

Data File : VX019639.D
Acq On : 25 Nov 2020 05:05
Operator : JC/MD
Sample : L4835-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MH-121.5T-20201119

Quant Time: Nov 25 06:59:13 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	303263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	498469	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	456101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	182298	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	187843	47.77	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.54%
35) Dibromofluoromethane	5.46	113	148520	47.47	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.94%
50) Toluene-d8	8.70	98	596041	49.02	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.04%
62) 4-Bromofluorobenzene	11.12	95	206377	47.18	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	94.36%

Target Compounds

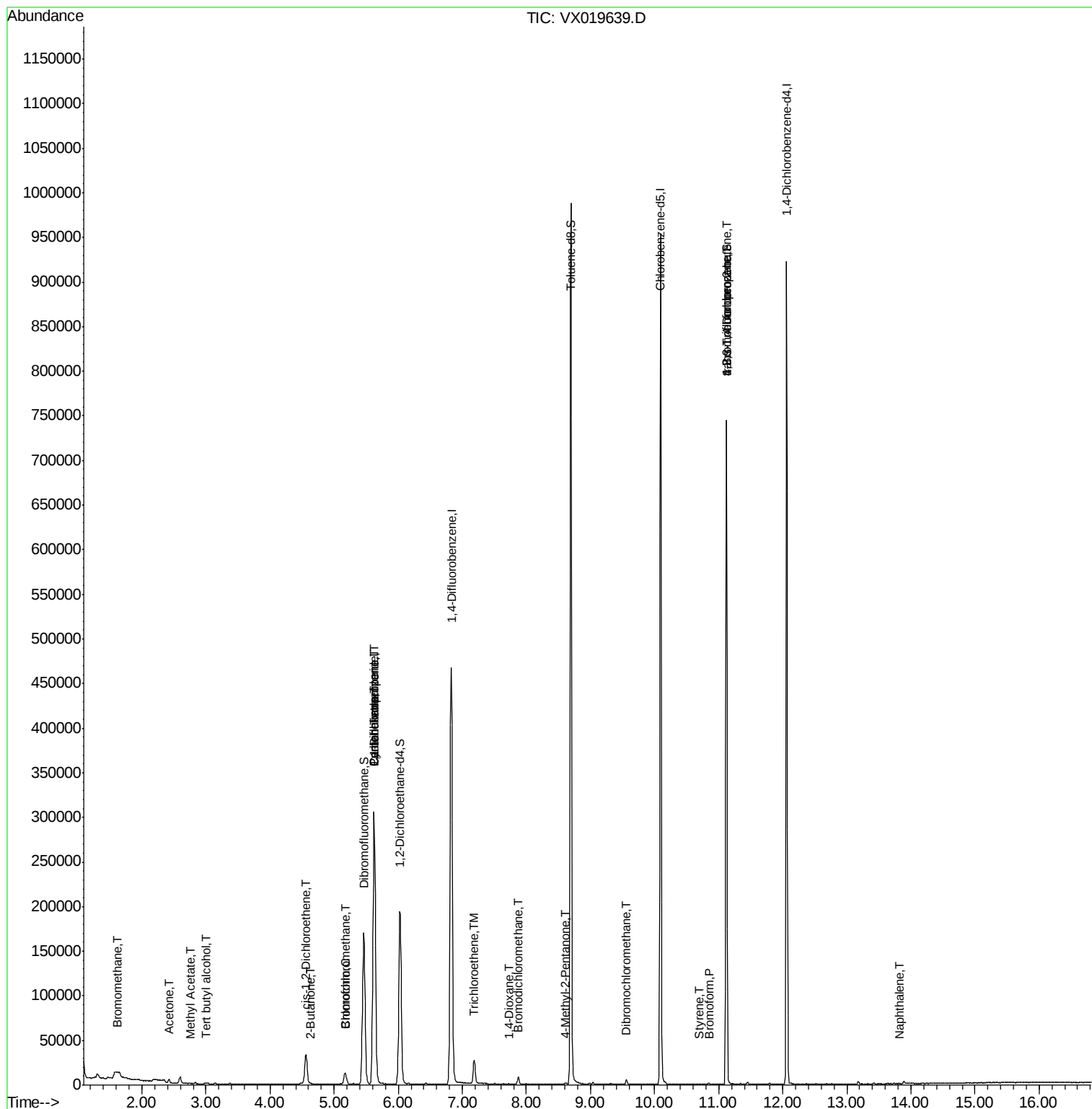
					Qvalue	
5) Bromomethane	1.62	94	365	0.265	ug/l #	68
6) Chloroethane	1.67	64	1064	Below Cal	#	42
11) Tert butyl alcohol	3.00	59	741	0.996	ug/l #	73
16) Acetone	2.42	43	3983	2.619	ug/l	97
18) Methyl Acetate	2.75	43	318	0.719	ug/l #	47
25) 2-Butanone	4.64	43	613	0.268	ug/l	96
27) cis-1,2-Dichloroethene	4.56	96	21810	5.566	ug/l	93
28) Bromochloromethane	5.17	49	1244	0.436	ug/l #	8
30) Chloroform	5.17	83	16028	2.568	ug/l	94
31) Cyclohexane	5.62	56	5629	1.101	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22581	4.832	ug/l #	49
38) Carbon Tetrachloride	5.62	117	29616	6.547	ug/l #	17
44) Trichloroethene	7.18	130	9417	2.504	ug/l	99
47) Bromodichloromethane	7.87	83	4489	0.956	ug/l	96
49) 1,4-Dioxane	7.72	88	191	2.436	ug/l #	33
51) 4-Methyl-2-Pentanone	8.60	43	1366	0.318	ug/l #	32
60) Dibromochloromethane	9.56	129	1976	0.564	ug/l	95
70) Styrene	10.70	104	45	1.650	ug/l #	26
71) Bromoform	10.84	173	413	3.735	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	101580	25.533	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	101580	67.358	ug/l #	12
95) Naphthalene	13.82	128	310	2.200	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: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

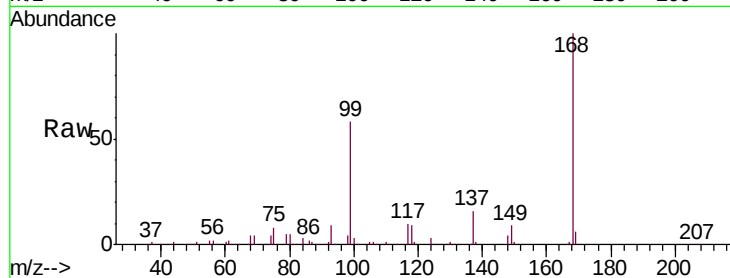
MH-121.5T-20201119

Tgt Ion:168 Resp: 303263

Ion Ratio Lower Upper

168 100

99 58.4 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

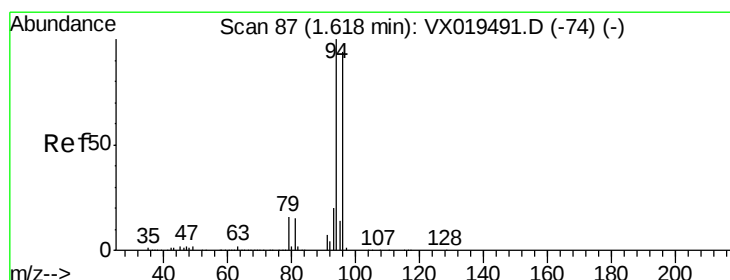
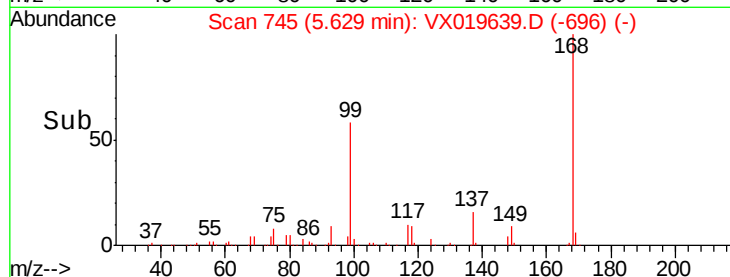
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.265 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019639.D

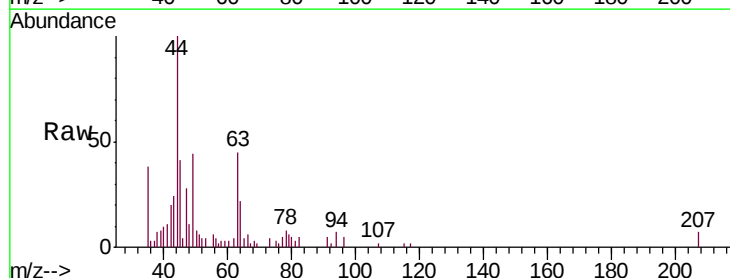
Acq: 25 Nov 2020 05:05

Tgt Ion: 94 Resp: 365

Ion Ratio Lower Upper

94 100

96 63.6 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

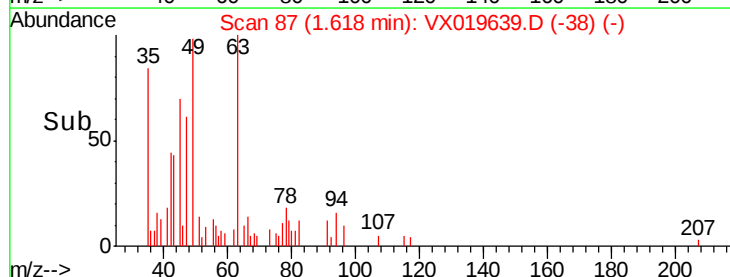
150

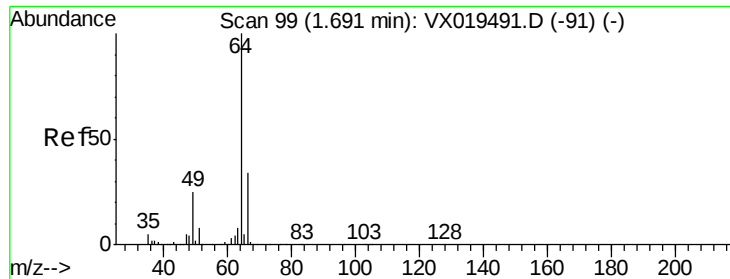
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 96

