

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020052.D
 Acq On : 16 Dec 2020 07:40
 Operator : JC/MD
 Sample : L5088-18
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-BOTTOM

Quant Time: Dec 16 08:04:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	304350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	509751	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	482598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	201420	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	197641	49.41	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.82%		
35) Dibromofluoromethane	5.46	113	159316	48.36	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.72%		
50) Toluene-d8	8.70	98	628908	50.00	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.00%		
62) 4-Bromofluorobenzene	11.12	95	217922	45.52	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	91.04%		

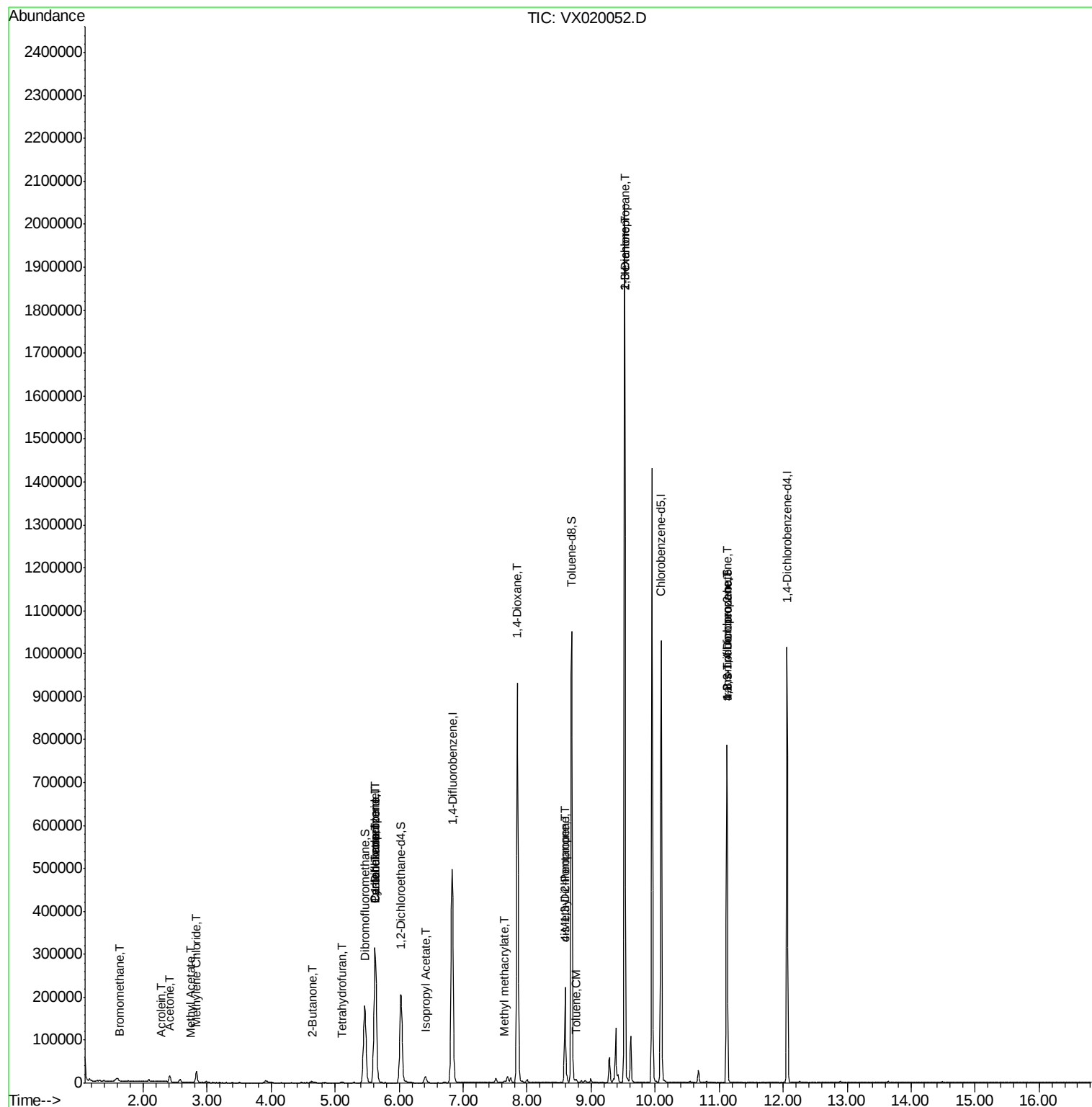
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	444	0.387	ug/l #	56
11) Tert butyl alcohol	3.00	59	1594	Below Cal	#	73
13) Acrolein	2.27	56	105	0.238	ug/l #	55
16) Acetone	2.42	43	15383	10.231	ug/l	98
18) Methyl Acetate	2.75	43	1822	0.495	ug/l	95
20) Methylene Chloride	2.83	84	12543	2.297	ug/l	97
25) 2-Butanone	4.64	43	3864	1.673	ug/l #	87
29) Tetrahydrofuran	5.10	42	643	0.432	ug/l #	75
31) Cyclohexane	5.63	56	5949	1.196	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23314	5.061	ug/l #	48
38) Carbon Tetrachloride	5.62	117	30267	6.710	ug/l #	17
43) Isopropyl Acetate	6.41	43	17642	2.333	ug/l	97
48) Methyl methacrylate	7.65	41	6093	1.638	ug/l #	10
49) 1,4-Dioxane	7.84	88	157	1.743	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	70671	15.309	ug/l #	47
52) Toluene	8.76	92	2102	0.239	ug/l	98
54) cis-1,3-Dichloropropene	8.59	75	37097	6.530	ug/l #	62
57) 1,3-Dichloropropane	9.52	76	18461	3.049	ug/l #	43
59) 2-Hexanone	9.52	43	224251	62.669	ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	106603	23.598	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	106603	68.217	ug/l #	12

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

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TR3-B-BOTTOM

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

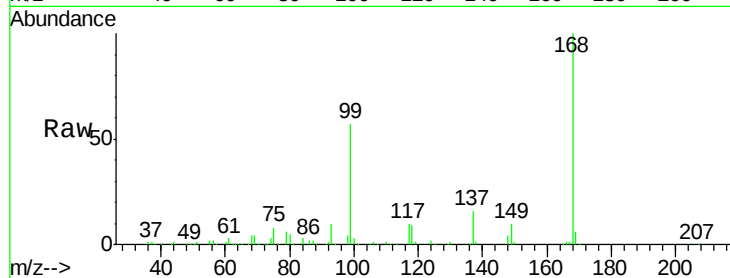
TR3-B-BOTTOM

Tgt Ion:168 Resp: 304350

Ion Ratio Lower Upper

168 100

99 57.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

60000

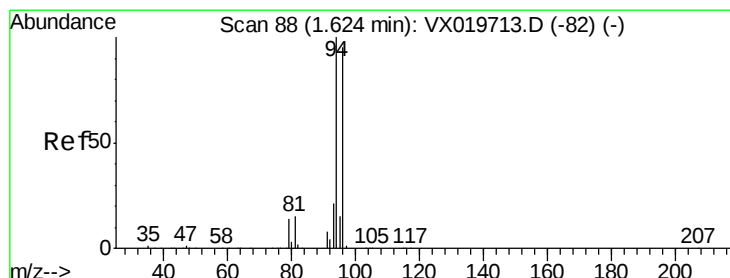
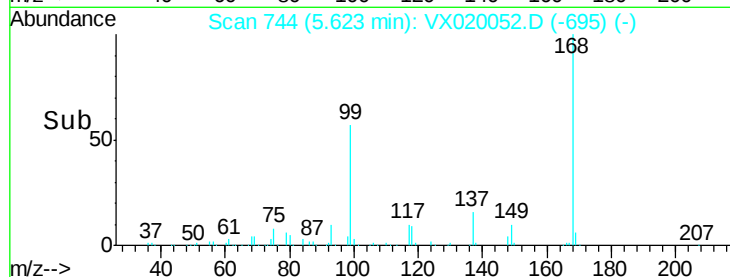
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.387 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX020052.D

