

Data File : VX019642.D
Acq On : 25 Nov 2020 06:14
Operator : JC/MD
Sample : L4835-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 52 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MH-388.9-20201119

Quant Time: Nov 25 07:00:04 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	310386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	514221	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	467277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	189321	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	194788	48.40	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.80%		
35) Dibromofluoromethane	5.46	113	153949	47.70	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.40%		
50) Toluene-d8	8.70	98	616628	49.16	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.32%		
62) 4-Bromofluorobenzene	11.12	95	212360	47.06	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	94.12%		

Target Compounds

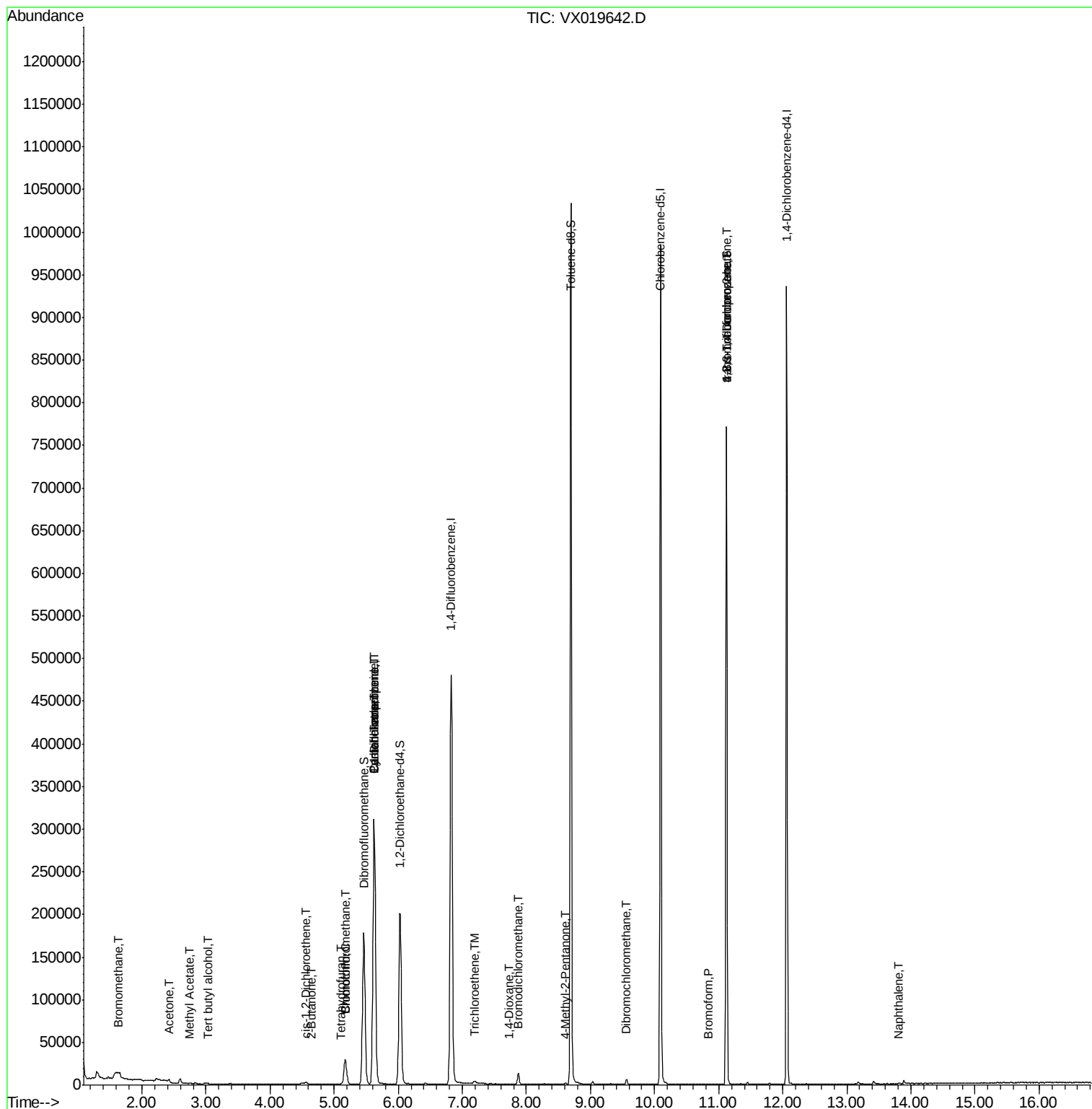
					Qvalue	
5) Bromomethane	1.62	94	420	0.297	ug/l #	71
6) Chloroethane	1.70	64	171	Below Cal	#	41
11) Tert butyl alcohol	3.04	59	428	0.562	ug/l #	73
16) Acetone	2.42	43	4304	2.766	ug/l #	86
18) Methyl Acetate	2.75	43	324	0.718	ug/l #	72
25) 2-Butanone	4.64	43	692	0.296	ug/l #	45
27) cis-1,2-Dichloroethene	4.56	96	1056	0.263	ug/l	86
28) Bromochloromethane	5.18	49	2828	0.968	ug/l #	8
29) Tetrahydrofuran	5.10	42	338	0.227	ug/l #	31
30) Chloroform	5.17	83	36156	5.661	ug/l	99
31) Cyclohexane	5.62	56	5974	1.141	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23396	4.853	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30318	6.497	ug/l #	16
44) Trichloroethene	7.19	130	964	0.248	ug/l	97
47) Bromodichloromethane	7.87	83	8052	1.663	ug/l	99
49) 1,4-Dioxane	7.73	88	103	1.273	ug/l #	54
51) 4-Methyl-2-Pentanone	8.60	43	1185	0.267	ug/l #	32
60) Dibromochloromethane	9.57	129	2391	0.661	ug/l	97
71) Bromoform	10.84	173	237	3.677	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	104572	25.310	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	104572	66.806	ug/l #	12
95) Naphthalene	13.82	128	260	2.196	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: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

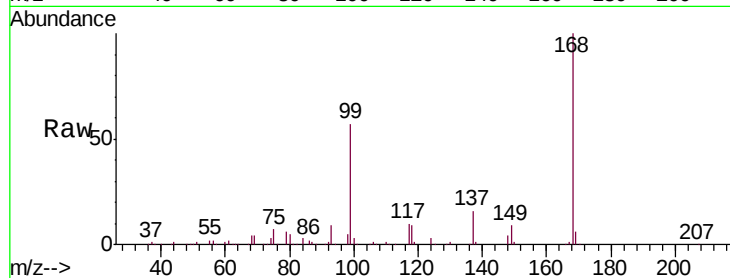
MH-388.9-20201119

Tgt Ion:168 Resp: 310386

Ion Ratio Lower Upper

168 100

99 57.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VX019491.D

Ion 98.90 (98.60 to 99.60): VX019491.D

5.63

120000

100000

80000

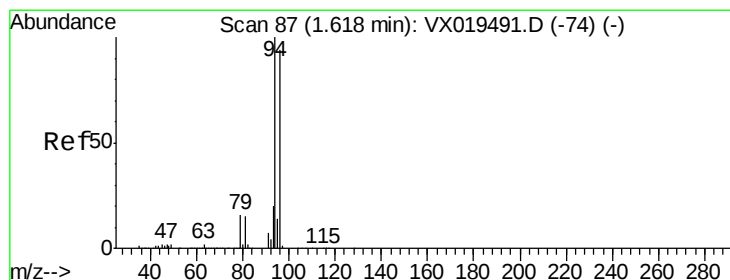
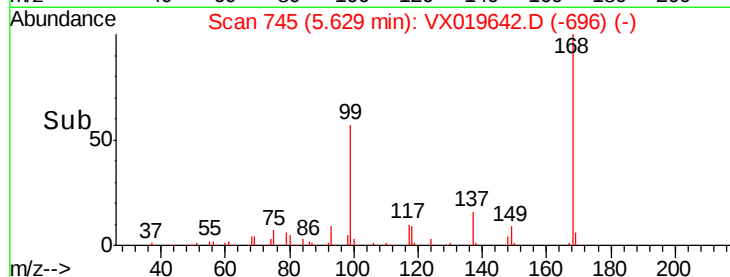
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.297 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019642.D

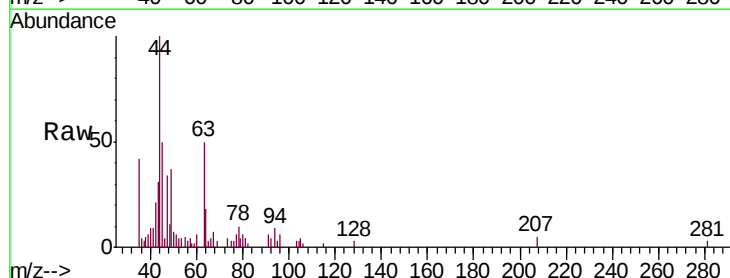
Acq: 25 Nov 2020 06:14

Tgt Ion: 94 Resp: 420

Ion Ratio Lower Upper

94 100

96 66.2 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX019491.D

Ion 95.90 (95.60 to 96.60): VX019491.D

1.62

250

200

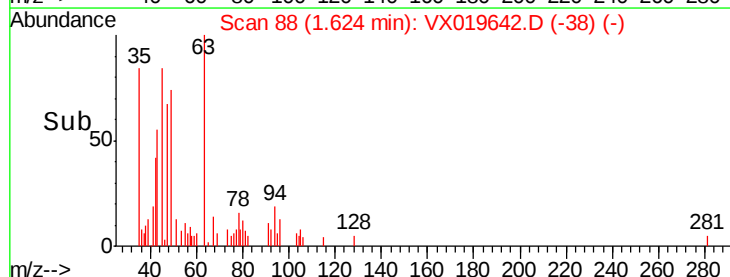
150

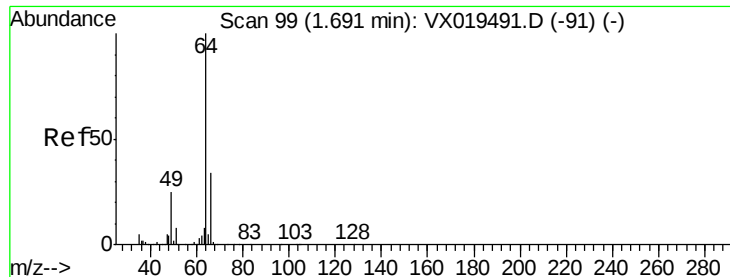
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. 0.01 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