Delta R.T. -0.02 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

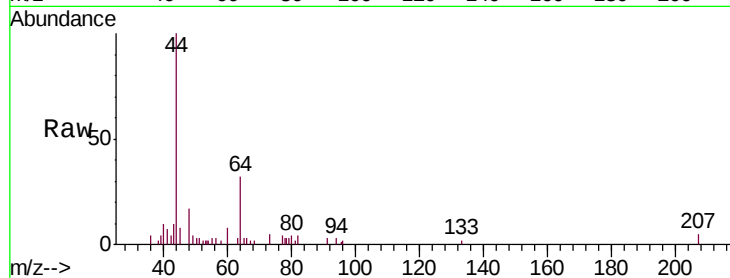
MH-121.5T-20201119

Tgt Ion: 64 Resp: 1064

Ion Ratio Lower Upper

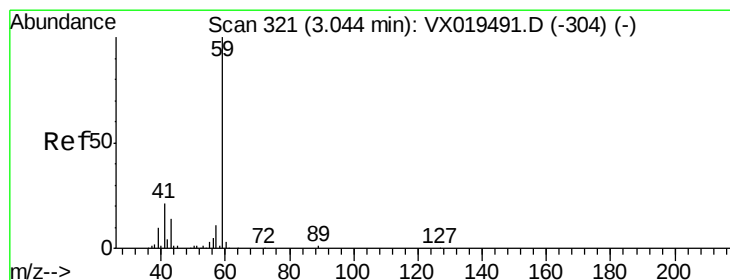
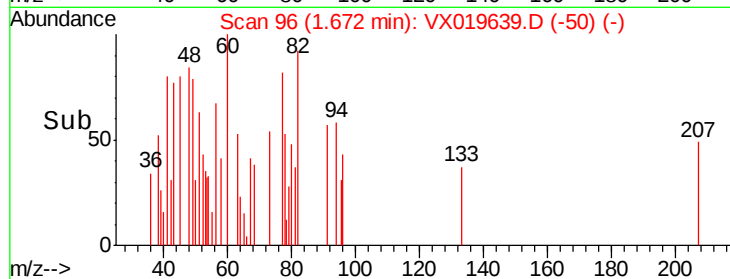
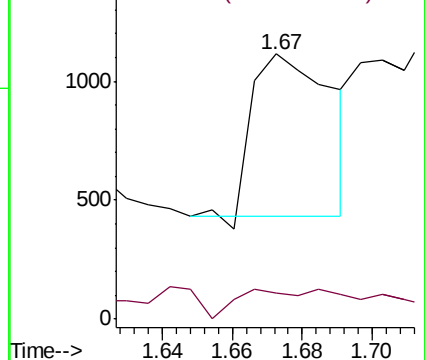
64 100

66 0.7 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: 0.996 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.04 min

Lab File: VX019639.D

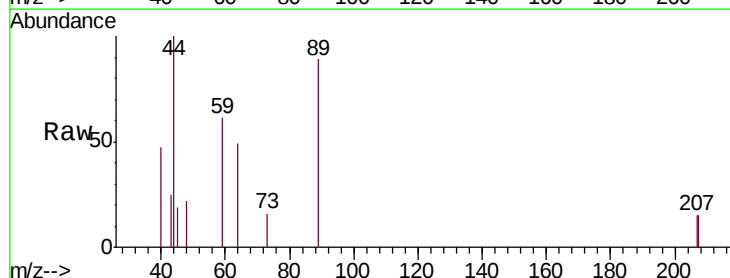
Acq: 25 Nov 2020 05:05

Tgt Ion: 59 Resp: 741

Ion Ratio Lower Upper

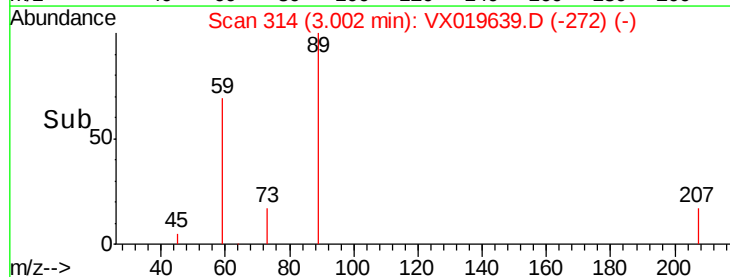
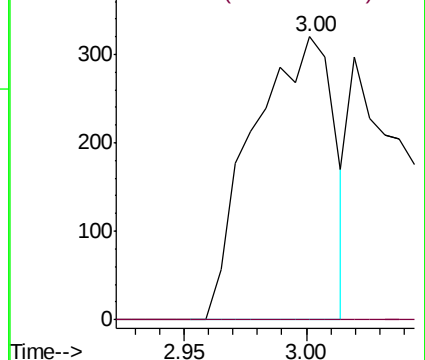
59 100

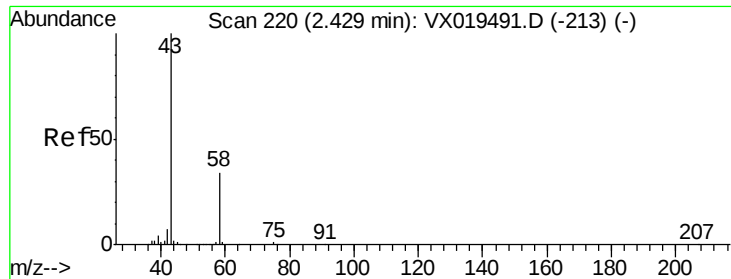
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 2.619 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

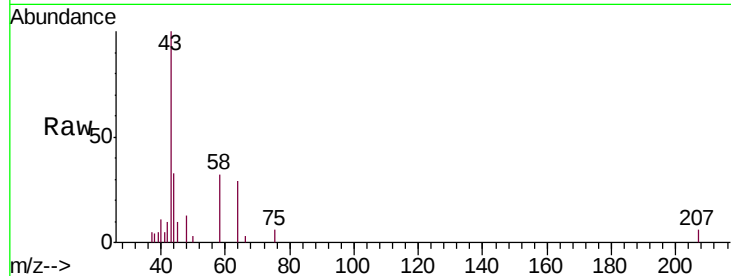
MH-121.5T-20201119

Tgt Ion: 43 Resp: 3983

Ion Ratio Lower Upper

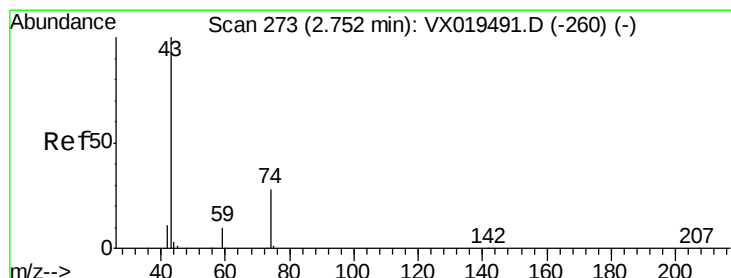
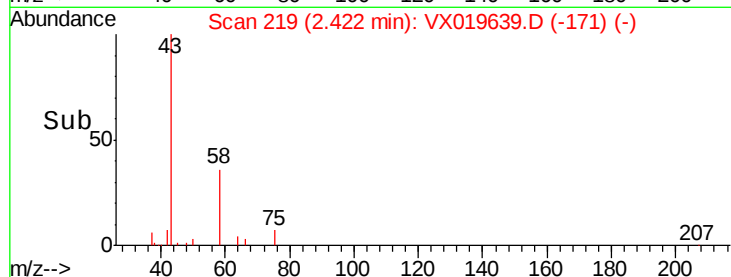
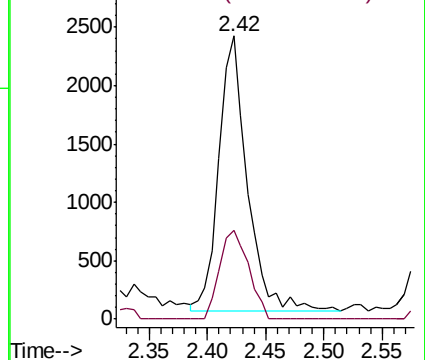
43 100

58 32.5 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.719 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019639.D

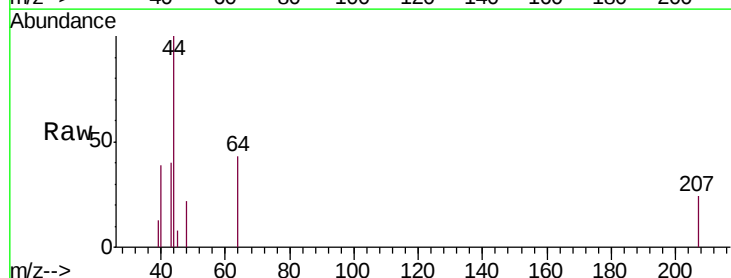
Acq: 25 Nov 2020 05:05

Tgt Ion: 43 Resp: 318

Ion Ratio Lower Upper

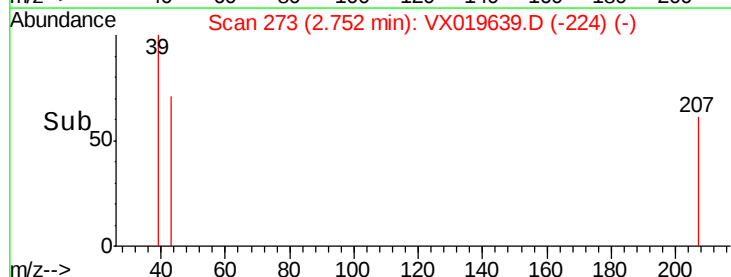
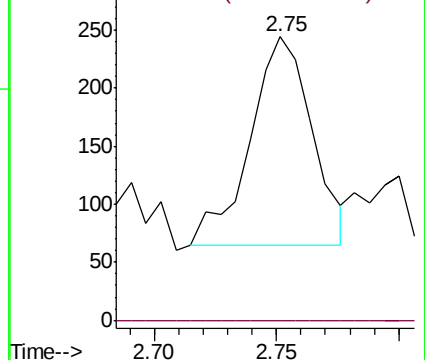
43 100

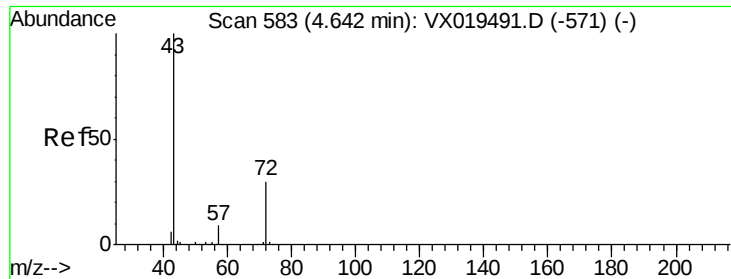
74 0.0 22.2 33.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 0.268 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