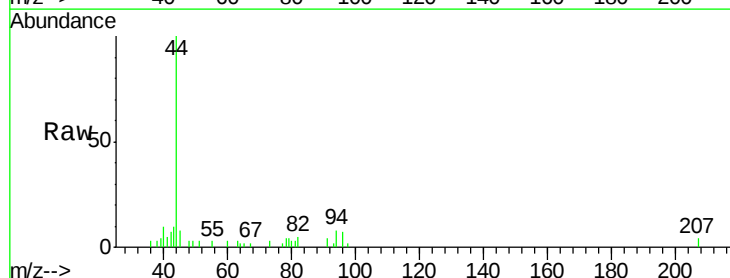
Acq: 16 Dec 2020 07:40

Tgt Ion: 94 Resp: 444

Ion Ratio Lower Upper

94 100

96 52.6 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

250

200

150

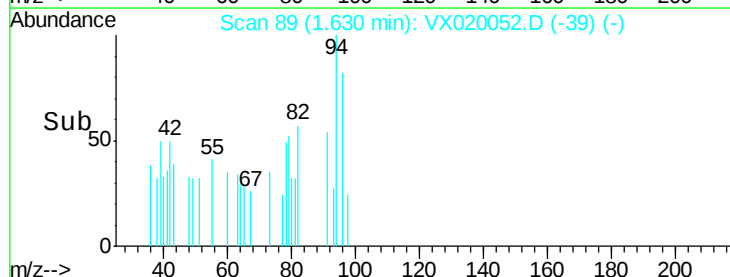
100

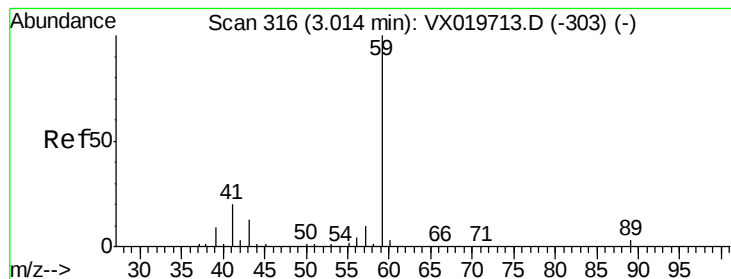
50

0

Time-->

1.55 1.60 1.65



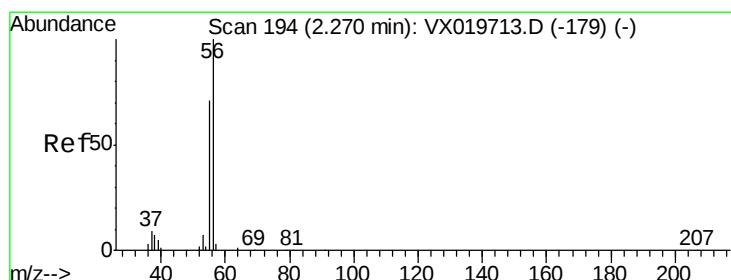
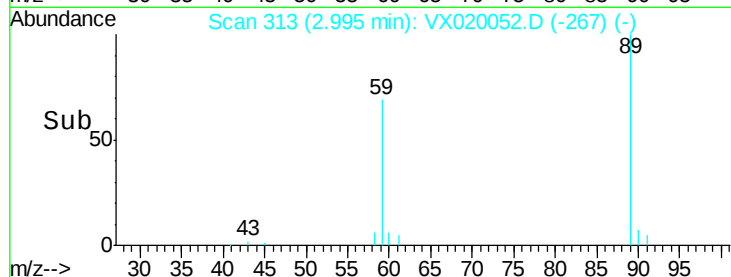
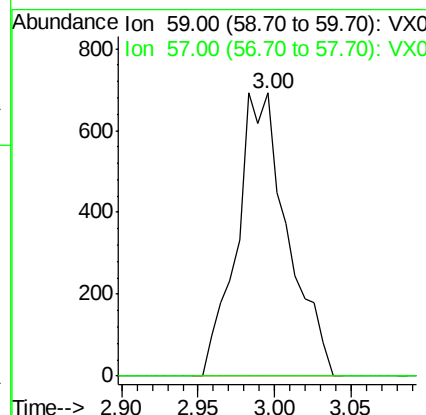
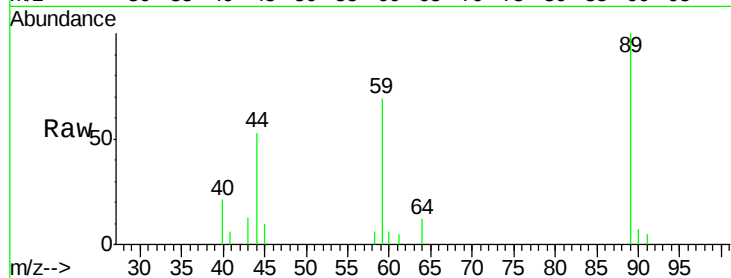


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX020052.D
 Acq: 16 Dec 2020 07:40

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-BOTTOM

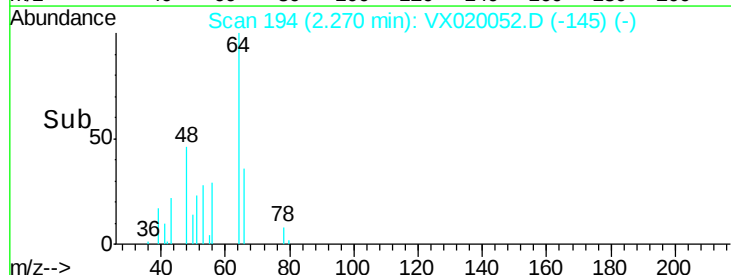
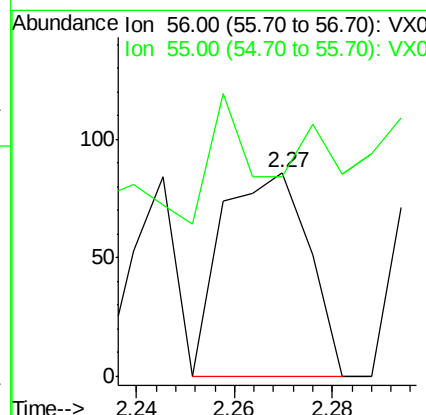
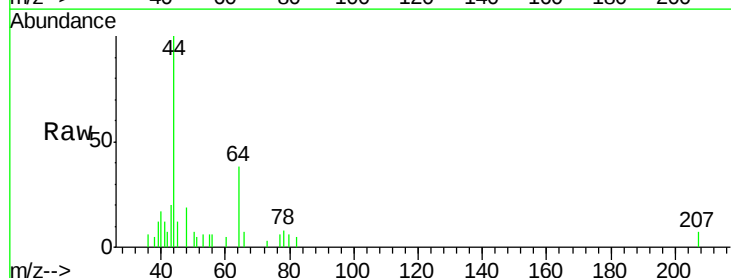
Tgt Ion: 59 Resp: 1594
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

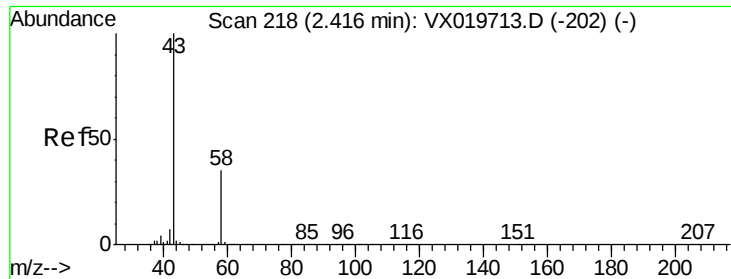


#13

Acrolein
 Concen: 0.238 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. -0.00 min
 Lab File: VX020052.D
 Acq: 16 Dec 2020 07:40

Tgt Ion: 56 Resp: 105
 Ion Ratio Lower Upper
 56 100
 55 33.3 56.4 84.6#





#16

Acetone

Concen: 10.231 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampled :

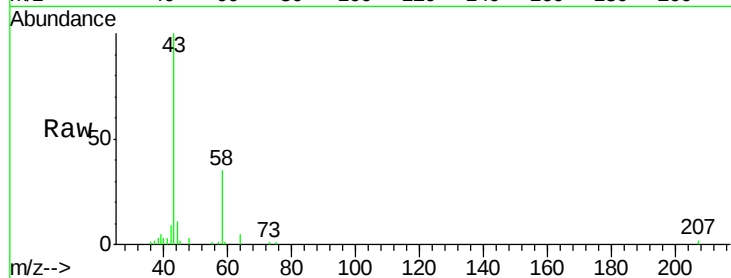
TR3-B-BOTTOM

Tgt Ion: 43 Resp: 15383

Ion Ratio Lower Upper

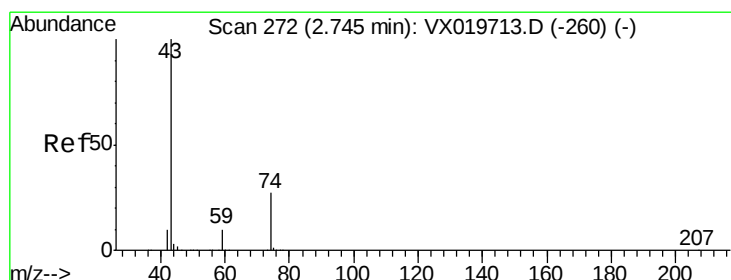
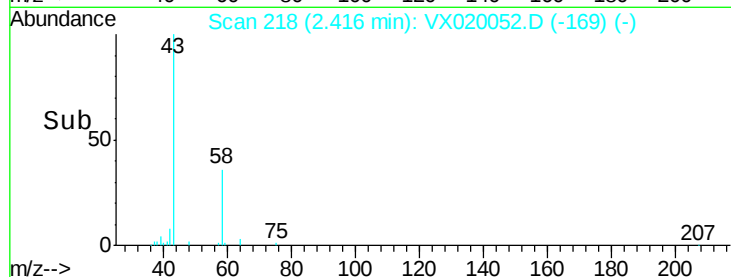
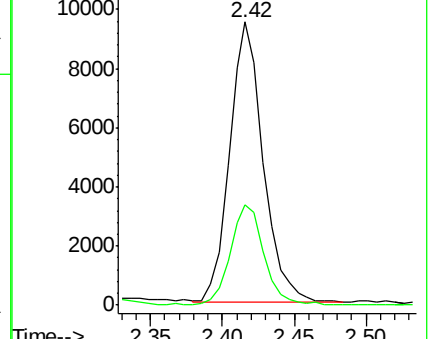
43 100

58 35.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.495 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX020052.D

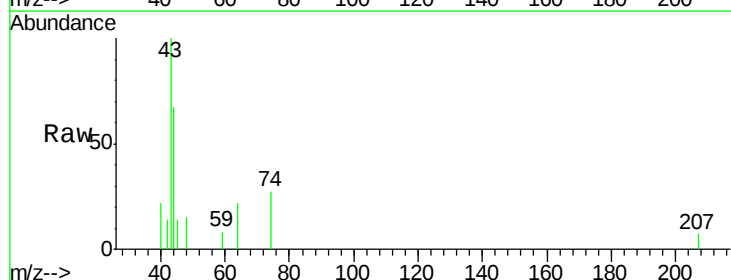
Acq: 16 Dec 2020 07:40

Tgt Ion: 43 Resp: 1822

Ion Ratio Lower Upper

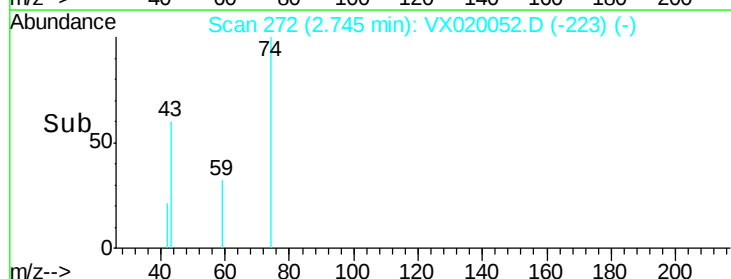
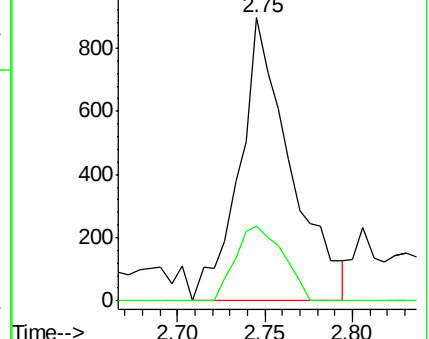
43 100