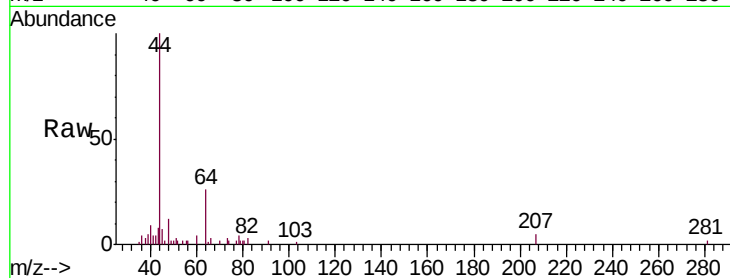
MH-388.9-20201119

Tgt Ion: 64 Resp: 171

Ion Ratio Lower Upper

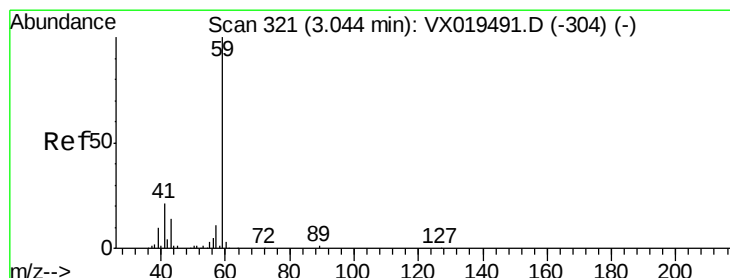
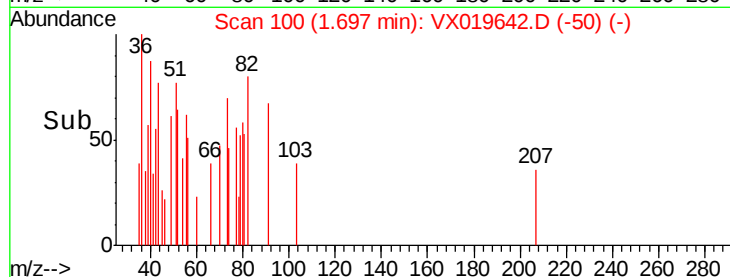
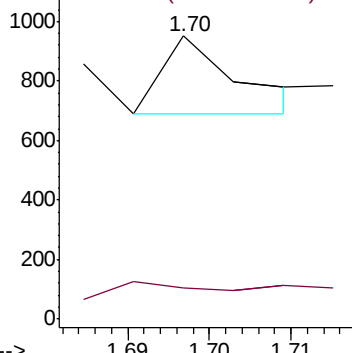
64 100

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: 0.562 ug/l

RT: 3.04 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX019642.D

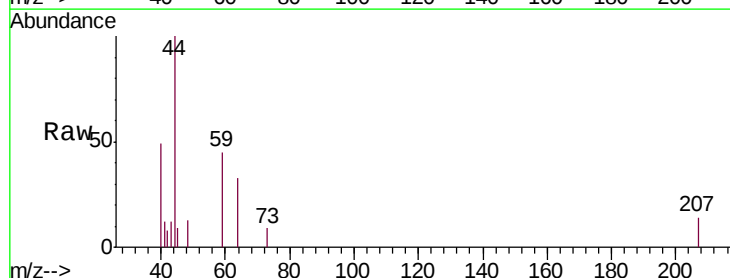
Acq: 25 Nov 2020 06:14

Tgt Ion: 59 Resp: 428

Ion Ratio Lower Upper

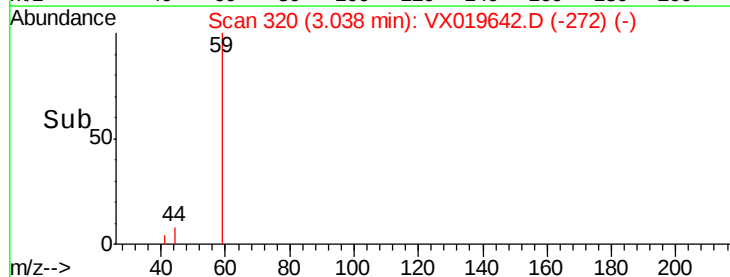
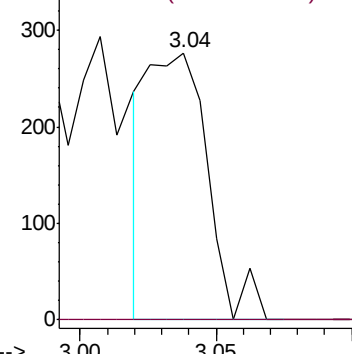
59 100

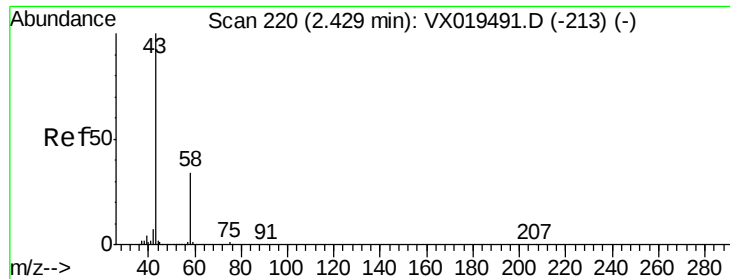
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 2.766 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

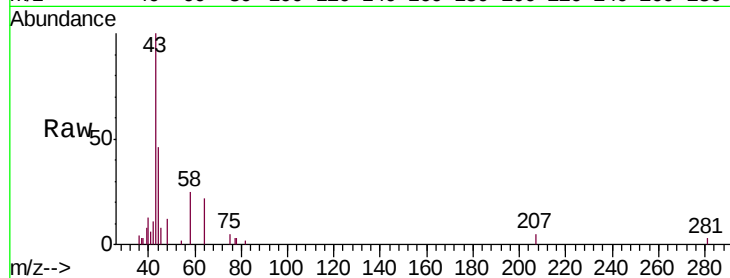
MH-388.9-20201119

Tgt Ion: 43 Resp: 4304

Ion Ratio Lower Upper

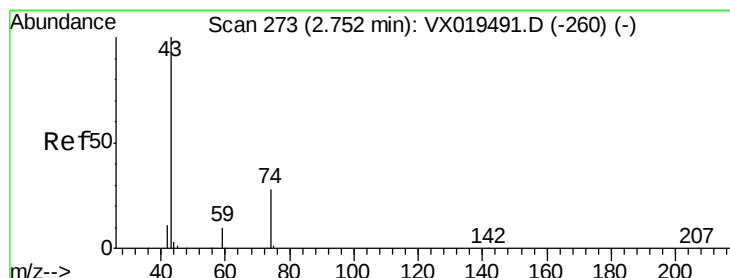
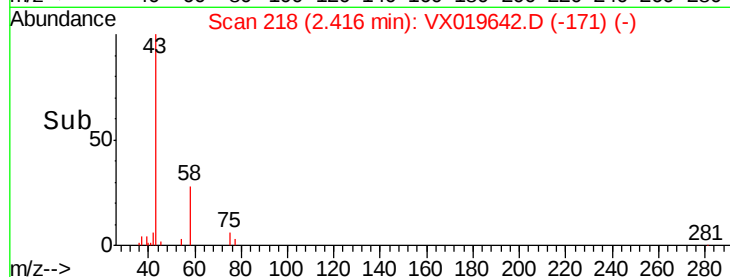
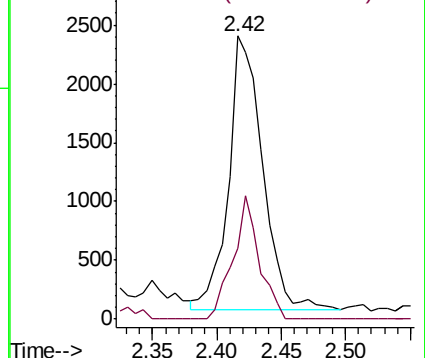
43 100

58 26.1 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: 0.718 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019642.D

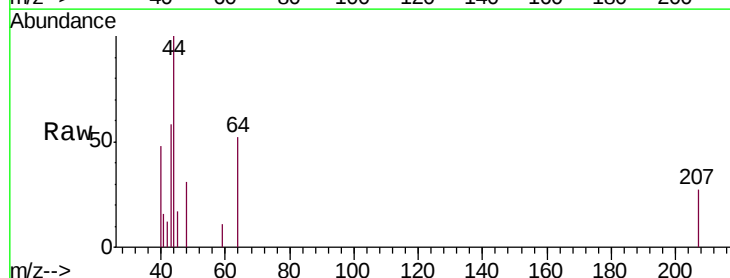
Acq: 25 Nov 2020 06:14

Tgt Ion: 43 Resp: 324

Ion Ratio Lower Upper

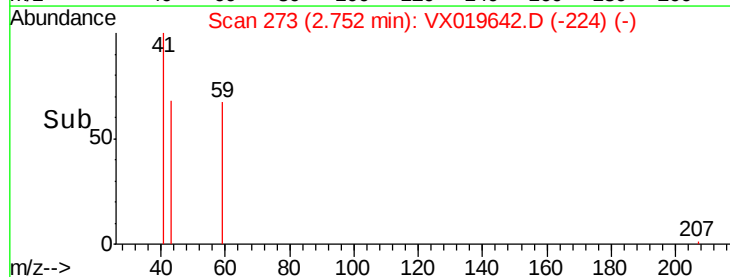
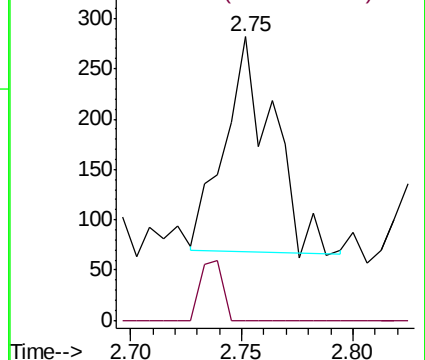
43 100

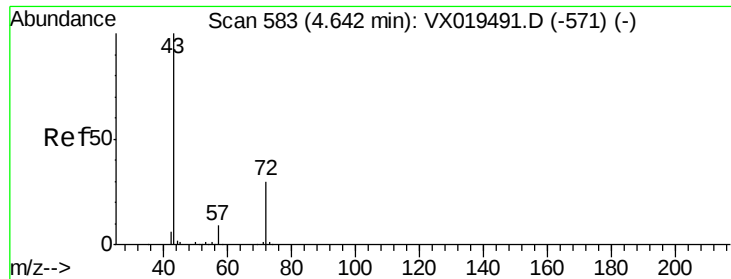
74 13.0 22.2 33.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 0.296 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