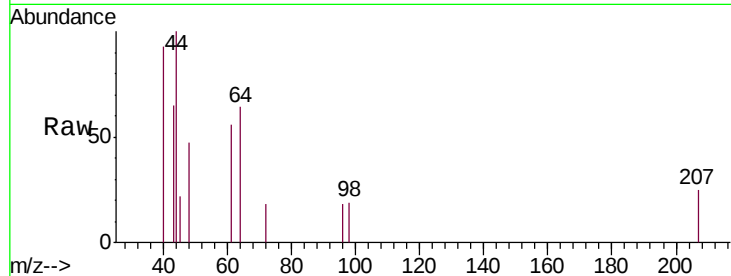
MH-121.5T-20201119

Tgt Ion: 43 Resp: 613

Ion Ratio Lower Upper

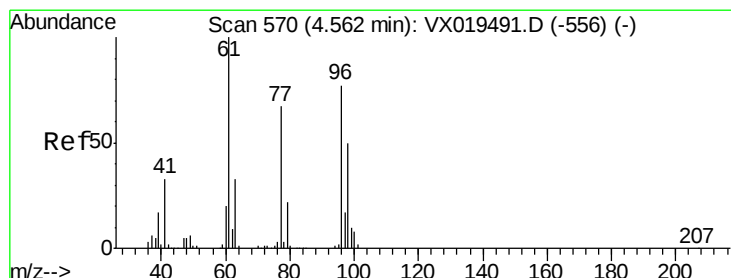
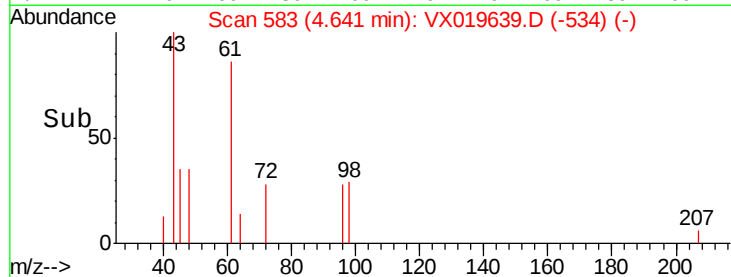
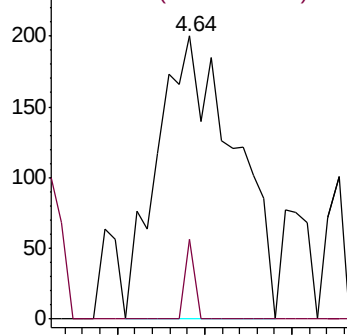
43 100

72 28.0 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 5.566 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

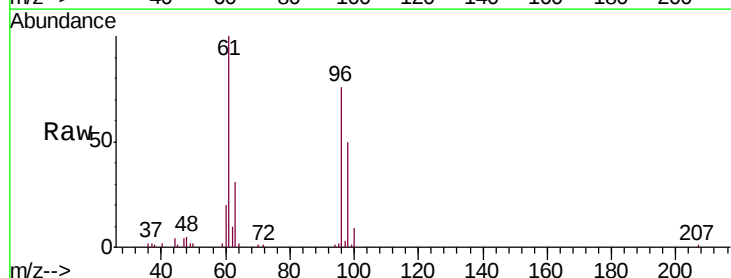
Tgt Ion: 96 Resp: 21810

Ion Ratio Lower Upper

96 100

61 127.0 0.0 279.2

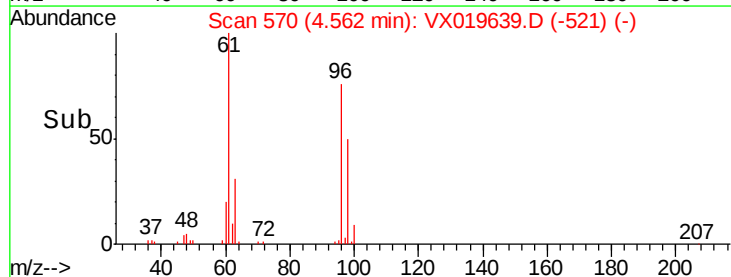
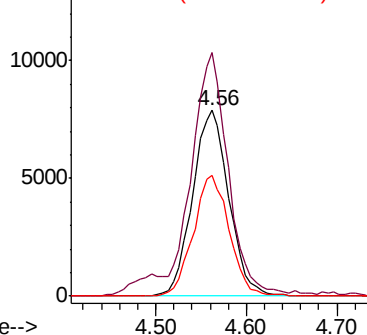
98 64.3 0.0 129.8

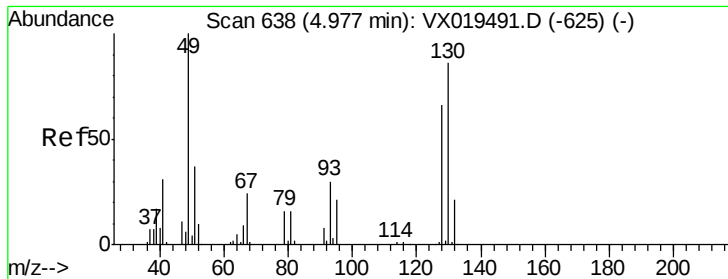


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: 0.436 ug/l

RT: 5.17 min Scan# 670

Delta R.T. 0.20 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

MH-121.5T-20201119

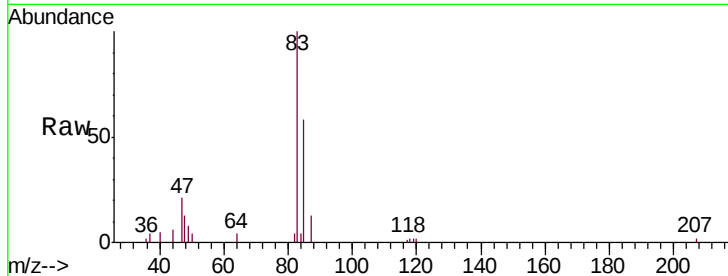
Tgt Ion: 49 Resp: 1244

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 69.0 103.6#

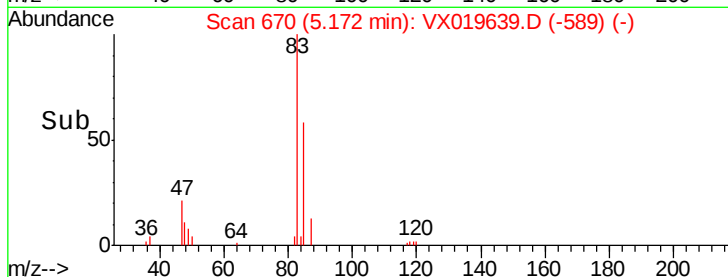


Abundance Ion 48.90 (48.60 to 49.60): VX0

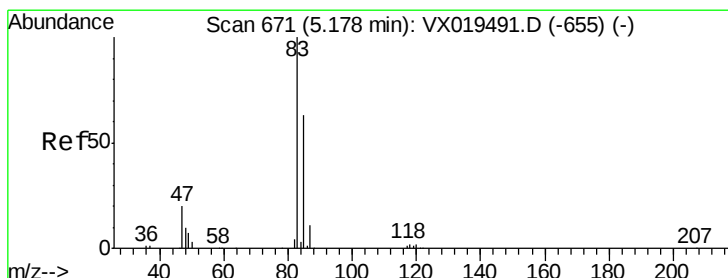
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.17



Time-->



#30

Chloroform

Concen: 2.568 ug/l

RT: 5.17 min Scan# 670

Delta R.T. -0.01 min

Lab File: VX019639.D

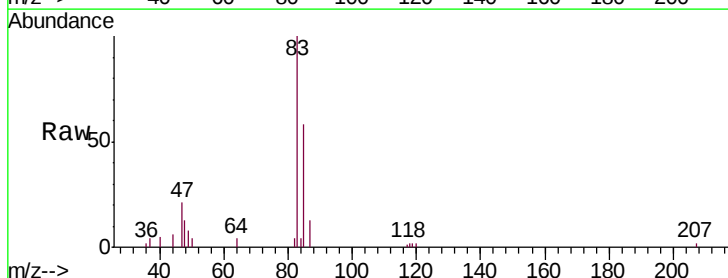
Acq: 25 Nov 2020 05:05

Tgt Ion: 83 Resp: 16028

Ion Ratio Lower Upper

83 100

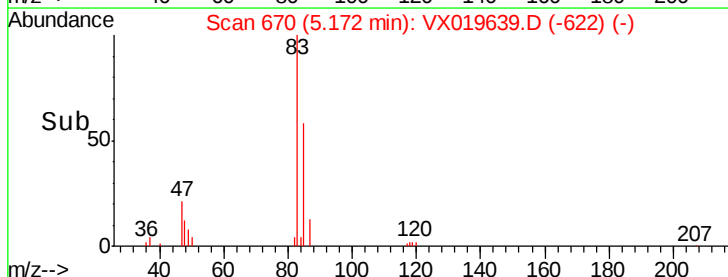
85 58.2 50.5 75.7



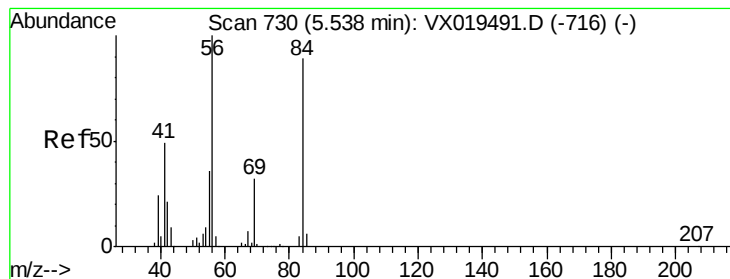
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.17