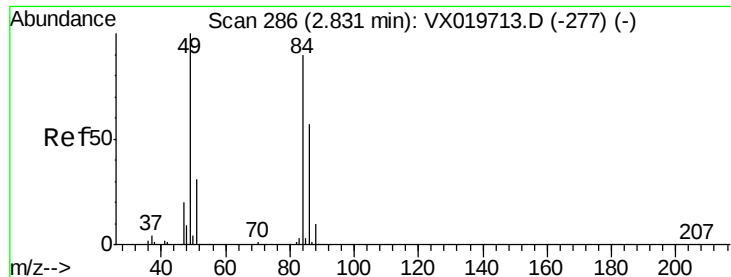
74 24.6 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

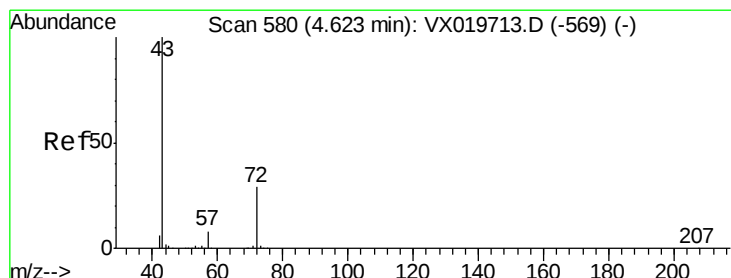
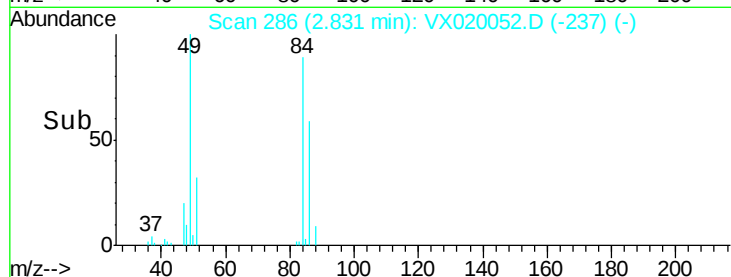
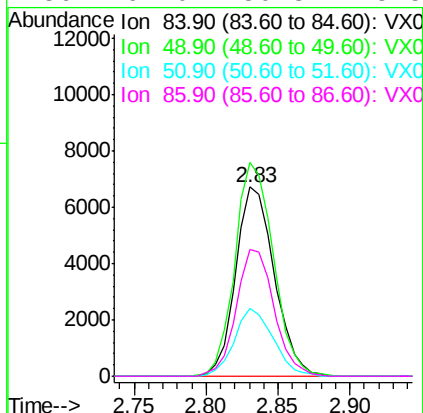
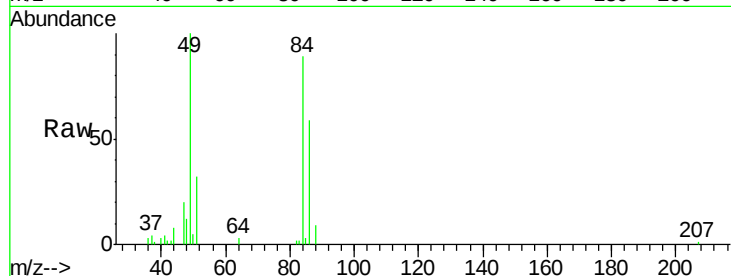




#20
Methylene Chloride
Concen: 2.297 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020052.D
Acq: 16 Dec 2020 07:40

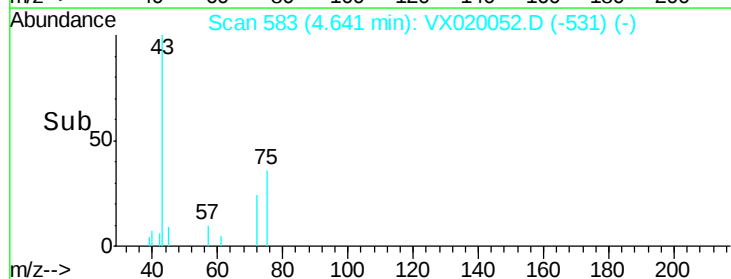
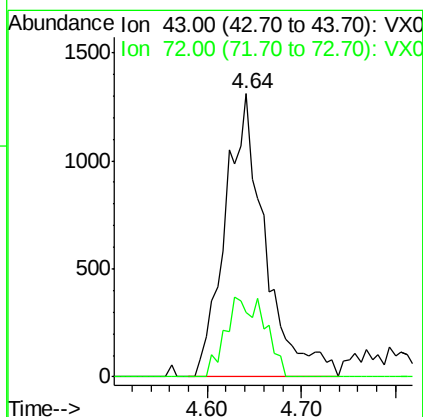
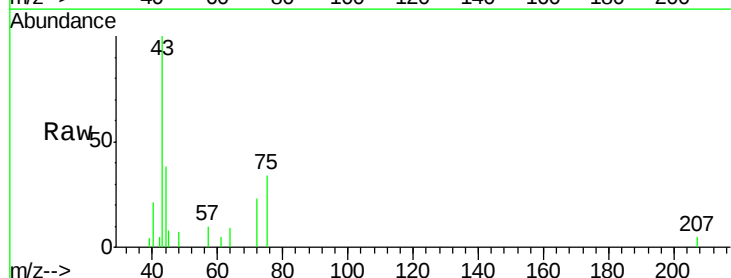
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-BOTTOM

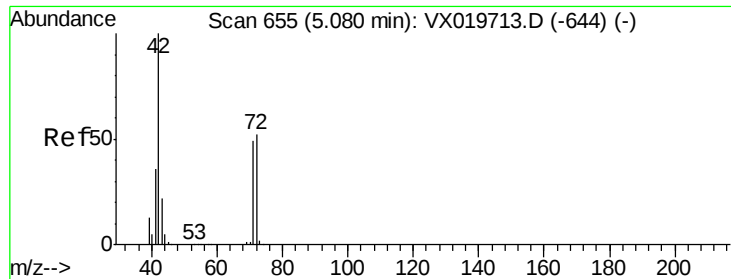
Tgt Ion:	84	Resp:	12543
Ion	Ratio	Lower	Upper
84	100		
49	113.0	88.6	132.8
51	35.9	27.0	40.6
86	67.0	50.3	75.5



#25
2-Butanone
Concen: 1.673 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX020052.D
Acq: 16 Dec 2020 07:40

Tgt Ion:	43	Resp:	3864
Ion	Ratio	Lower	Upper
43	100		
72	22.7	23.7	35.5#

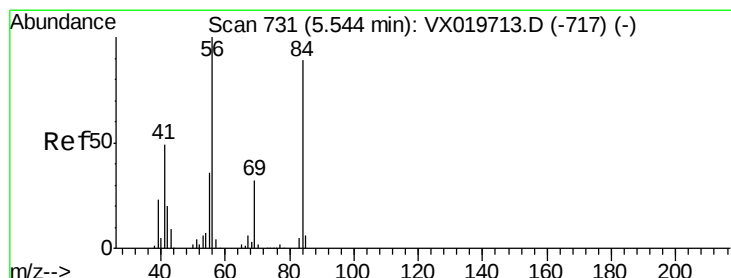
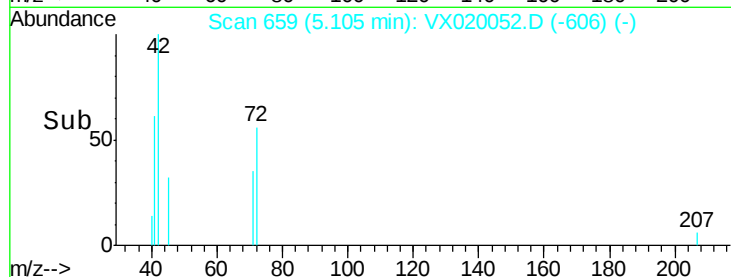
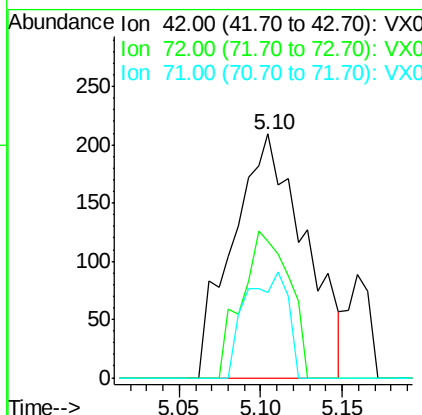
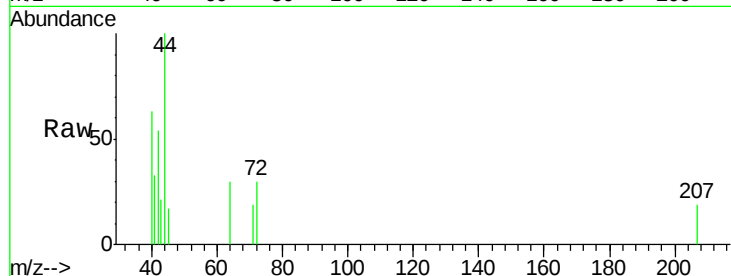




#29
Tetrahydrofuran
Concen: 0.432 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX020052.D
Acq: 16 Dec 2020 07:40

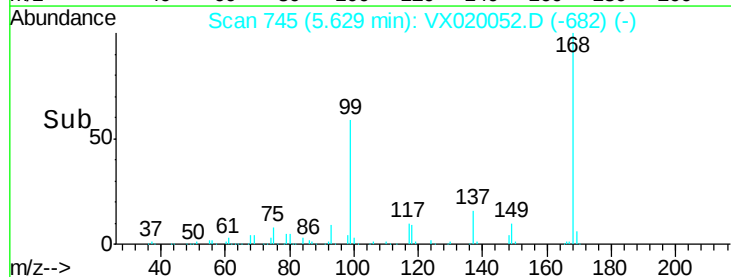
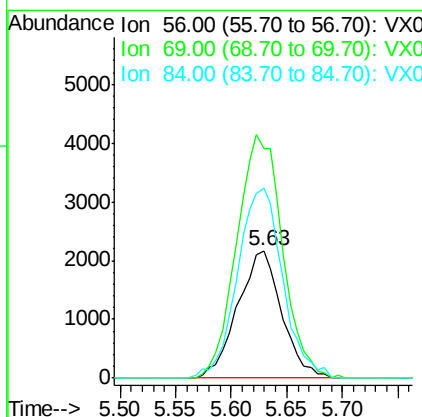
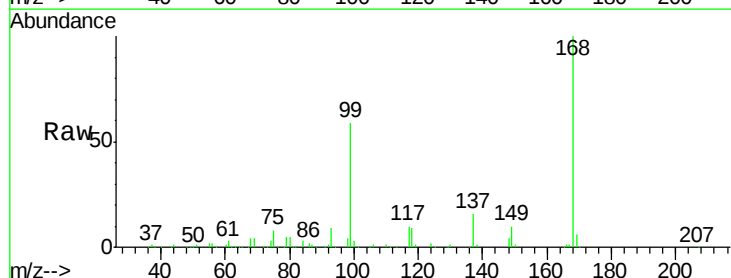
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-BOTTOM

