

Data File : VX019637.D
Acq On : 25 Nov 2020 04:18
Operator : JC/MD
Sample : L4835-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MH-118.5T-20201119

Quant Time: Nov 25 06:58:42 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	302870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	504734	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	454820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	179492	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	191808	48.84	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.68%
35) Dibromofluoromethane	5.46	113	149913	47.32	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.64%
50) Toluene-d8	8.70	98	605572	49.19	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.38%
62) 4-Bromofluorobenzene	11.12	95	205661	46.43	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.86%

Target Compounds

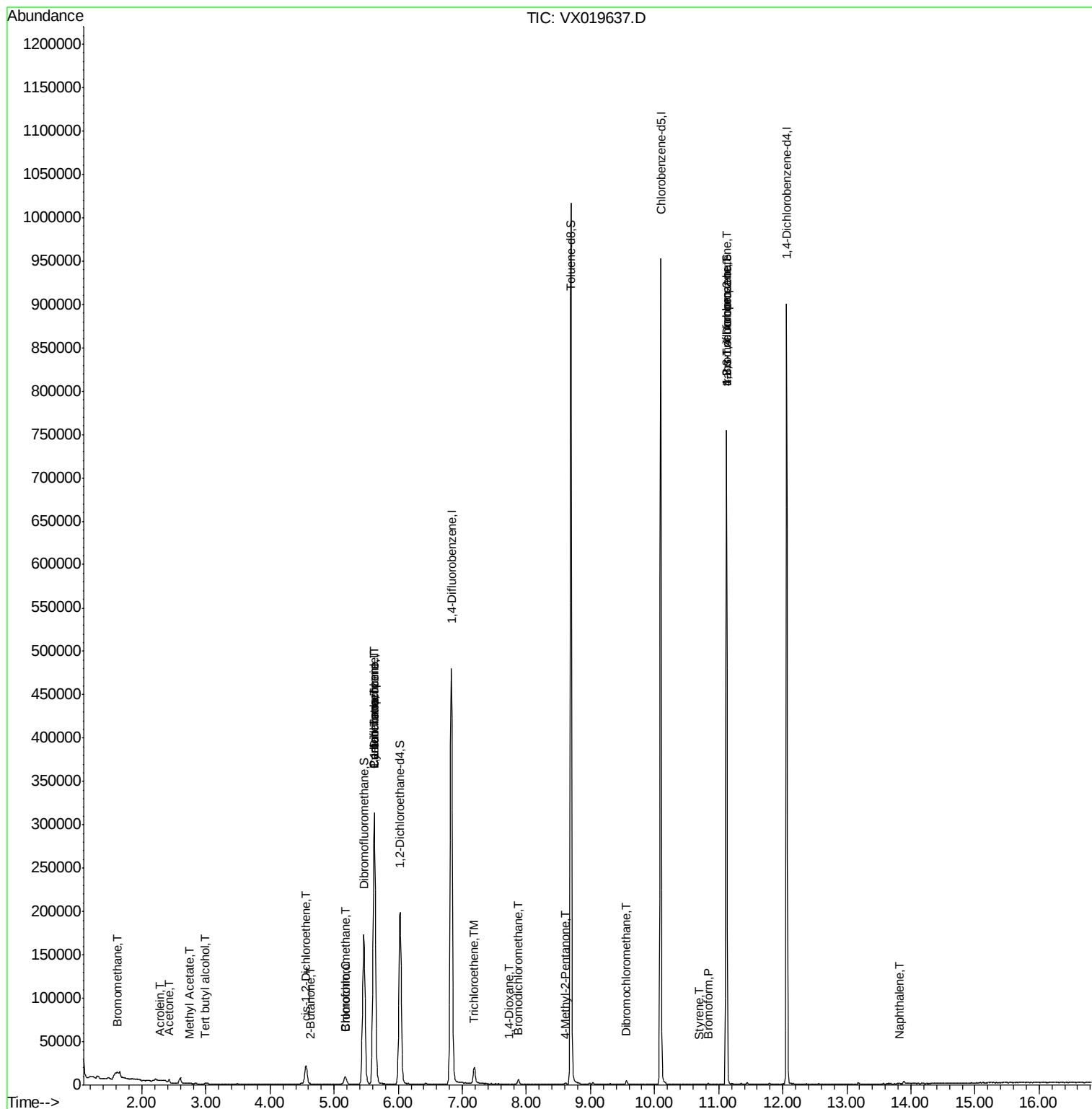
					Qvalue	
5) Bromomethane	1.62	94	606	0.440	ug/l #	27
6) Chloroethane	1.67	64	838	Below Cal	#	41
11) Tert butyl alcohol	2.99	59	446	0.600	ug/l #	73
13) Acrolein	2.29	56	182	0.364	ug/l #	15
16) Acetone	2.42	43	3835	2.525	ug/l	92
18) Methyl Acetate	2.75	43	570	0.786	ug/l #	62
25) 2-Butanone	4.64	43	754	0.331	ug/l #	45
27) cis-1,2-Dichloroethene	4.56	96	13675	3.494	ug/l	91
28) Bromochloromethane	5.18	49	820	0.288	ug/l #	8
30) Chloroform	5.17	83	10908	1.750	ug/l	99
31) Cyclohexane	5.63	56	5703	1.117	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23191	4.901	ug/l #	50
38) Carbon Tetrachloride	5.63	117	29418	6.423	ug/l #	16
44) Trichloroethene	7.18	130	6873	1.805	ug/l	87
47) Bromodichloromethane	7.88	83	3309	0.696	ug/l #	93
49) 1,4-Dioxane	7.72	88	65	0.819	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	1260	0.289	ug/l #	32
60) Dibromochloromethane	9.56	129	1617	0.456	ug/l	99
70) Styrene	10.70	104	22	1.648	ug/l #	26
71) Bromoform	10.84	173	336	3.711	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	100284	25.601	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	100284	67.526	ug/l #	12
95) Naphthalene	13.82	128	424	2.209	ug/l #	69

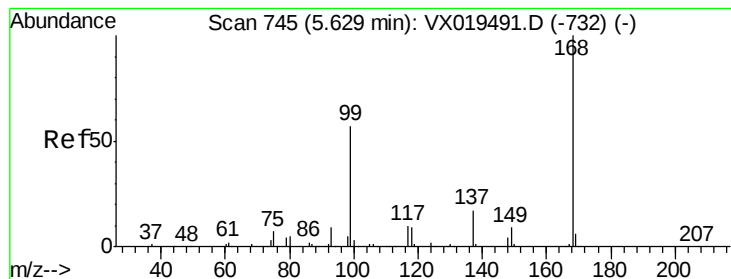
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

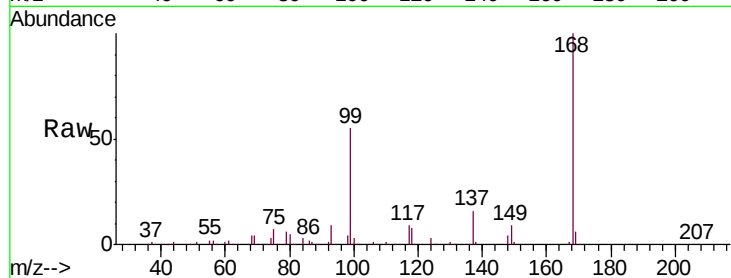
MH-118.5T-20201119

Tgt Ion:168 Resp: 302870

Ion Ratio Lower Upper

168 100

99 54.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

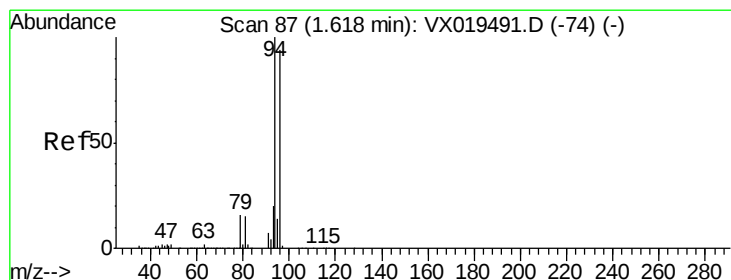
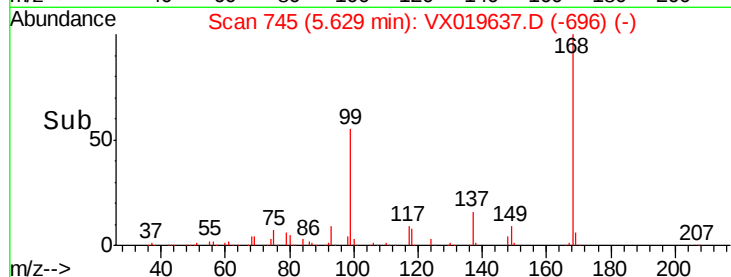
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.440 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019637.D

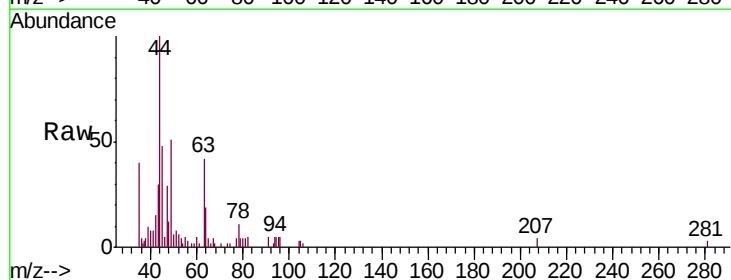
Acq: 25 Nov 2020 04:18

Tgt Ion: 94 Resp: 606

Ion Ratio Lower Upper

94 100

96 24.2 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

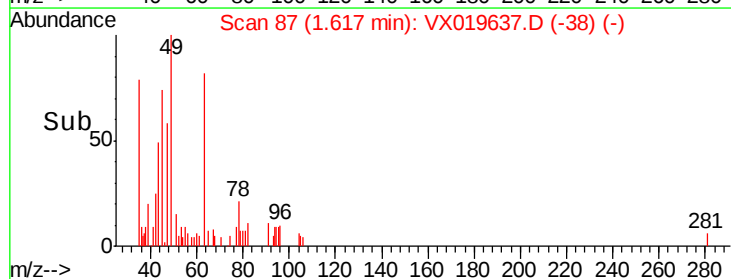
150

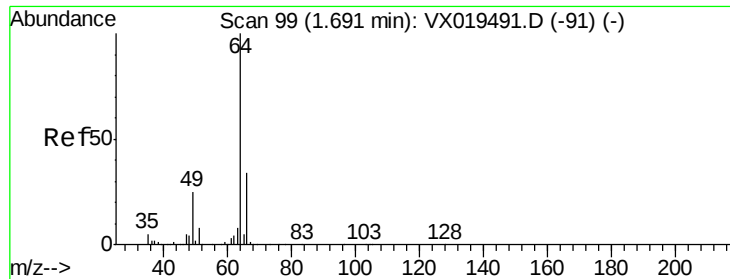
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 95

