

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020044.D
 Acq On : 16 Dec 2020 04:34
 Operator : JC/MD
 Sample : L5088-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-B-BOTTOM

Quant Time: Dec 16 05:11:53 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	309907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	517679	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	489161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	213438	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	200360	49.19	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.38%	
35) Dibromofluoromethane		5.46	113	162103	48.45	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.90%	
50) Toluene-d8		8.70	98	635736	49.77	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.54%	
62) 4-Bromofluorobenzene		11.12	95	225568	46.40	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.80%	

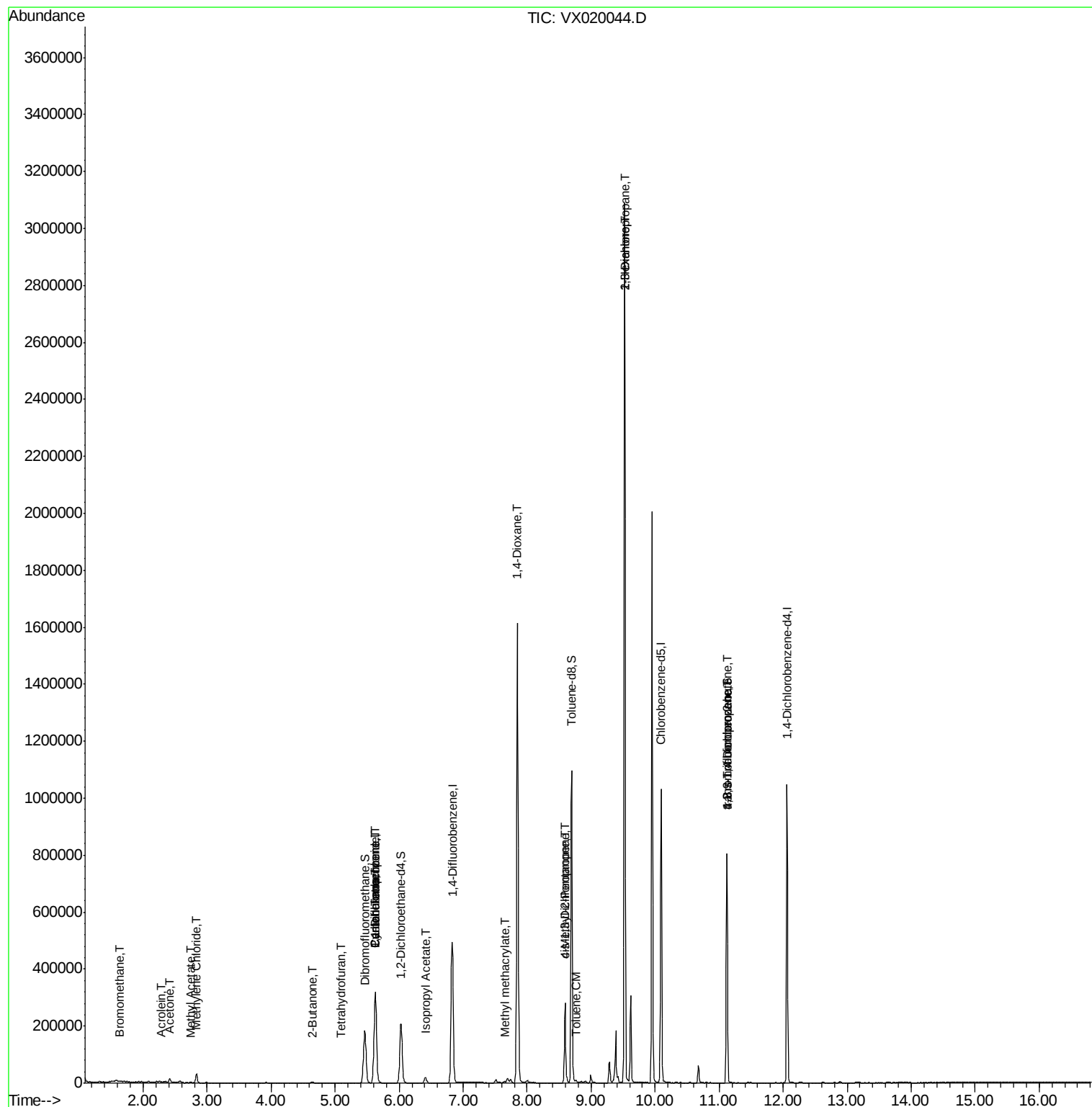
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	511	0.437	ug/l #	69
11) Tert butyl alcohol	3.00	59	747	Below Cal	#	73
13) Acrolein	2.28	56	137	0.305	ug/l #	31
16) Acetone	2.42	43	14298	9.339	ug/l	94
18) Methyl Acetate	2.75	43	2849	0.760	ug/l #	84
20) Methylene Chloride	2.83	84	14371	2.768	ug/l	93
25) 2-Butanone	4.64	43	3601	1.531	ug/l	95
29) Tetrahydrofuran	5.09	42	691	0.456	ug/l #	57
31) Cyclohexane	5.63	56	5935	1.171	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23160	4.951	ug/l #	48
38) Carbon Tetrachloride	5.62	117	30461	6.650	ug/l #	17
43) Isopropyl Acetate	6.41	43	24609	3.205	ug/l	98
48) Methyl methacrylate	7.65	41	6453	1.709	ug/l #	10
49) 1,4-Dioxane	7.85	88	301	3.290	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	86009	18.346	ug/l #	47
52) Toluene	8.76	92	1891	0.212	ug/l	83
54) cis-1,3-Dichloropropene	8.59	75	45275	7.847	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	27322	4.443	ug/l #	43
59) 2-Hexanone	9.52	43	334360	92.009	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	110287	23.039	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	110287	66.601	ug/l #	12

