

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020046.D
 Acq On : 16 Dec 2020 05:21
 Operator : JC/MD
 Sample : L5088-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-C-BOTTOM

Quant Time: Dec 16 06:58:33 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	5.63	168	309081	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	509896	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	482334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204917	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	201113	49.51	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.02%	
35) Dibromofluoromethane		5.46	113	161362	48.97	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.94%	
50) Toluene-d8		8.70	98	637168	50.65	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.30%	
62) 4-Bromofluorobenzene		11.12	95	220248	46.00	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.00%	

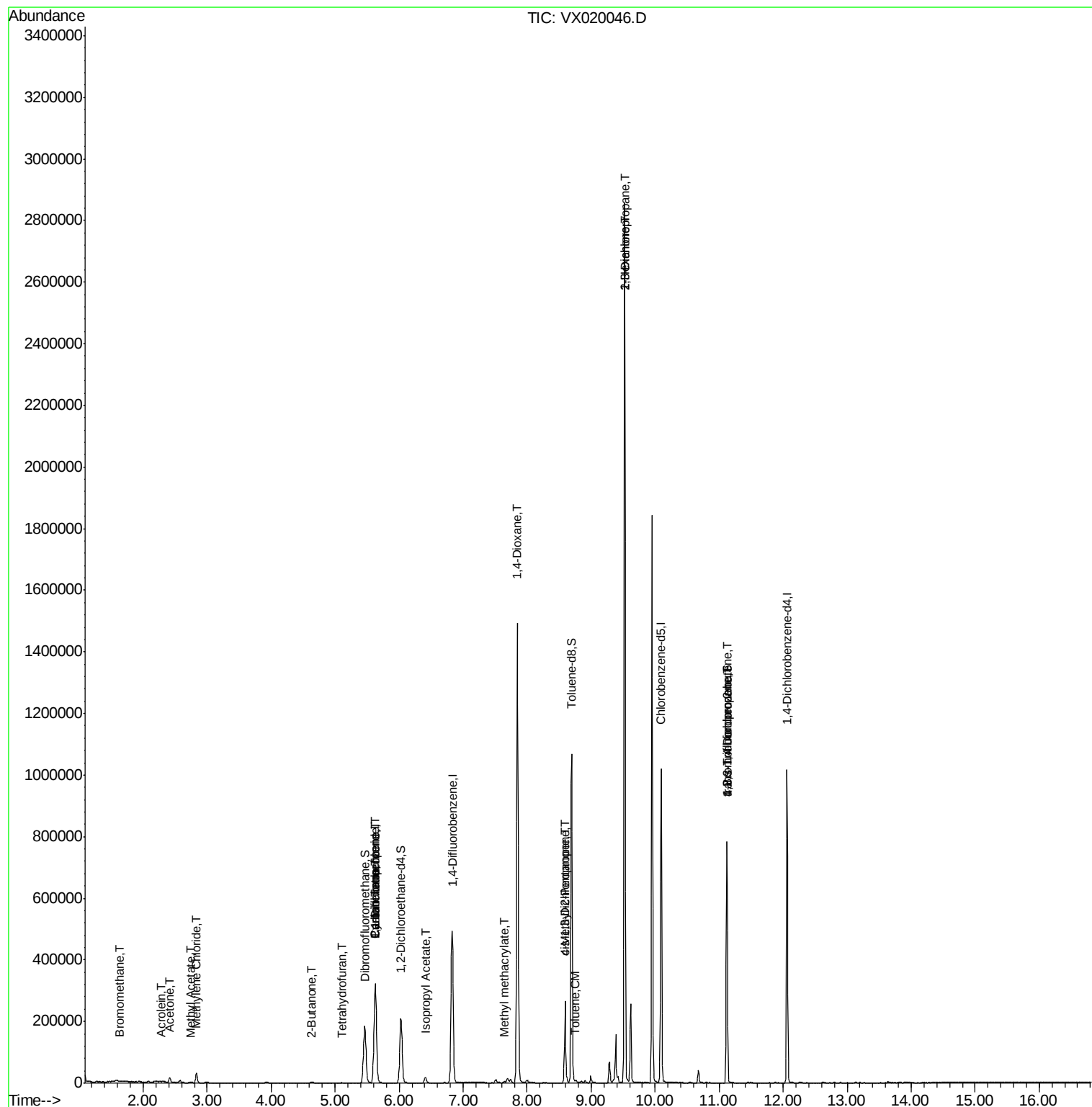
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	463	0.397	ug/l #	75
11) Tert butyl alcohol	2.99	59	1680	Below Cal	#	73
13) Acrolein	2.28	56	114	0.254	ug/l #	1
16) Acetone	2.42	43	17641	11.554	ug/l	97
18) Methyl Acetate	2.75	43	2847	0.762	ug/l #	83
20) Methylene Chloride	2.83	84	14715	2.881	ug/l	99
25) 2-Butanone	4.63	43	3509	1.496	ug/l	99
29) Tetrahydrofuran	5.10	42	349	0.231	ug/l #	75
31) Cyclohexane	5.62	56	5809	1.150	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24040	5.217	ug/l #	48
38) Carbon Tetrachloride	5.63	117	30122	6.676	ug/l #	17
43) Isopropyl Acetate	6.40	43	23547	3.113	ug/l	98
48) Methyl methacrylate	7.65	41	6958	1.871	ug/l #	10
49) 1,4-Dioxane	7.84	88	239	2.652	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	81785	17.711	ug/l #	47
52) Toluene	8.76	92	2282	0.259	ug/l	87
54) cis-1,3-Dichloropropene	8.59	75	42733	7.520	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	25356	4.186	ug/l #	43
59) 2-Hexanone	9.52	43	309298	86.412	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	106777	23.233	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	106777	67.162	ug/l #	12

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

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Quant Time: Dec 16 06:58:33 2020
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: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

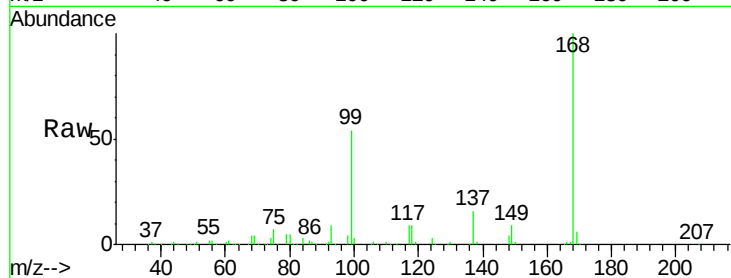
TR2-C-BOTTOM

Tgt Ion: 168 Resp: 309081

Ion Ratio Lower Upper

168 100

99 53.8 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

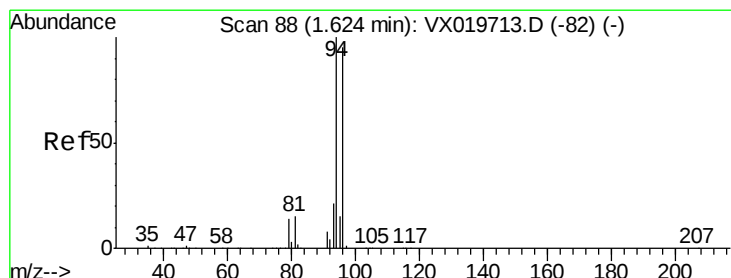
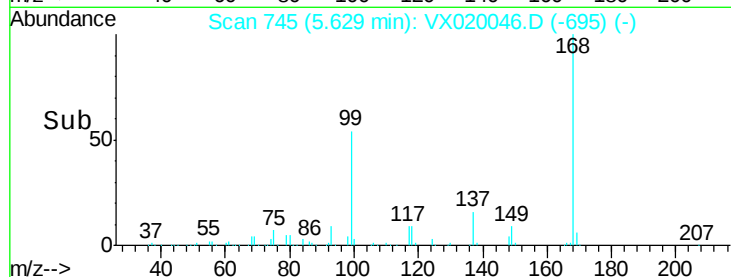
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.397 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020046.D

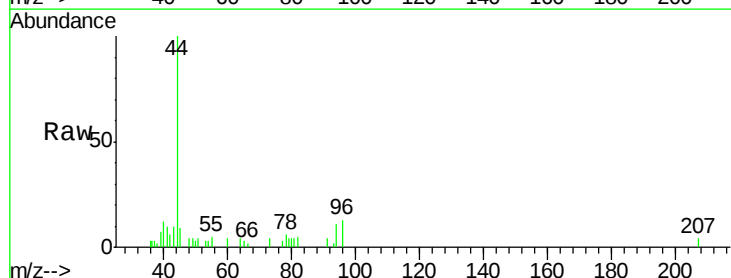
Acq: 16 Dec 2020 05:21

Tgt Ion: 94 Resp: 463

Ion Ratio Lower Upper

94 100

96 120.2 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

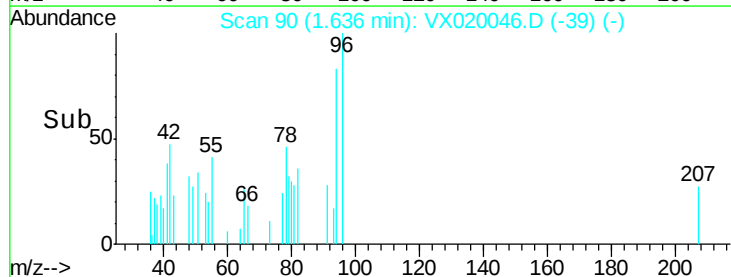
200

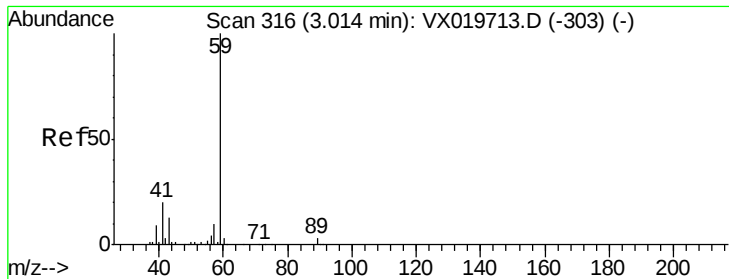
100

0

Time-->

1.60 1.65



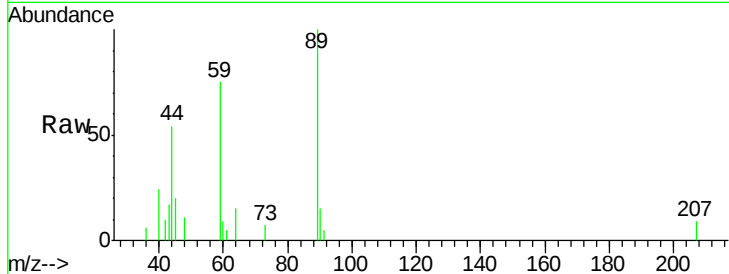


#11

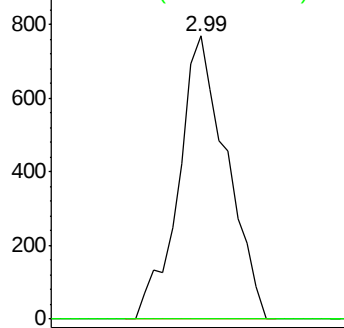
Tert butyl alcohol
 Concen: Below Cal
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX020046.D
 Acq: 16 Dec 2020 05:21

Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-C-BOTTOM

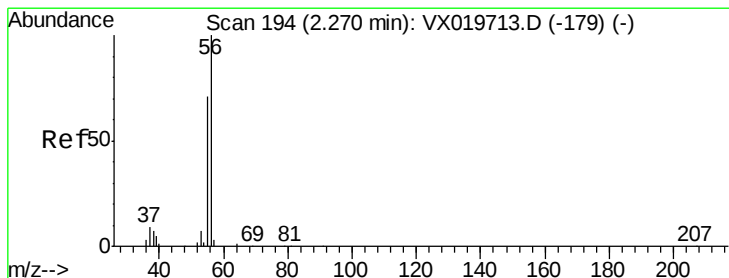
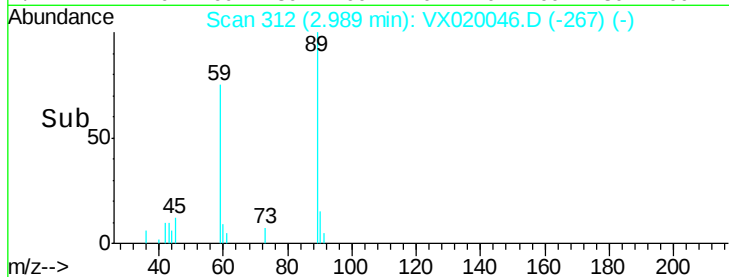
Tgt Ion: 59 Resp: 1680
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



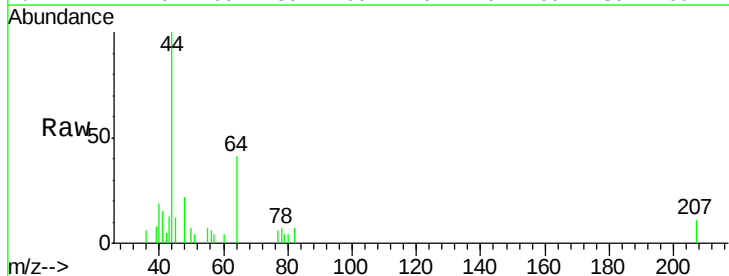
Time--> 2.90 2.95 3.00 3.05



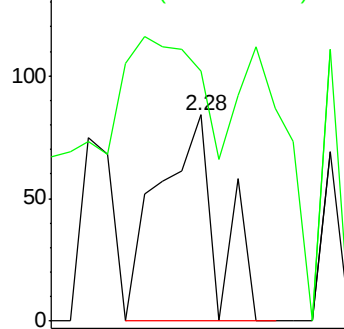
#13

Acrolein
 Concen: 0.254 ug/l
 RT: 2.28 min Scan# 196
 Delta R.T. 0.01 min
 Lab File: VX020046.D
 Acq: 16 Dec 2020 05:21

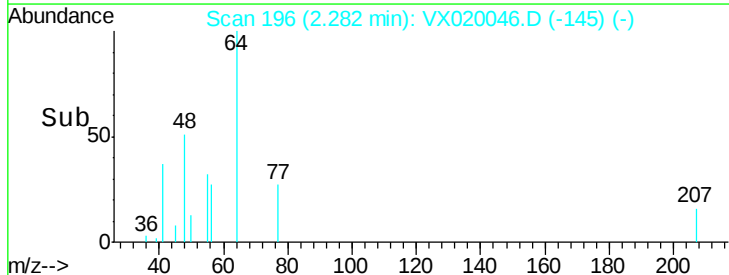
Tgt Ion: 56 Resp: 114
 Ion Ratio Lower Upper
 56 100
 55 196.5 56.4 84.6#

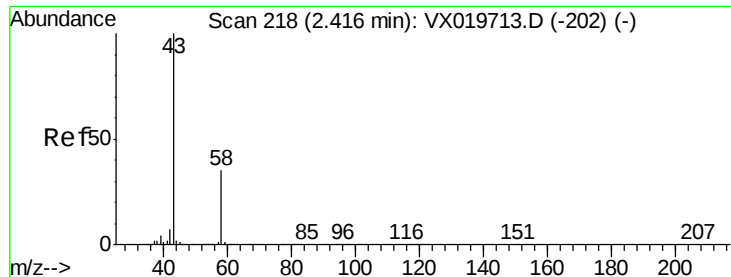


Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0



Time--> 2.24 2.26 2.28 2.30 2.32





#16

Acetone

Concen: 11.554 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

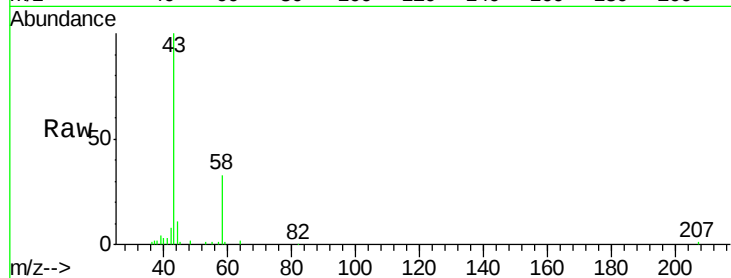
TR2-C-BOTTOM

Tgt Ion: 43 Resp: 17641

Ion Ratio Lower Upper

43 100

58 32.9 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

12000

10000

8000

6000

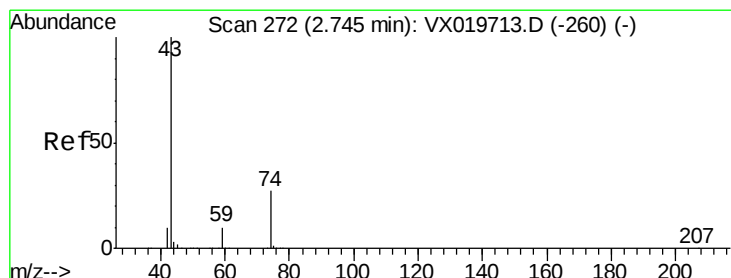
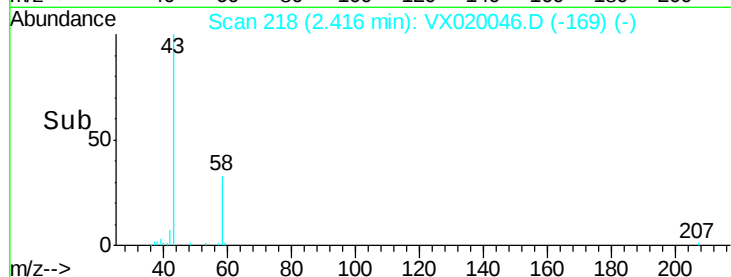
4000

2000

0

2.35 2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 0.762 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX020046.D