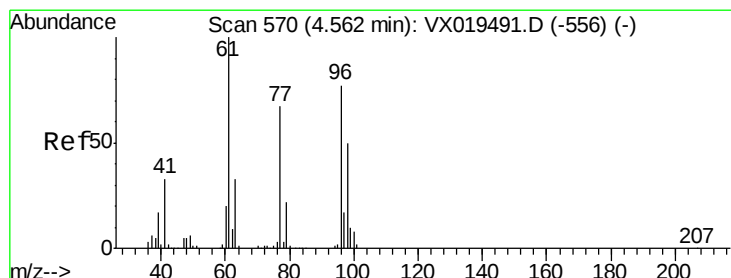
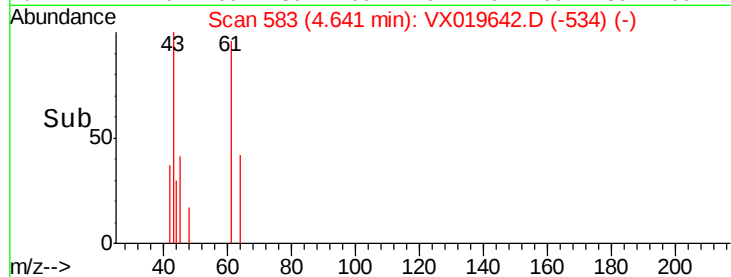
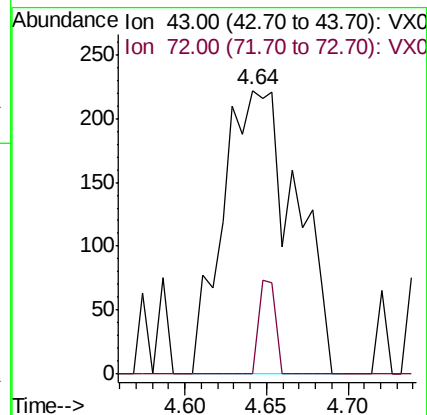
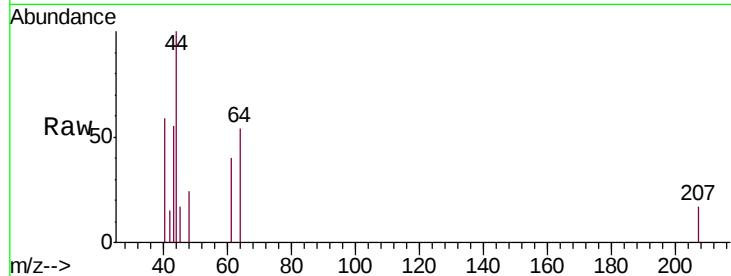
MH-388.9-20201119

Tgt Ion: 43 Resp: 692

Ion Ratio Lower Upper

43 100

72 0.0 24.0 36.0#



#27

cis-1,2-Dichloroethene

Concen: 0.263 ug/l

RT: 4.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

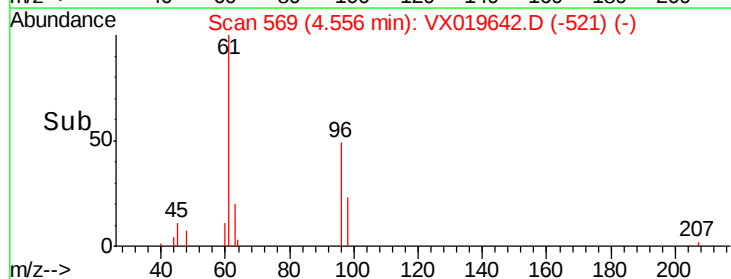
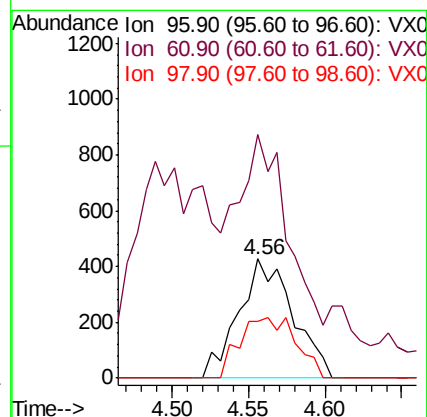
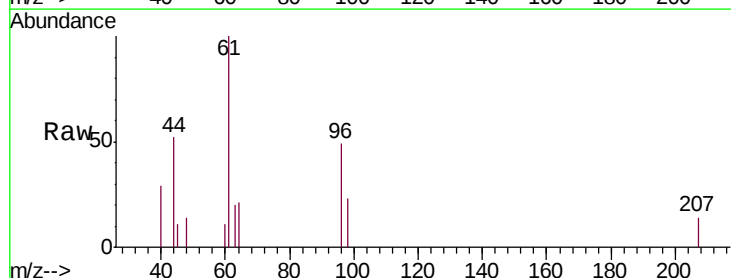
Tgt Ion: 96 Resp: 1056

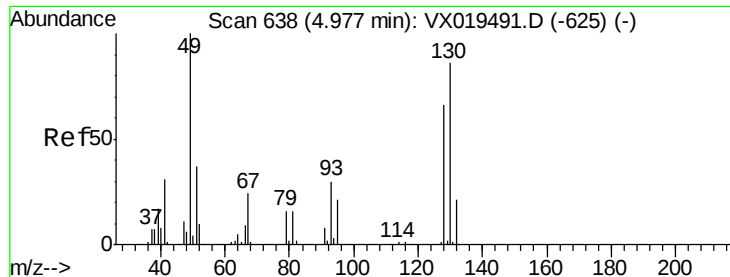
Ion Ratio Lower Upper

96 100

61 155.4 0.0 279.2

98 52.8 0.0 129.8





#28

Bromochloromethane

Concen: 0.968 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.20 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

MH-388.9-20201119

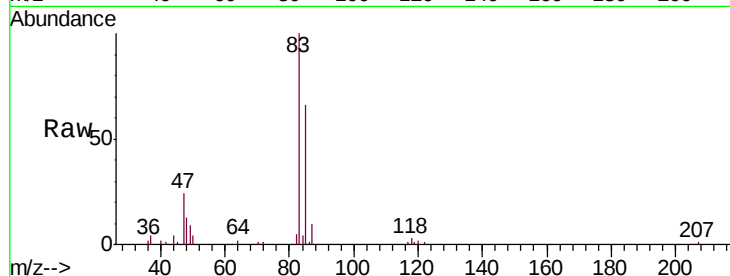
Tgt Ion: 49 Resp: 2828

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

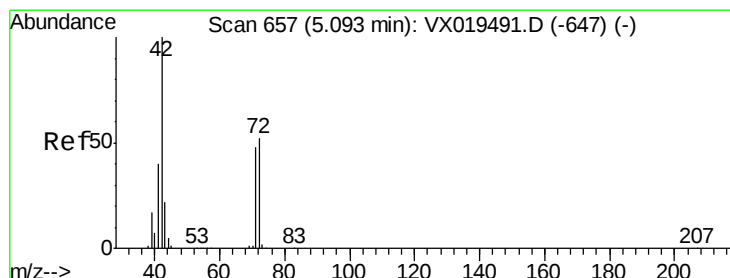
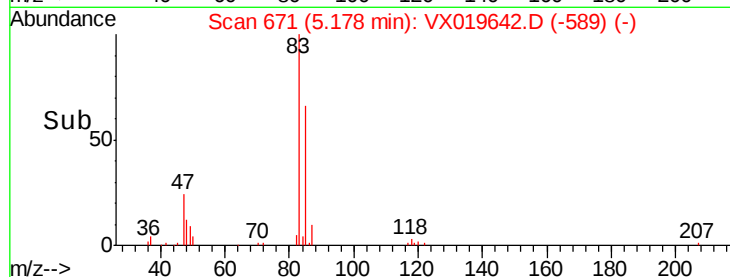
5.18