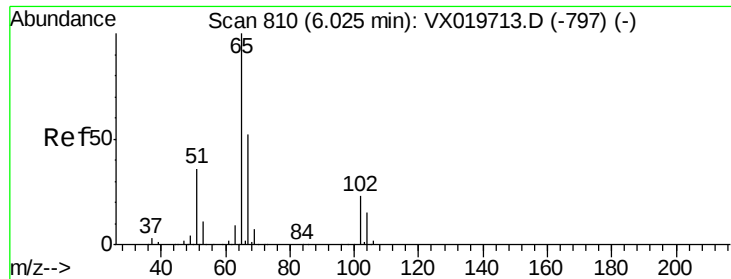
Tgt Ion: 42 Resp: 643
Ion Ratio Lower Upper
42 100
72 39.8 41.7 62.5#
71 25.0 38.4 57.6#



#31
Cyclohexane
Concen: 1.196 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX020052.D
Acq: 16 Dec 2020 07:40

Tgt Ion: 56 Resp: 5949
Ion Ratio Lower Upper
56 100
69 180.9 25.3 37.9#
84 149.8 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 49.410 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

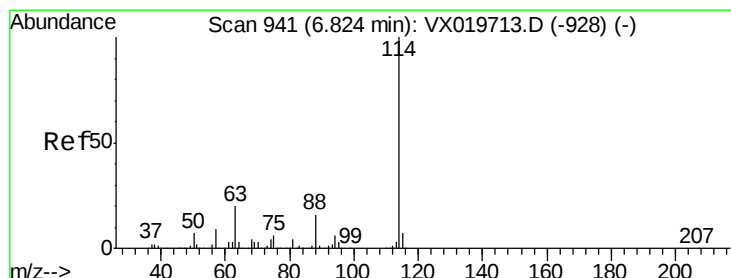
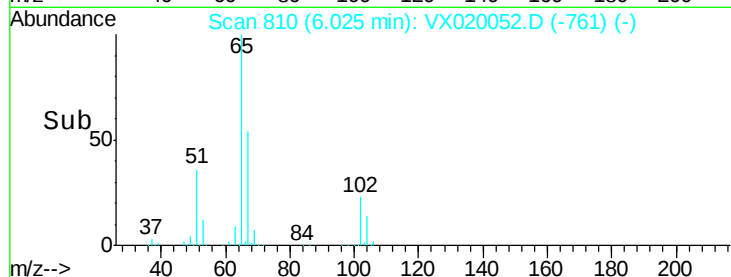
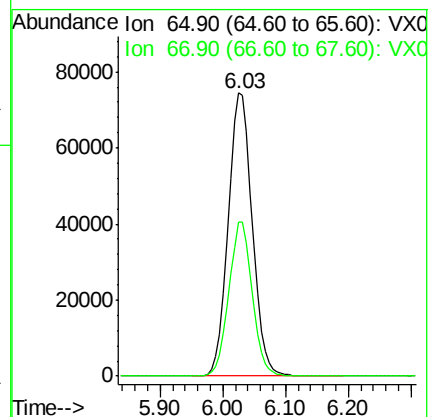
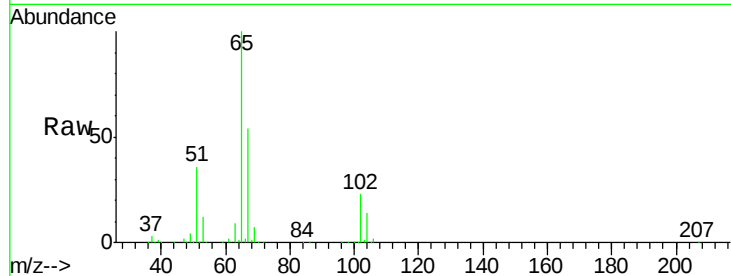
TR3-B-BOTTOM

Tgt Ion: 65 Resp: 197641

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

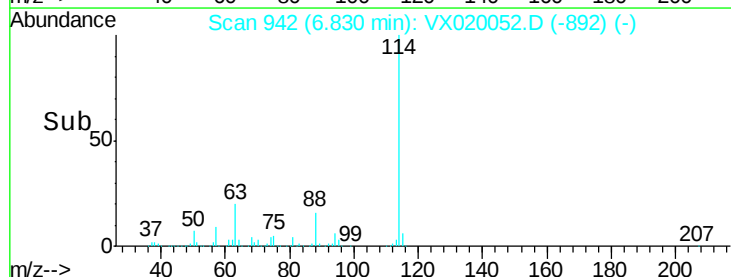
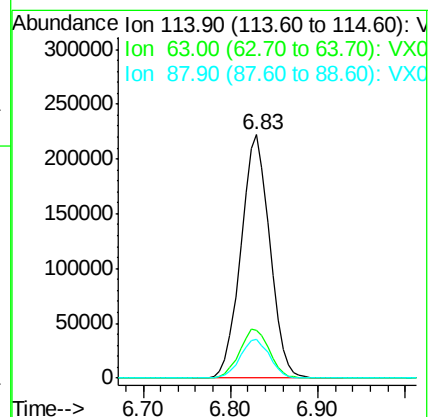
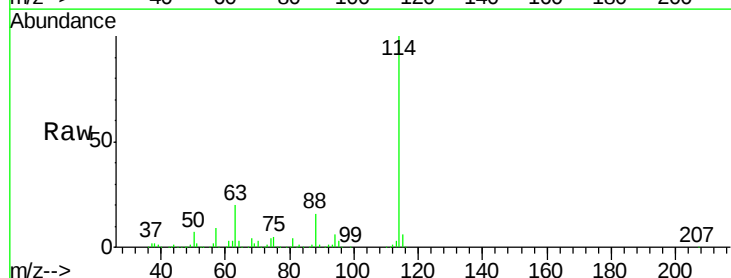
Tgt Ion: 114 Resp: 509751

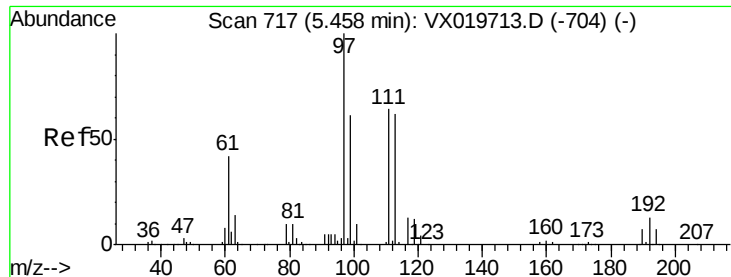
Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

88 15.9 0.0 32.8

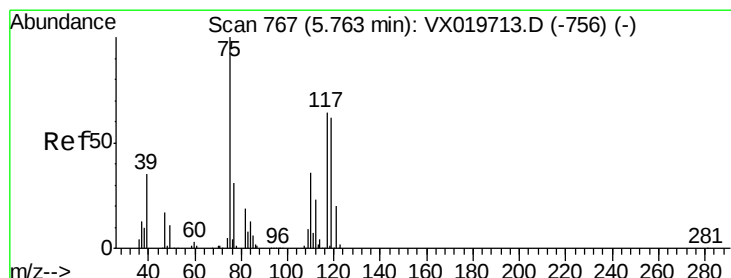
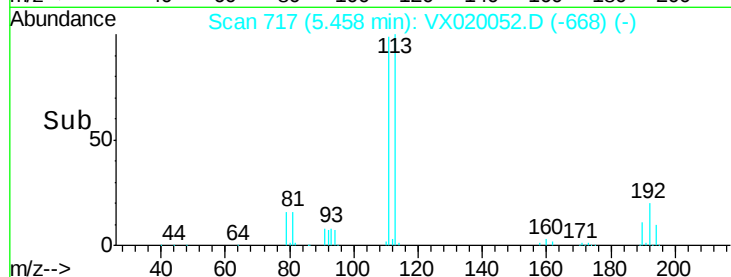
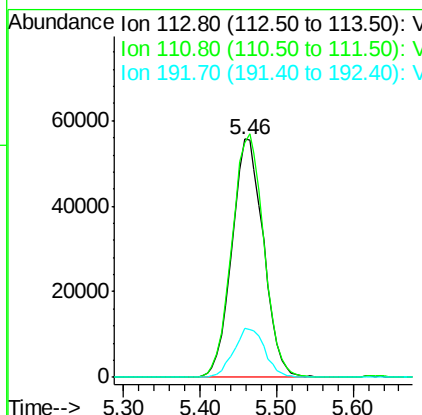
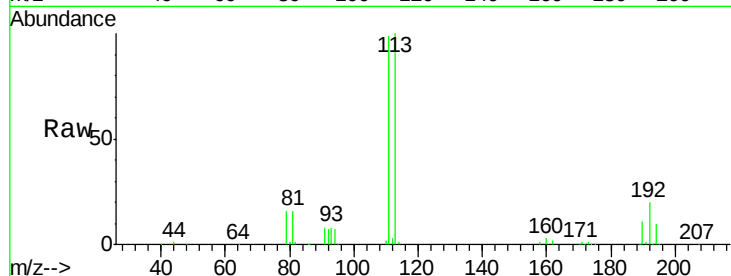




#35
 Dibromofluoromethane
 Concen: 48.359 ug/l
 RT: 5.46 min Scan# 717
 Delta R.T. -0.00 min
 Lab File: VX020052.D
 Acq: 16 Dec 2020 07:40