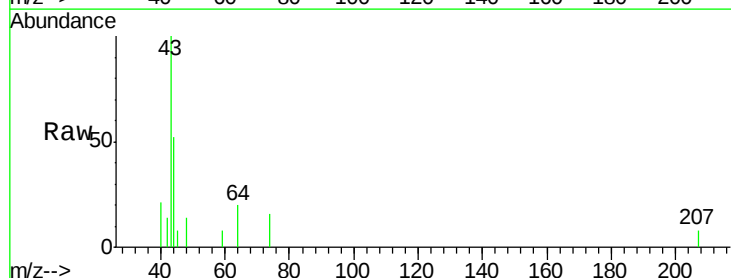
Acq: 16 Dec 2020 05:21

Tgt Ion: 43 Resp: 2847

Ion Ratio Lower Upper

43 100

74 18.8 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1200

1000

800

600

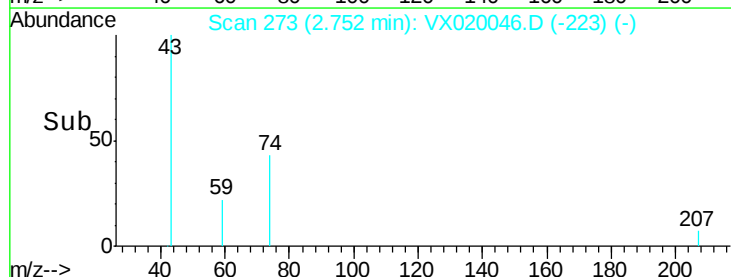
400

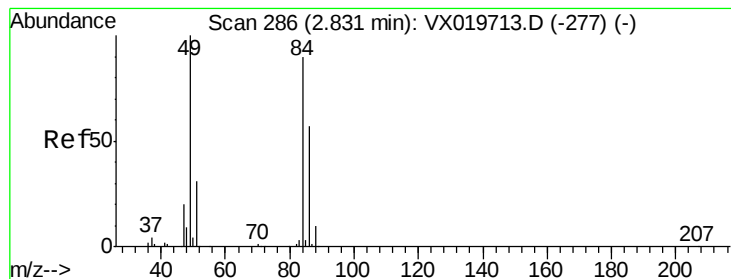
200

0

2.70 2.75 2.80

Time-->





#20

Methylene Chloride

Concen: 2.881 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-BOTTOM

Tgt Ion: 84 Resp: 14715

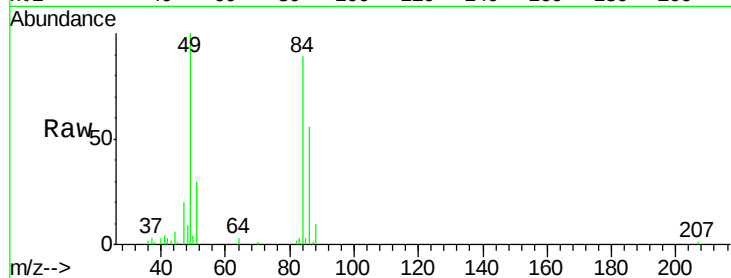
Ion Ratio Lower Upper

84 100

49 112.0 88.6 132.8

51 33.4 27.0 40.6

86 63.2 50.3 75.5

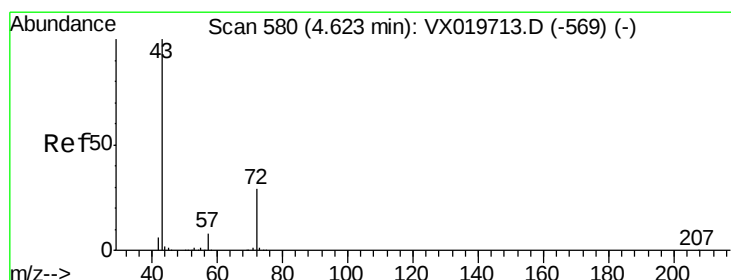
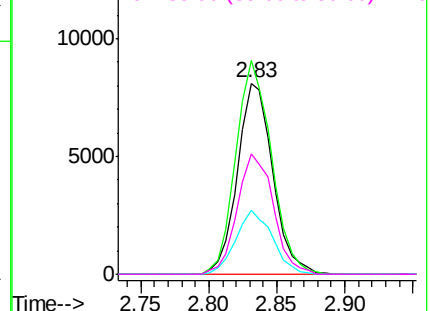
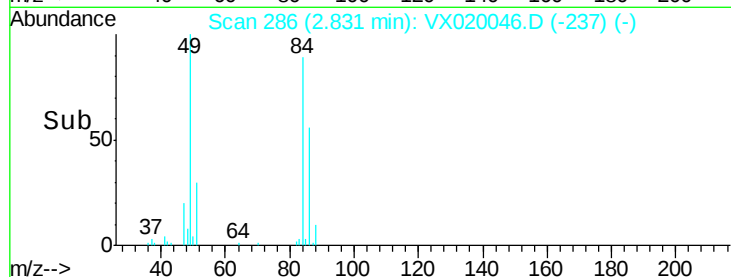


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.496 ug/l

RT: 4.63 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX020046.D

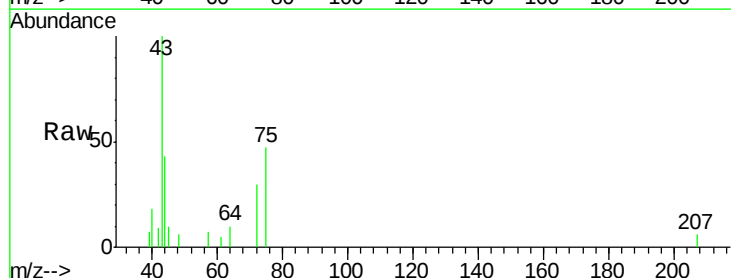
Acq: 16 Dec 2020 05:21

Tgt Ion: 43 Resp: 3509

Ion Ratio Lower Upper

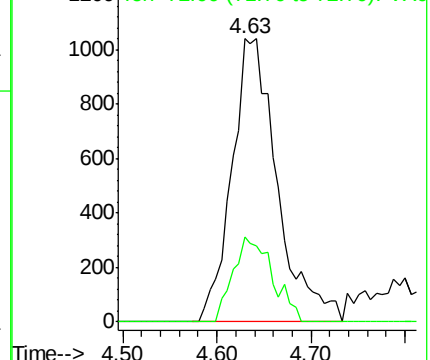
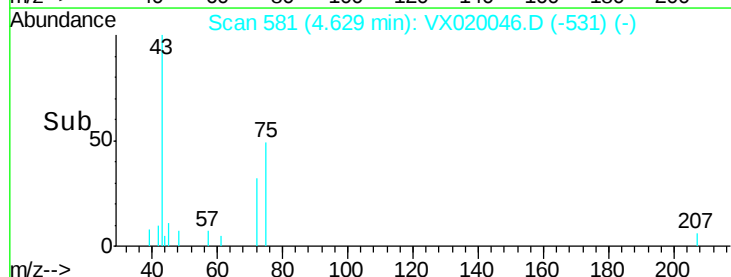
43 100

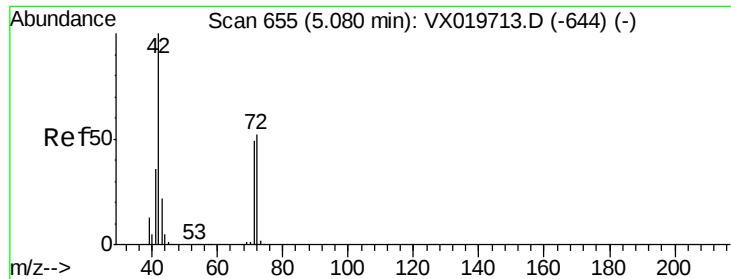
72 30.1 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

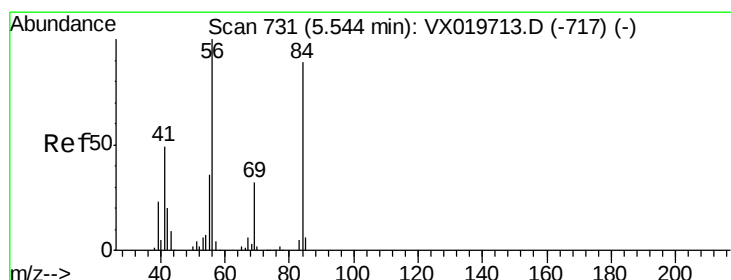
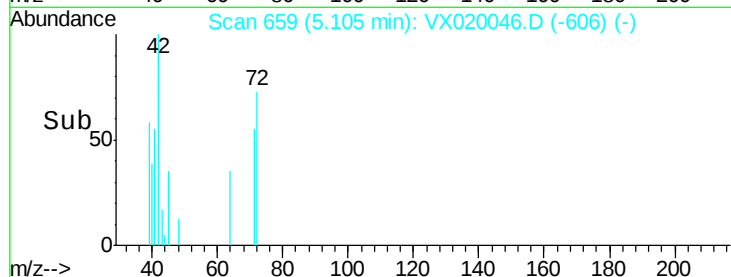
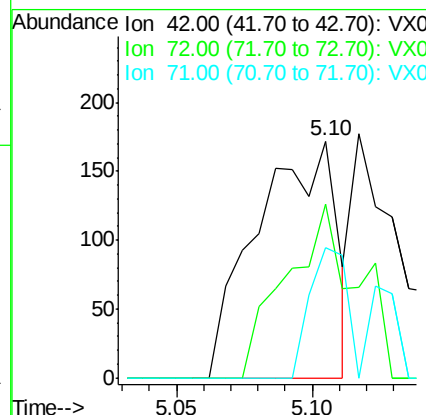
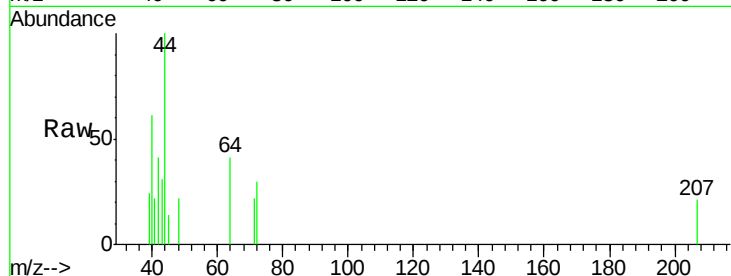




#29
Tetrahydrofuran
Concen: 0.231 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX020046.D
Acq: 16 Dec 2020 05:21

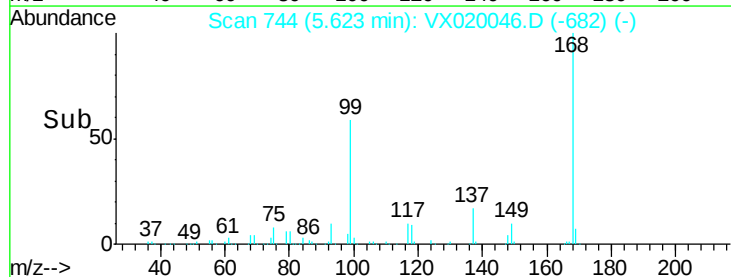
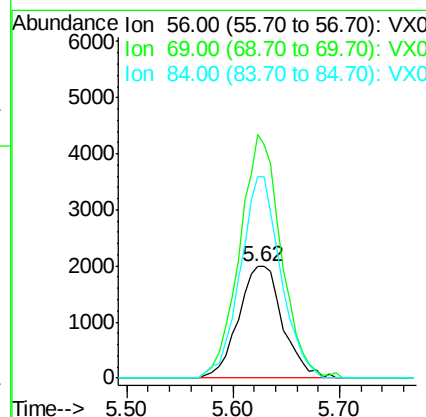
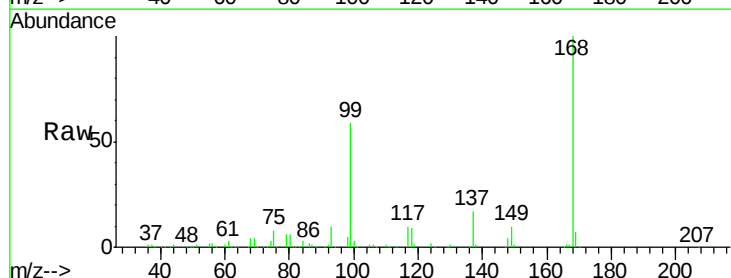
Instrument :
MSVOA_X
ClientSampleId :
TR2-C-BOTTOM

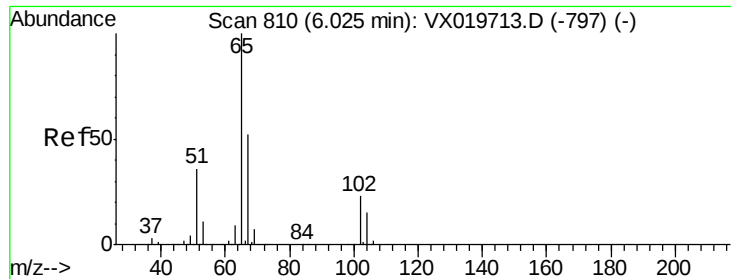
Tgt Ion: 42 Resp: 349
Ion Ratio Lower Upper
42 100
72 64.8 41.7 62.5#
71 25.5 38.4 57.6#