1000

500

0

Time--> 5.05 5.10 5.15 5.20 5.25



#29

Tetrahydrofuran

Concen: 0.227 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

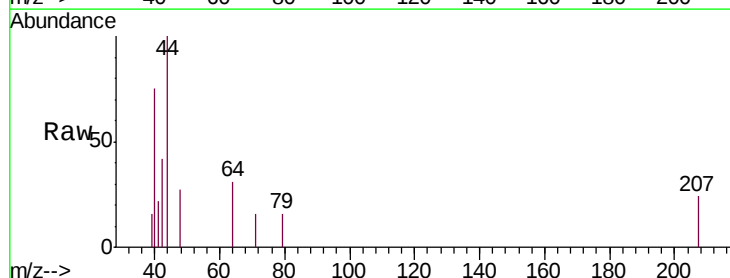
Tgt Ion: 42 Resp: 338

Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

71 6.5 39.0 58.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.10

200

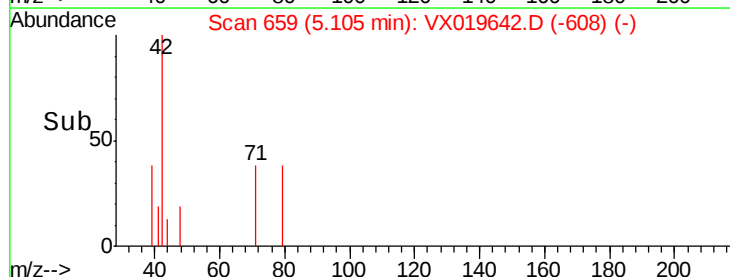
150

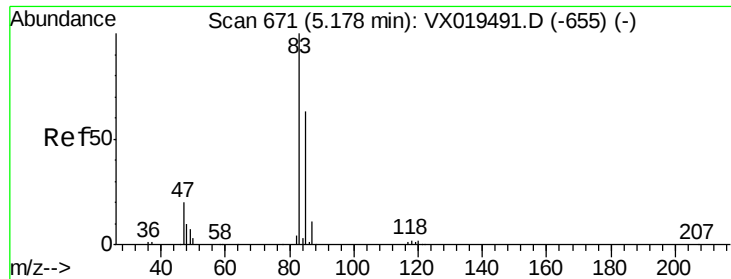
100

50

0

Time--> 5.05 5.10

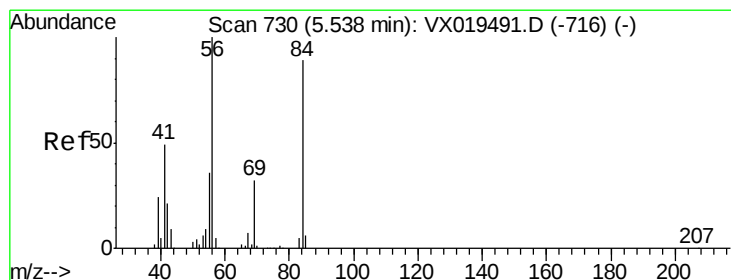
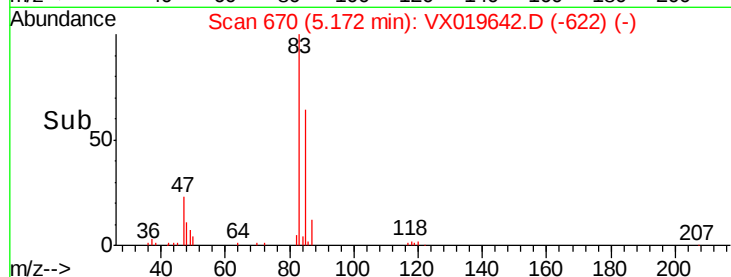
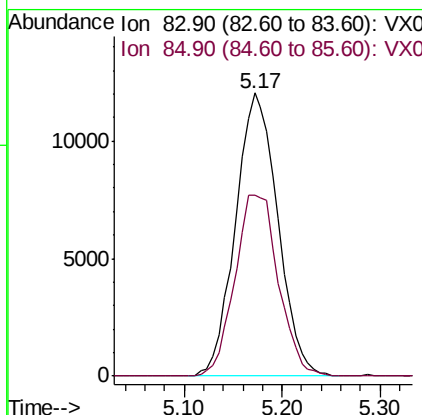
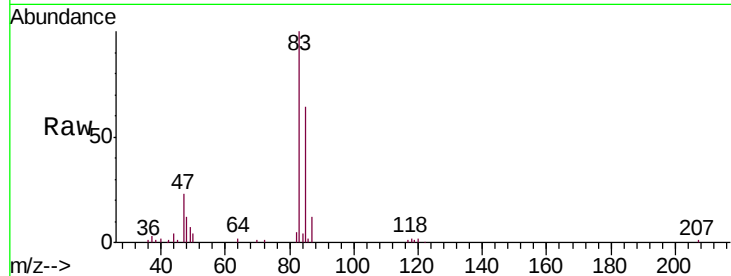




#30
Chloroform
Concen: 5.661 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX019642.D
Acq: 25 Nov 2020 06:14

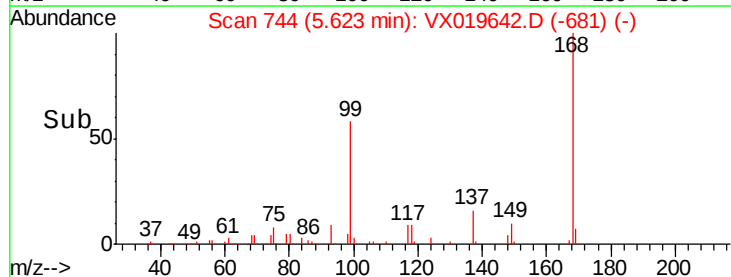
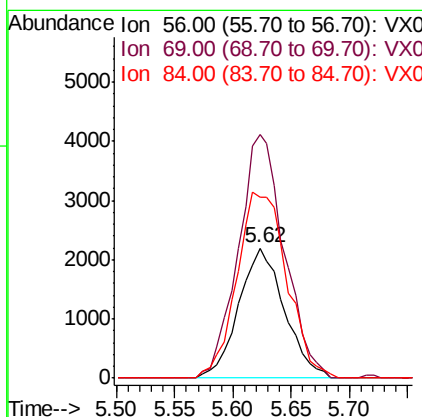
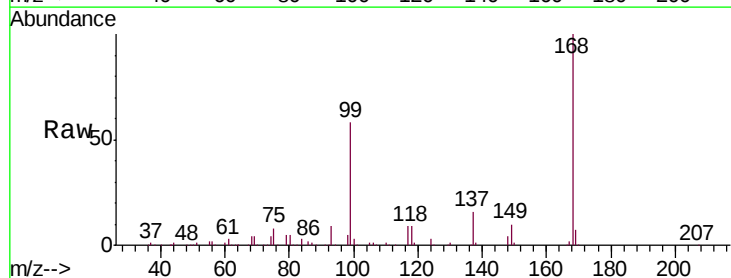
Instrument :
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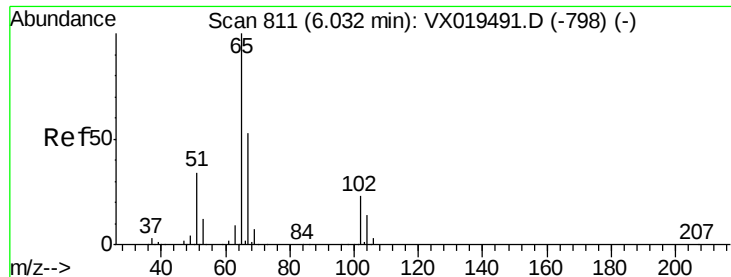
Tgt Ion: 83 Resp: 36156
Ion Ratio Lower Upper
83 100
85 64.1 50.5 75.7



#31
Cyclohexane
Concen: 1.141 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019642.D
Acq: 25 Nov 2020 06:14

Tgt Ion: 56 Resp: 5974
Ion Ratio Lower Upper
56 100
69 187.5 25.5 38.3#
84 138.9 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 48.402 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

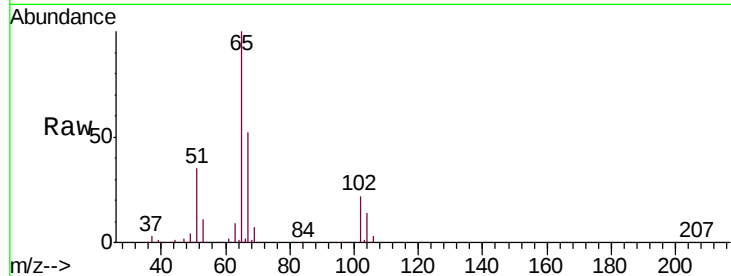
MH-388.9-20201119

Tgt Ion: 65 Resp: 194788

Ion Ratio Lower Upper

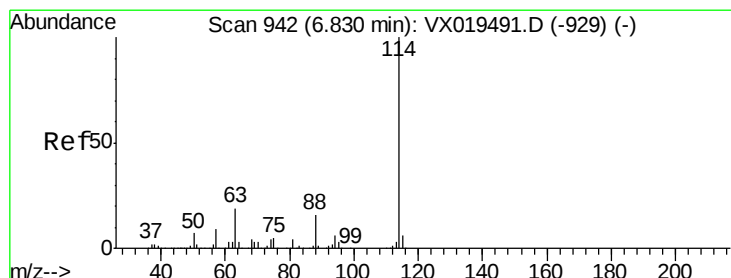
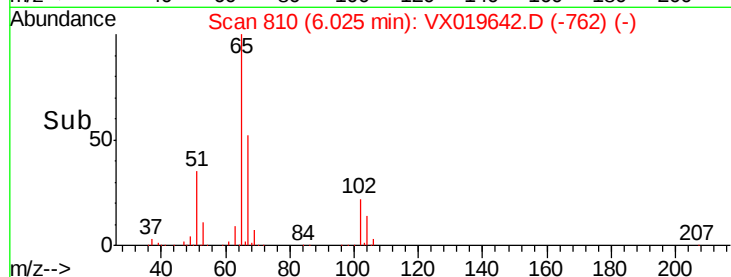
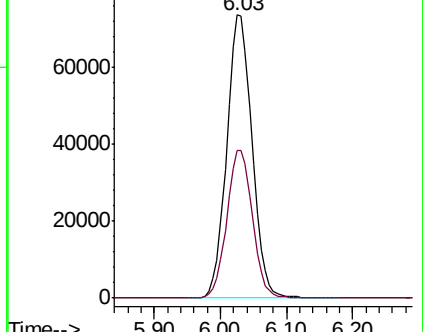
65 100

67 52.8 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: VX019642.D

Acq: 25 Nov 2020 06:14

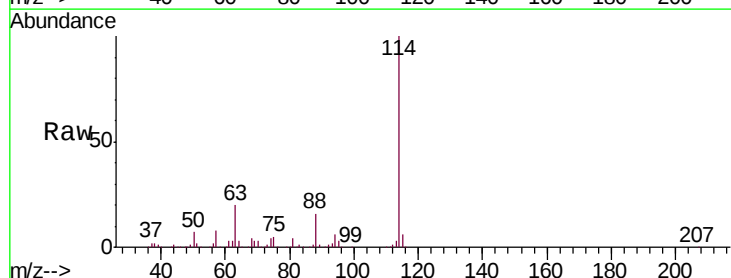
Tgt Ion: 114 Resp: 514221

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.8

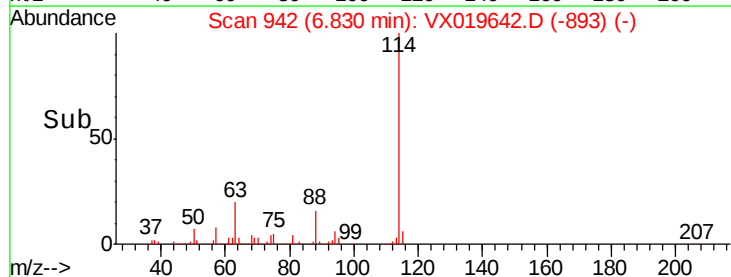
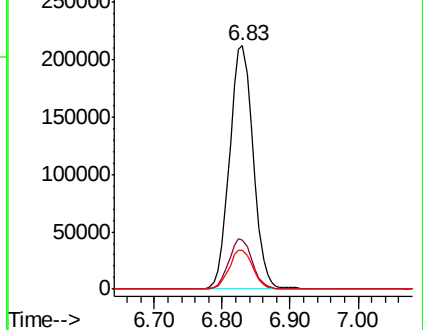
88 16.1 0.0 31.6

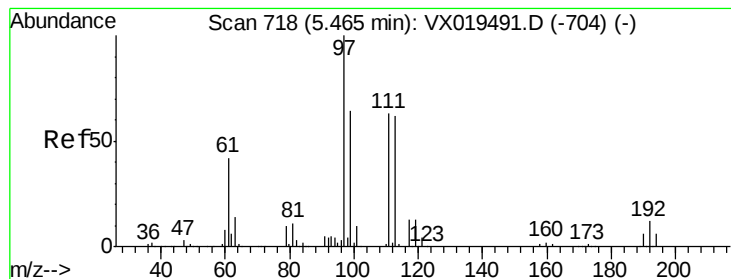


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.695 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