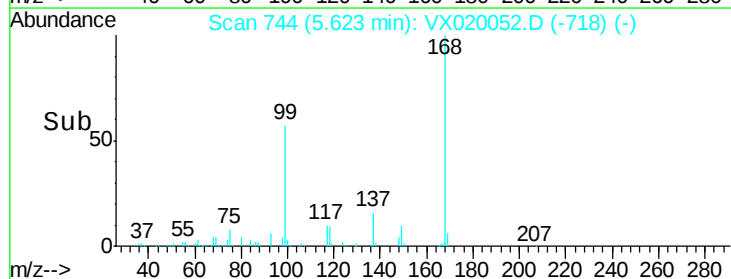
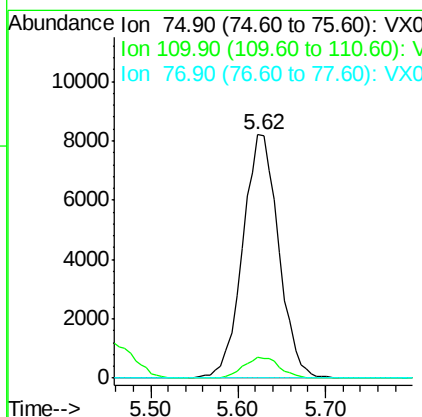
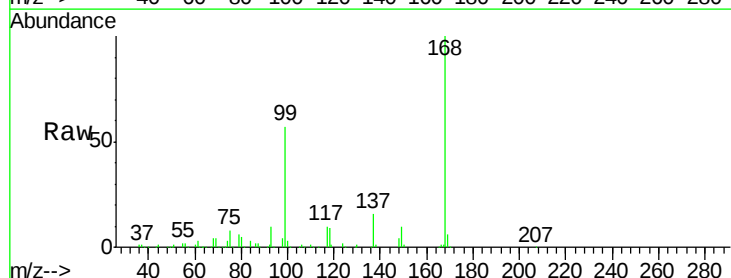
Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-BOTTOM

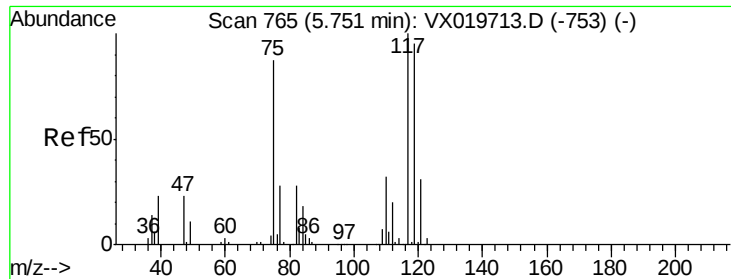
Tgt Ion:113 Resp: 159316
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.9 122.9
 192 20.3 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 5.061 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX020052.D
 Acq: 16 Dec 2020 07:40

Tgt Ion: 75 Resp: 23314
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.4#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.710 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

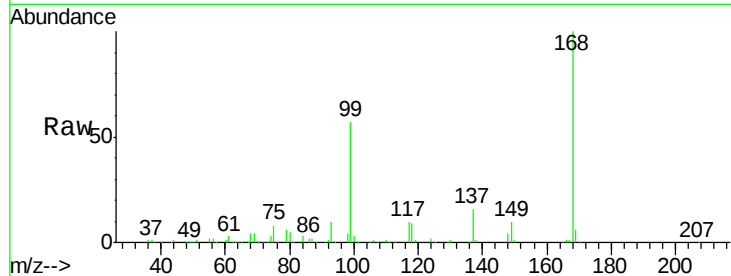
Tgt Ion:117 Resp: 30267

Ion Ratio Lower Upper

117 100

119 5.7 76.2 114.2#

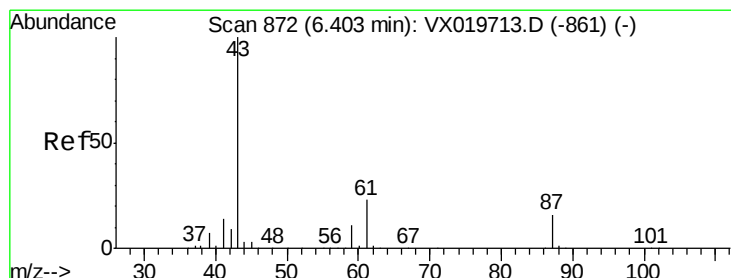
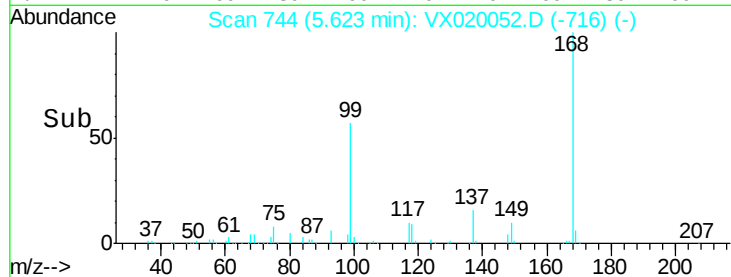
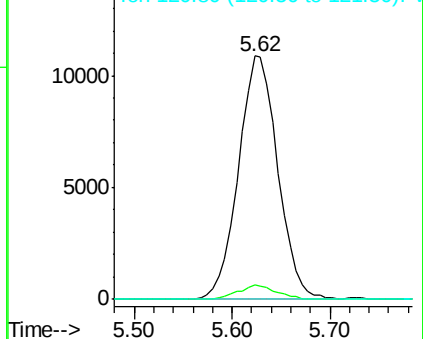
121 0.0 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 2.333 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

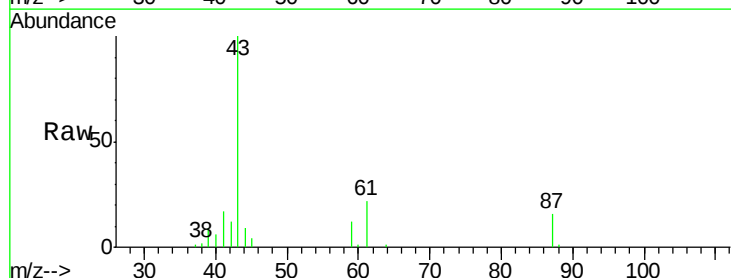
Tgt Ion: 43 Resp: 17642

Ion Ratio Lower Upper

43 100

61 21.6 18.2 27.4

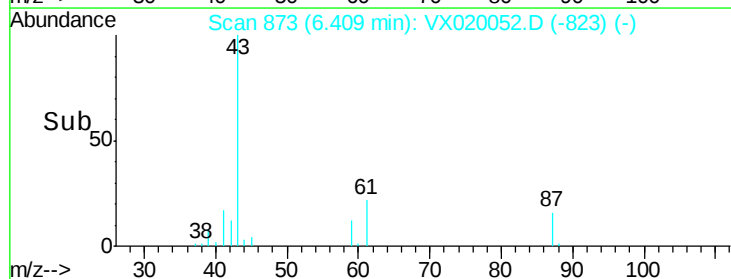
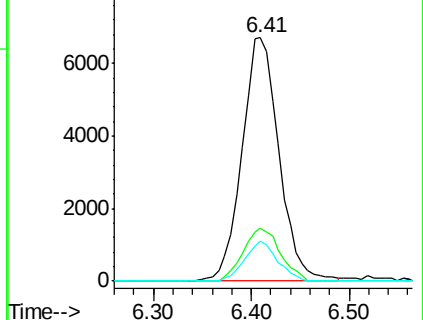
87 14.5 12.5 18.7

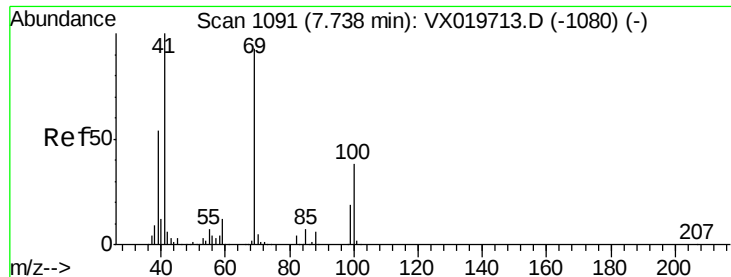


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

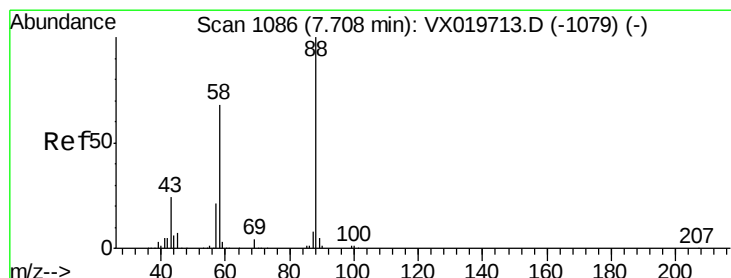
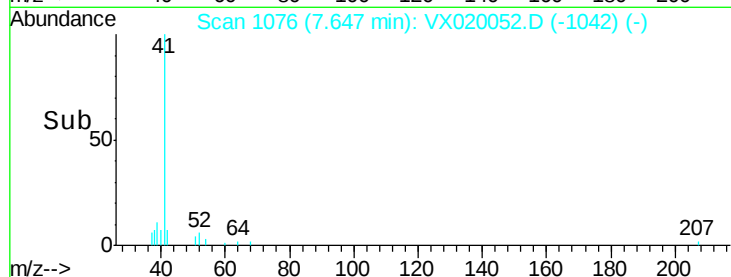
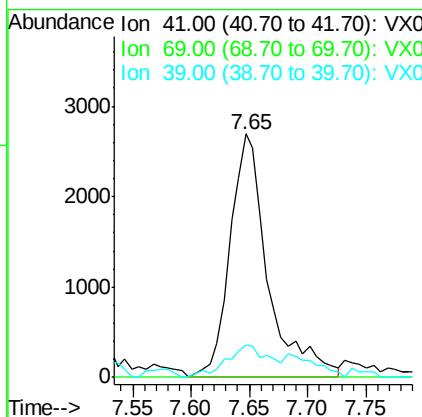
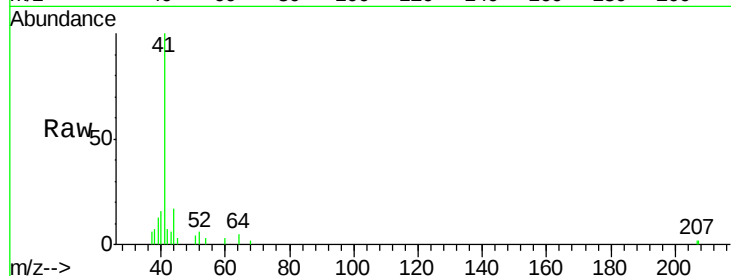