#31
Cyclohexane
Concen: 1.150 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX020046.D
Acq: 16 Dec 2020 05:21

Tgt Ion: 56 Resp: 5809
Ion Ratio Lower Upper
56 100
69 218.5 25.3 37.9#
84 180.3 71.4 107.0#

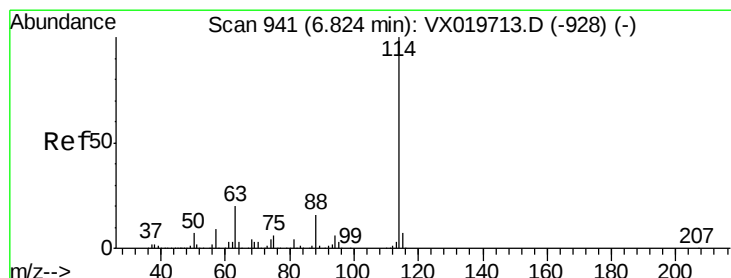
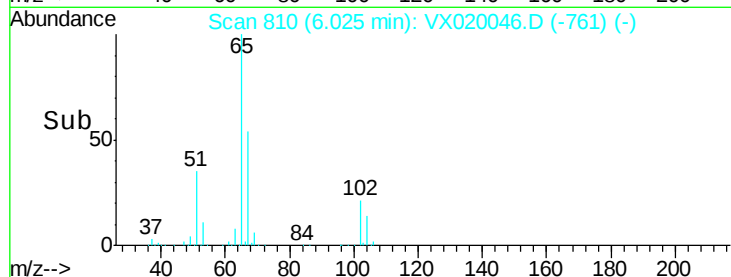
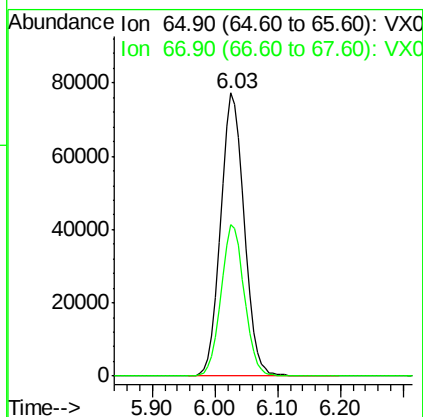
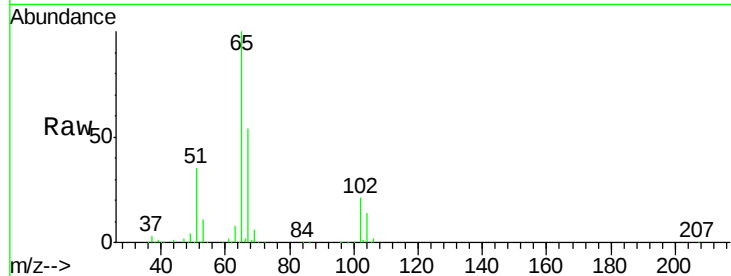




#33
 1,2-Dichloroethane-d4
 Concen: 49.508 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX020046.D
 Acq: 16 Dec 2020 05:21

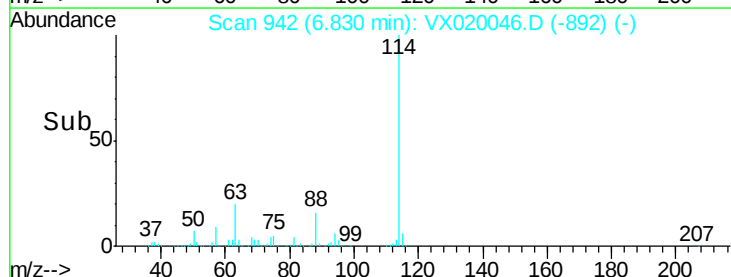
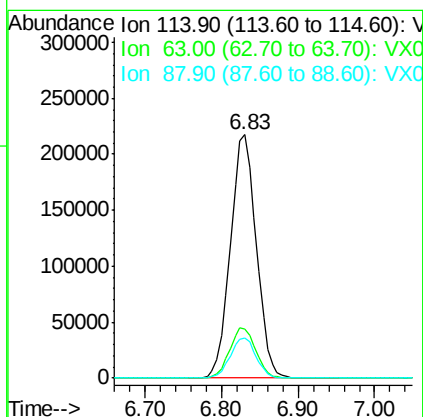
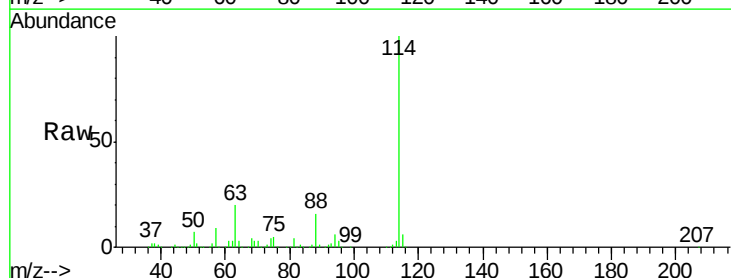
Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-C-BOTTOM

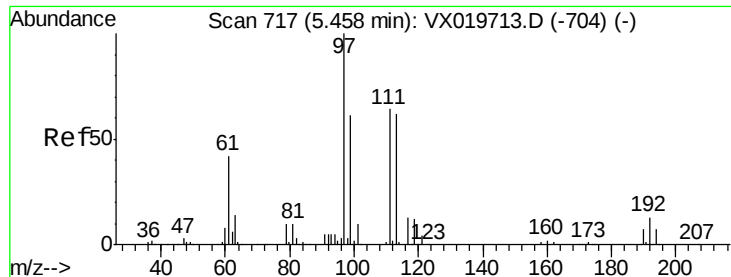
Tgt Ion: 65 Resp: 201113
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020046.D
 Acq: 16 Dec 2020 05:21

Tgt Ion: 114 Resp: 509896
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.8
 88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.966 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-BOTTOM

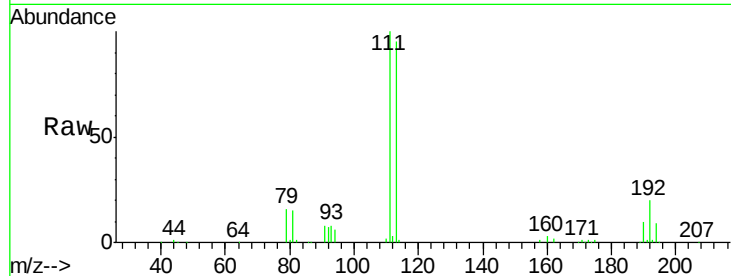
Tgt Ion:113 Resp: 161362

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

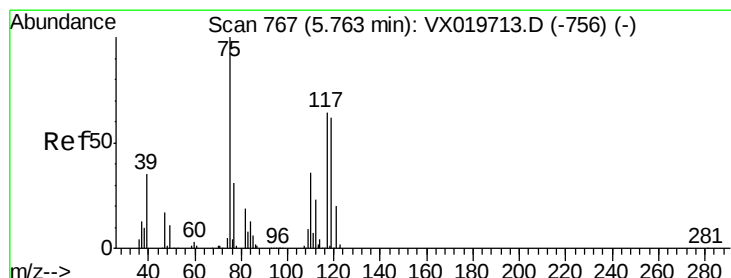
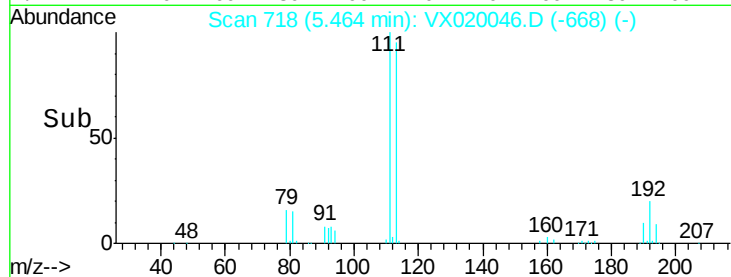
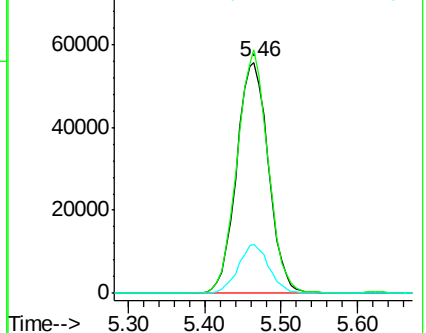
192 20.4 16.7 25.1



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: 5.217 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

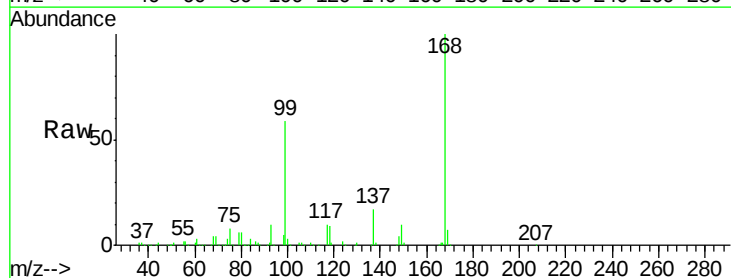
Tgt Ion: 75 Resp: 24040

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.4#

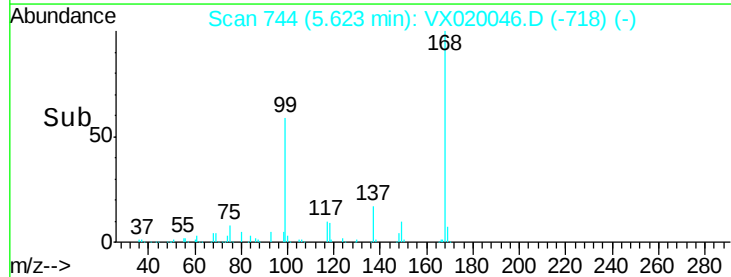
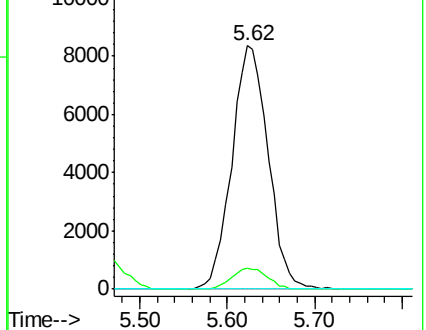
77 0.0 25.3 37.9#