Time-->



#31

Cyclohexane

Concen: 1.101 ug/l

RT: 5.62 min Scan# 743

Delta R.T. 0.08 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

MH-121.5T-20201119

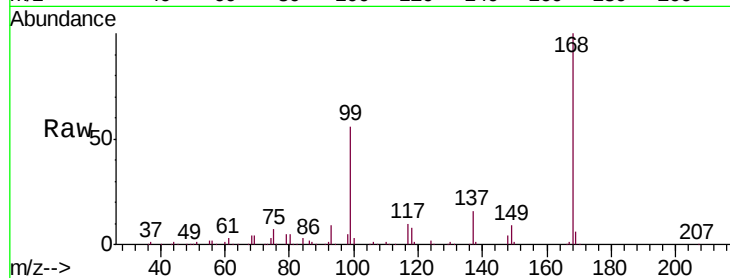
Tgt Ion: 56 Resp: 5629

Ion Ratio Lower Upper

56 100

69 200.6 25.5 38.3#

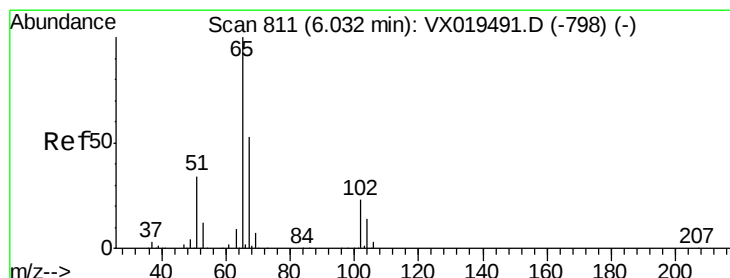
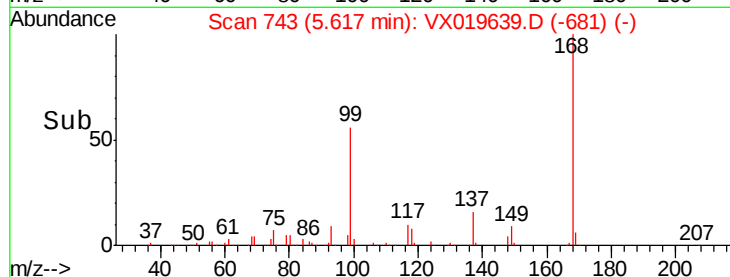
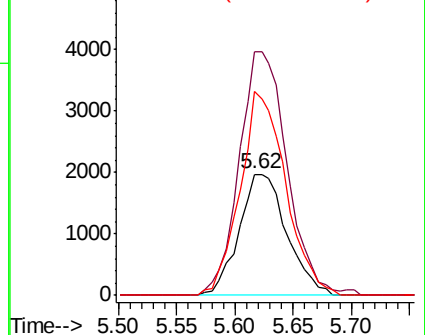
84 168.3 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.772 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019639.D

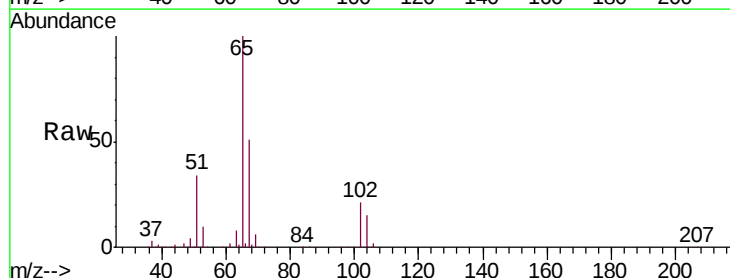
Acq: 25 Nov 2020 05:05

Tgt Ion: 65 Resp: 187843

Ion Ratio Lower Upper

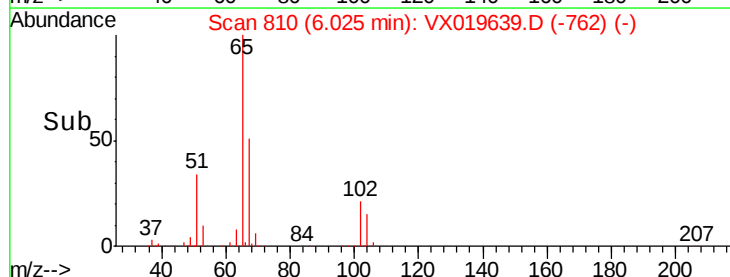
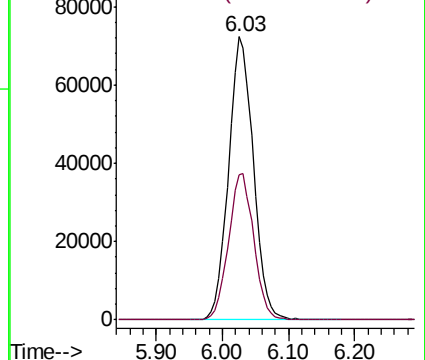
65 100

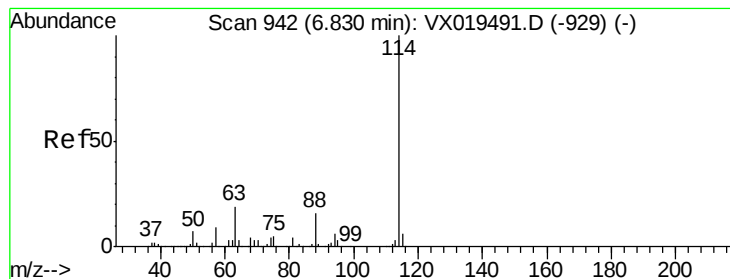
67 52.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

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MSVOA_X

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MH-121.5T-20201119

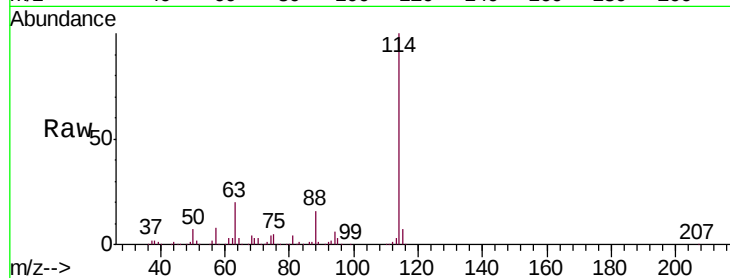
Tgt Ion:114 Resp: 498469

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.8

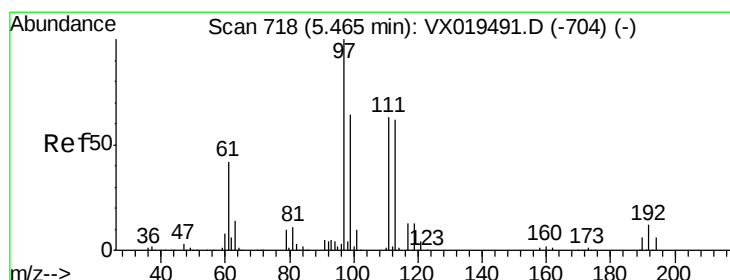
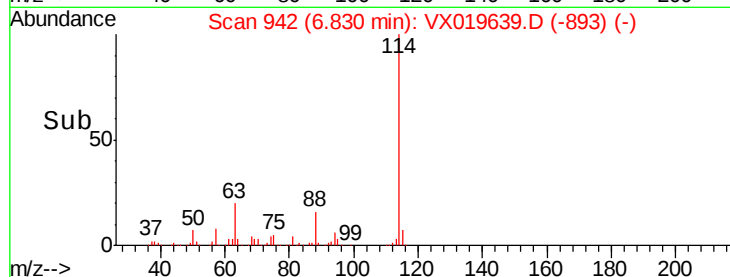
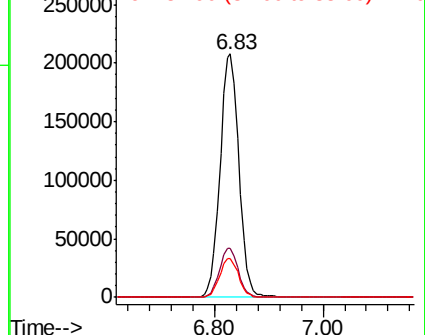
88 15.9 0.0 31.6



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



#35

Dibromofluoromethane

Concen: 47.467 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

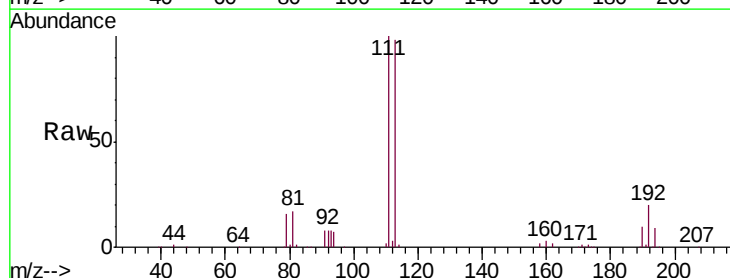
Tgt Ion:113 Resp: 148520

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

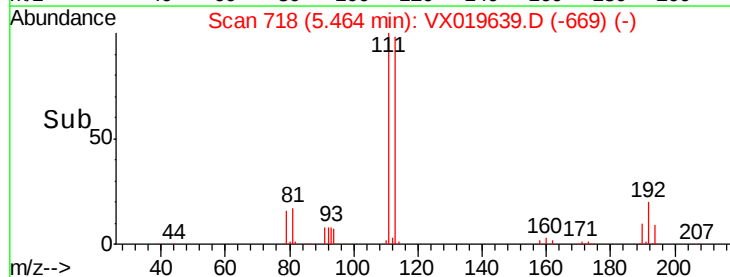
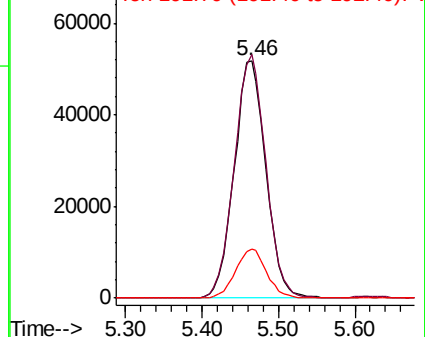
192 20.1 16.2 24.2

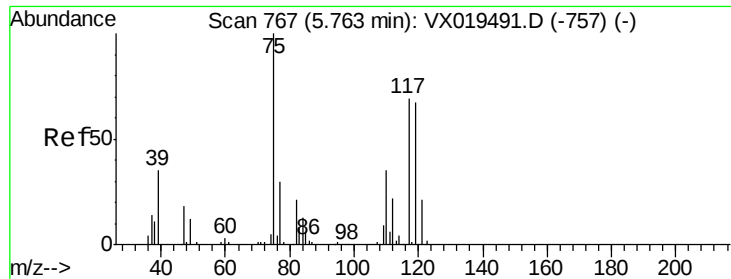


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.832 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