#48
Methyl methacrylate
Concen: 1.638 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX020052.D
Acq: 16 Dec 2020 07:40

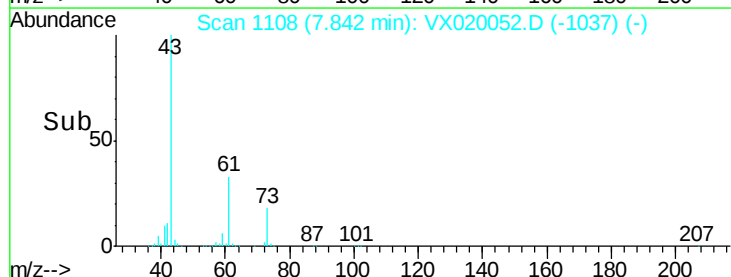
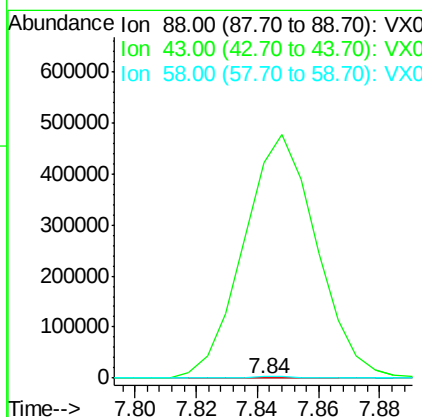
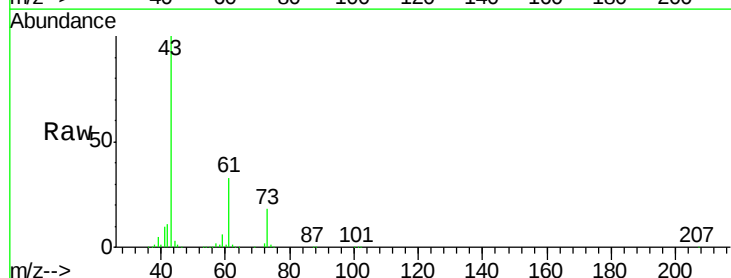
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-BOTTOM

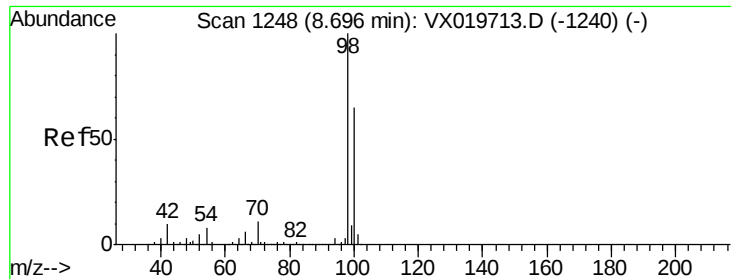
Tgt Ion: 41 Resp: 6093
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 1.743 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VX020052.D
Acq: 16 Dec 2020 07:40

Tgt Ion: 88 Resp: 157
Ion Ratio Lower Upper
88 100
43 508235.0 23.2 34.8#
58 3028.7 55.0 82.4#





#50

Toluene-d8

Concen: 50.003 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

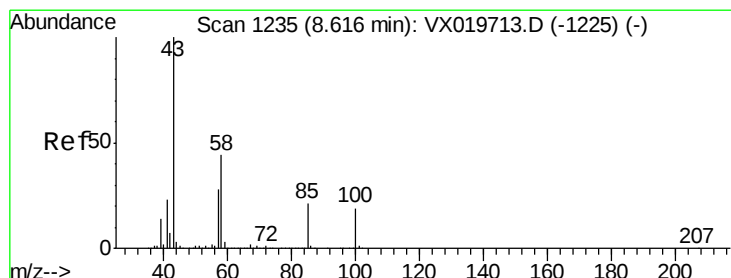
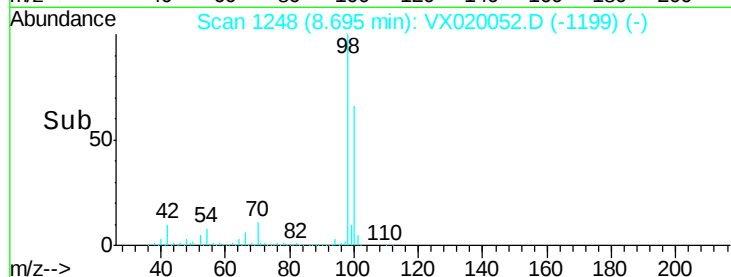
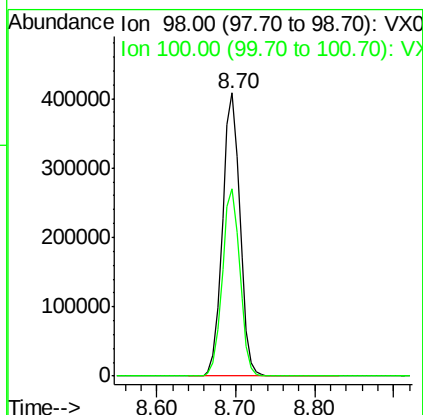
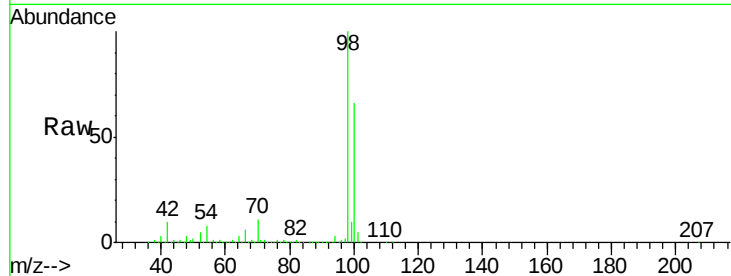
TR3-B-BOTTOM

Tgt Ion: 98 Resp: 628908

Ion Ratio Lower Upper

98 100

100 66.4 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 15.309 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX020052.D

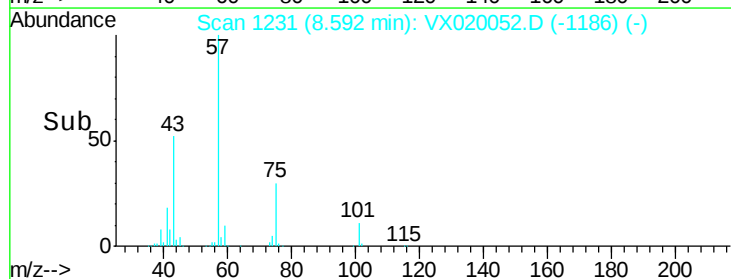
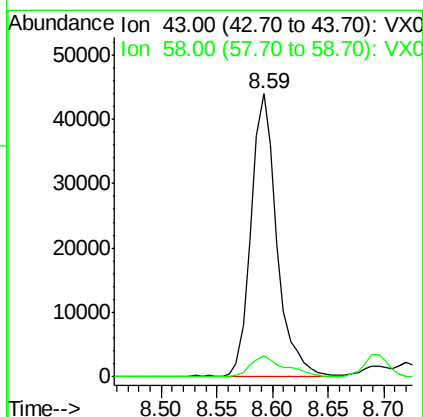
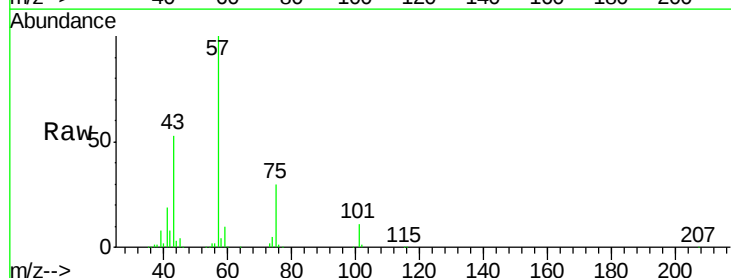
Acq: 16 Dec 2020 07:40