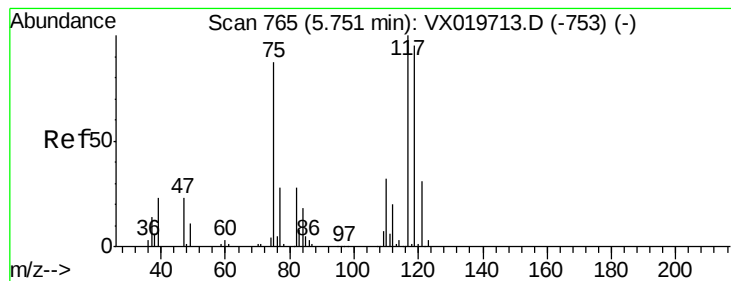


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.676 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-BOTTOM

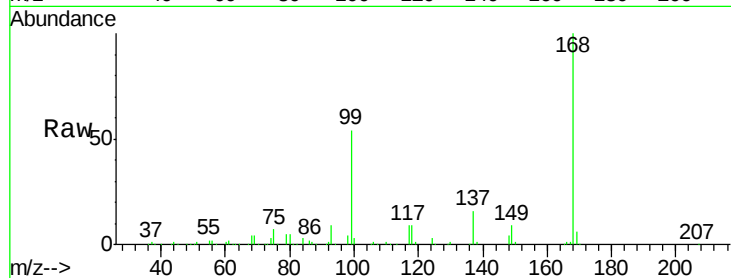
Tgt Ion: 117 Resp: 30122

Ion Ratio Lower Upper

117 100

119 5.7 76.2 114.2#

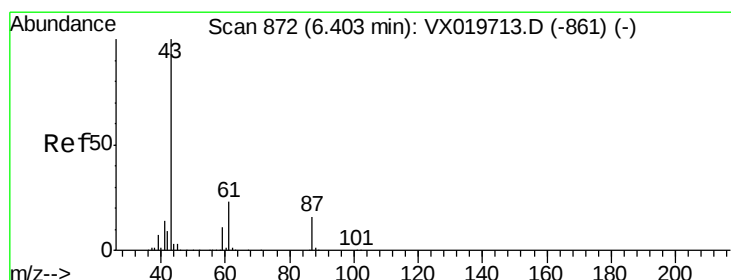
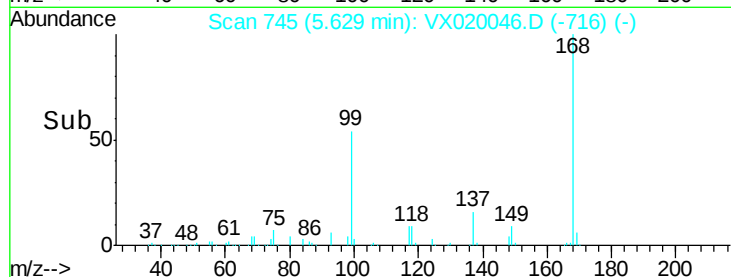
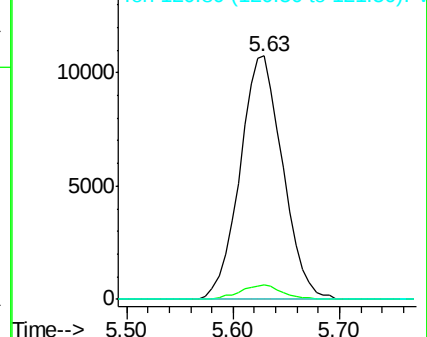
121 0.0 24.8 37.2#



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: 3.113 ug/l

RT: 6.40 min Scan# 872

Delta R.T. 0.00 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

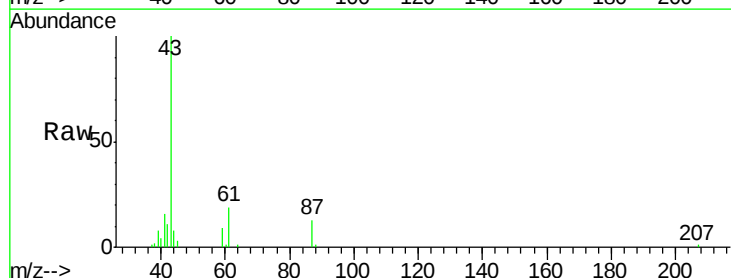
Tgt Ion: 43 Resp: 23547

Ion Ratio Lower Upper

43 100

61 21.8 18.2 27.4

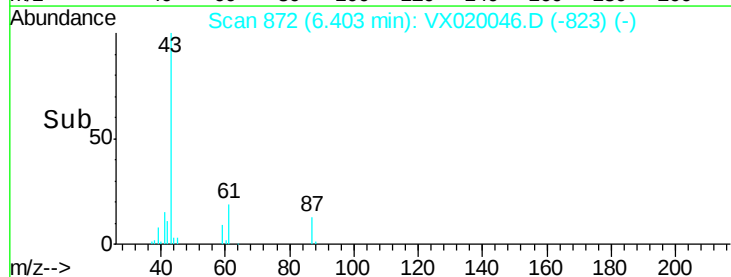
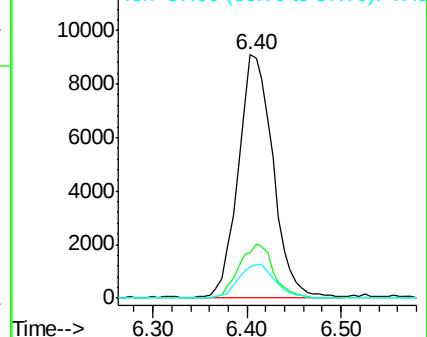
87 14.4 12.5 18.7

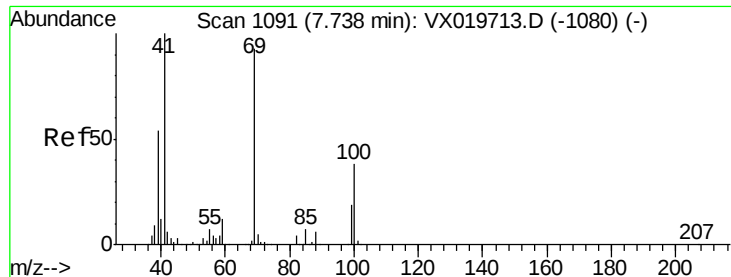


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

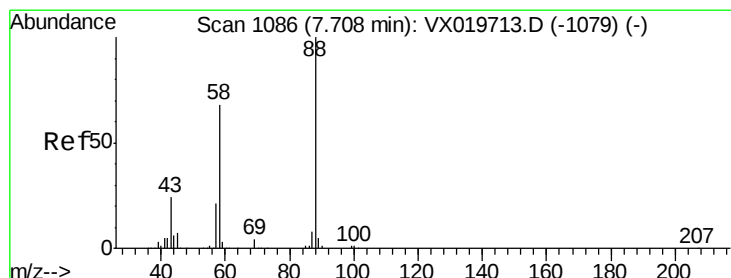
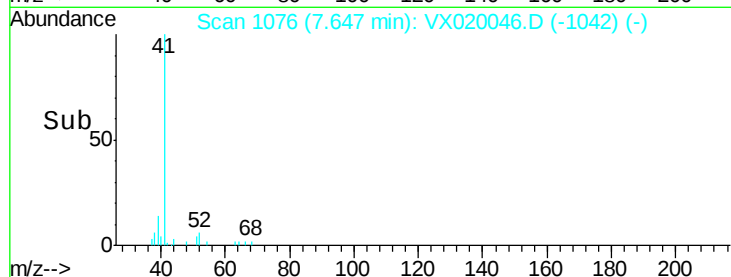
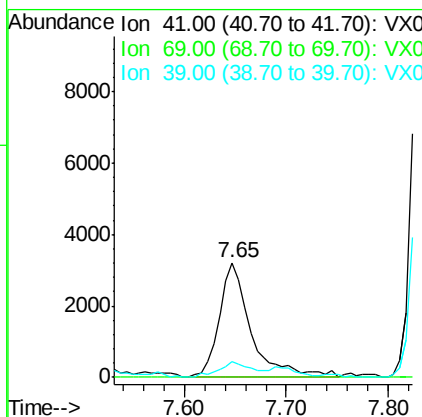
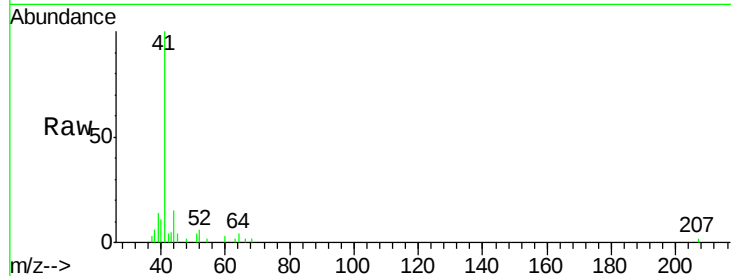




#48
Methyl methacrylate
Concen: 1.871 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX020046.D
Acq: 16 Dec 2020 05:21

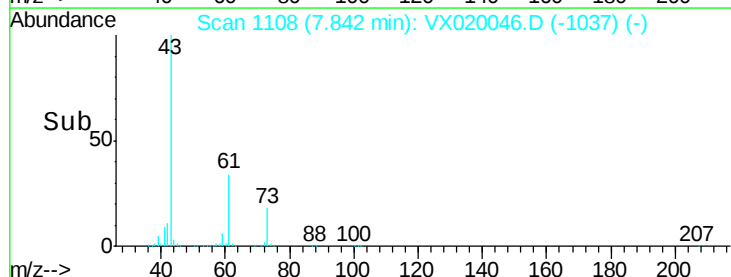
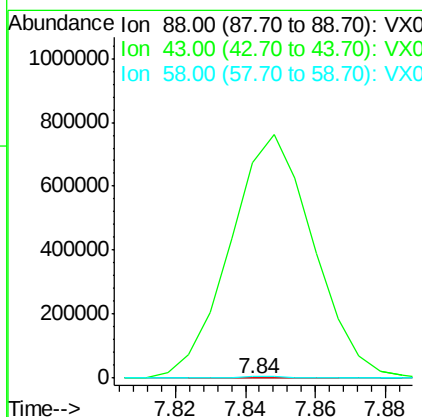
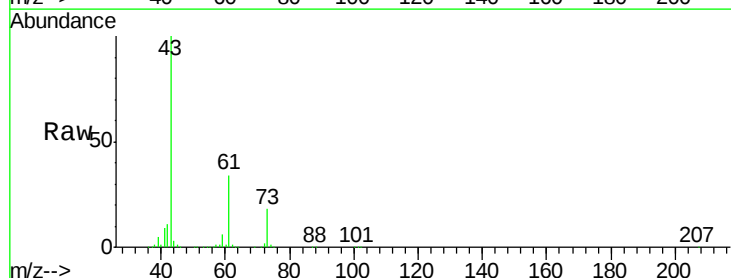
Instrument :
MSVOA_X
ClientSampleId :
TR2-C-BOTTOM