MH-121.5T-20201119

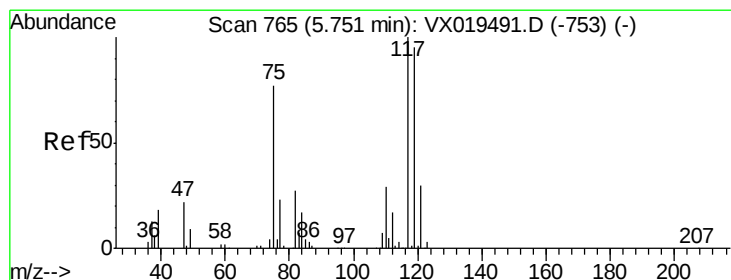
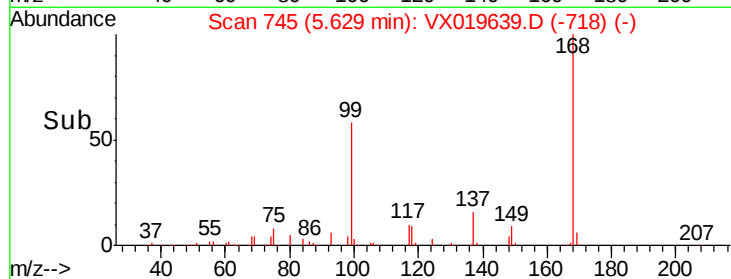
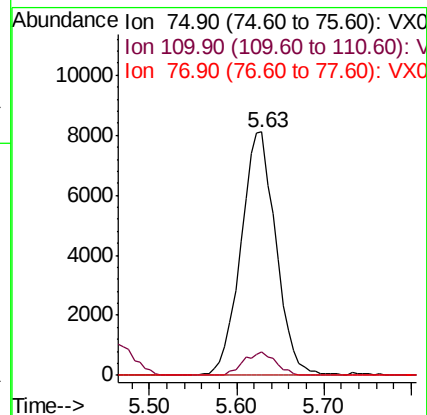
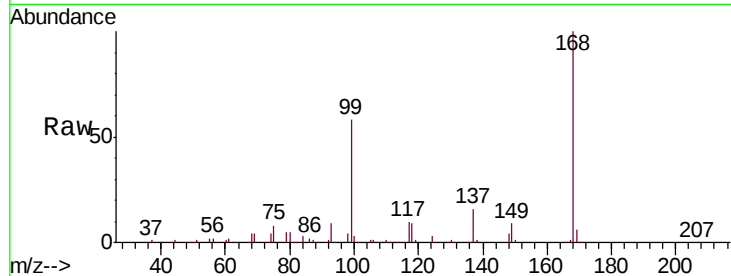
Tgt Ion: 75 Resp: 22581

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.3#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 6.547 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

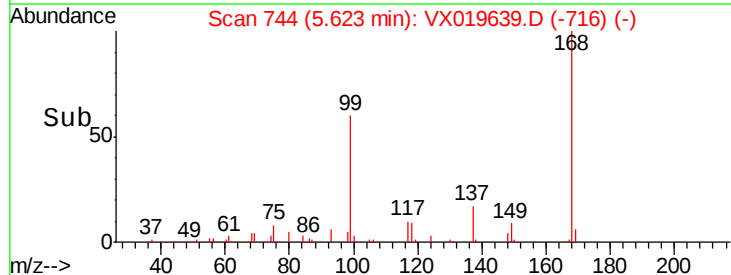
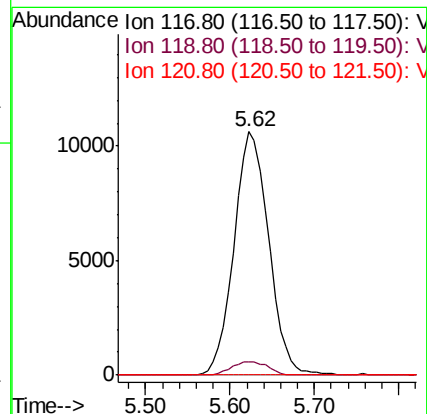
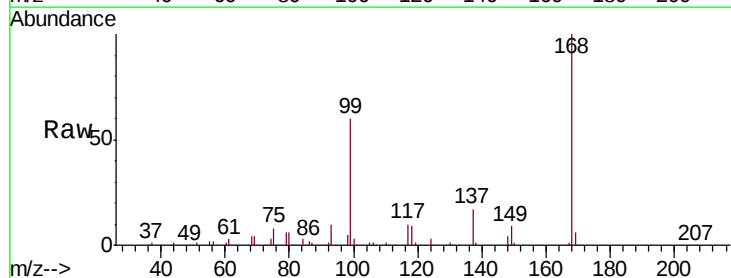
Tgt Ion: 117 Resp: 29616

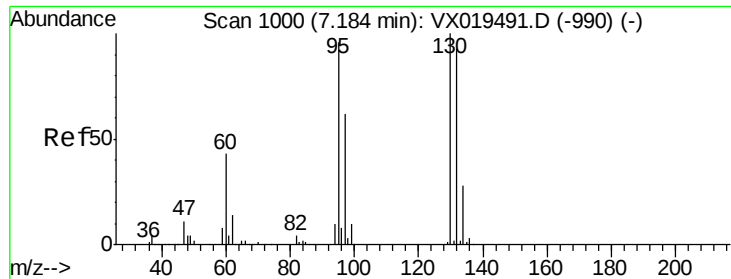
Ion Ratio Lower Upper

117 100

119 5.3 75.9 113.9#

121 0.0 24.0 36.0#





#44

Trichloroethene

Concen: 2.504 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

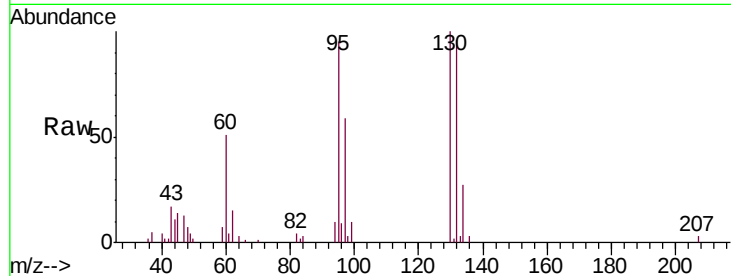
MH-121.5T-20201119

Tgt Ion:130 Resp: 9417

Ion Ratio Lower Upper

130 100

95 94.8 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

5000

4000

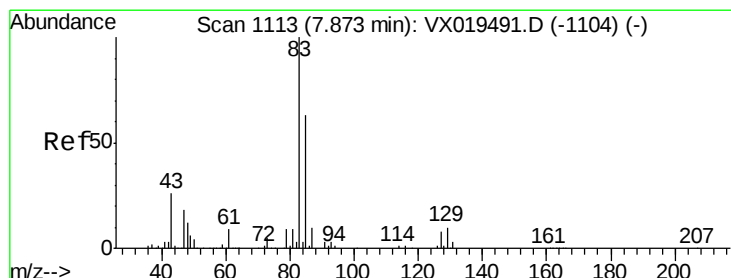
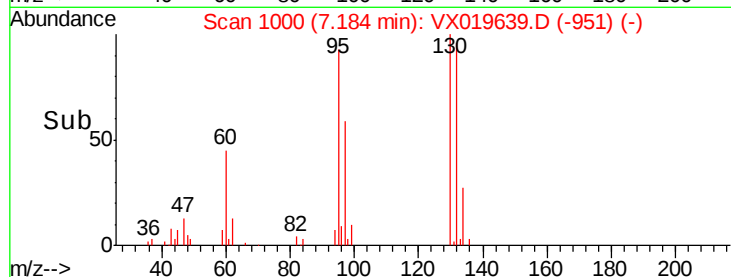
3000

