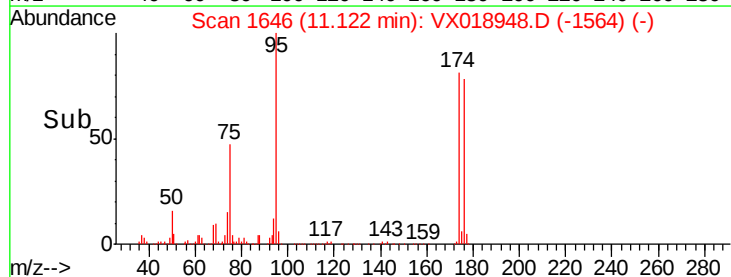
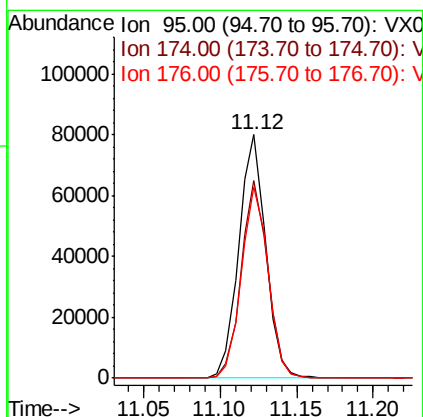
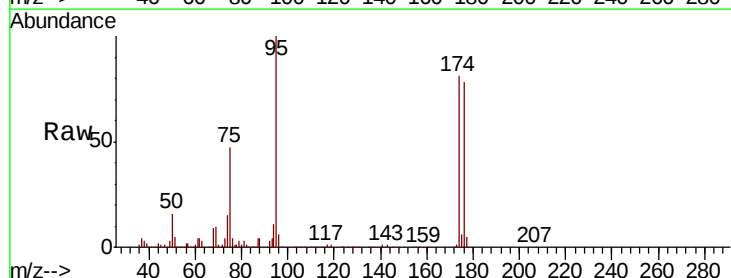
Instrument :
MSVOA_X
ClientSampled :
14B-4

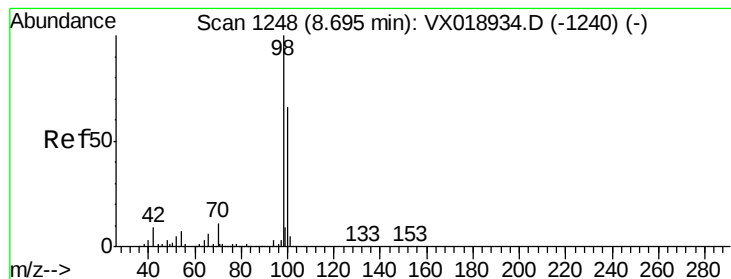
Tot Ion: 43 Resp: 1859
Ion Ratio Lower Upper
43 100
58 4.1 35.4 53.2#
85 13.0 18.0 27.0#



#60
4-Bromofluorobenzene
Concen: 28.834 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018948.D
Acq: 15 Oct 2020 21:23

Tgt Ion: 95 Resp: 97309
Ion Ratio Lower Upper
95 100
174 79.9 67.0 100.4
176 78.0 64.5 96.7





#63

Toluene-d8

Concen: 30.908 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018948.D

Acq: 15 Oct 2020 21:23

Instrument :
MSVOA_X
ClientSampleId :
14B-4

Tot Ion: 98 Resp: 292680

Ion Ratio Lower Upper

98 100

100 66.4 53.2 79.8