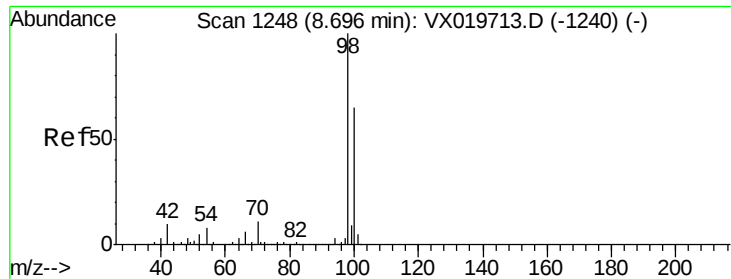
Tgt Ion: 41 Resp: 6958
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.652 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VX020046.D
Acq: 16 Dec 2020 05:21

Tgt Ion: 88 Resp: 239
Ion Ratio Lower Upper
88 100
43 534891.2 23.2 34.8#
58 2806.7 55.0 82.4#

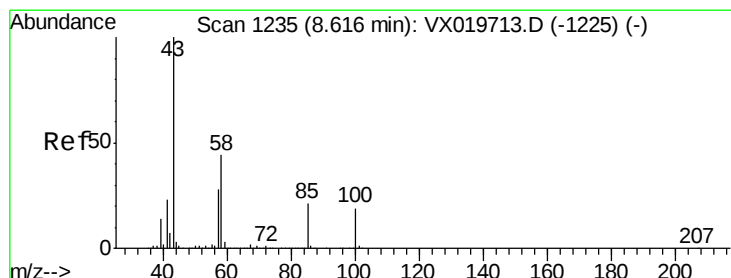
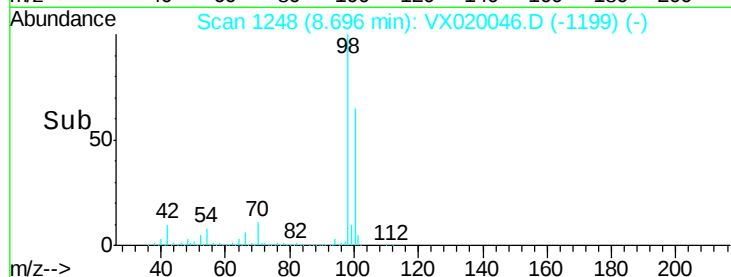
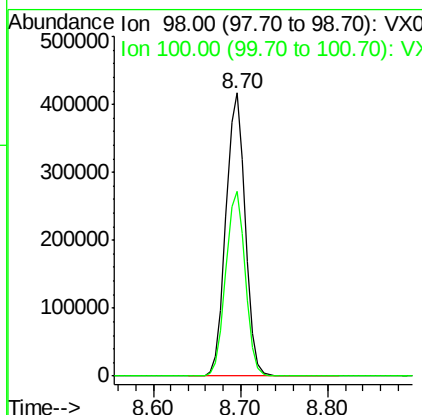
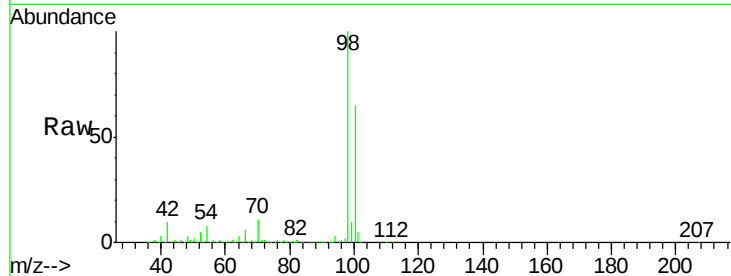




#50
Toluene-d8
Concen: 50.646 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX020046.D
Acq: 16 Dec 2020 05:21

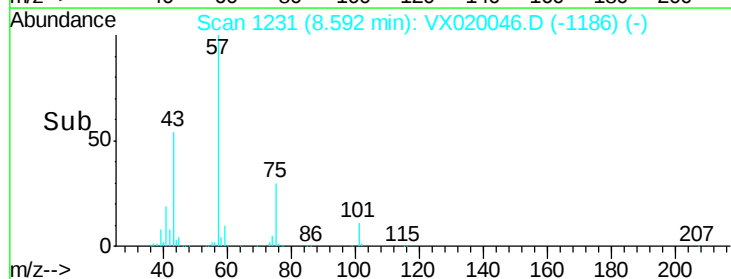
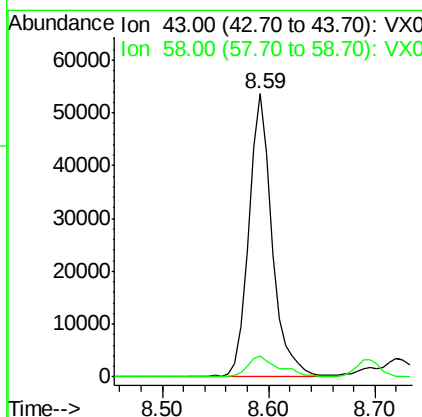
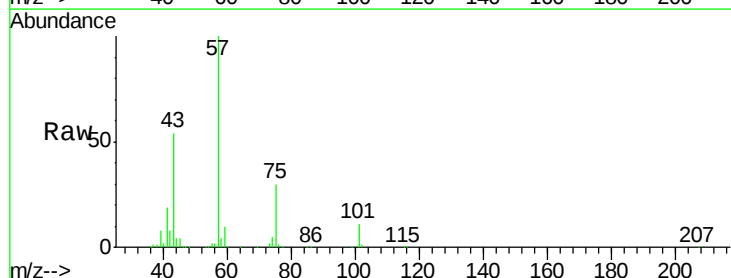
Instrument :
MSVOA_X
ClientSampleId :
TR2-C-BOTTOM

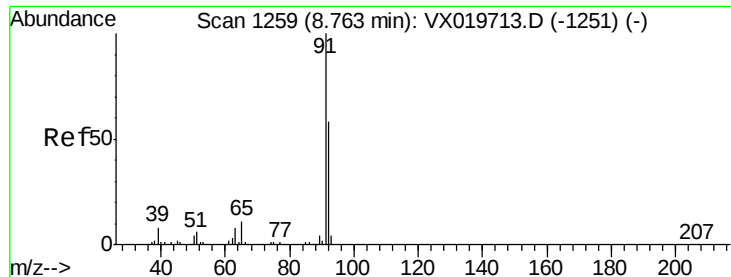
Tgt Ion: 98 Resp: 637168
Ion Ratio Lower Upper
98 100
100 65.9 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 17.711 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX020046.D
Acq: 16 Dec 2020 05:21

Tgt Ion: 43 Resp: 81785
Ion Ratio Lower Upper
43 100
58 9.8 35.4 53.0#





#52

Toluene

Concen: 0.259 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

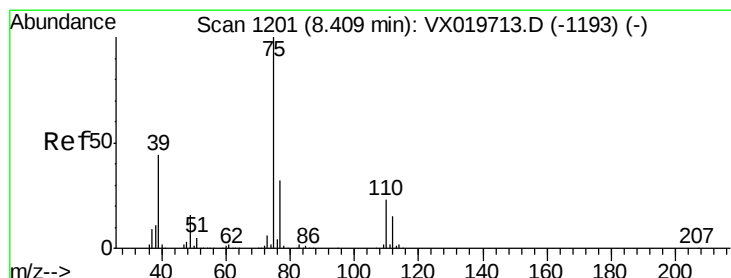
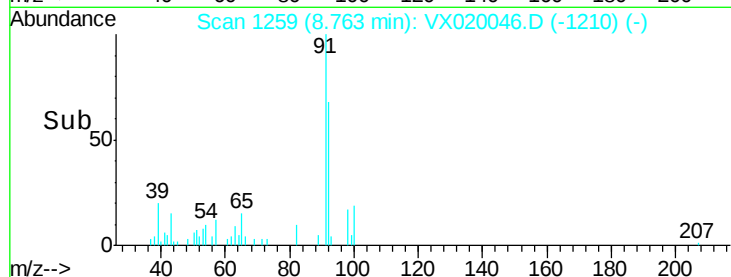
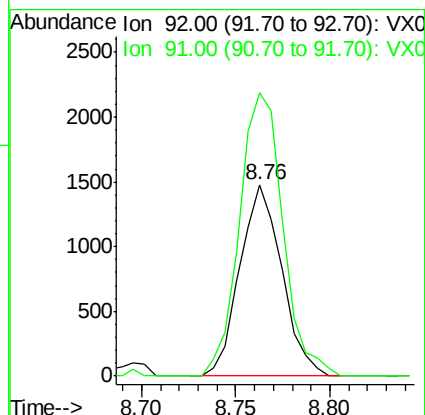
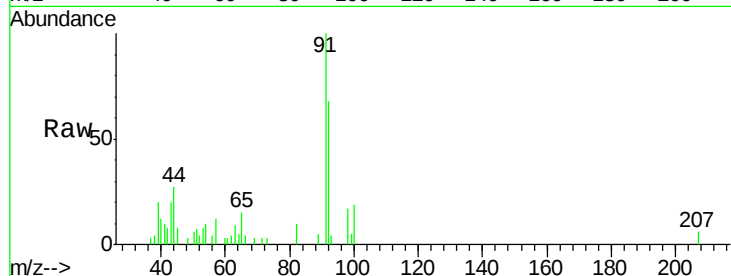
TR2-C-BOTTOM