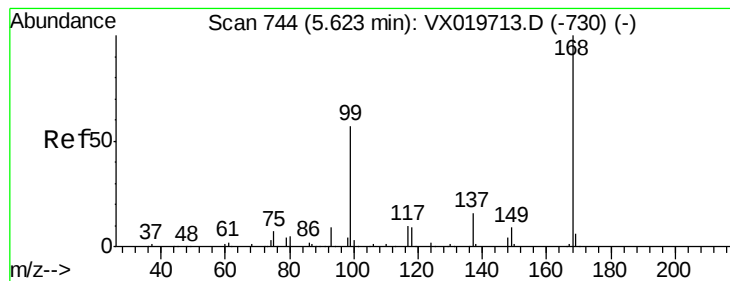
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
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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: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

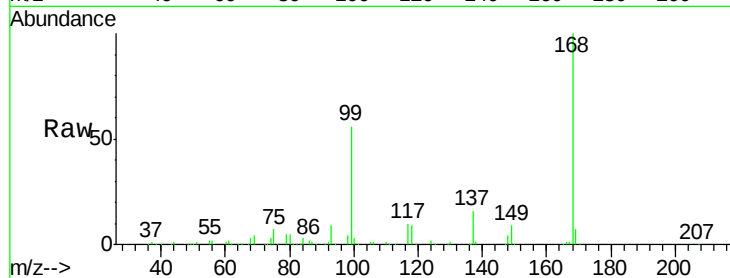
Instrument :
MSVOA_X
ClientSampleId :
TR1-B-BOTTOM

Tgt Ion: 168 Resp: 309907

Ion Ratio Lower Upper

168 100

99 56.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

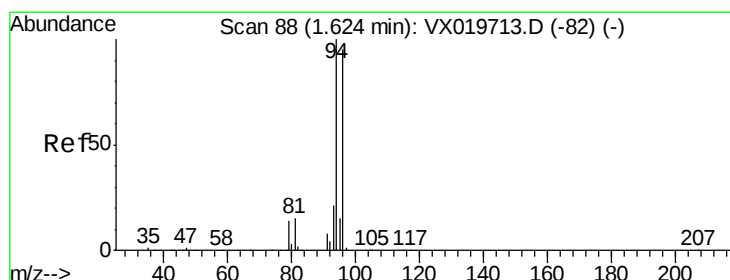
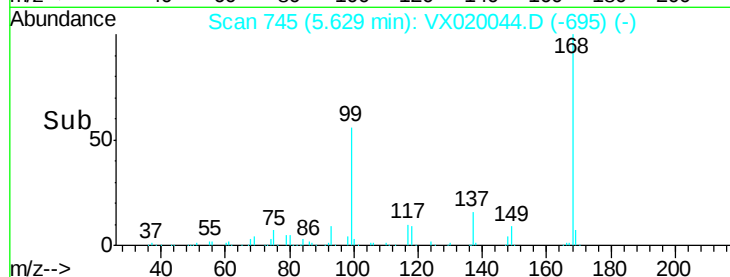
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.437 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020044.D