2000

1000

0

Time-->



#47

Bromodichloromethane

Concen: 0.956 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

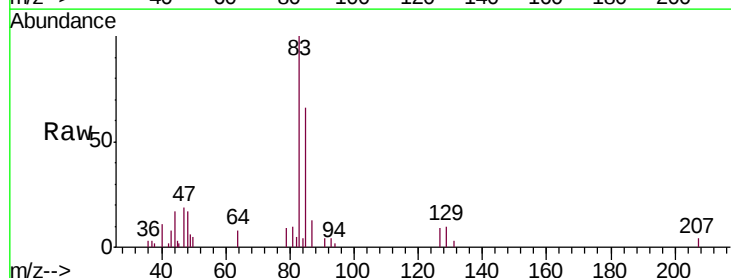
Tgt Ion: 83 Resp: 4489

Ion Ratio Lower Upper

83 100

85 66.4 50.2 75.2

127 8.7 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): V

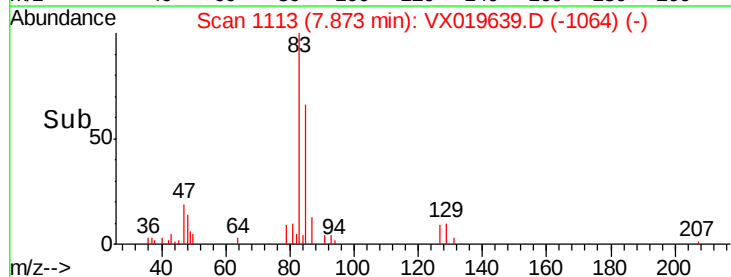
3000

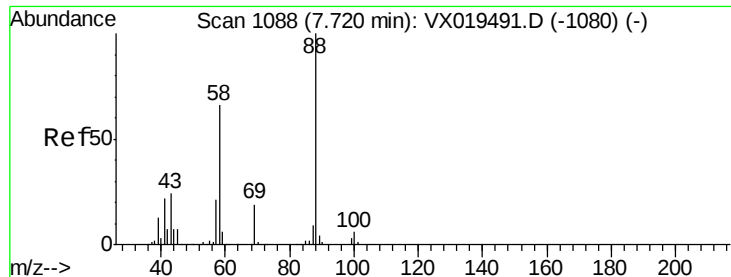
2000

1000

0

Time-->

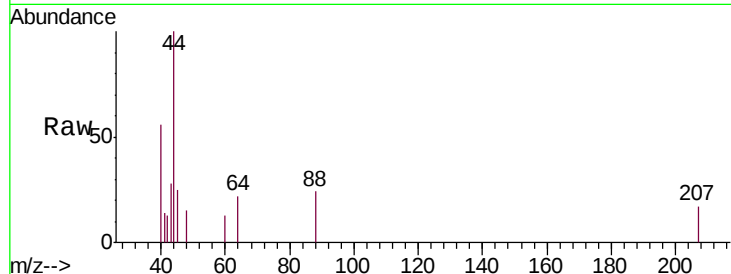




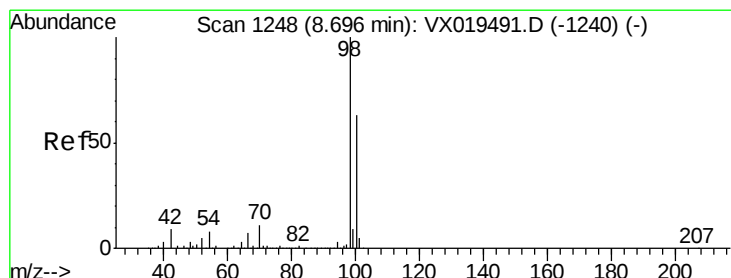
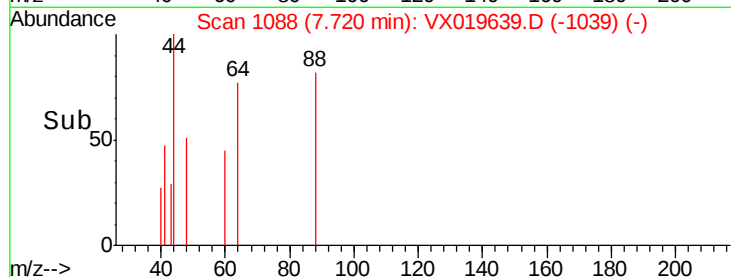
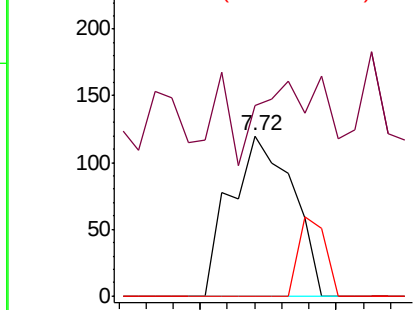
#49
 1,4-Dioxane
 Concen: 2.436 ug/l
 RT: 7.72 min Scan# 1088
 Delta R.T. -0.00 min
 Lab File: VX019639.D
 Acq: 25 Nov 2020 05:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-121.5T-20201119

Tgt Ion: 88 Resp: 191
 Ion Ratio Lower Upper
 88 100
 43 13.6 23.8 35.6#
 58 0.0 54.2 81.2#

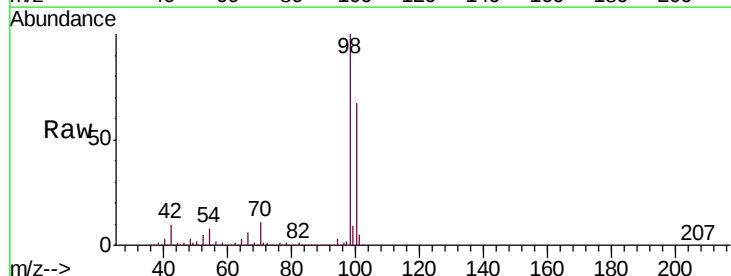


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

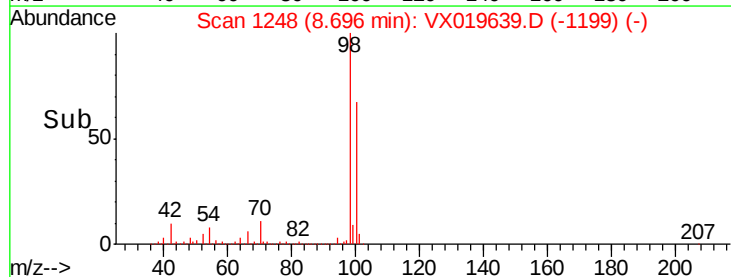
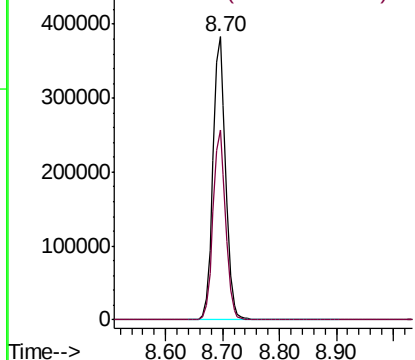


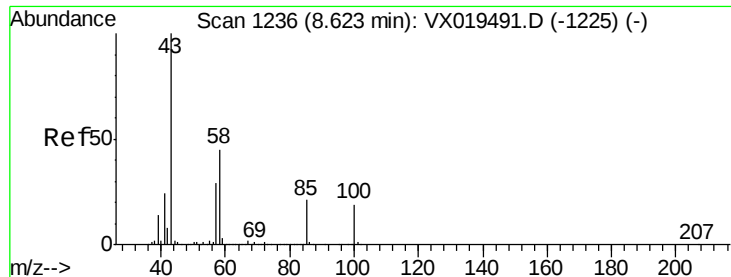
#50
 Toluene-d8
 Concen: 49.022 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VX019639.D
 Acq: 25 Nov 2020 05:05

Tgt Ion: 98 Resp: 596041
 Ion Ratio Lower Upper
 98 100
 100 67.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V

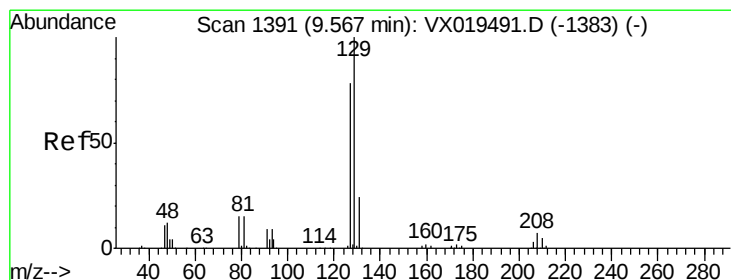
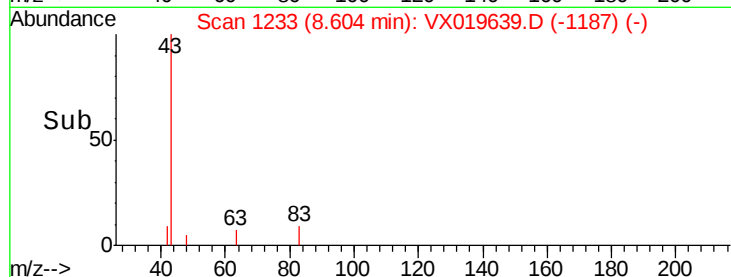
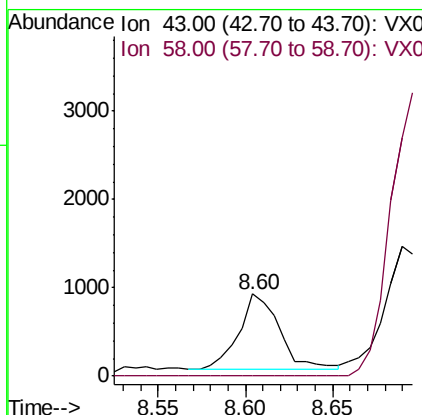
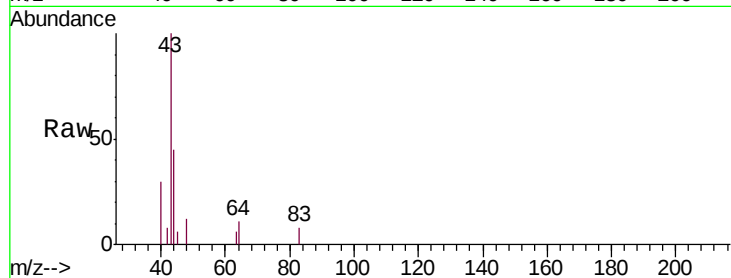




#51
4-Methyl-2-Pentanone
Concen: 0.318 ug/l
RT: 8.60 min Scan# 1233
Delta R.T. -0.02 min
Lab File: VX019639.D
Acq: 25 Nov 2020 05:05

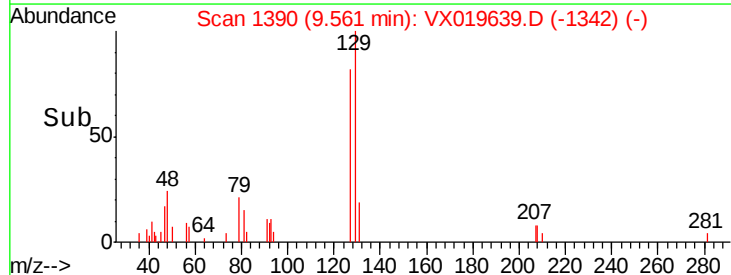
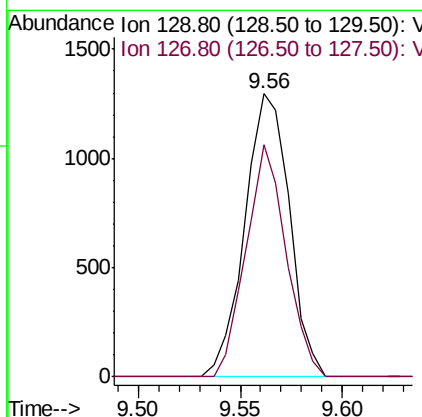
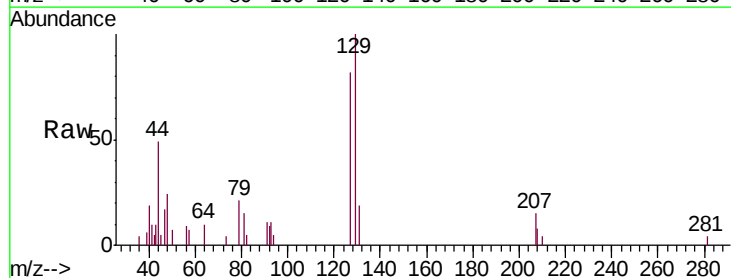
Instrument :
MSVOA_X
ClientSampleId :
MH-121.5T-20201119