MH-388.9-20201119

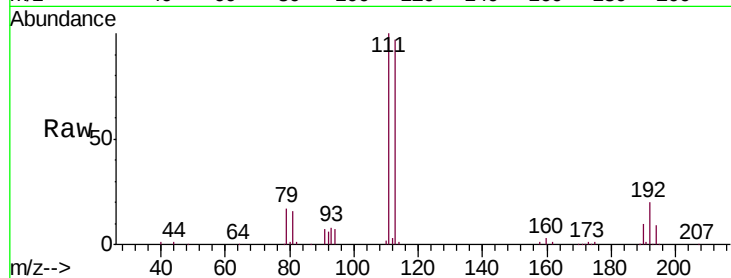
Tgt Ion:113 Resp: 153949

Ion Ratio Lower Upper

113 100

111 102.4 81.5 122.3

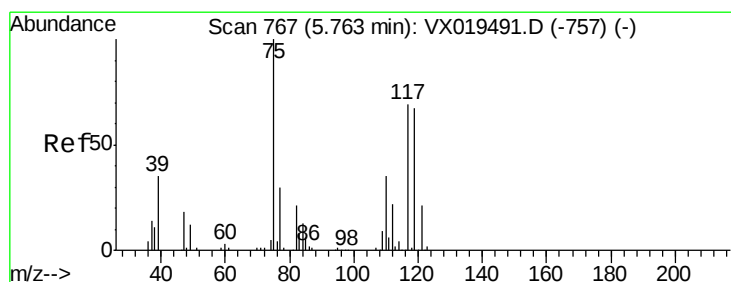
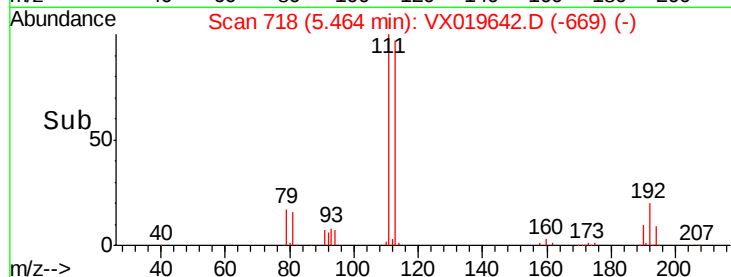
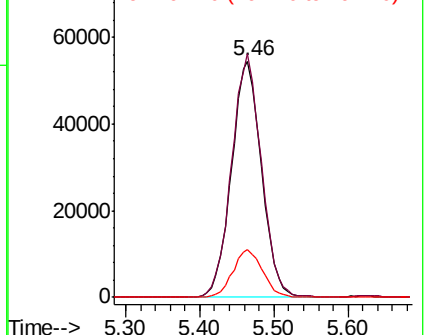
192 20.2 16.2 24.2



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: 4.853 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

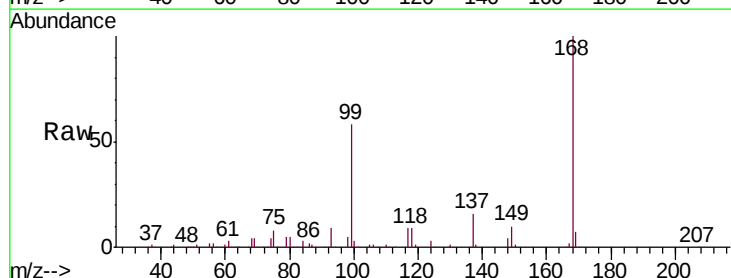
Tgt Ion: 75 Resp: 23396

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.3#

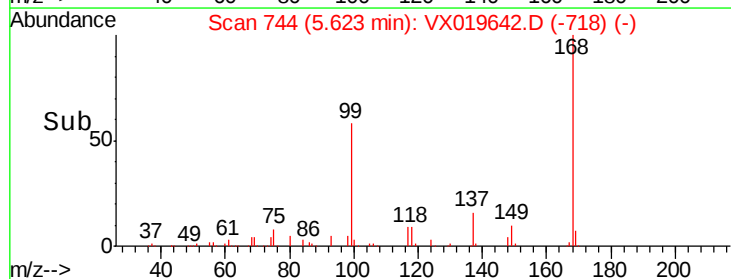
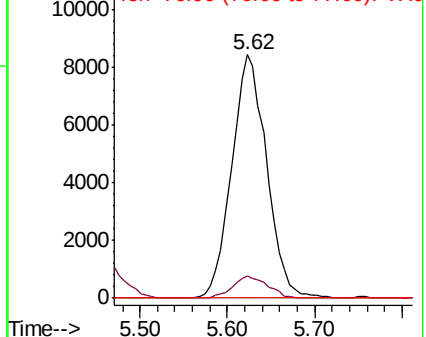
77 0.0 24.2 36.4#

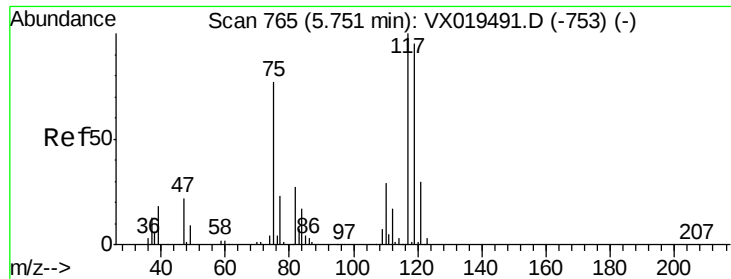


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.497 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

MH-388.9-20201119

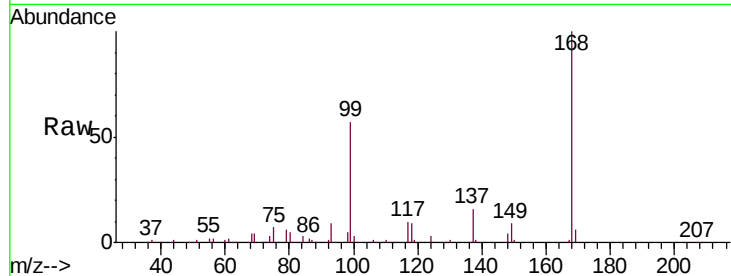
Tgt Ion:117 Resp: 30318

Ion Ratio Lower Upper

117 100

119 5.1 75.9 113.9#

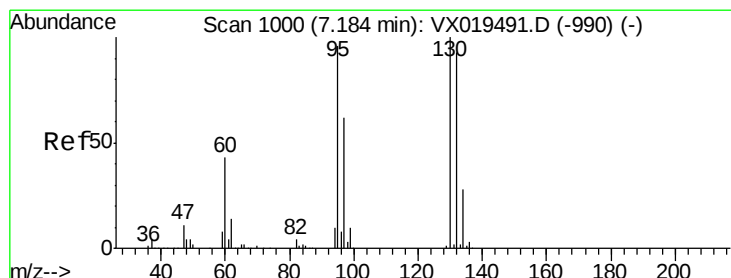
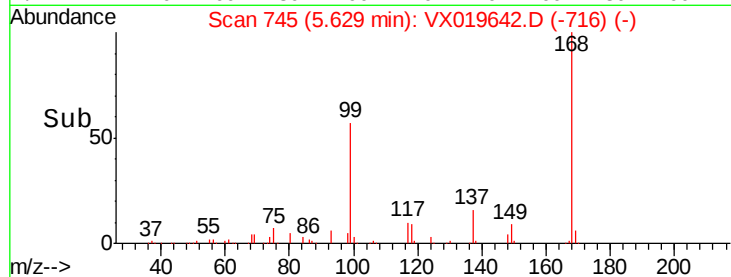
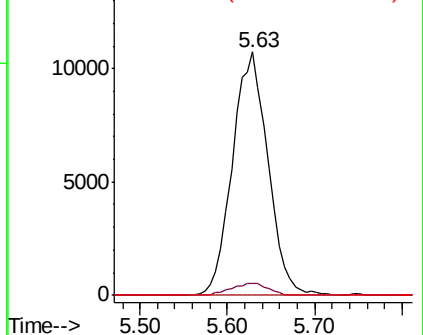
121 0.0 24.0 36.0#



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: 0.248 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019642.D

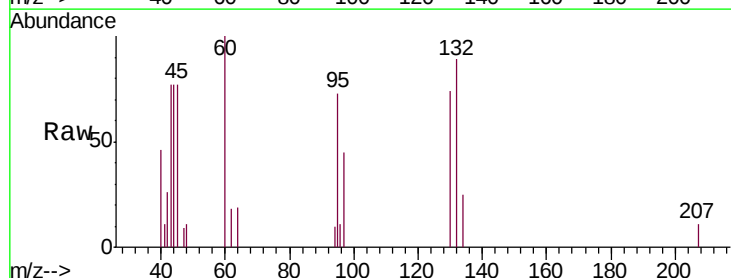
Acq: 25 Nov 2020 06:14

Tgt Ion:130 Resp: 964

Ion Ratio Lower Upper

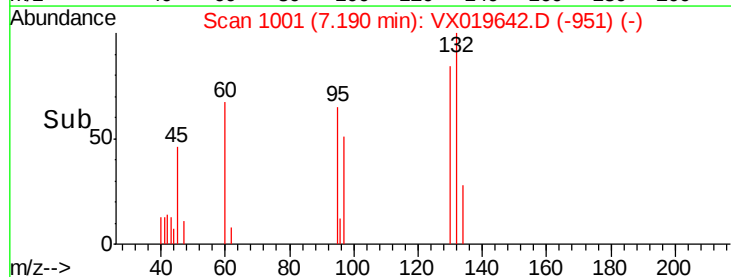
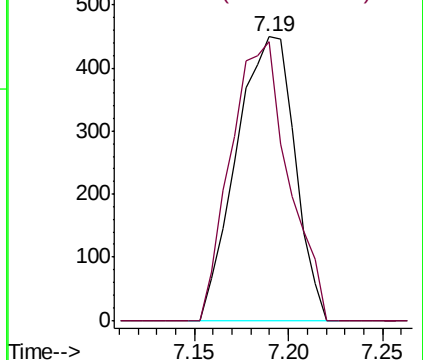
130 100