Delta R.T. -0.02 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

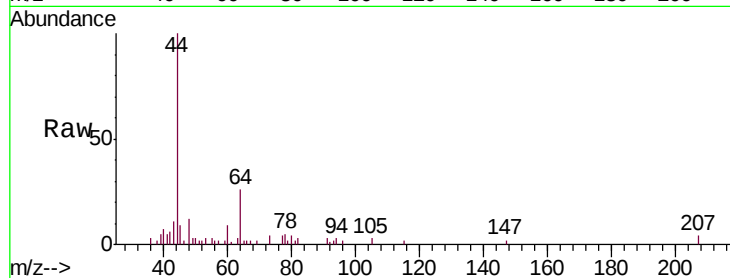
MH-118.5T-20201119

Tgt Ion: 64 Resp: 838

Ion Ratio Lower Upper

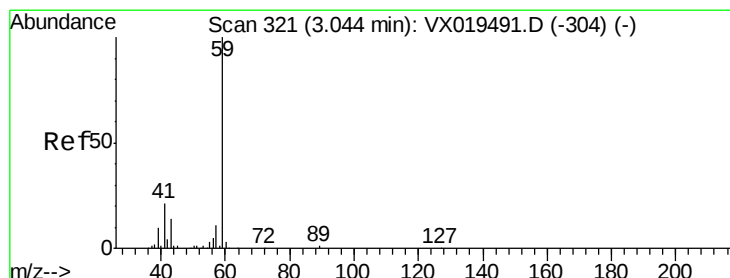
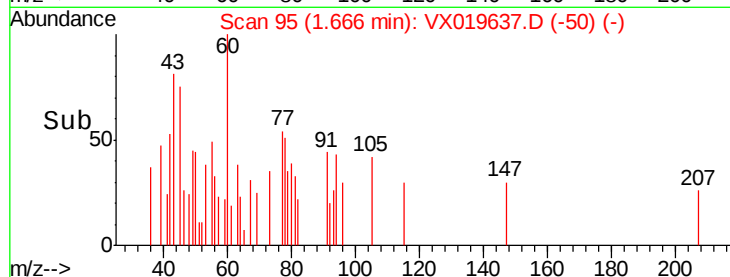
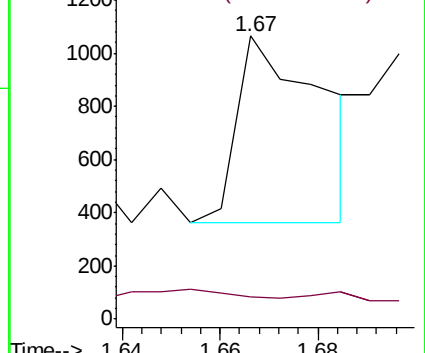
64 100

66 0.0 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.600 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.06 min

Lab File: VX019637.D

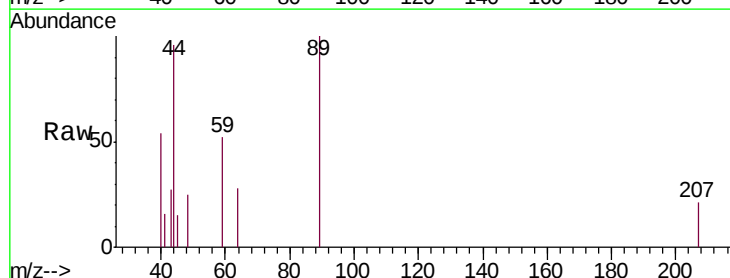
Acq: 25 Nov 2020 04:18

Tgt Ion: 59 Resp: 446

Ion Ratio Lower Upper

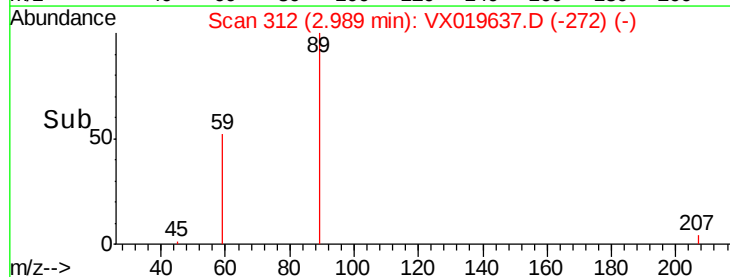
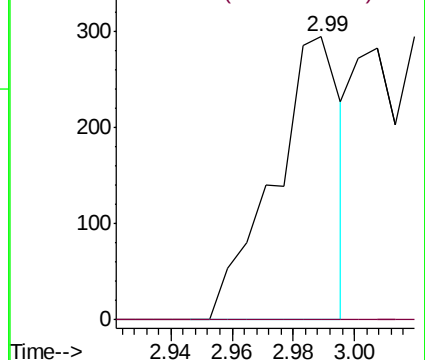
59 100

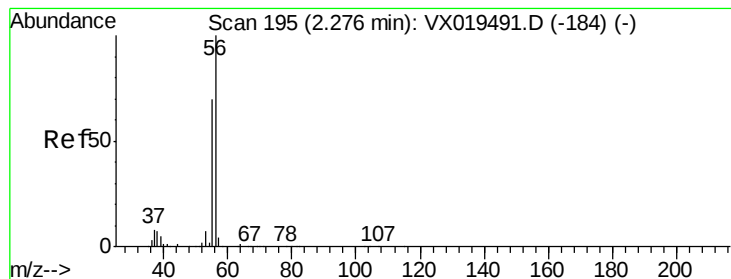
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.364 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

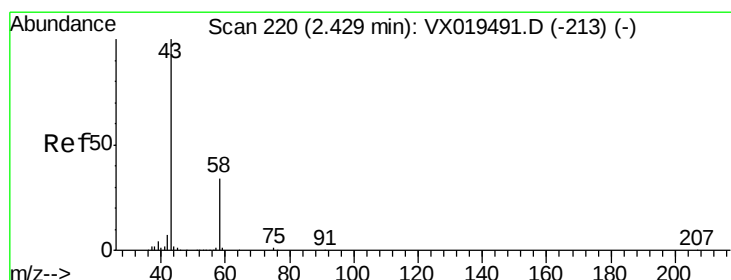
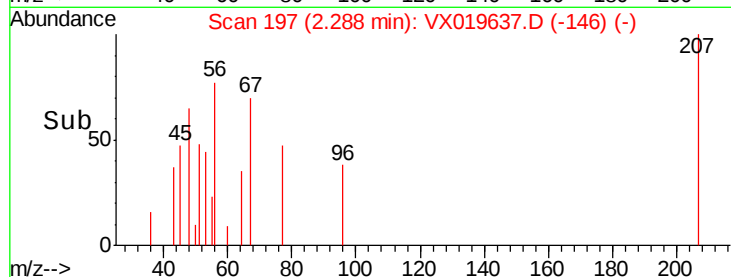
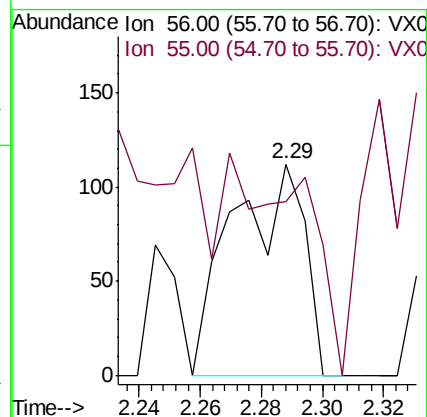
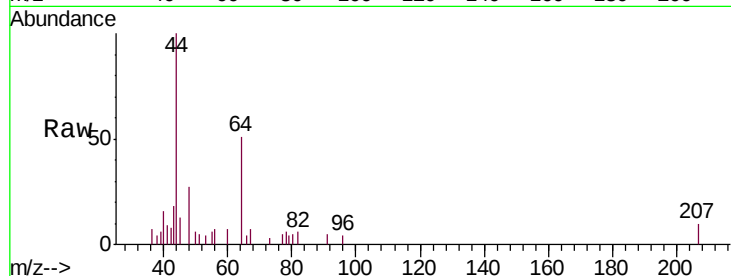
MH-118.5T-20201119

Tgt Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 0.0 55.5 83.3#



#16

Acetone

Concen: 2.525 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019637.D

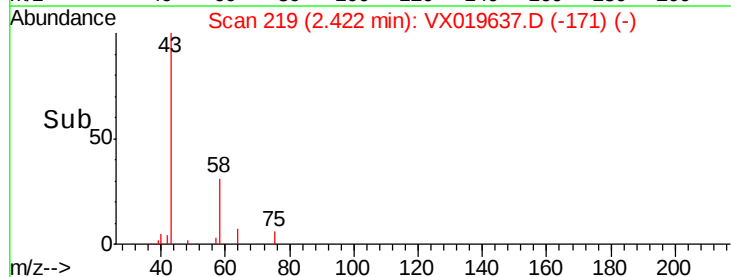
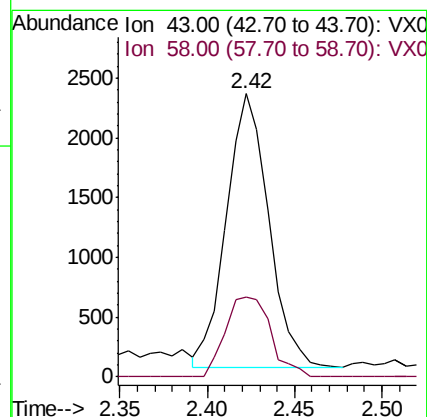
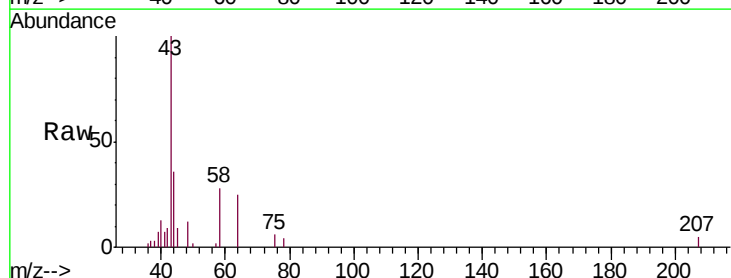
Acq: 25 Nov 2020 04:18