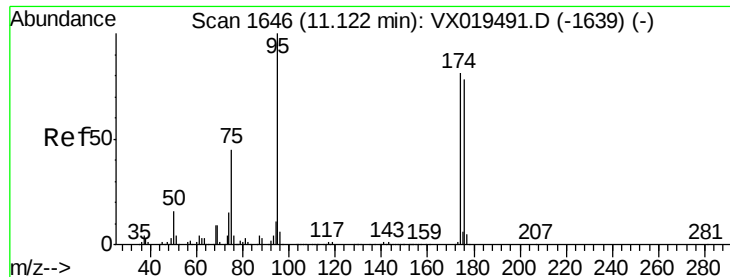
Tgt Ion: 43 Resp: 1366
Ion Ratio Lower Upper
43 100
58 0.0 35.1 52.7#



#60
Dibromochloromethane
Concen: 0.564 ug/l
RT: 9.56 min Scan# 1390
Delta R.T. -0.01 min
Lab File: VX019639.D
Acq: 25 Nov 2020 05:05

Tgt Ion: 129 Resp: 1976
Ion Ratio Lower Upper
129 100
127 73.4 39.0 116.9





#62

4-Bromofluorobenzene

Concen: 47.177 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

MH-121.5T-20201119

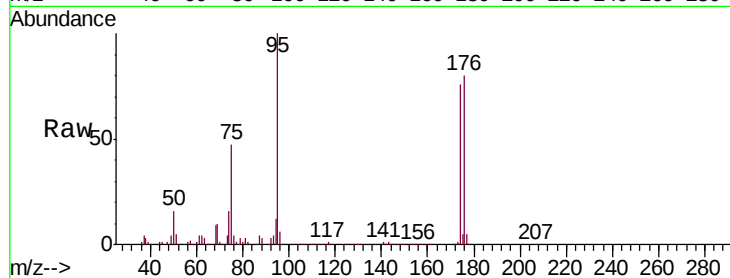
Tgt Ion: 95 Resp: 206377

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.2

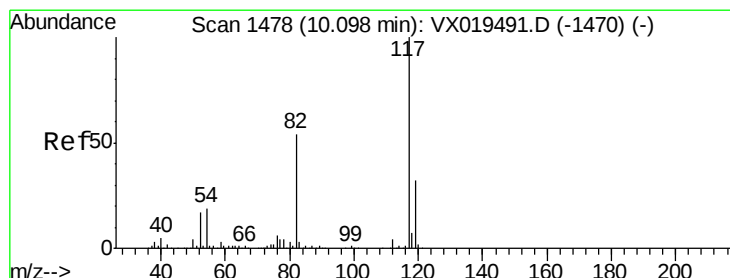
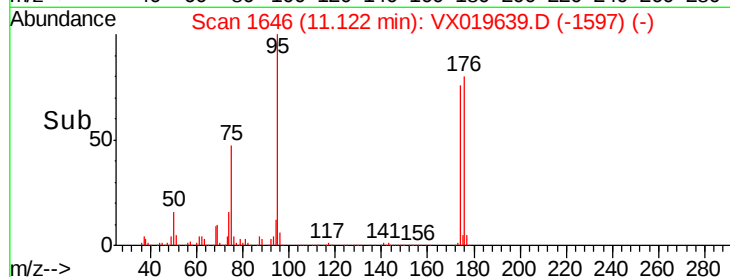
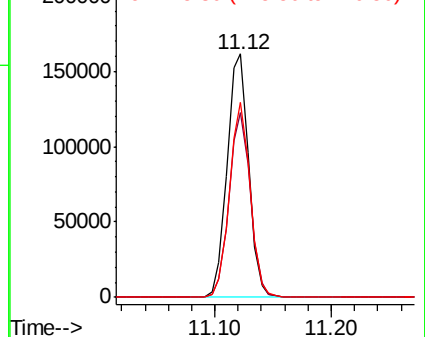
176 77.2 0.0 151.4



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: 10.09 min Scan# 1477

Delta R.T. -0.01 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

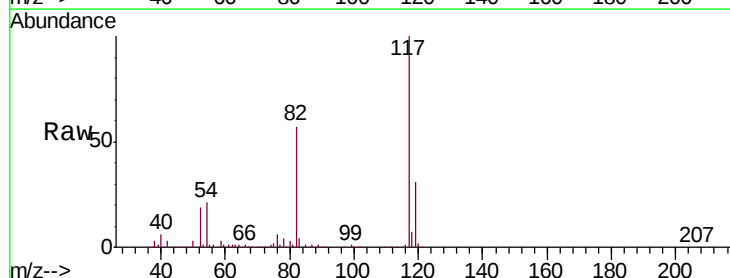
Tgt Ion: 117 Resp: 456101

Ion Ratio Lower Upper

117 100

82 57.0 43.0 64.4

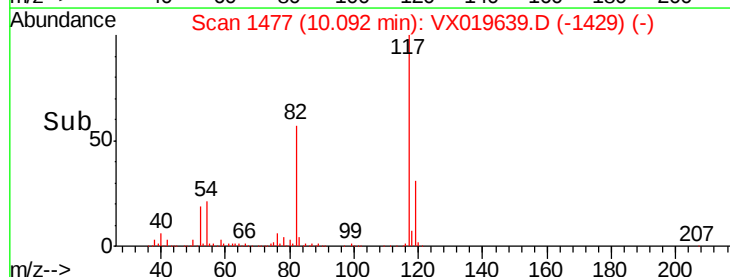
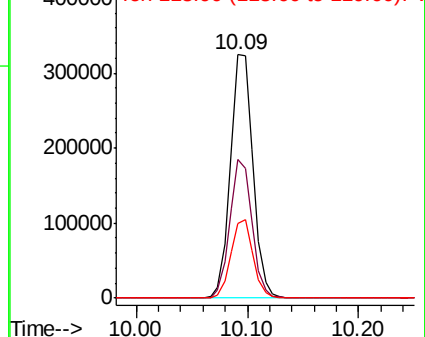
119 30.7 25.6 38.4

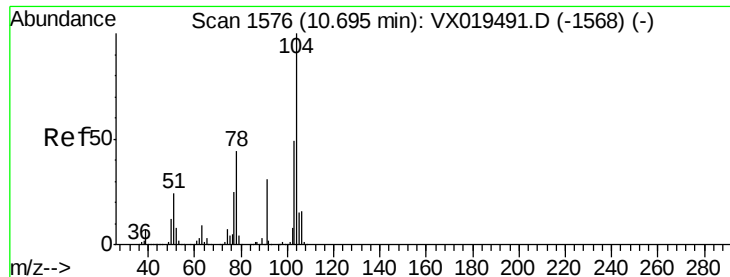


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

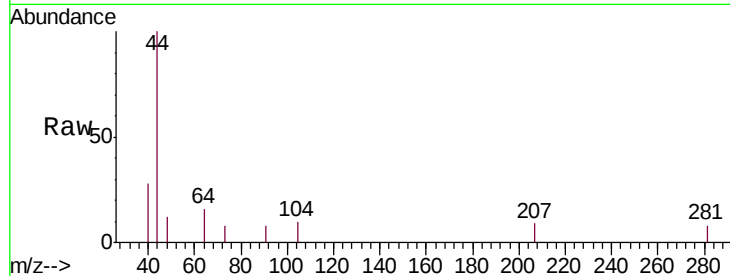




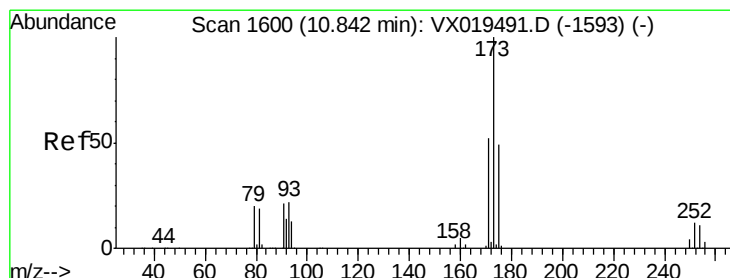
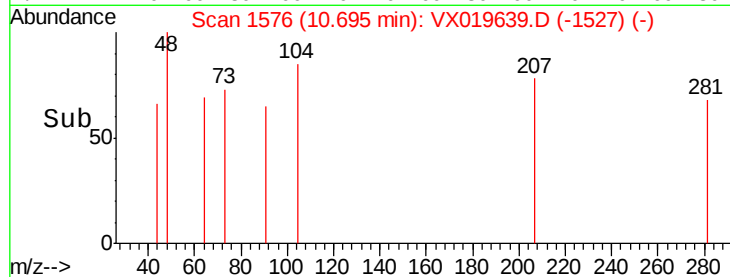
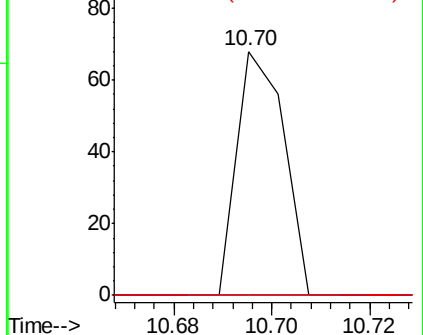
#70
Styrene
Concen: 1.650 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019639.D
Acq: 25 Nov 2020 05:05

Instrument :
MSVOA_X
ClientSampleId :
MH-121.5T-20201119

Tgt Ion:104 Resp: 45
Ion Ratio Lower Upper
104 100
78 0.0 39.5 59.3#
103 0.0 43.6 65.4#

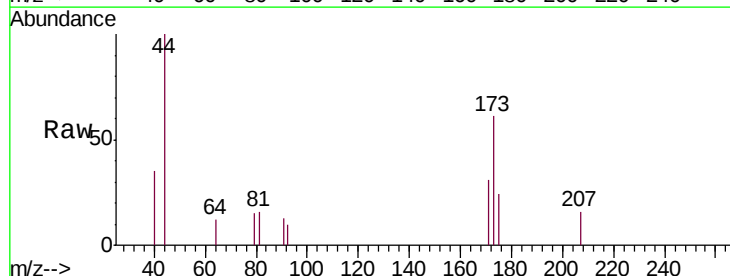


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V

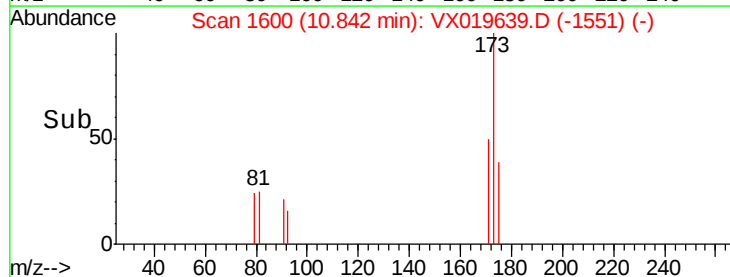
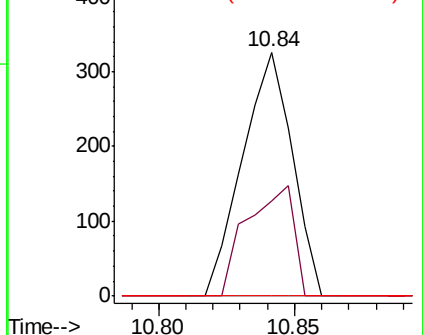