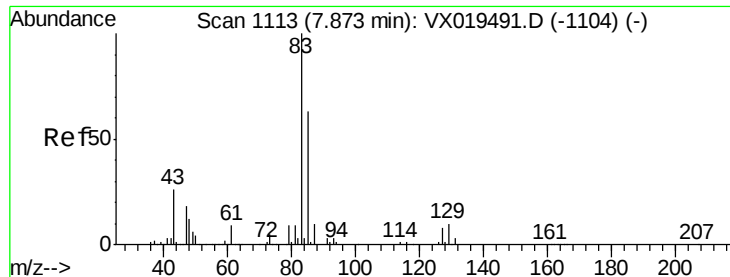
95 98.4 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 1.663 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

MH-388.9-20201119

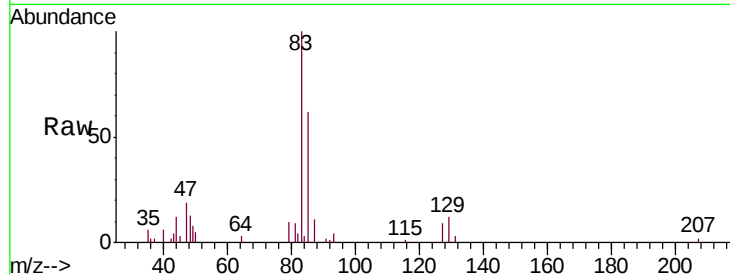
Tgt Ion: 83 Resp: 8052

Ion Ratio Lower Upper

83 100

85 61.6 50.2 75.2

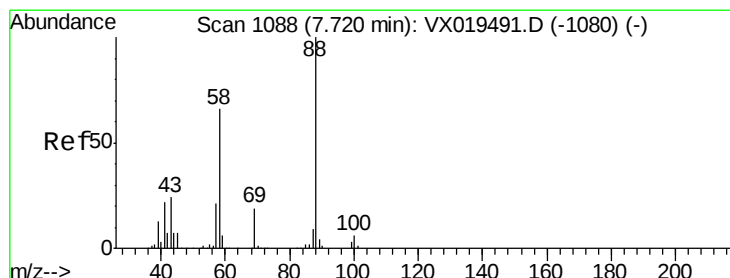
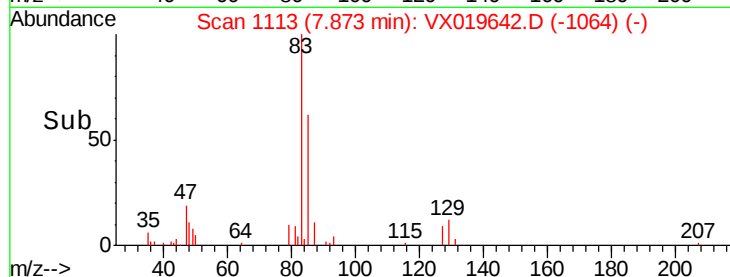
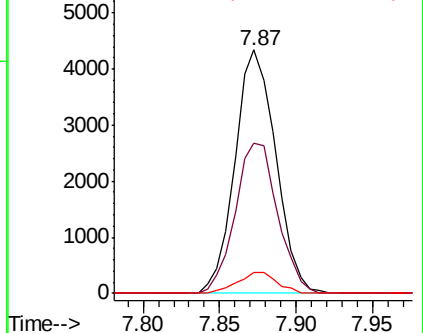
127 8.6 6.4 9.6



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



#49

1,4-Dioxane

Concen: 1.273 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

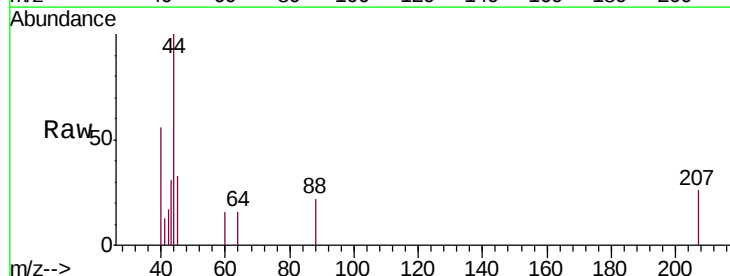
Tgt Ion: 88 Resp: 103

Ion Ratio Lower Upper

88 100

43 64.1 23.8 35.6#

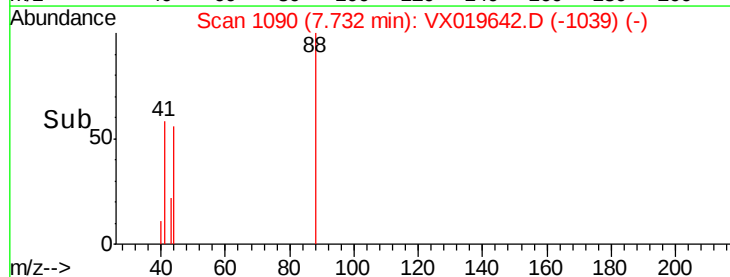
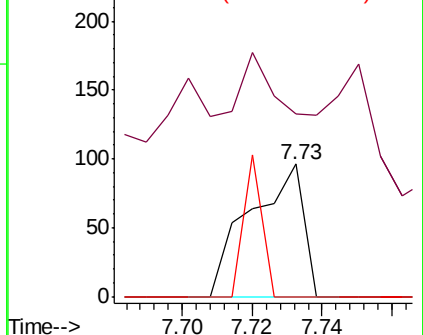
58 36.9 54.2 81.2#

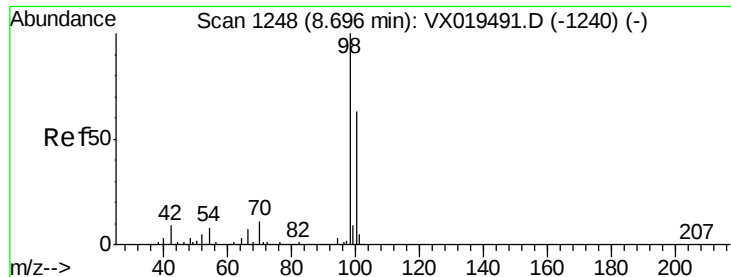


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.162 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

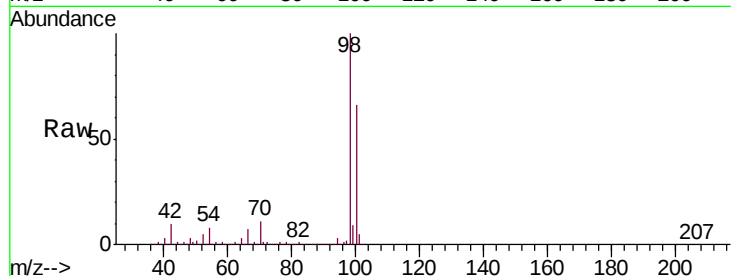
MH-388.9-20201119

Tgt Ion: 98 Resp: 616628

Ion Ratio Lower Upper

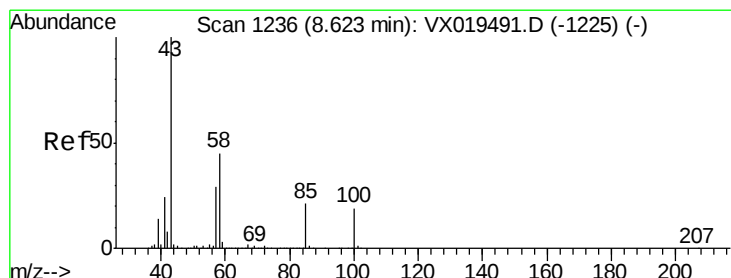
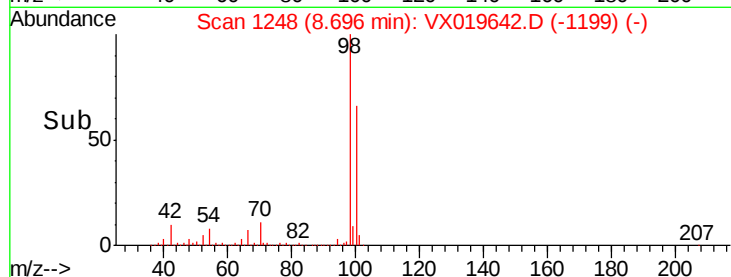
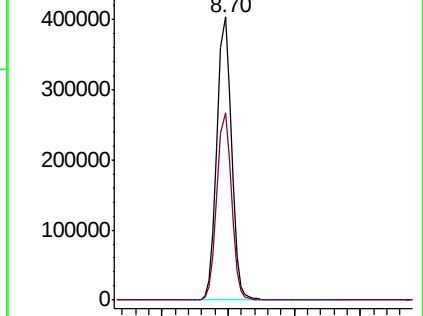
98 100

100 66.4 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.267 ug/l

RT: 8.60 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VX019642.D

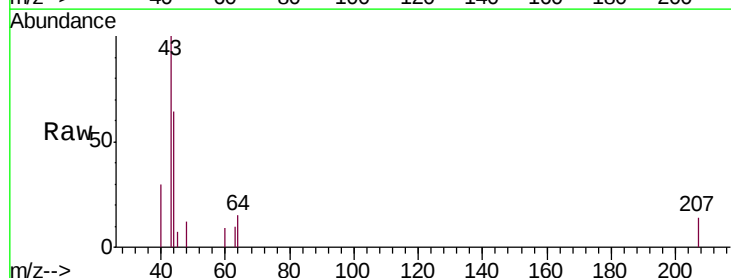
Acq: 25 Nov 2020 06:14

Tgt Ion: 43 Resp: 1185

Ion Ratio Lower Upper

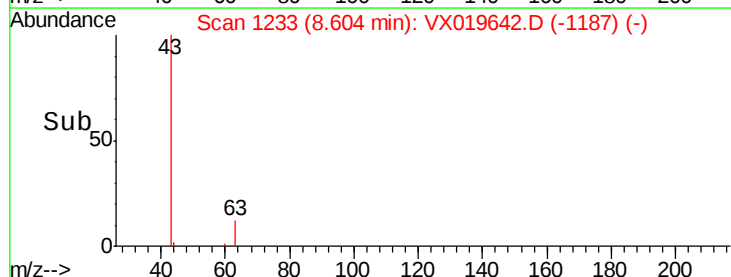
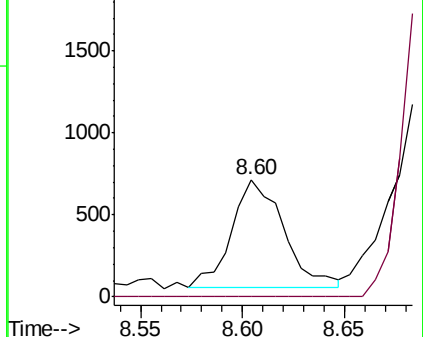
43 100