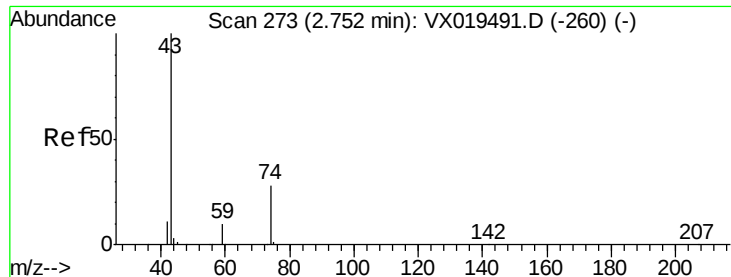
Tgt Ion: 43 Resp: 3835

Ion Ratio Lower Upper

43 100

58 29.4 27.4 41.2

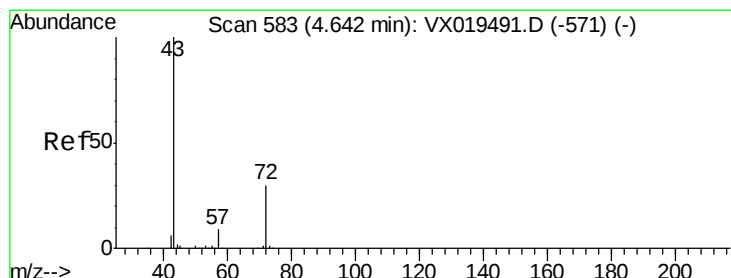
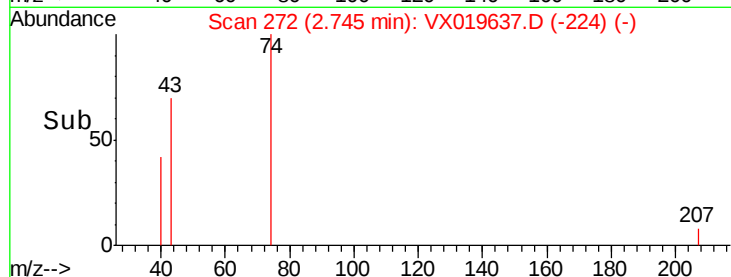
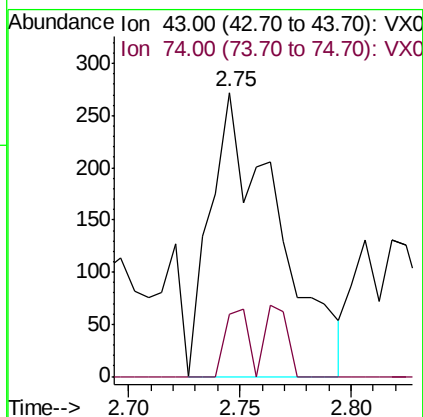
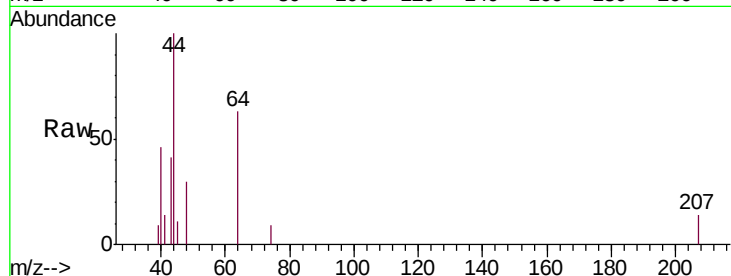




#18
Methyl Acetate
Concen: 0.786 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX019637.D
Acq: 25 Nov 2020 04:18

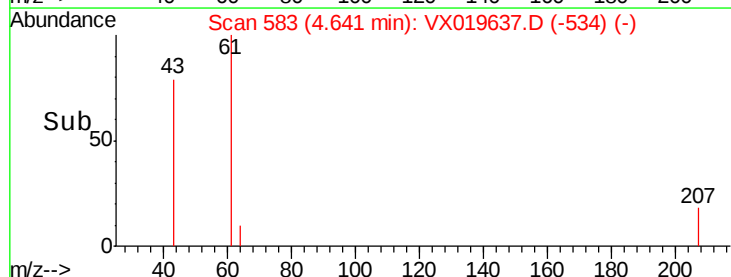
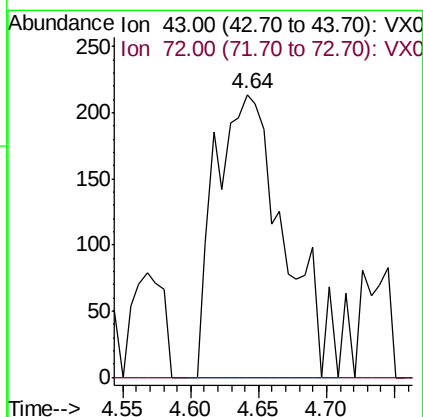
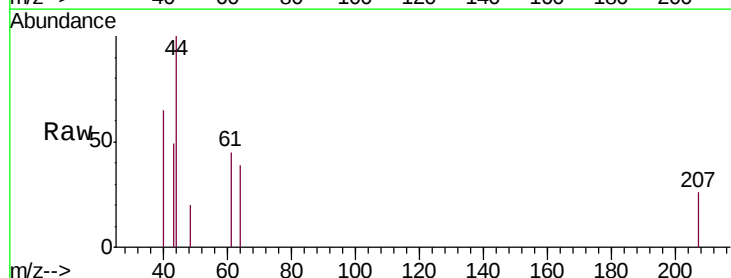
Instrument :
MSVOA_X
ClientSampleId :
MH-118.5T-20201119

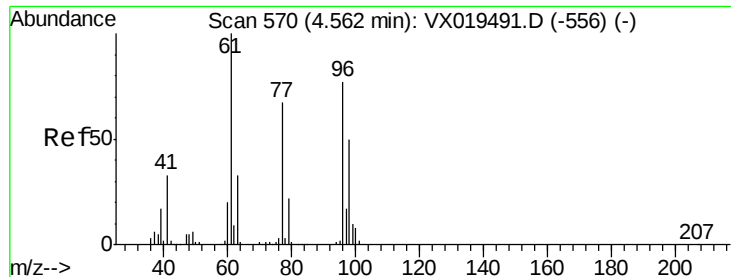
Tgt Ion: 43 Resp: 570
Ion Ratio Lower Upper
43 100
74 7.9 22.2 33.4#



#25
2-Butanone
Concen: 0.331 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX019637.D
Acq: 25 Nov 2020 04:18

Tgt Ion: 43 Resp: 754
Ion Ratio Lower Upper
43 100
72 0.0 24.0 36.0#





#27

cis-1,2-Dichloroethene

Concen: 3.494 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20201119

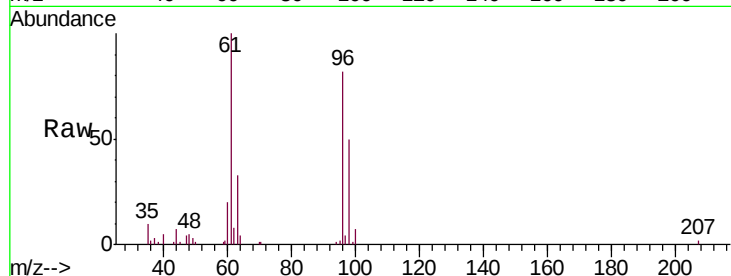
Tgt Ion: 96 Resp: 13675

Ion Ratio Lower Upper

96 100

61 155.9 0.0 279.2

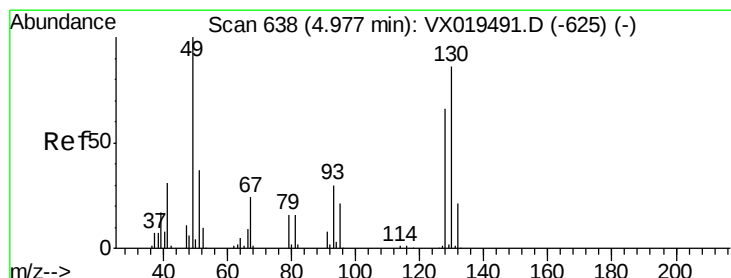
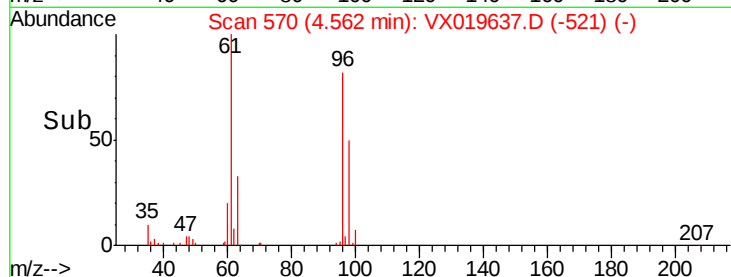
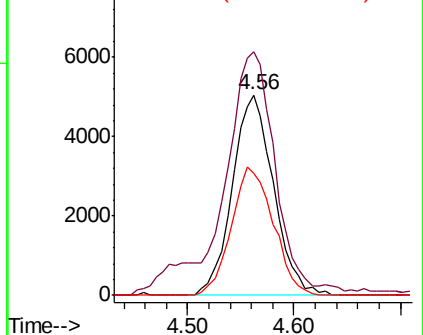
98 65.0 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: 0.288 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.20 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

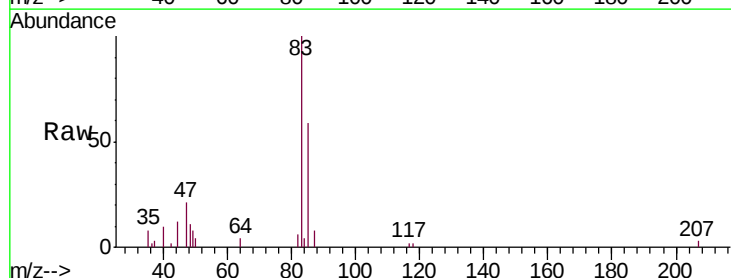
Tgt Ion: 49 Resp: 820

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

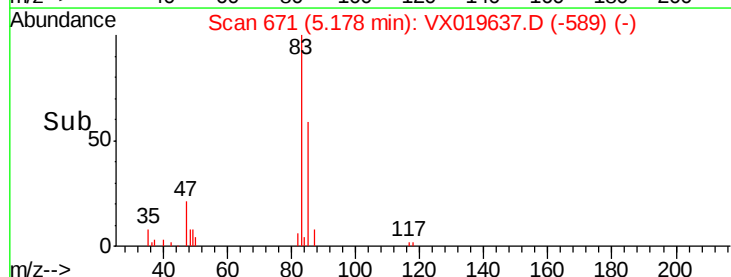
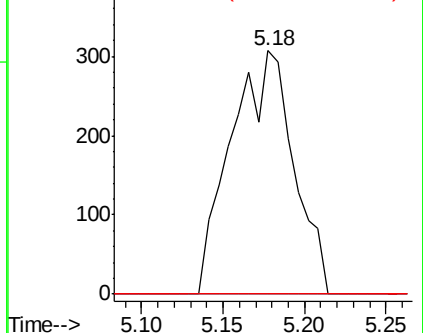
130 0.0 69.0 103.6#