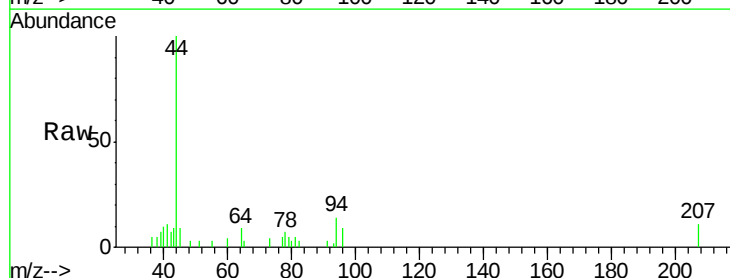
Acq: 16 Dec 2020 04:34

Tgt Ion: 94 Resp: 511

Ion Ratio Lower Upper

94 100

96 65.5 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

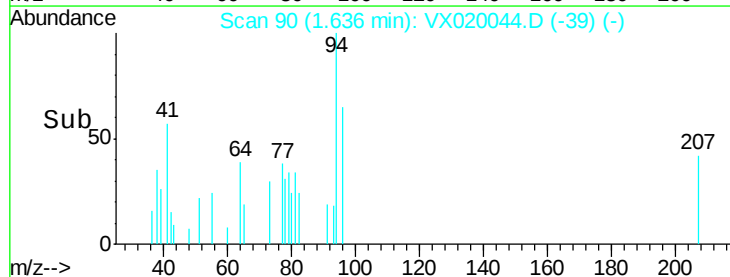
300

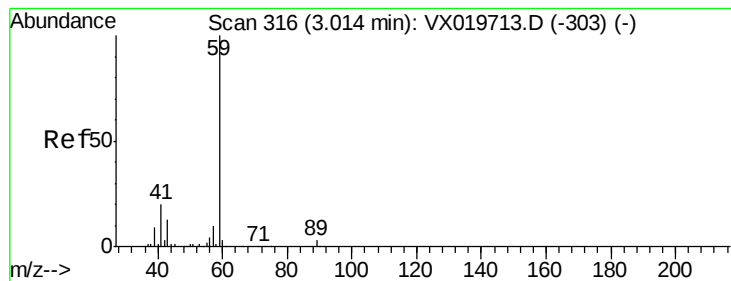
200

100

0

Time-->



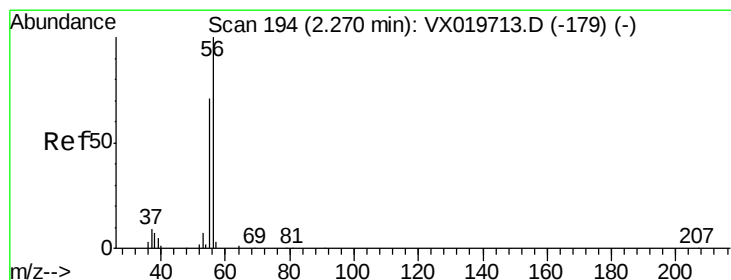
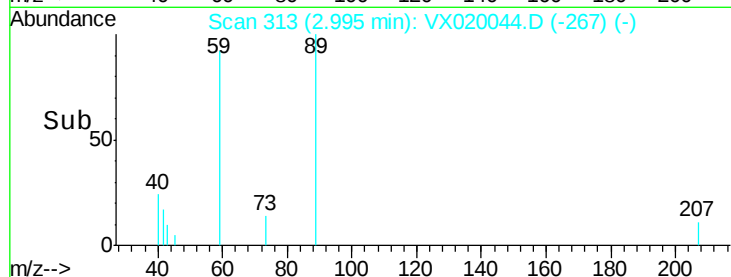
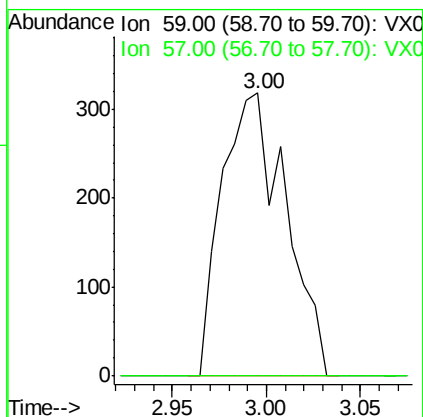
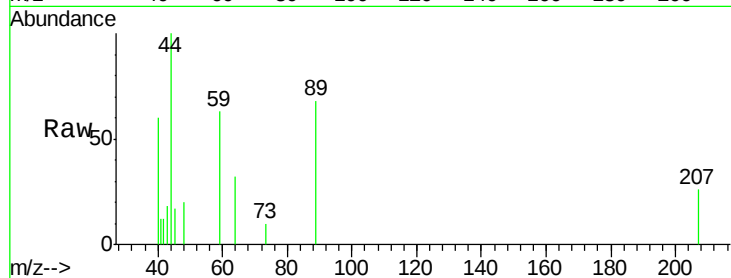