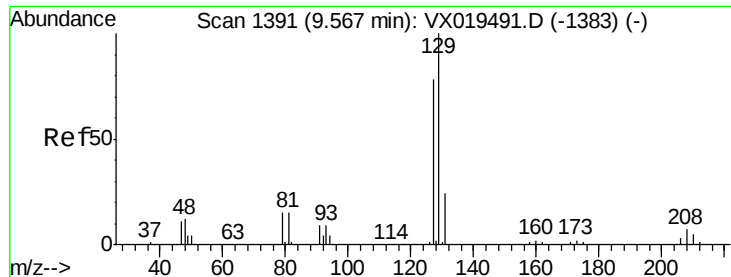
58 0.0 35.1 52.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

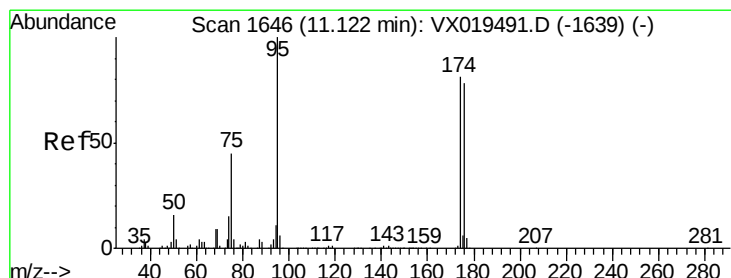
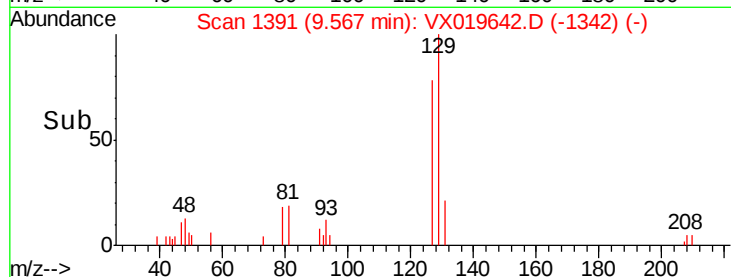
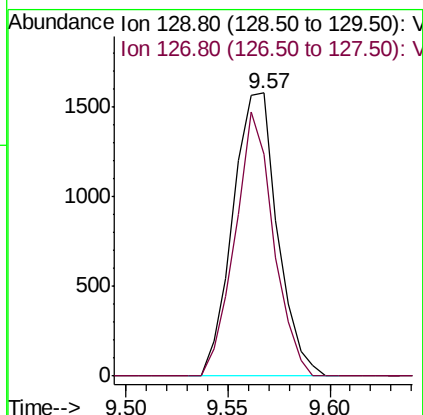
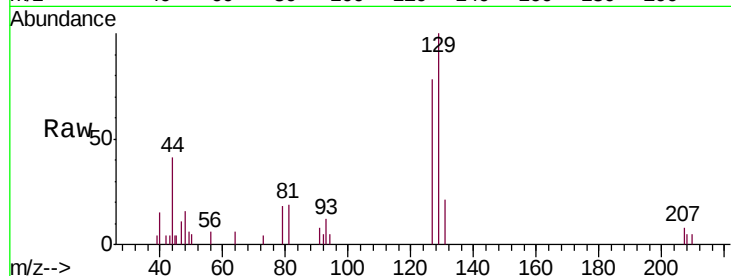




#60
 Dibromochloromethane
 Concen: 0.661 ug/l
 RT: 9.57 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VX019642.D
 Acq: 25 Nov 2020 06:14

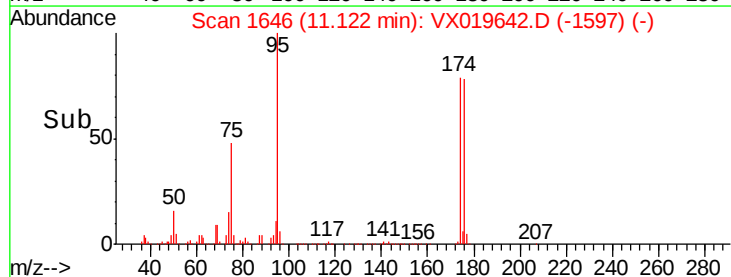
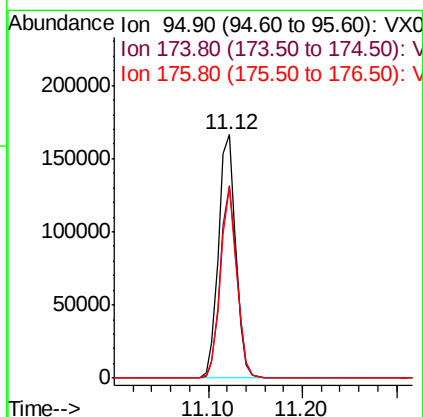
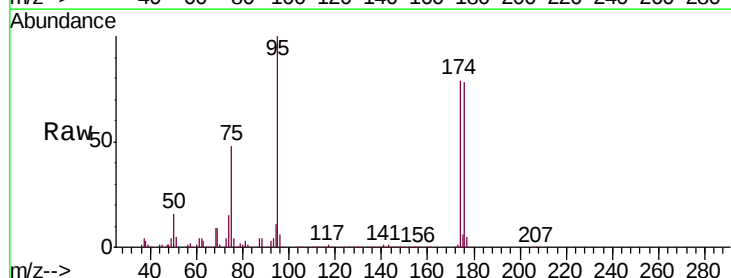
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-388.9-20201119

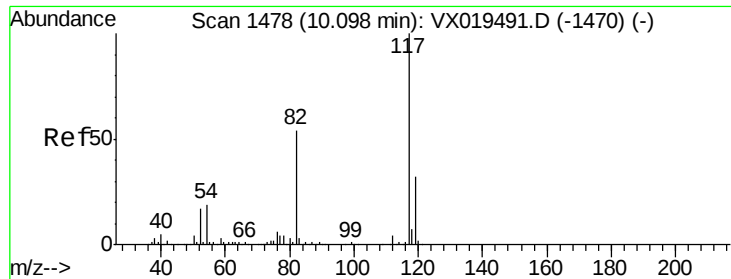
Tgt Ion: 129 Resp: 2391
 Ion Ratio Lower Upper
 129 100
 127 80.2 39.0 116.9



#62
 4-Bromofluorobenzene
 Concen: 47.058 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.00 min
 Lab File: VX019642.D
 Acq: 25 Nov 2020 06:14

Tgt Ion: 95 Resp: 212360
 Ion Ratio Lower Upper
 95 100
 174 76.3 0.0 156.2
 176 73.8 0.0 151.4

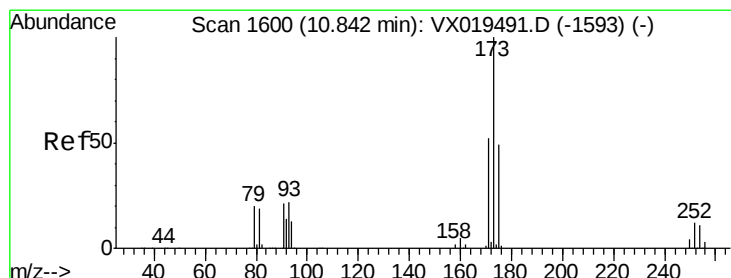
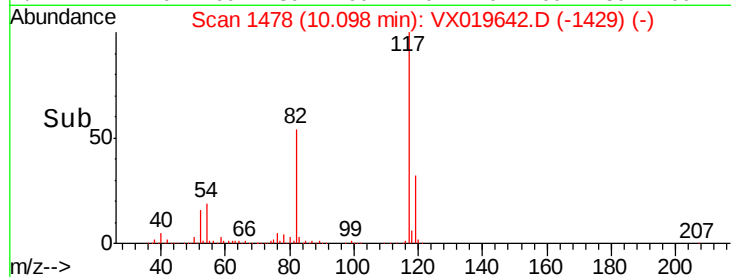
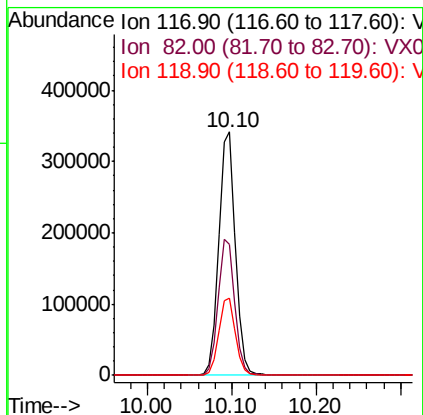
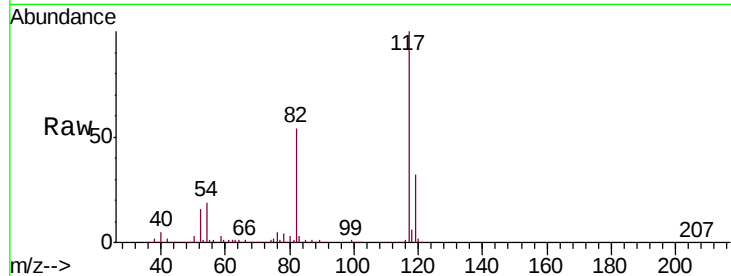




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019642.D
Acq: 25 Nov 2020 06:14