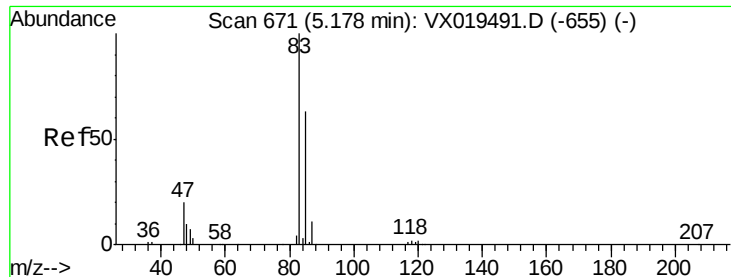


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

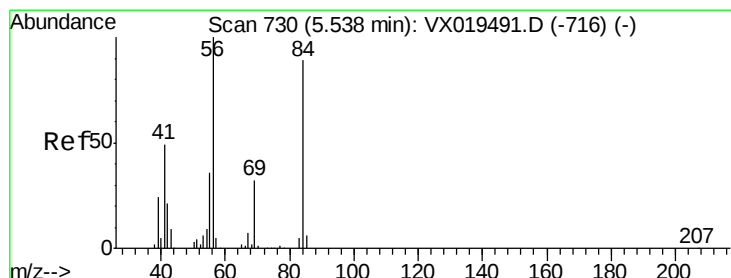
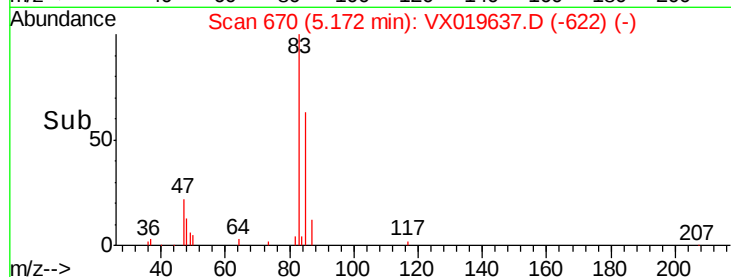
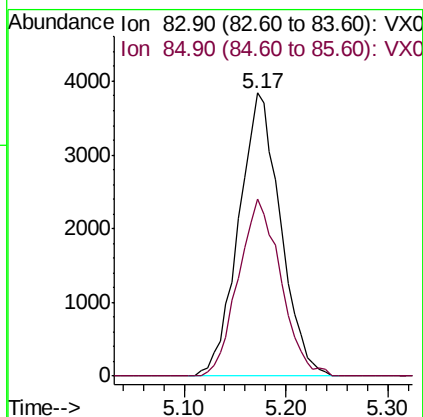
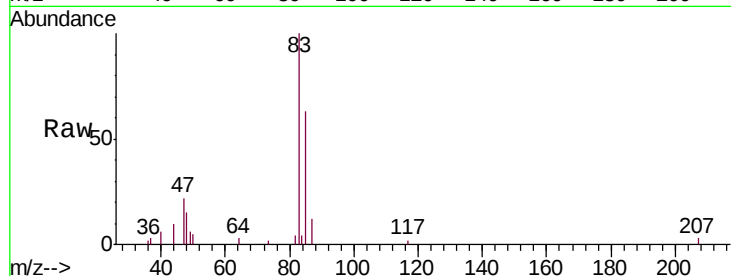




#30
Chloroform
Concen: 1.750 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX019637.D
Acq: 25 Nov 2020 04:18

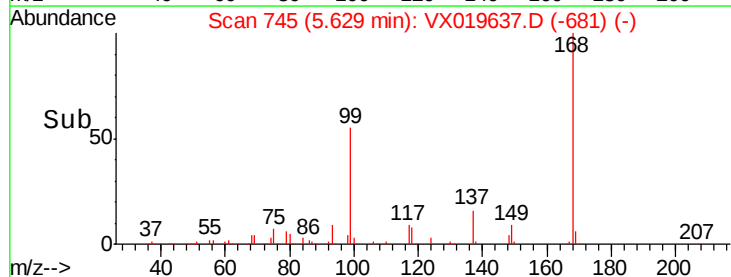
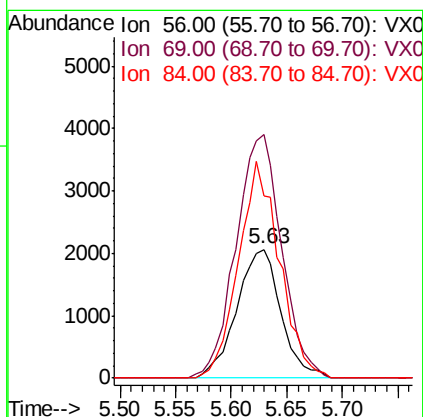
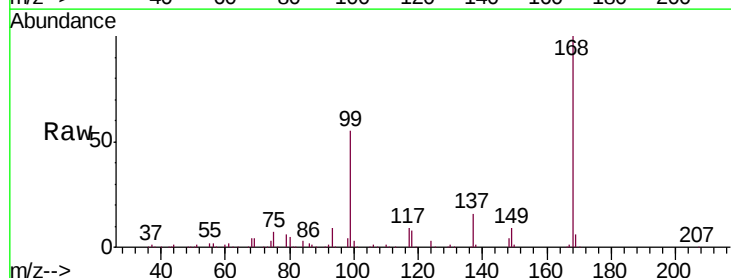
Instrument :
MSVOA_X
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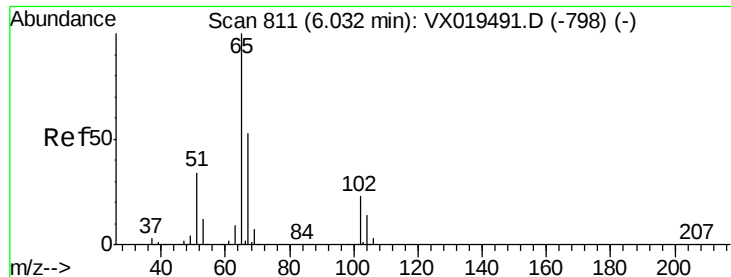
Tgt Ion: 83 Resp: 10908
Ion Ratio Lower Upper
83 100
85 62.7 50.5 75.7



#31
Cyclohexane
Concen: 1.117 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019637.D
Acq: 25 Nov 2020 04:18

Tgt Ion: 56 Resp: 5703
Ion Ratio Lower Upper
56 100
69 189.6 25.5 38.3#
84 142.2 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 48.844 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

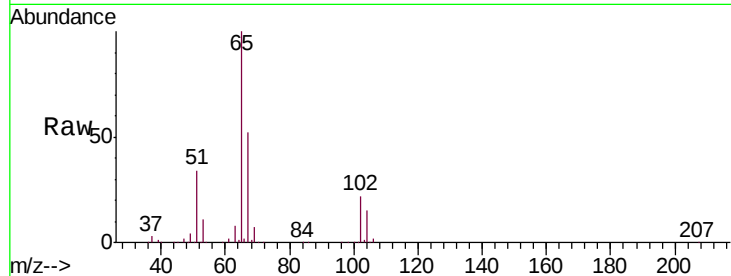
MH-118.5T-20201119

Tgt Ion: 65 Resp: 191808

Ion Ratio Lower Upper

65 100

67 52.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

60000

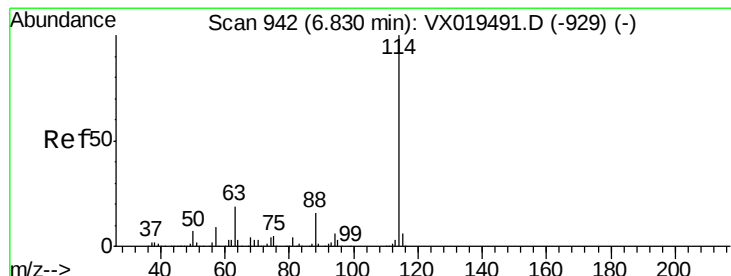
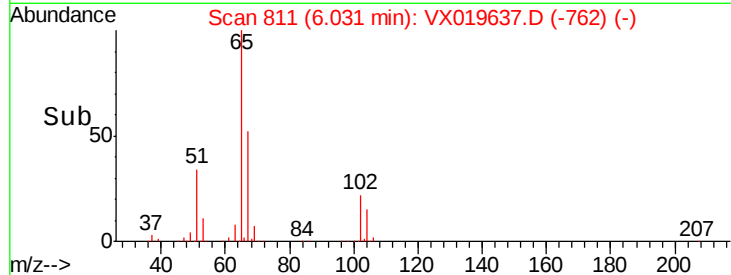
40000