Tgt Ion: 92 Resp: 2282

Ion Ratio Lower Upper

92 100

91 153.3 137.1 205.7



#54

cis-1,3-Dichloropropene

Concen: 7.520 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

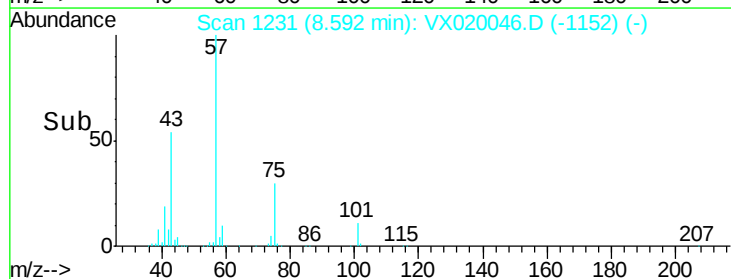
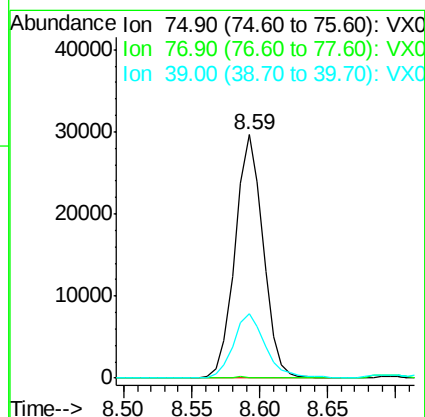
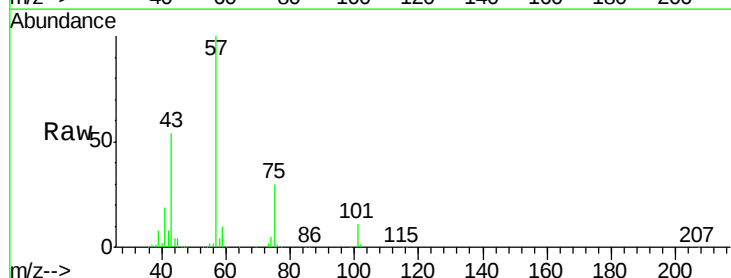
Tgt Ion: 75 Resp: 42733

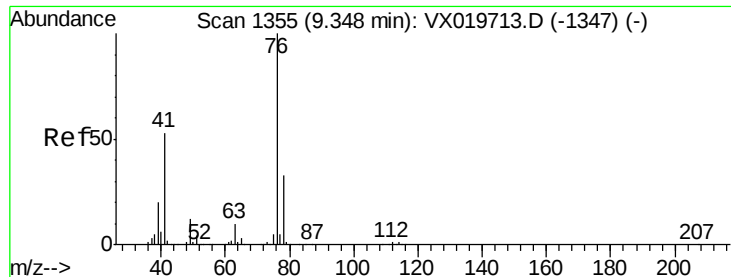
Ion Ratio Lower Upper

75 100

77 0.4 25.7 38.5#

39 26.1 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.186 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

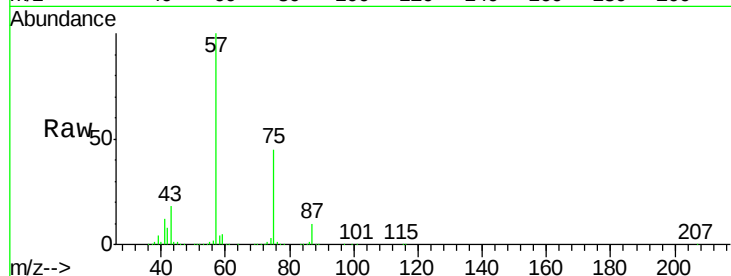
TR2-C-BOTTOM

Tgt Ion: 76 Resp: 25356

Ion Ratio Lower Upper

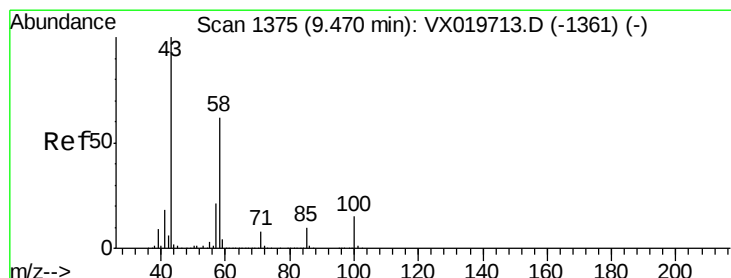
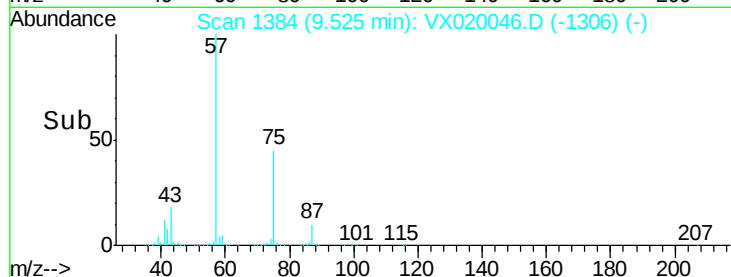
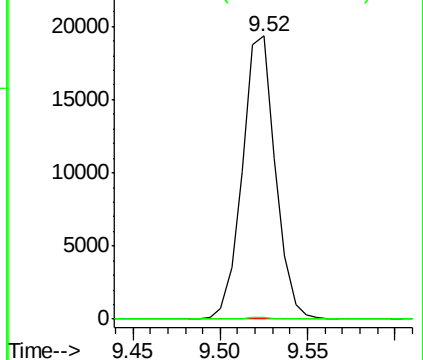
76 100

78 0.5 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: 86.412 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX020046.D

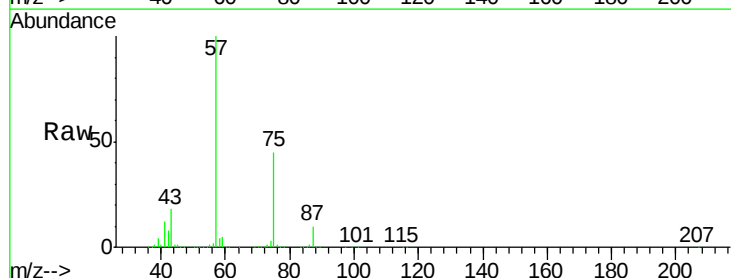
Acq: 16 Dec 2020 05:21

Tgt Ion: 43 Resp: 309298

Ion Ratio Lower Upper

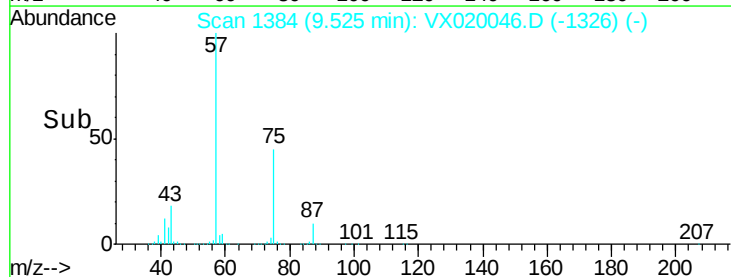
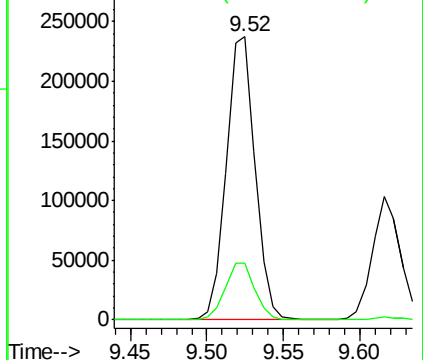
43 100

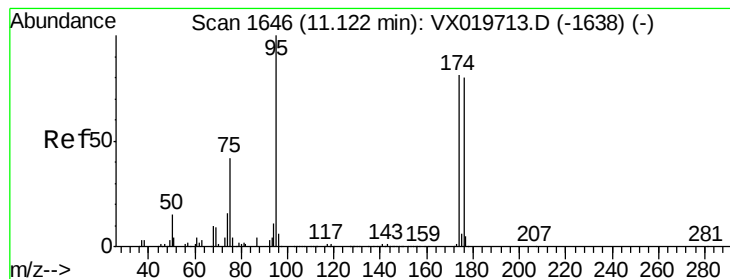
58 20.6 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.996 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-BOTTOM

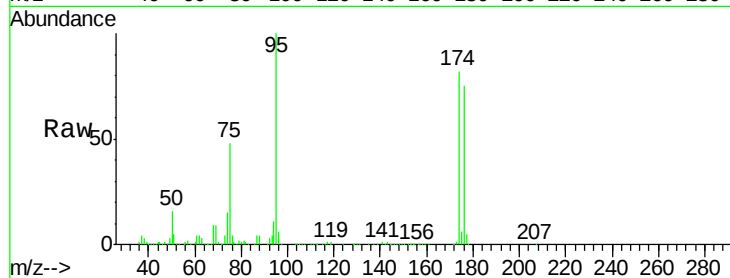
Tgt Ion: 95 Resp: 220248

Ion Ratio Lower Upper

95 100

174 77.3 0.0 154.6

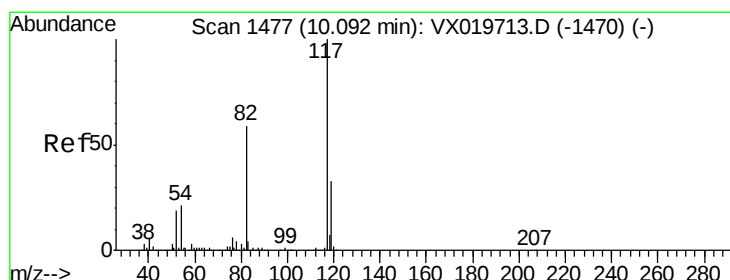
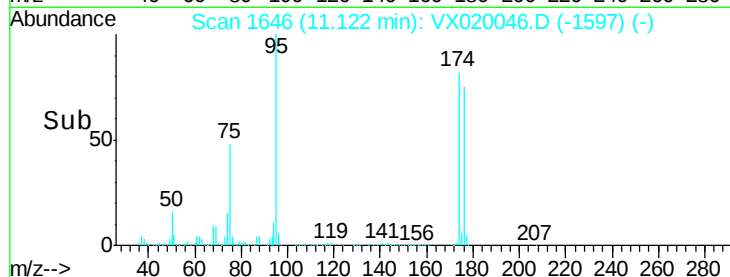
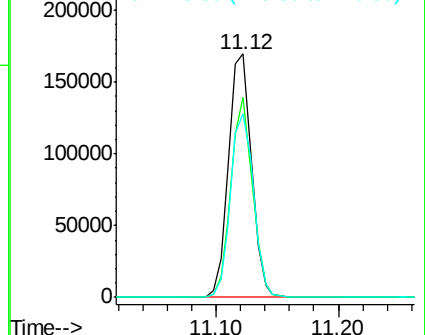
176 75.3 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