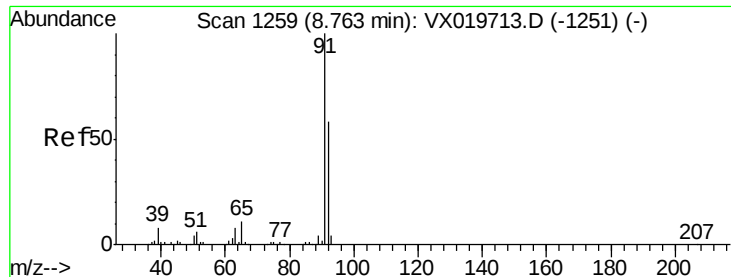
Tgt Ion: 43 Resp: 70671

Ion Ratio Lower Upper

43 100

58 10.0 35.4 53.0#





#52

Toluene

Concen: 0.239 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

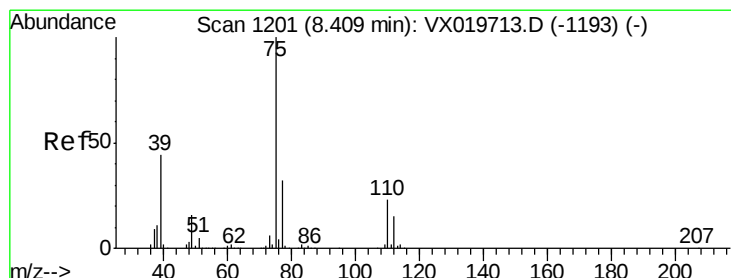
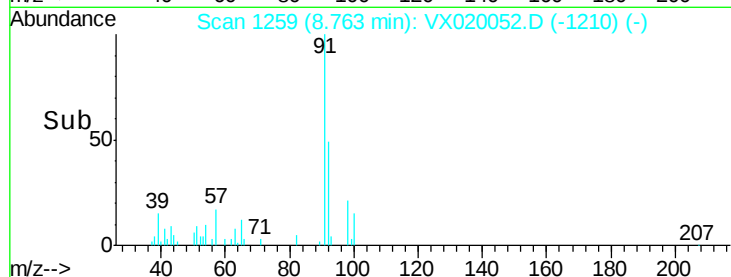
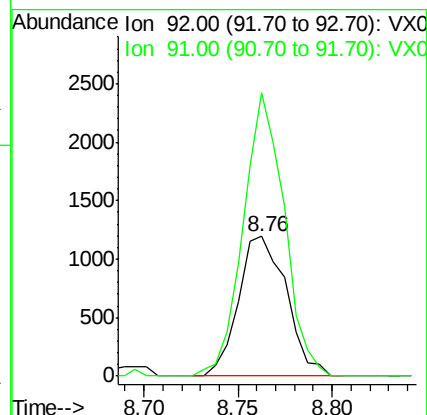
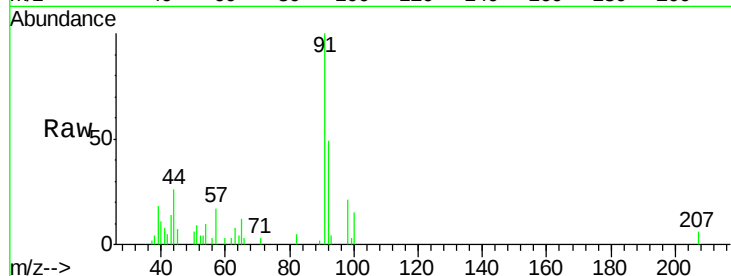
TR3-B-BOTTOM

Tgt Ion: 92 Resp: 2102

Ion Ratio Lower Upper

92 100

91 174.1 137.1 205.7



#54

cis-1,3-Dichloropropene

Concen: 6.530 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

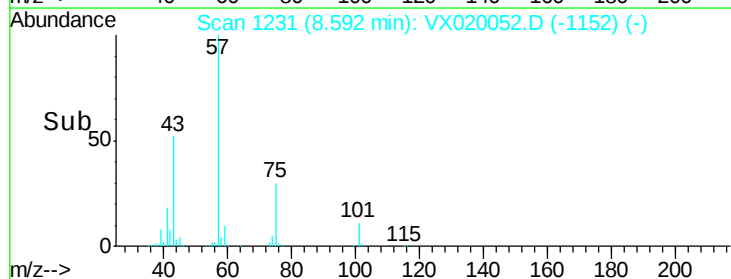
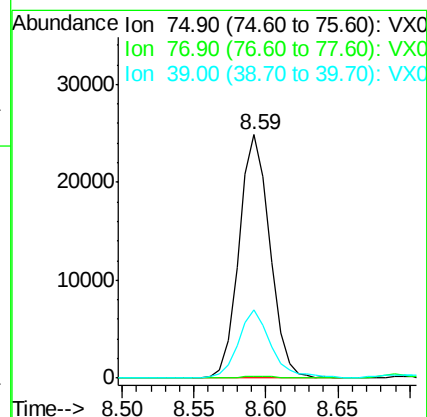
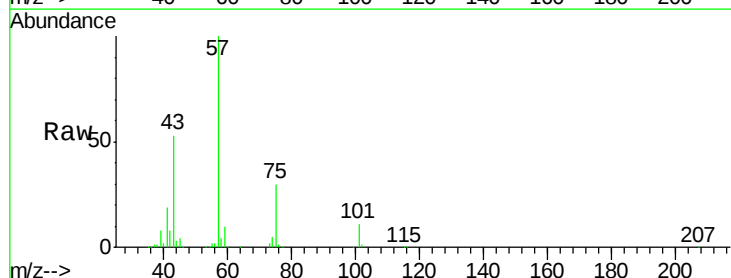
Tgt Ion: 75 Resp: 37097

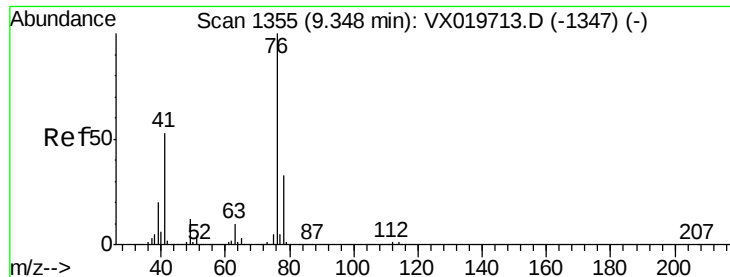
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 28.2 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 3.049 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.17 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

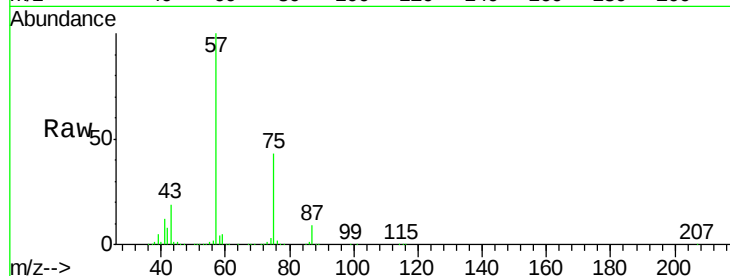
TR3-B-BOTTOM

Tgt Ion: 76 Resp: 18461

Ion Ratio Lower Upper

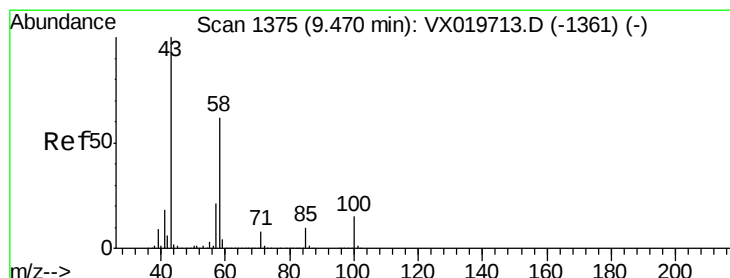
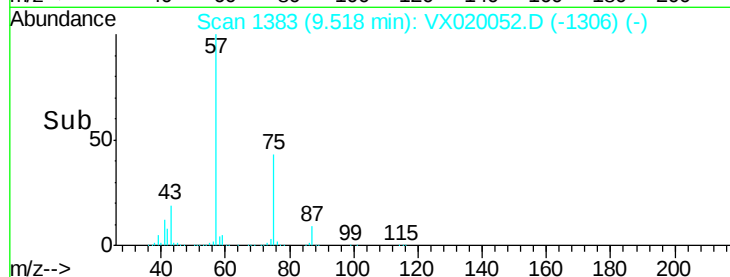
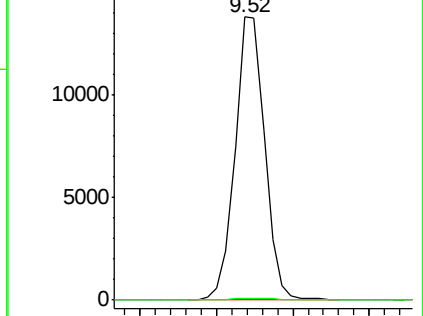
76 100

78 0.8 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 62.669 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX020052.D

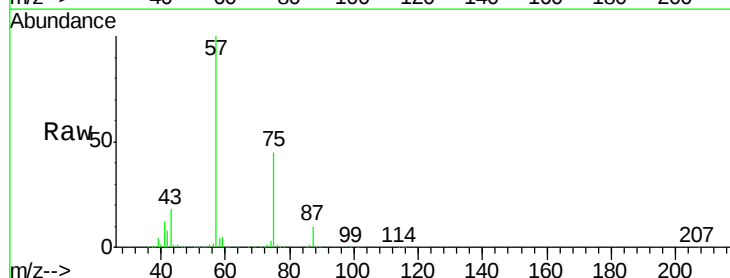
Acq: 16 Dec 2020 07:40

Tgt Ion: 43 Resp: 224251

Ion Ratio Lower Upper

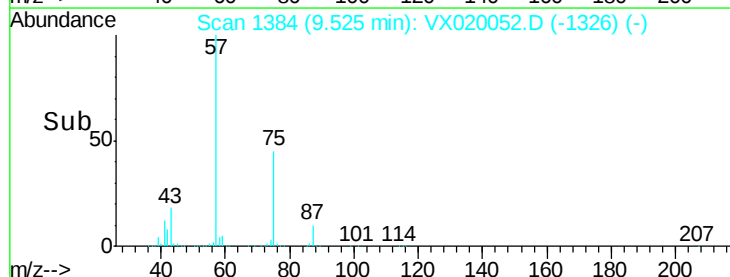
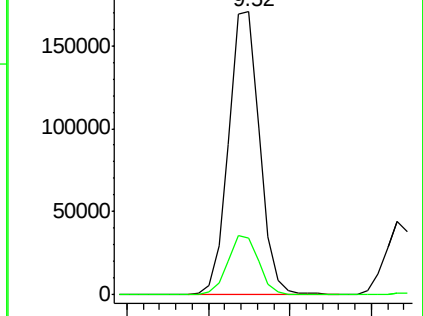
43 100

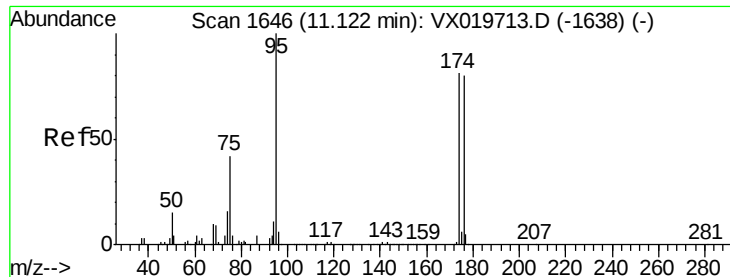
58 20.8 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.523 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