20000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

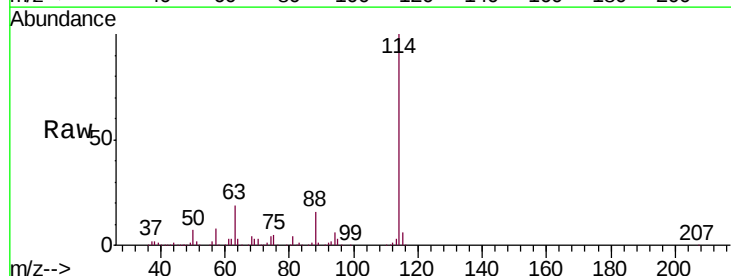
Tgt Ion: 114 Resp: 504734

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.8

88 15.8 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

300000

250000

200000

150000

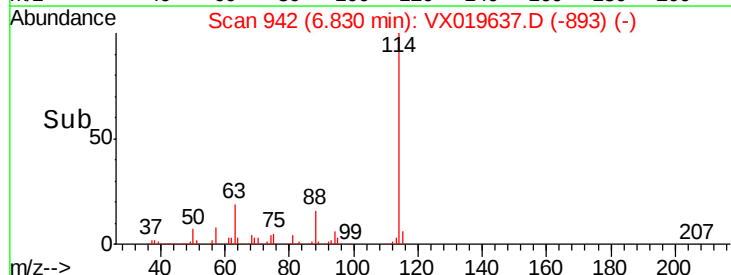
100000

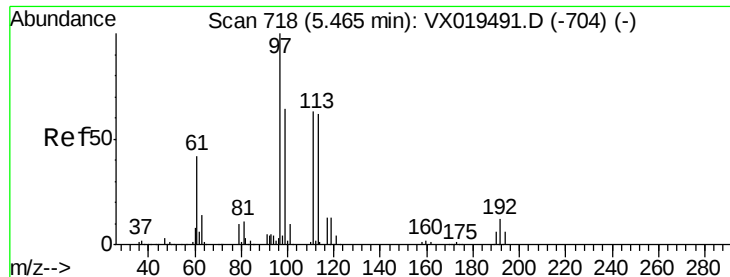
50000

0

6.80 7.00

Time-->

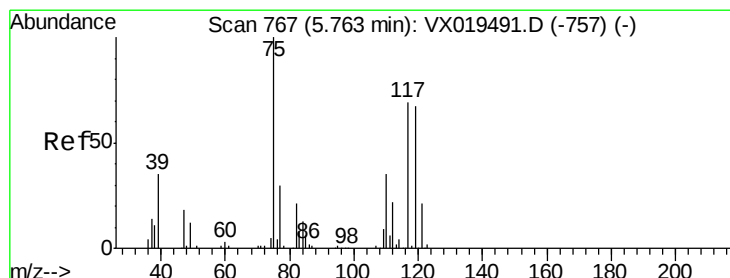
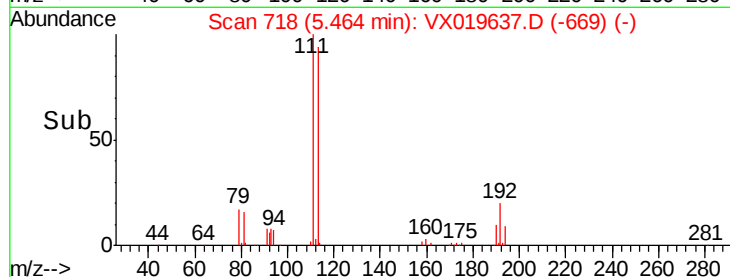
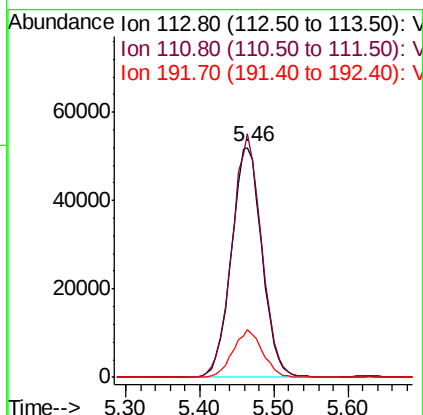
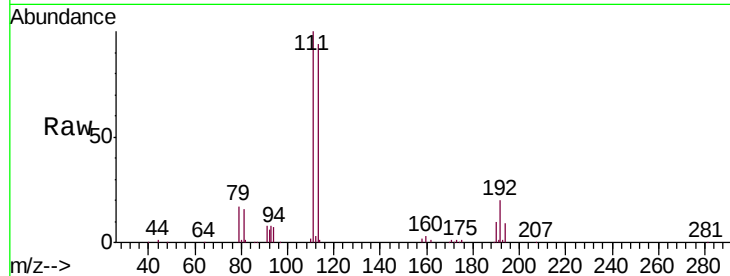




#35
 Dibromofluoromethane
 Concen: 47.318 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019637.D
 Acq: 25 Nov 2020 04:18

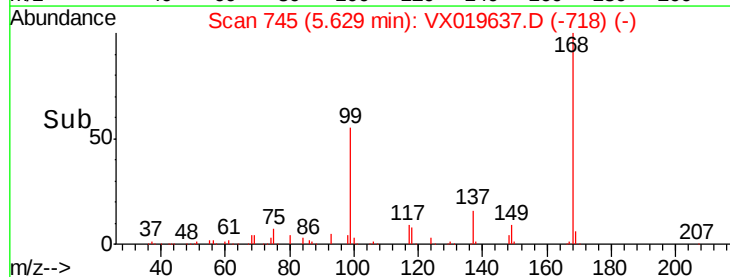
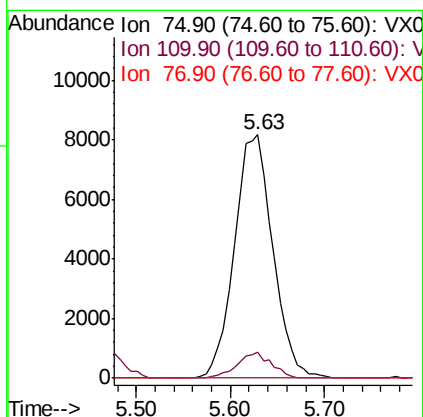
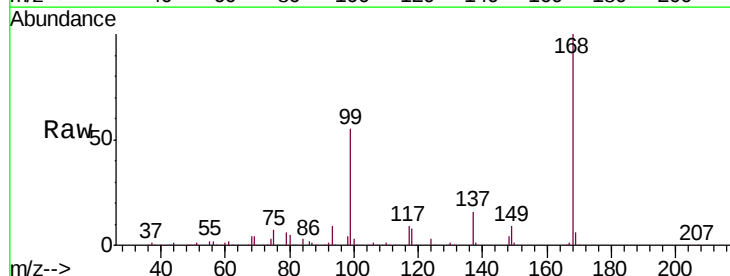
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-118.5T-20201119

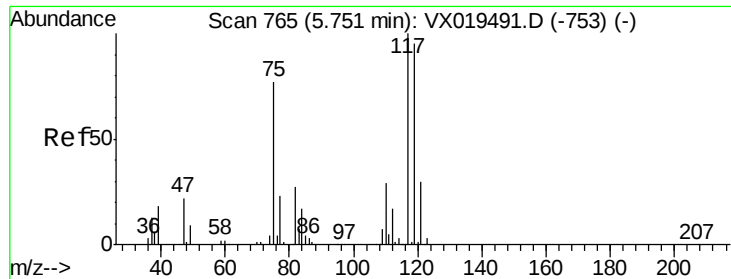
Tgt Ion:113 Resp: 149913
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.5 122.3
 192 19.9 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.901 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019637.D
 Acq: 25 Nov 2020 04:18

Tgt Ion: 75 Resp: 23191
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.1 54.3#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.423 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20201119

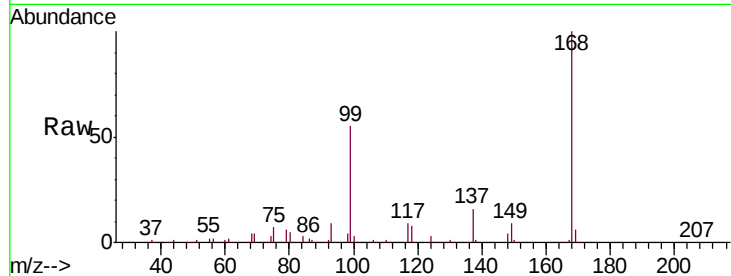
Tgt Ion:117 Resp: 29418

Ion Ratio Lower Upper

117 100

119 4.9 75.9 113.9#

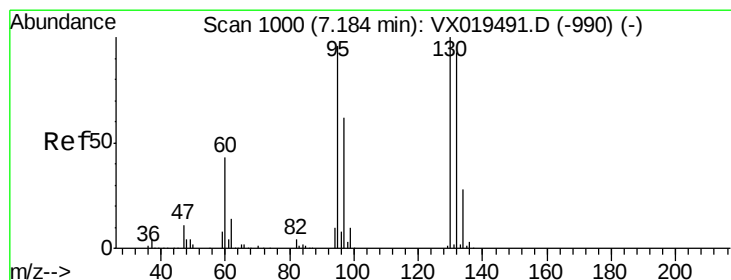
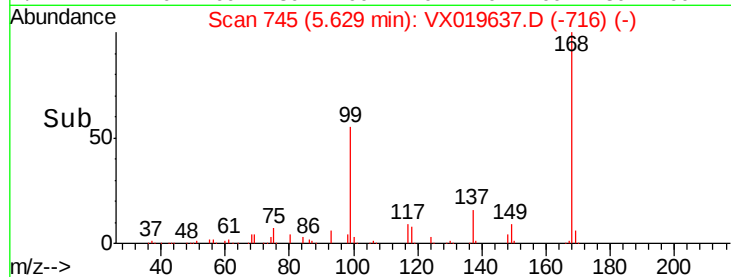
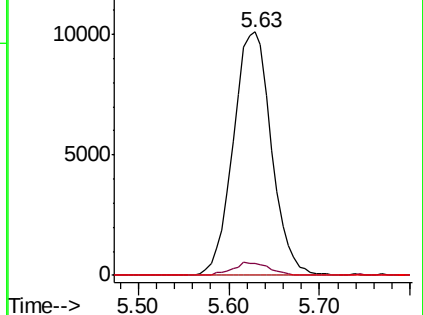
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 1.805 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019637.D

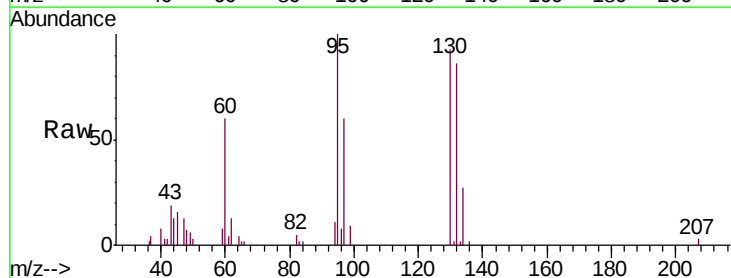
Acq: 25 Nov 2020 04:18

Tgt Ion:130 Resp: 6873

Ion Ratio Lower Upper

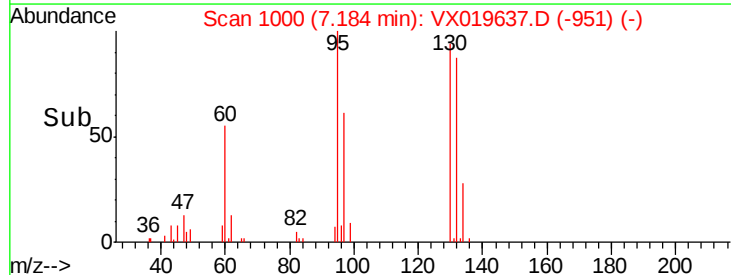
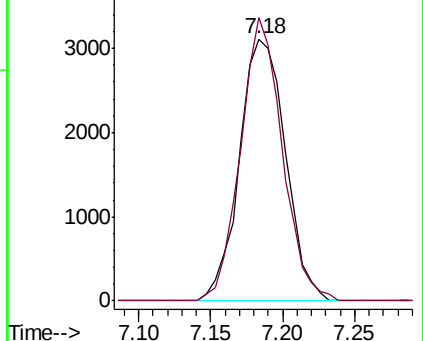
130 100

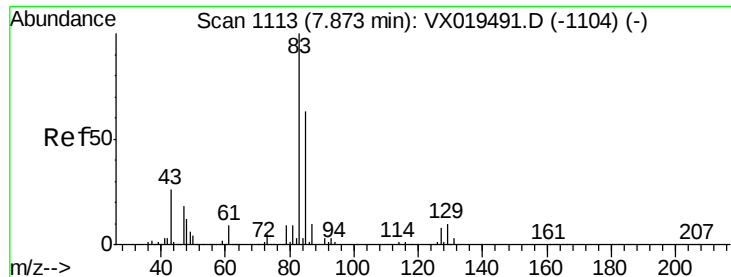
95 108.0 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 0.696 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20201119