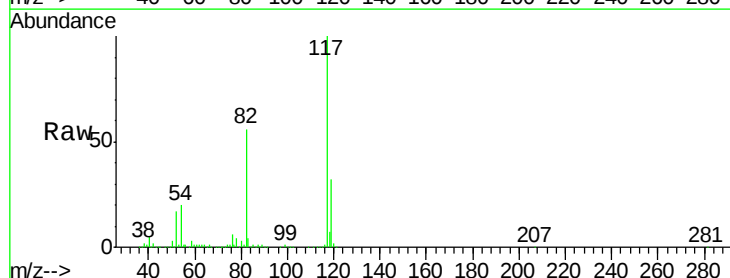
Tgt Ion: 117 Resp: 482334

Ion Ratio Lower Upper

117 100

82 55.5 47.4 71.2

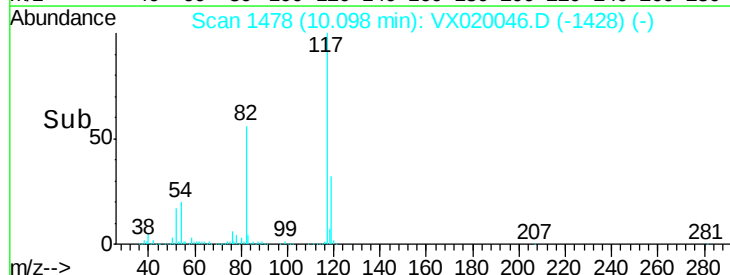
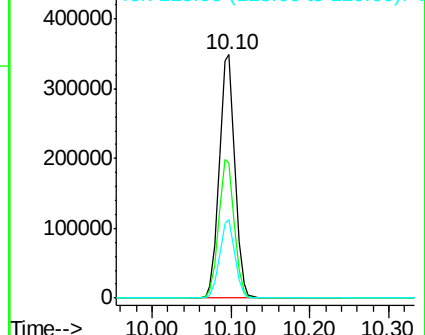
119 32.2 26.6 39.8

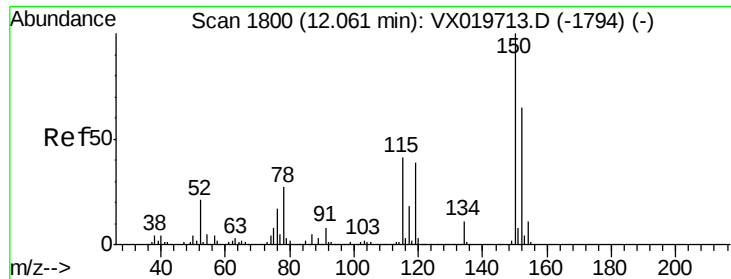


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-BOTTOM

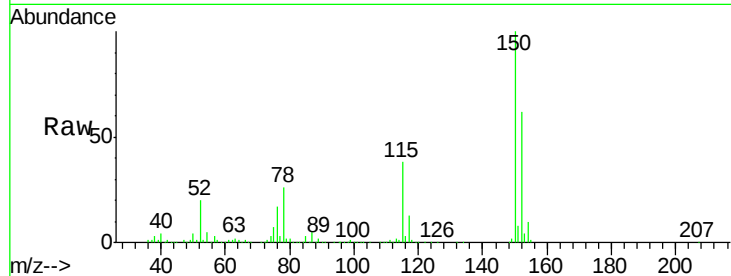
Tgt Ion:152 Resp: 204917

Ion Ratio Lower Upper

152 100

115 61.2 41.1 123.3

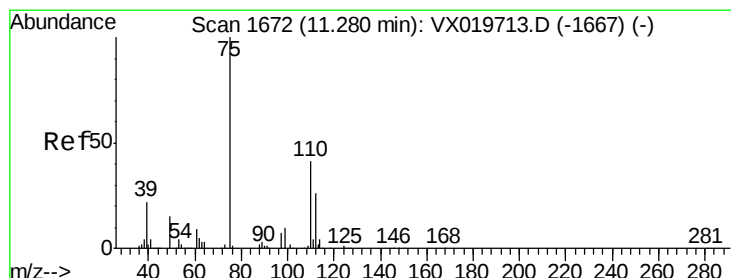
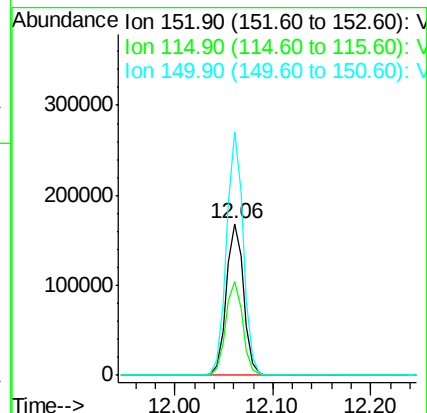
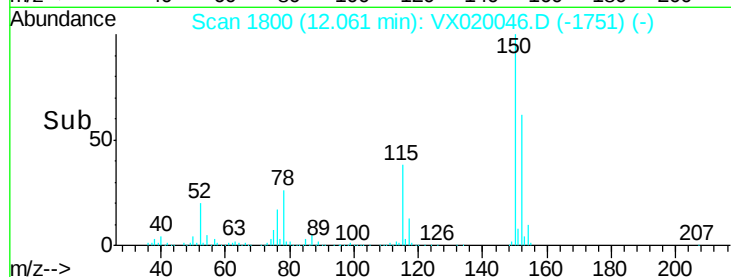
150 155.8 0.0 349.0



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: 23.233 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020046.D

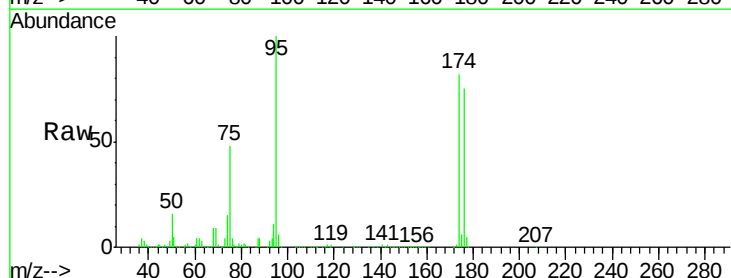
Acq: 16 Dec 2020 05:21

Tgt Ion: 75 Resp: 106777

Ion Ratio Lower Upper

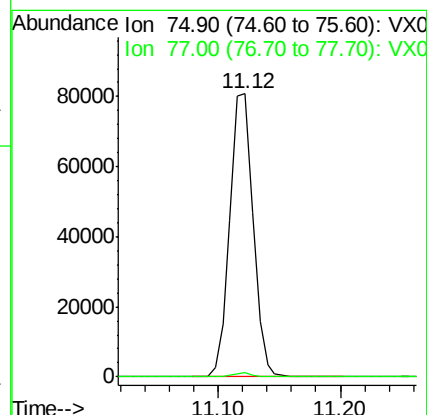
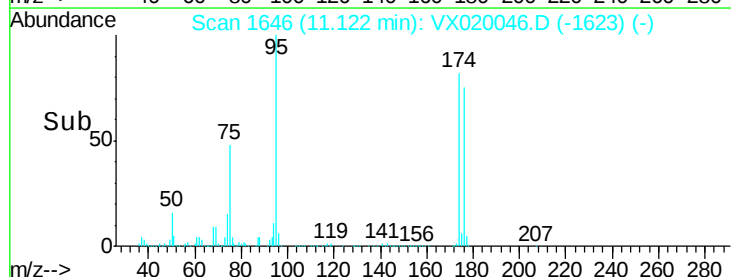
75 100

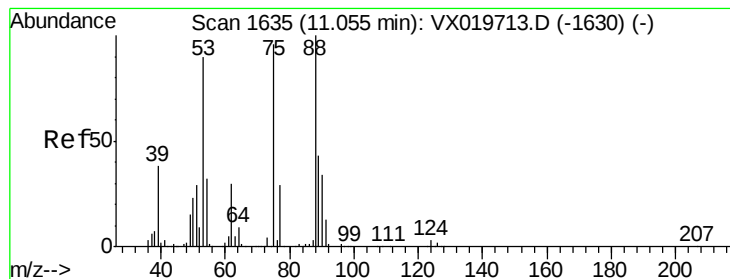
77 1.3 19.1 57.5#



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: 67.162 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020046.D

Acq: 16 Dec 2020 05:21

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-BOTTOM

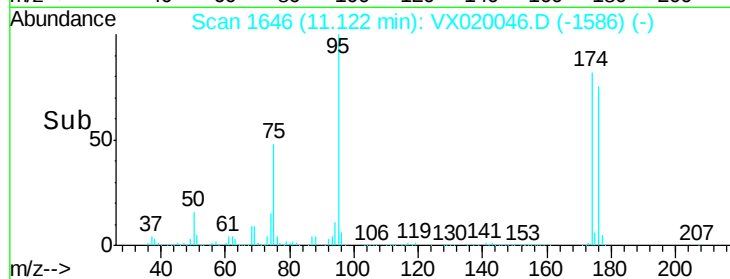
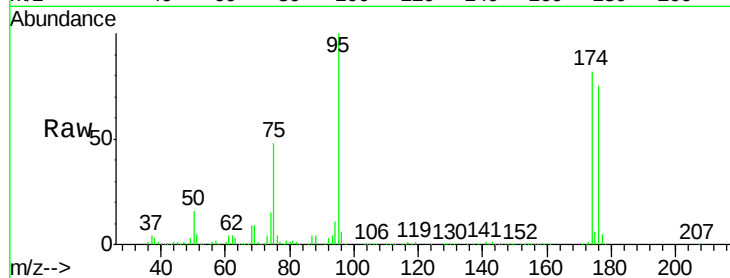
Tgt Ion: 75 Resp: 106777

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



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