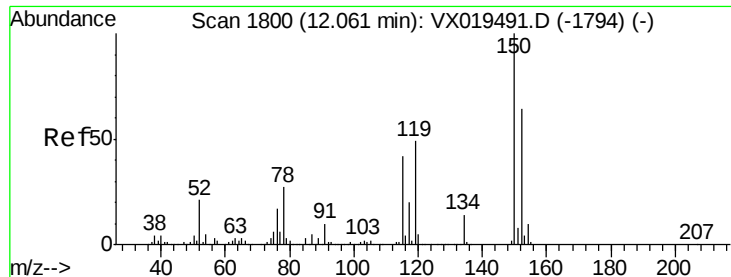
#71
Bromoform
Concen: 3.735 ug/l
RT: 10.84 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VX019639.D
Acq: 25 Nov 2020 05:05

Tgt Ion:173 Resp: 413
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: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

MH-121.5T-20201119

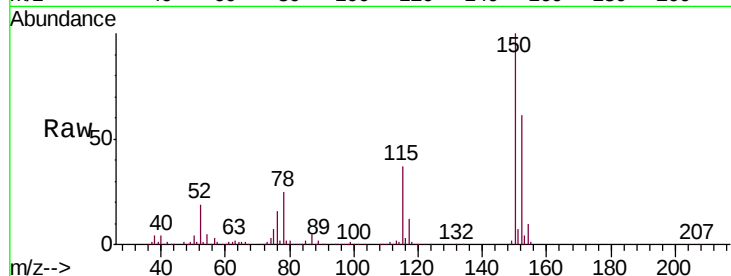
Tgt Ion:152 Resp: 182298

Ion Ratio Lower Upper

152 100

115 61.0 41.8 125.4

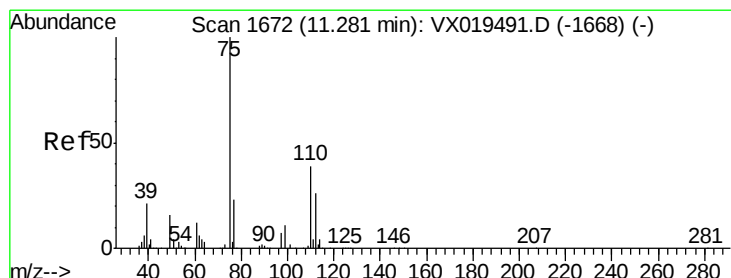
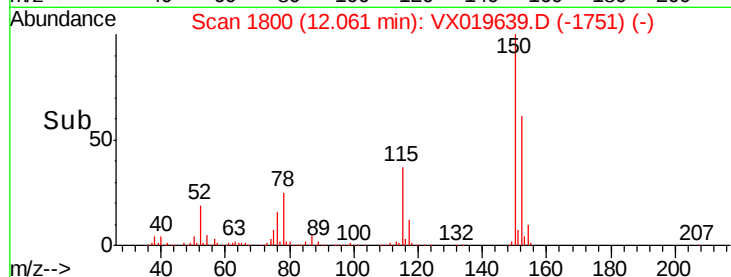
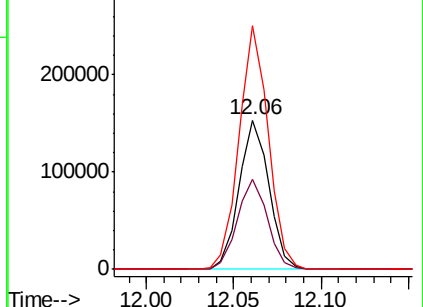
150 159.7 0.0 348.2



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: 25.533 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019639.D

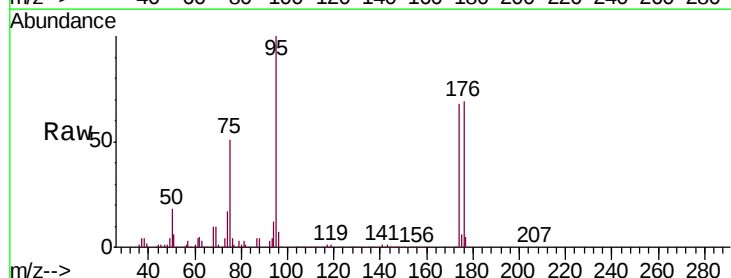
Acq: 25 Nov 2020 05:05

Tgt Ion: 75 Resp: 101580

Ion Ratio Lower Upper

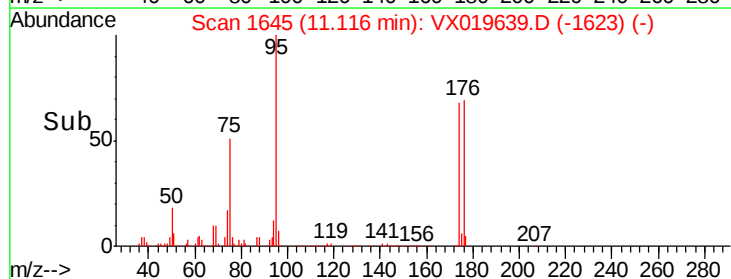
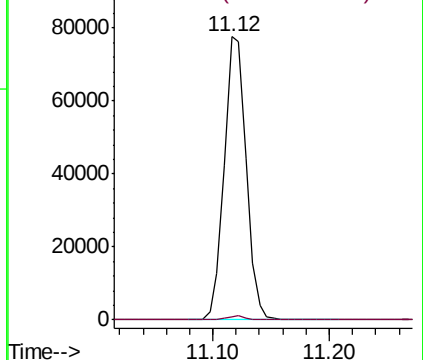
75 100

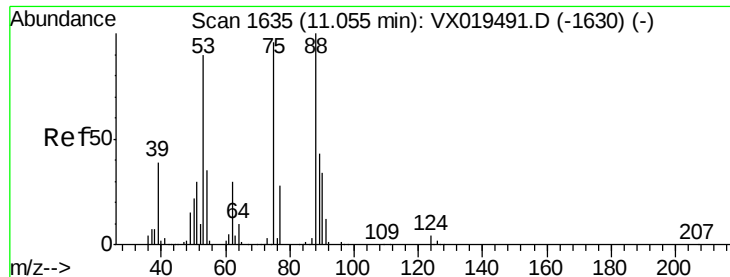
77 1.3 20.0 60.0#



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: 67.358 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

MH-121.5T-20201119

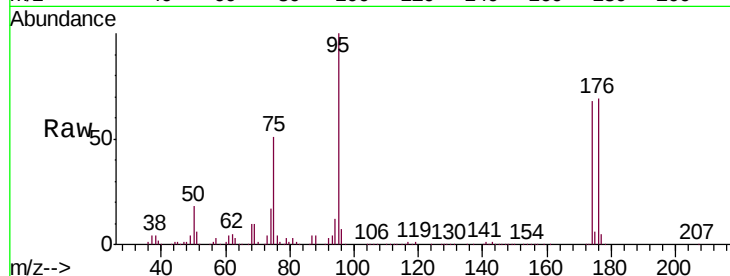
Tgt Ion: 75 Resp: 101580

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

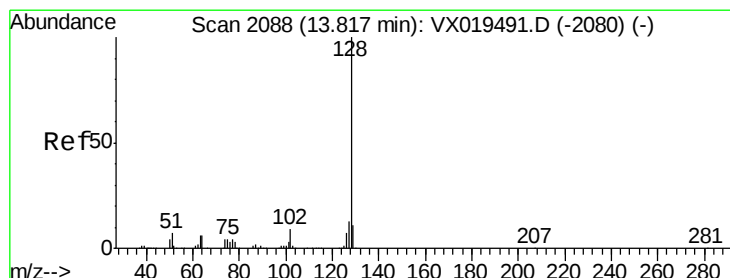
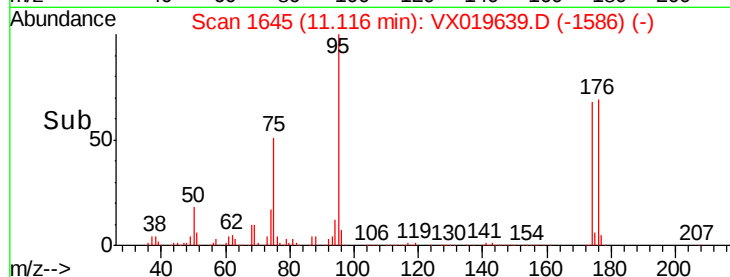
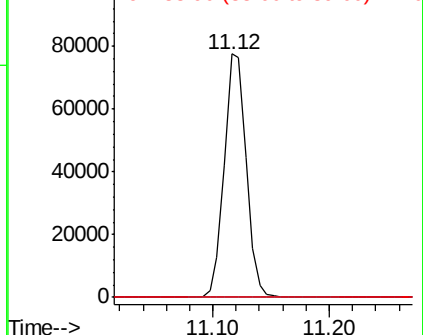
89 0.0 37.3 55.9#



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: 2.200 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019639.D

Acq: 25 Nov 2020 05:05

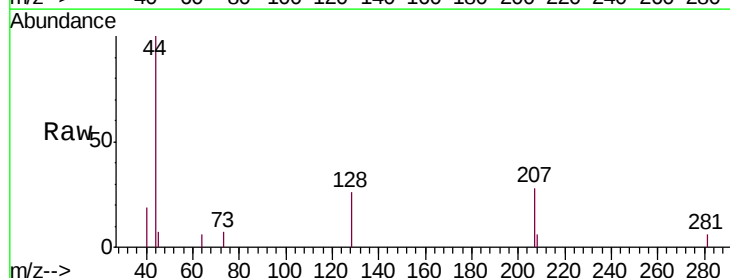
Tgt Ion:128 Resp: 310

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