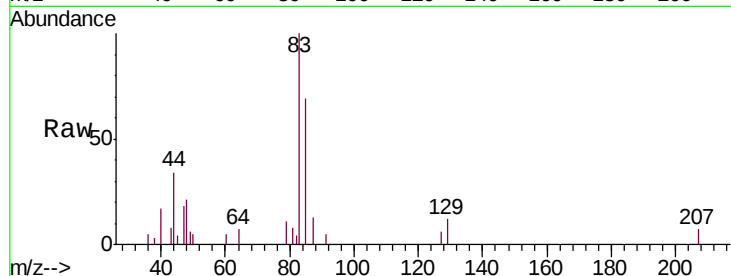
Tgt Ion: 83 Resp: 3309

Ion Ratio Lower Upper

83 100

85 68.5 50.2 75.2

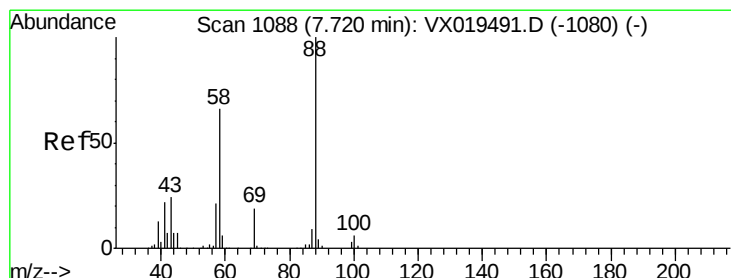
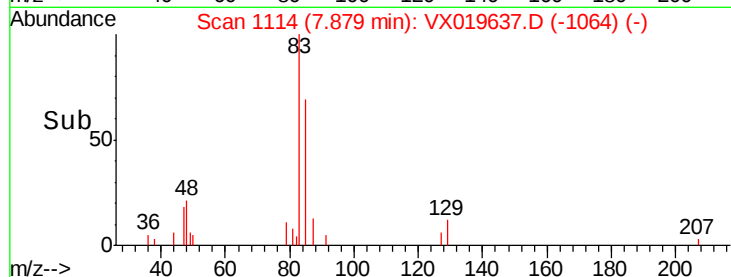
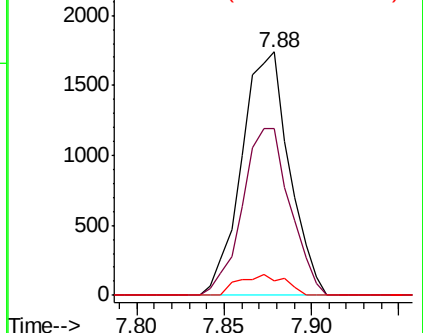
127 5.9 6.4 9.6#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): VX0



#49

1,4-Dioxane

Concen: 0.819 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

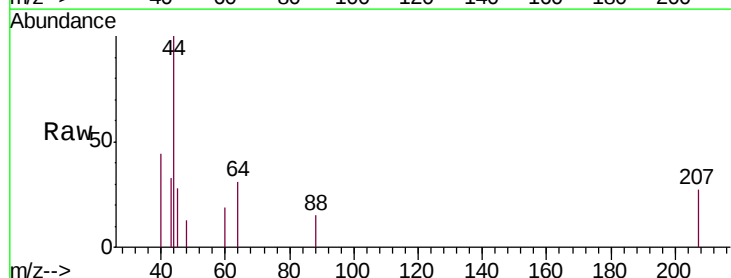
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 238.5 23.8 35.6#

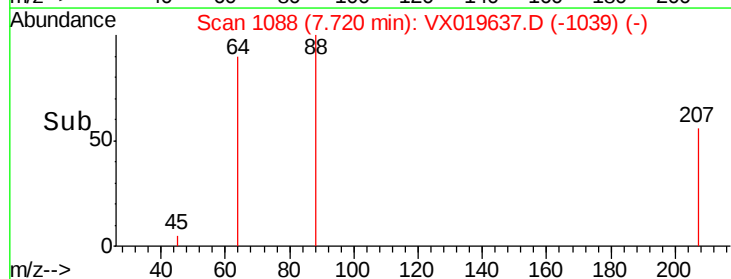
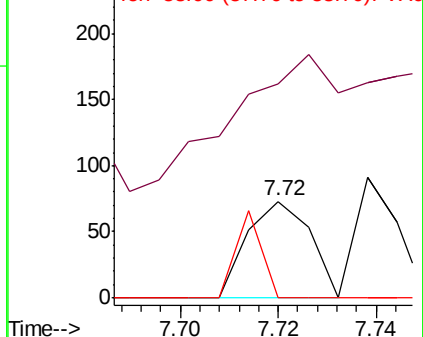
58 36.9 54.2 81.2#

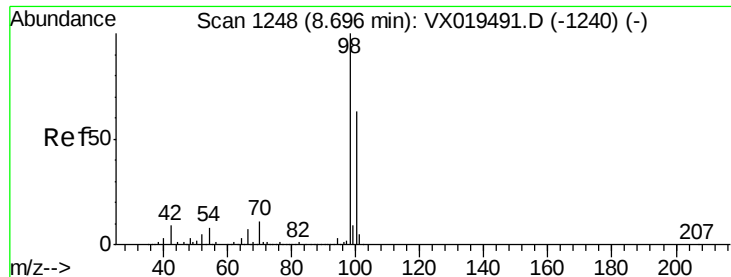


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.188 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

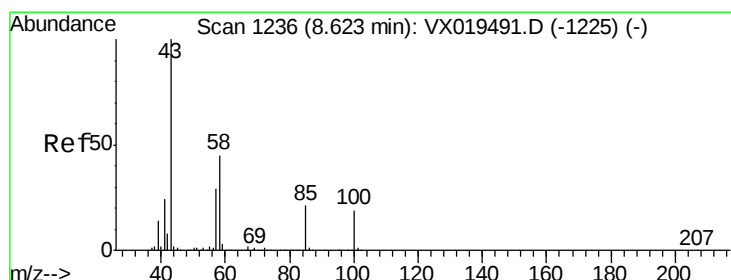
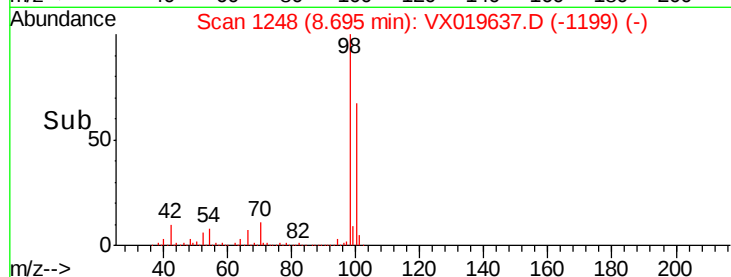
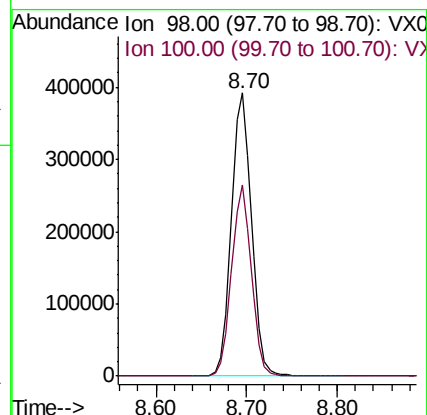
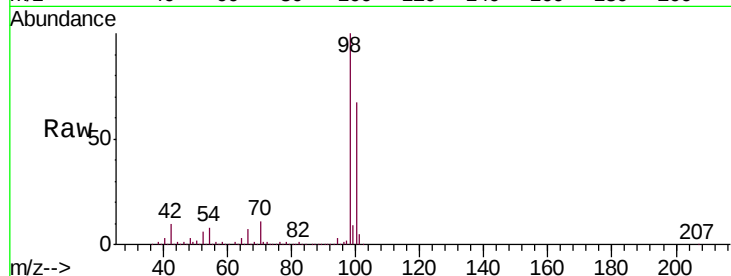
MH-118.5T-20201119

Tgt Ion: 98 Resp: 605572

Ion Ratio Lower Upper

98 100

100 66.5 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 0.289 ug/l

RT: 8.60 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VX019637.D

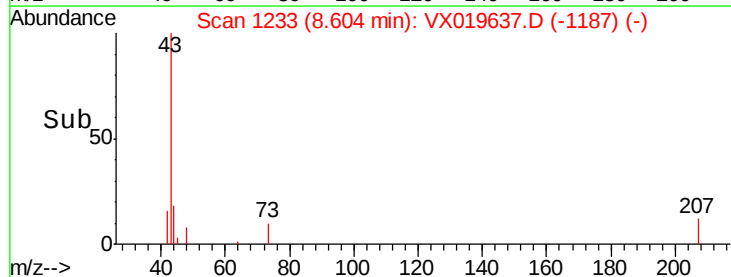
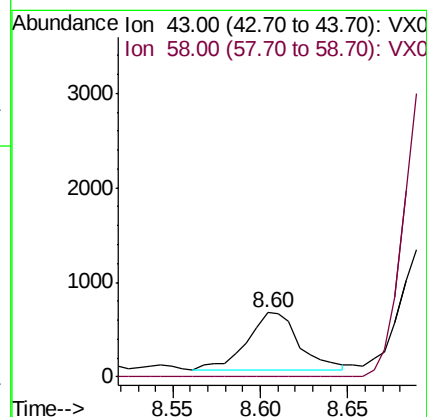
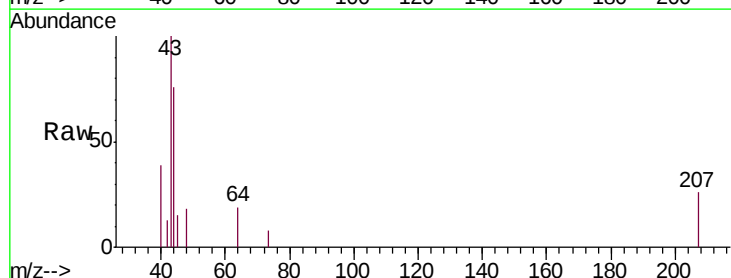
Acq: 25 Nov 2020 04:18