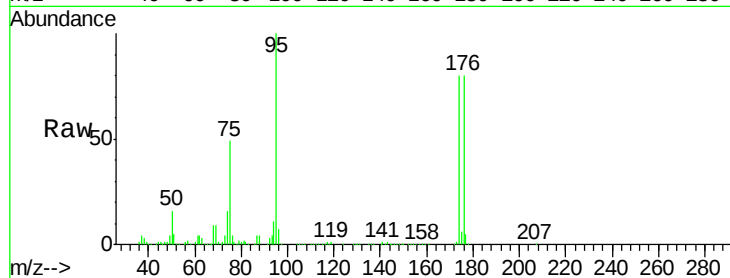
Tgt Ion: 95 Resp: 217922

Ion Ratio Lower Upper

95 100

174 77.8 0.0 154.6

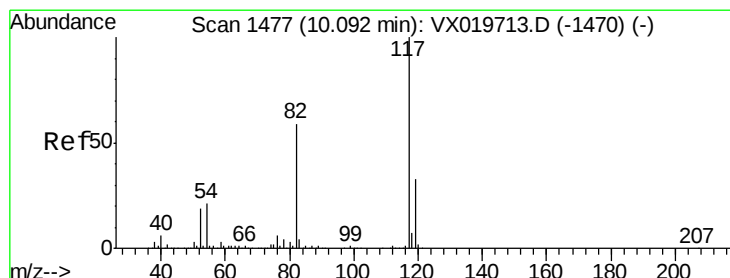
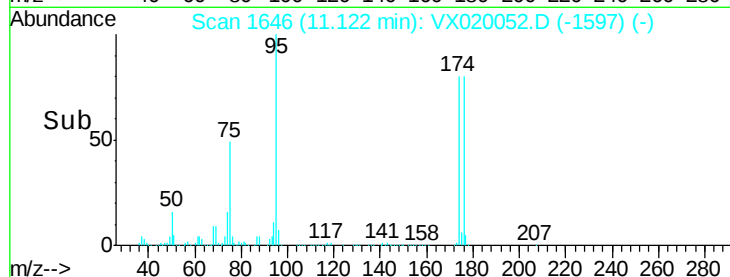
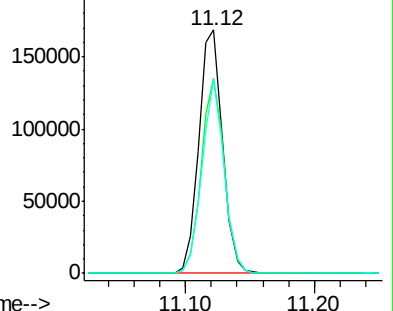
176 74.3 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

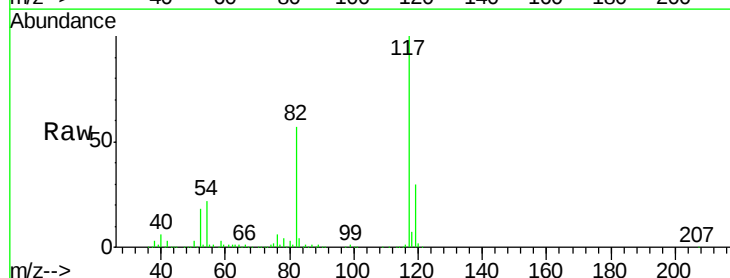
Tgt Ion: 117 Resp: 482598

Ion Ratio Lower Upper

117 100

82 57.0 47.4 71.2

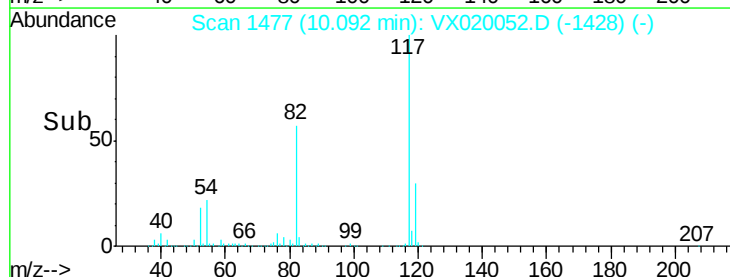
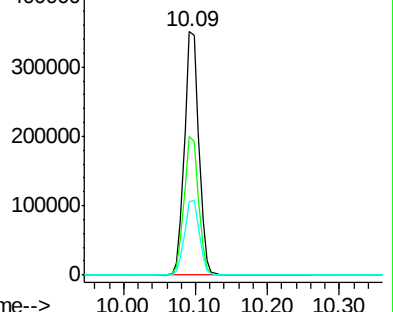
119 30.4 26.6 39.8

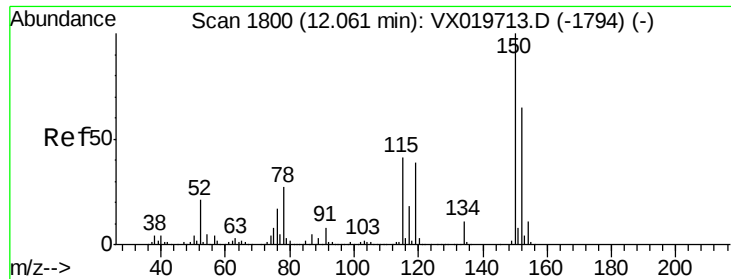


Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

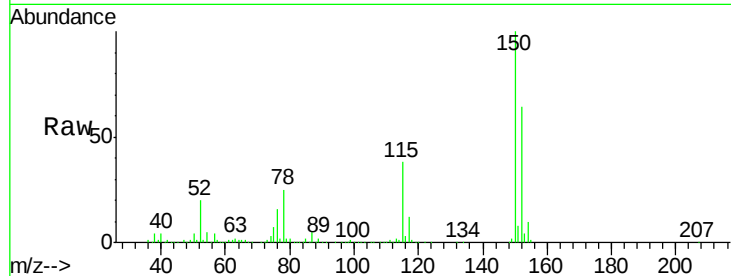
Tgt Ion:152 Resp: 201420

Ion Ratio Lower Upper

152 100

115 60.4 41.1 123.3

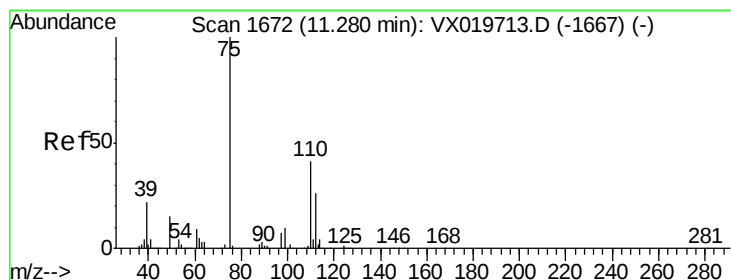
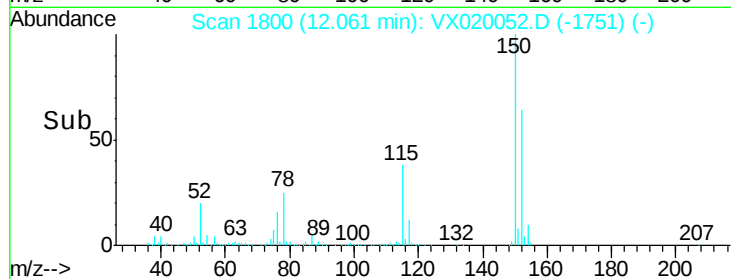
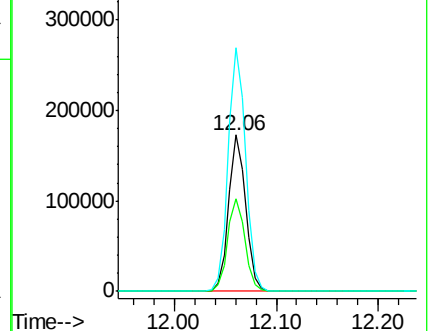
150 158.7 0.0 349.0



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: 23.598 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020052.D

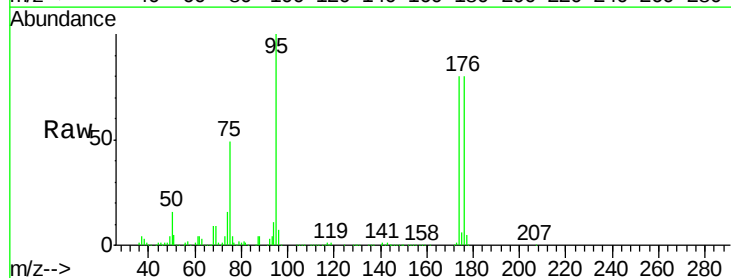
Acq: 16 Dec 2020 07:40

Tgt Ion: 75 Resp: 106603

Ion Ratio Lower Upper

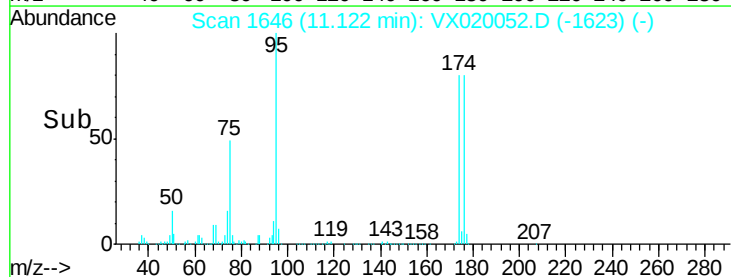
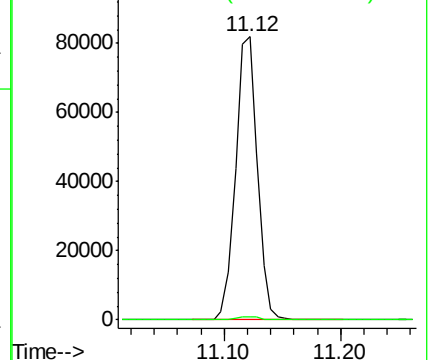
75 100

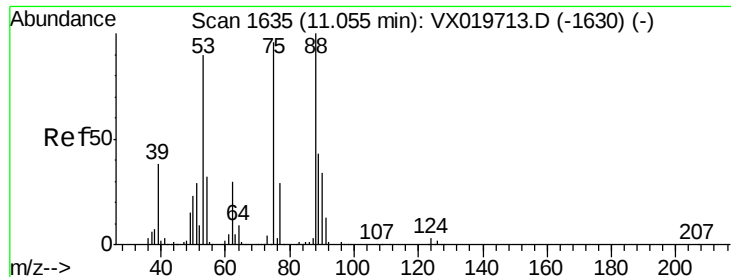
77 1.3 19.1 57.5#



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: 68.217 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020052.D

Acq: 16 Dec 2020 07:40

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

Tgt Ion: 75 Resp: 106603

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