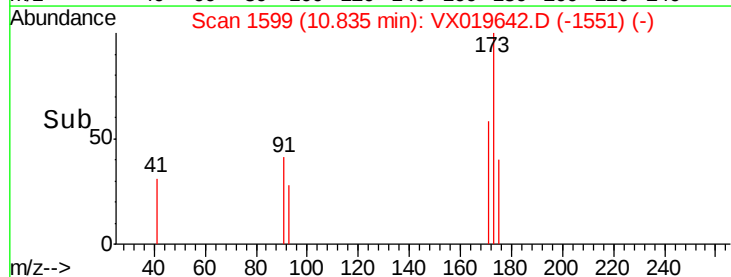
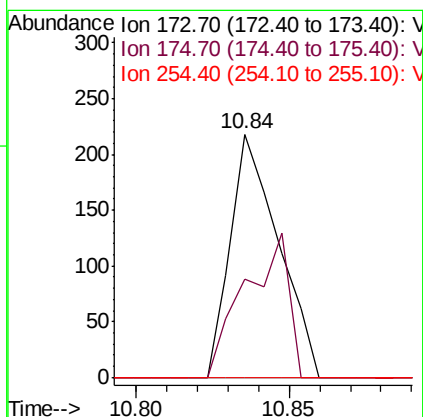
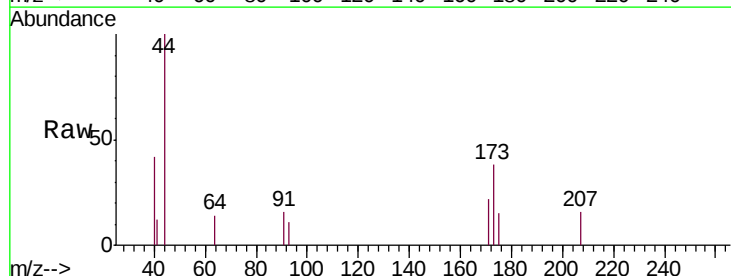
Instrument :
MSVOA_X
ClientSampleId :
MH-388.9-20201119

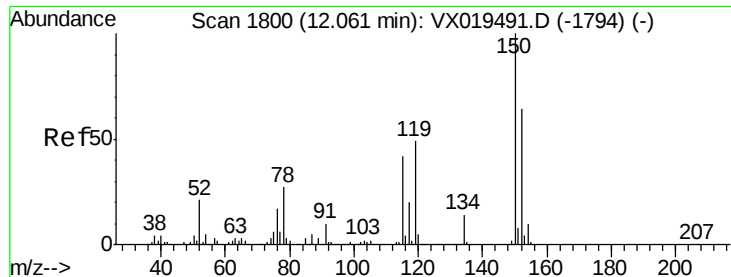
Tgt Ion:117 Resp: 467277
Ion Ratio Lower Upper
117 100
82 53.6 43.0 64.4
119 31.8 25.6 38.4



#71
Bromoform
Concen: 3.677 ug/l
RT: 10.84 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VX019642.D
Acq: 25 Nov 2020 06:14

Tgt Ion:173 Resp: 237
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

MH-388.9-20201119

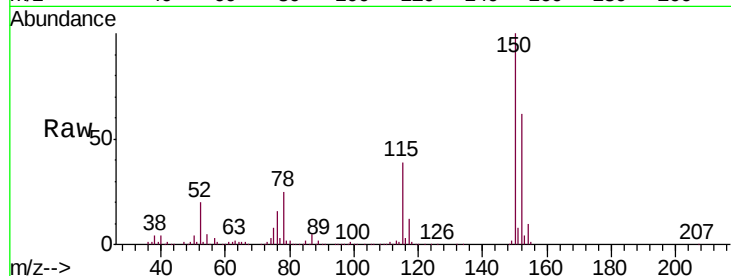
Tgt Ion:152 Resp: 189321

Ion Ratio Lower Upper

152 100

115 60.0 41.8 125.4

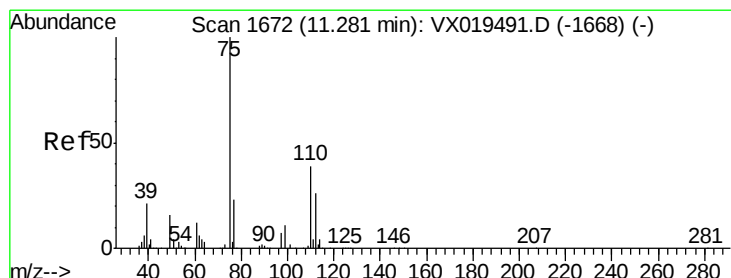
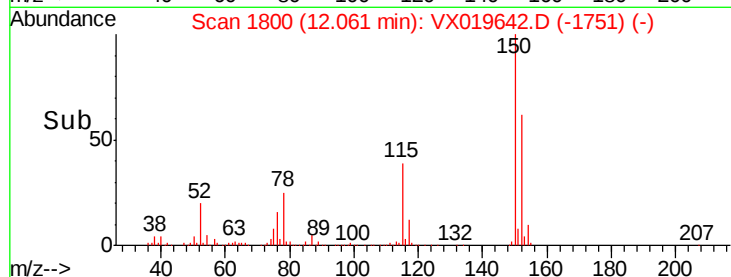
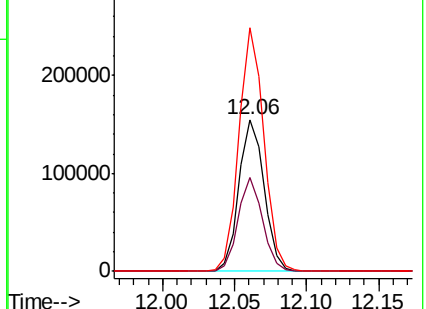
150 158.4 0.0 348.2



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: 25.310 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019642.D

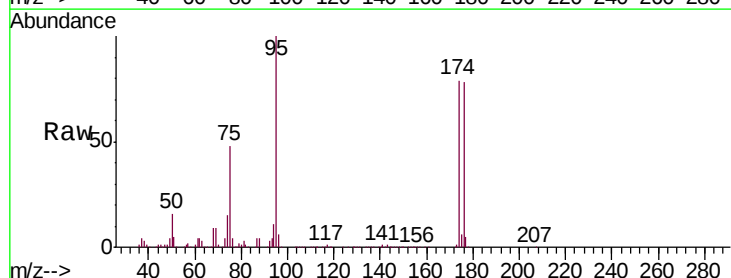
Acq: 25 Nov 2020 06:14

Tgt Ion: 75 Resp: 104572

Ion Ratio Lower Upper

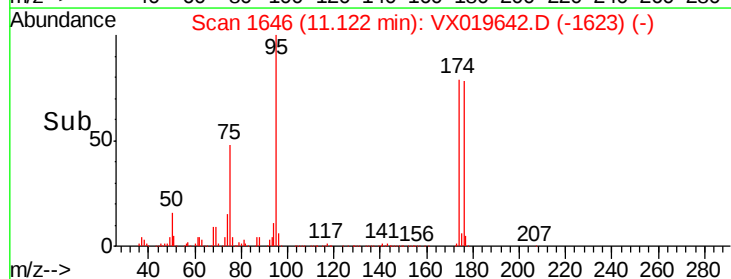
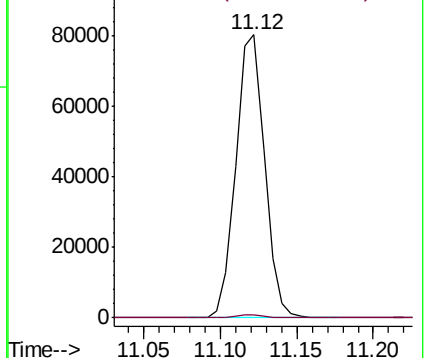
75 100

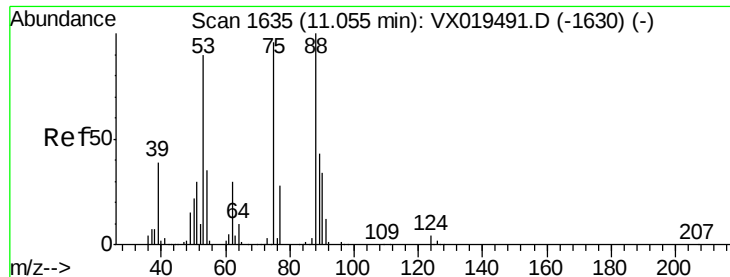
77 1.2 20.0 60.0#



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: 66.806 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Instrument :

MSVOA_X

ClientSampleId :

MH-388.9-20201119

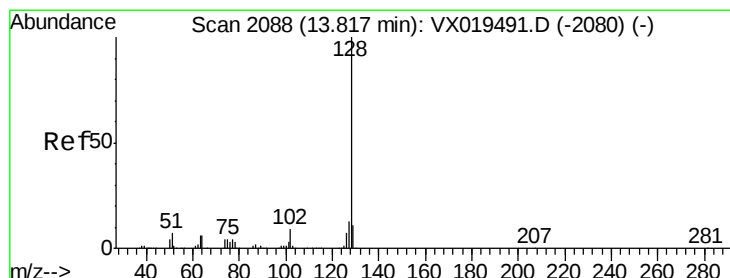
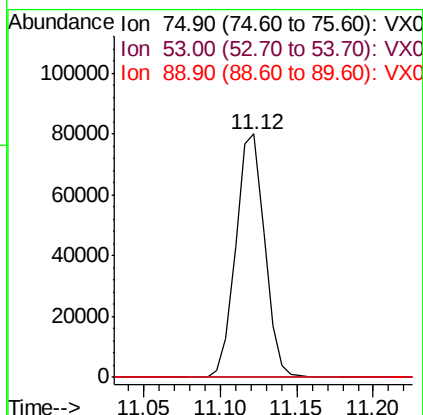
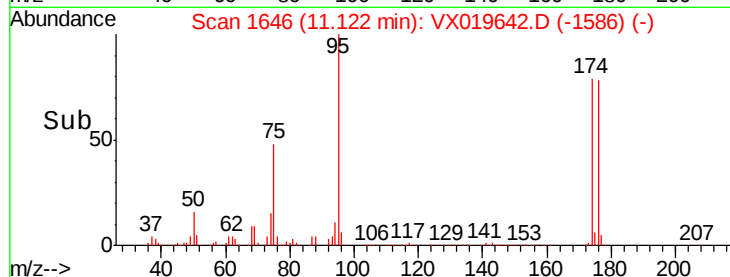
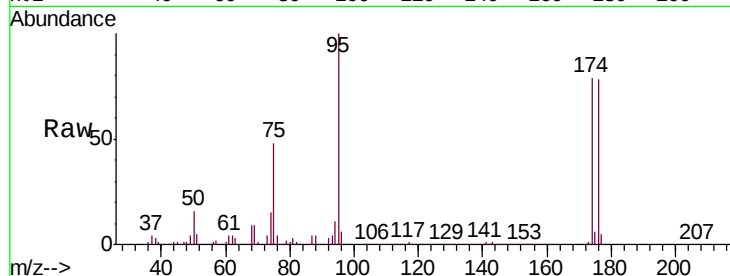
Tgt Ion: 75 Resp: 104572

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#



#95

Naphthalene

Concen: 2.196 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019642.D

Acq: 25 Nov 2020 06:14

Tgt Ion: 128 Resp: 260

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#