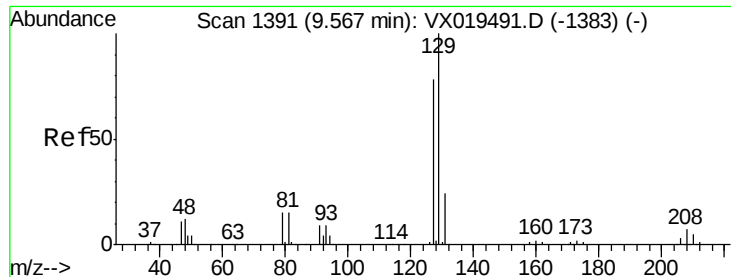
Tgt Ion: 43 Resp: 1260

Ion Ratio Lower Upper

43 100

58 0.0 35.1 52.7#





#60

Dibromochloromethane

Concen: 0.456 ug/l

RT: 9.56 min Scan# 1390

Delta R.T. -0.01 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

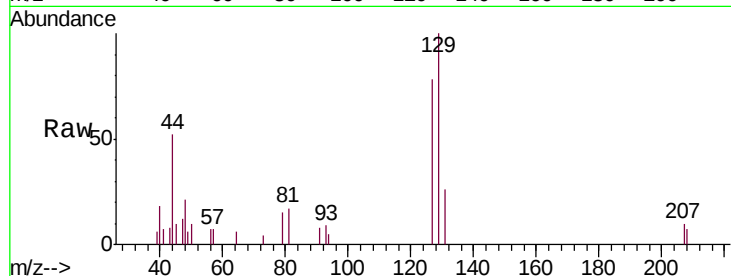
MH-118.5T-20201119

Tgt Ion:129 Resp: 1617

Ion Ratio Lower Upper

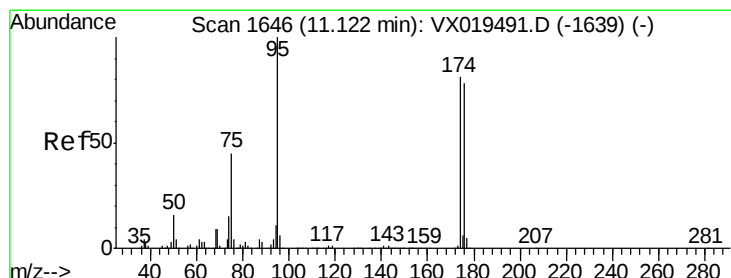
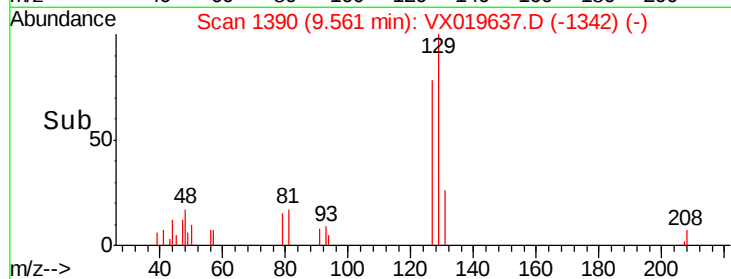
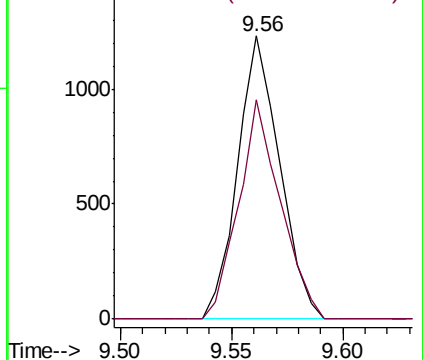
129 100

127 77.3 39.0 116.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.430 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

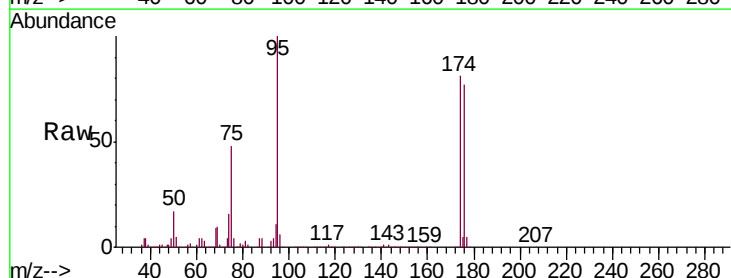
Tgt Ion: 95 Resp: 205661

Ion Ratio Lower Upper

95 100

174 77.4 0.0 156.2

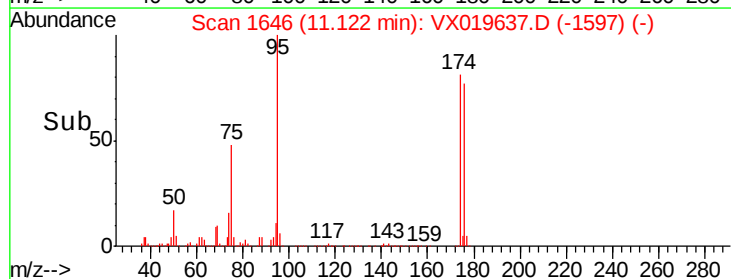
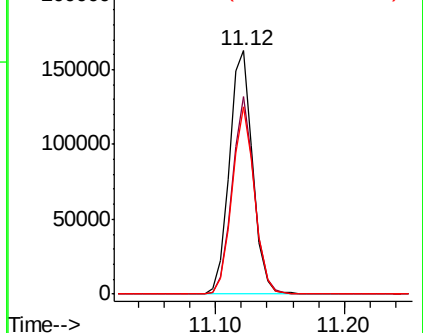
176 74.2 0.0 151.4

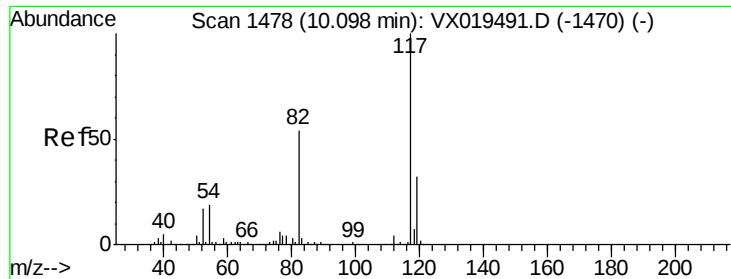


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

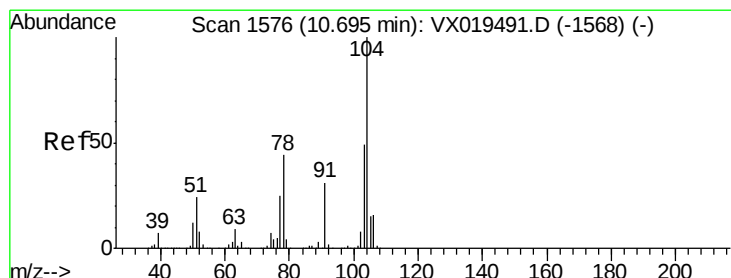
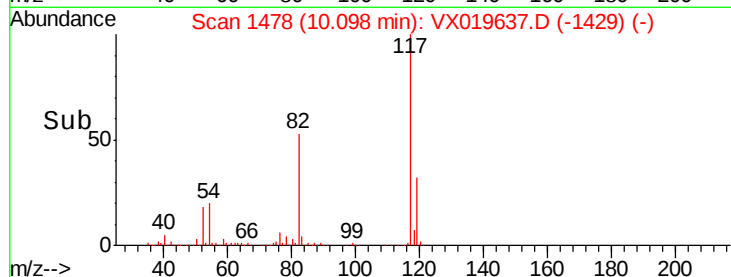
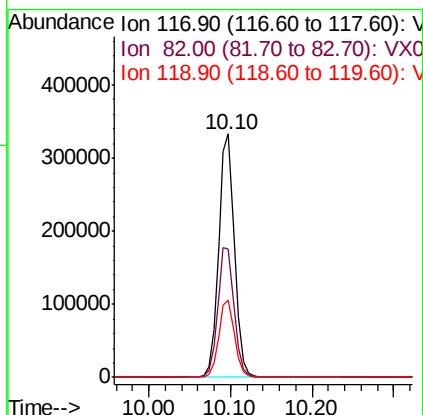
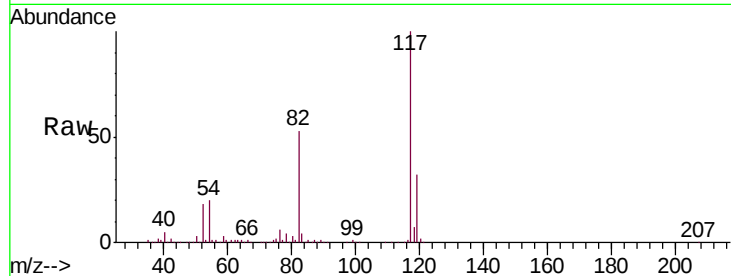




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019637.D
Acq: 25 Nov 2020 04:18

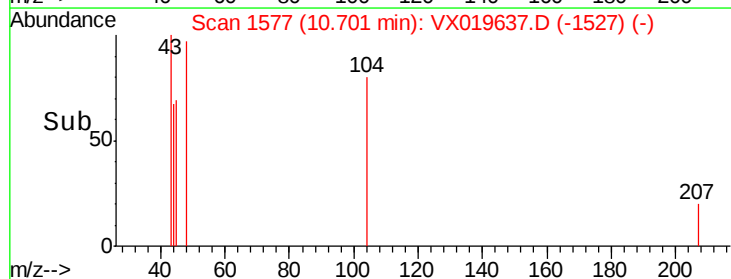
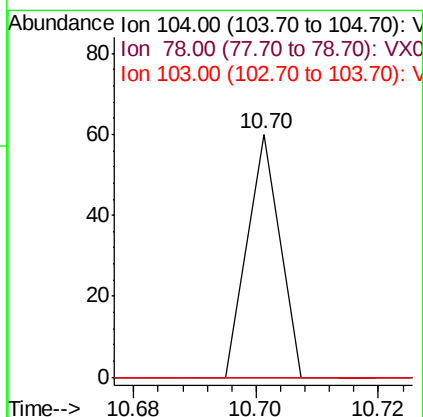
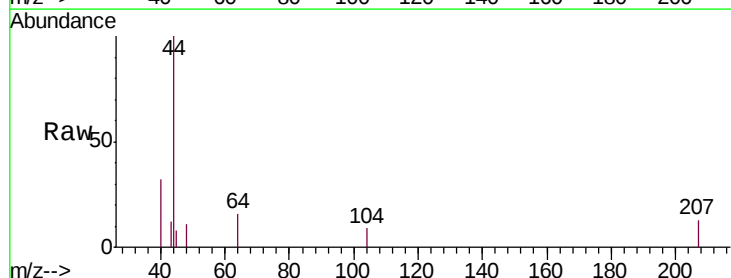
Instrument :
MSVOA_X
ClientSampleId :
MH-118.5T-20201119

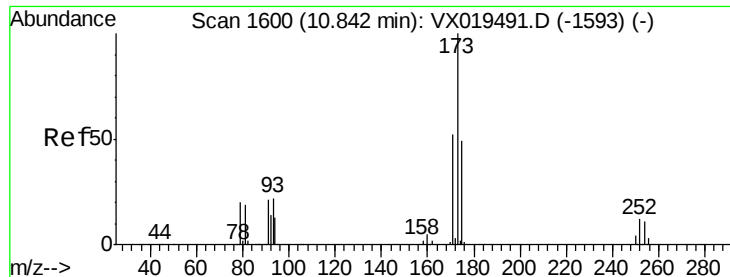
Tgt Ion:117 Resp: 454820
Ion Ratio Lower Upper
117 100
82 52.9 43.0 64.4
119 31.8 25.6 38.4



#70
Styrene
Concen: 1.648 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX019637.D
Acq: 25 Nov 2020 04:18

Tgt Ion:104 Resp: 22
Ion Ratio Lower Upper
104 100
78 0.0 39.5 59.3#
103 0.0 43.6 65.4#





#71

Bromoform

Concen: 3.711 ug/l

RT: 10.84 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20201119

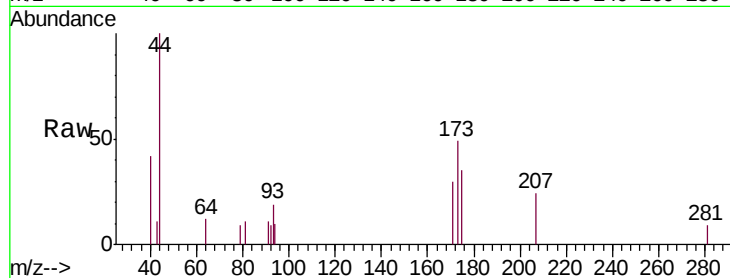
Tgt Ion:173 Resp: 336

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.8#

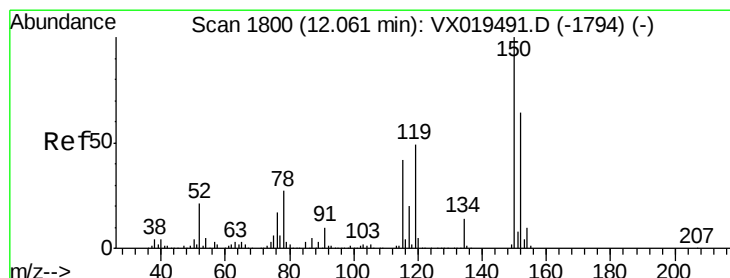
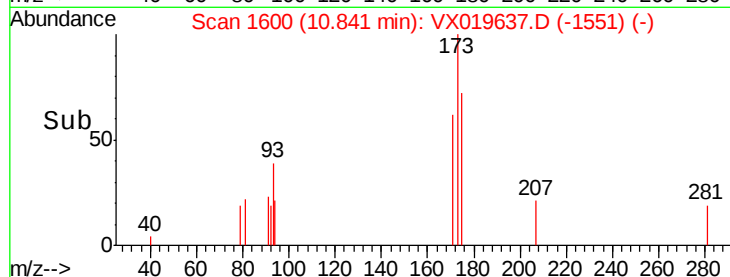
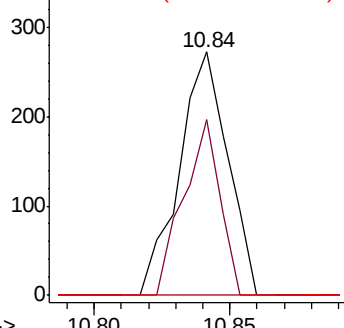
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

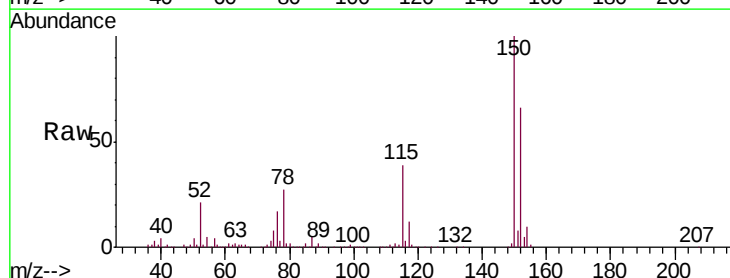
Tgt Ion:152 Resp: 179492

Ion Ratio Lower Upper

152 100

115 58.6 41.8 125.4

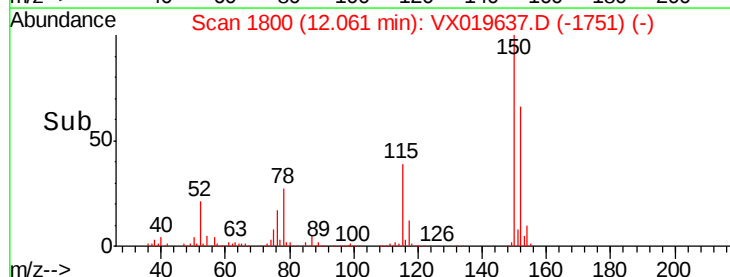
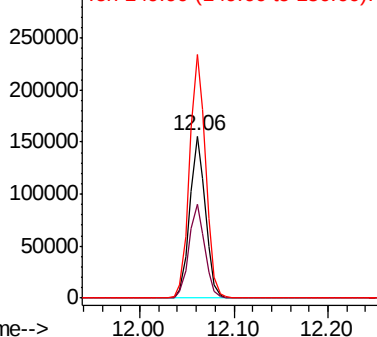
150 154.2 0.0 348.2

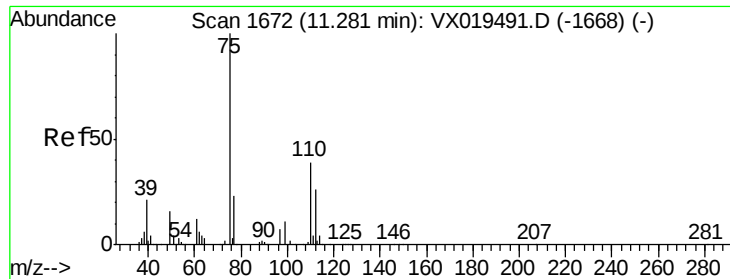


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.601 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

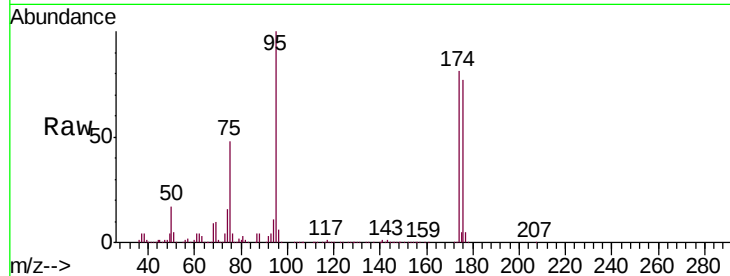
MH-118.5T-20201119

Tgt Ion: 75 Resp: 100284

Ion Ratio Lower Upper

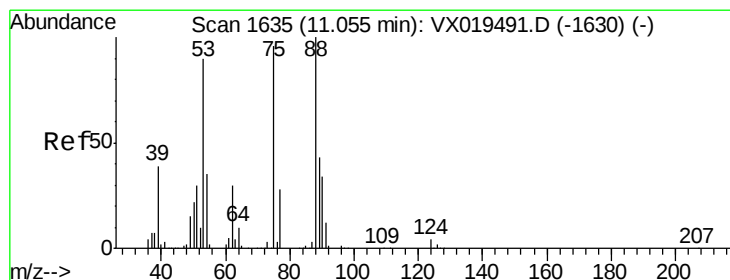
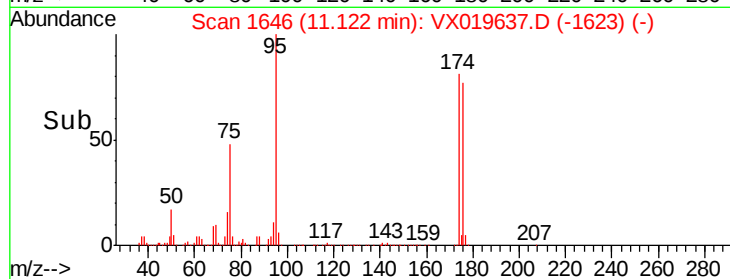
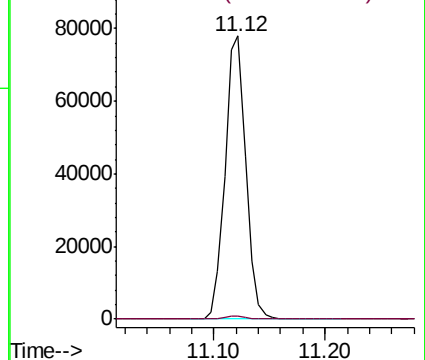
75 100

77 1.2 20.0 60.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 67.526 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

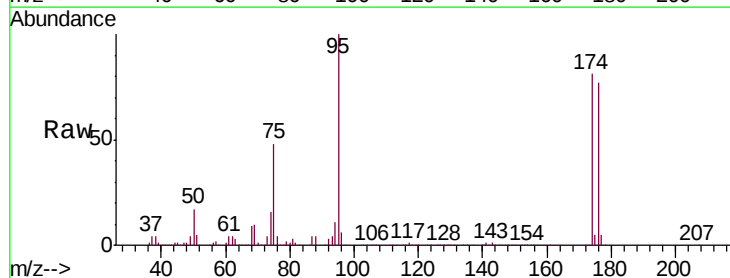
Tgt Ion: 75 Resp: 100284

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

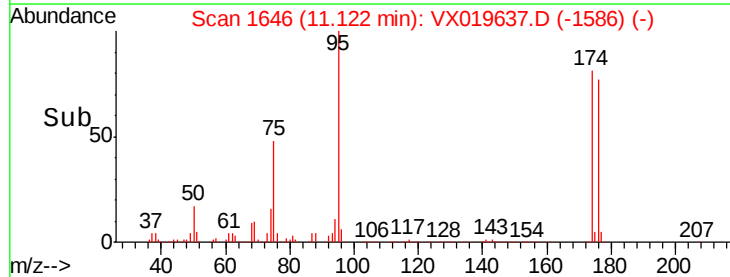
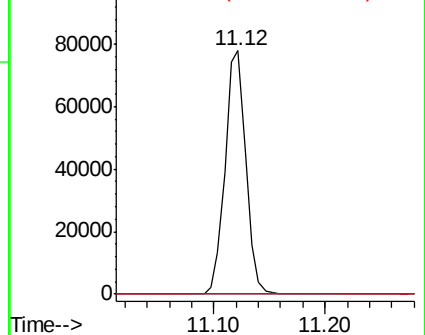
89 0.0 37.3 55.9#

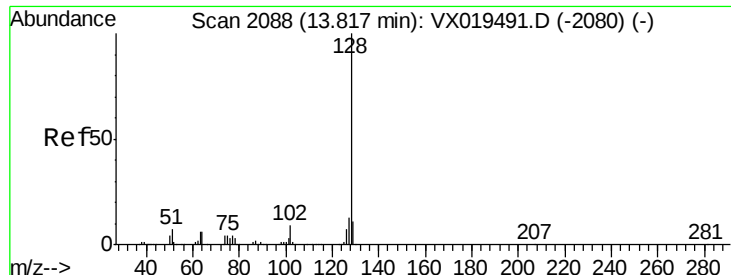


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 2.209 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX019637.D

Acq: 25 Nov 2020 04:18

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20201119

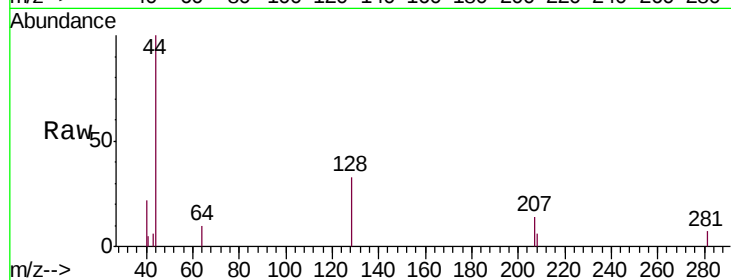
Tgt Ion:128 Resp: 424

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