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX020044.D
 Acq: 16 Dec 2020 04:34

Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-B-BOTTOM

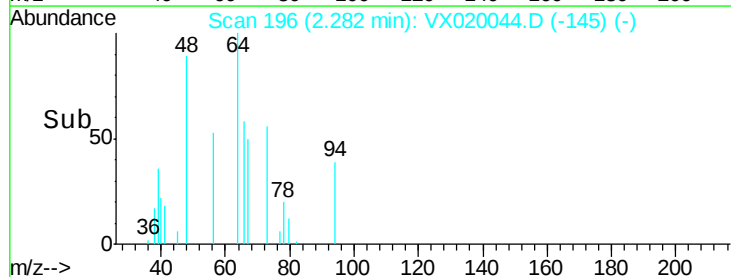
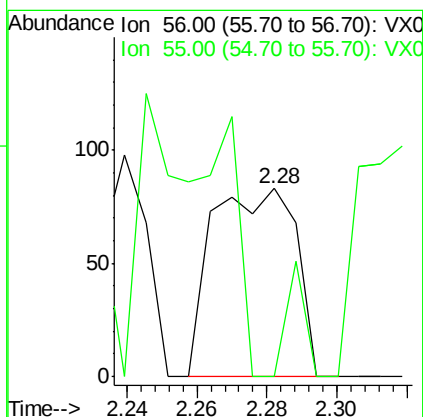
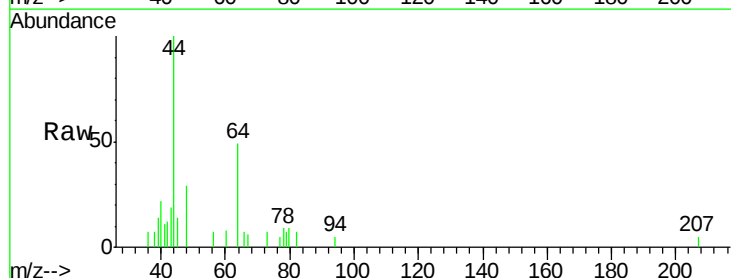
Tgt Ion: 59 Resp: 747
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

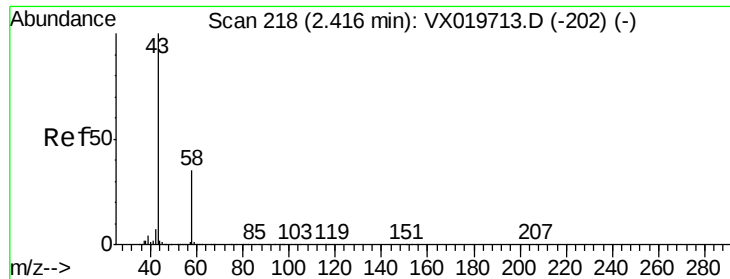


#13

Acrolein
 Concen: 0.305 ug/l
 RT: 2.28 min Scan# 196
 Delta R.T. 0.01 min
 Lab File: VX020044.D
 Acq: 16 Dec 2020 04:34

Tgt Ion: 56 Resp: 137
 Ion Ratio Lower Upper
 56 100
 55 13.9 56.4 84.6#





#16

Acetone

Concen: 9.339 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampled :

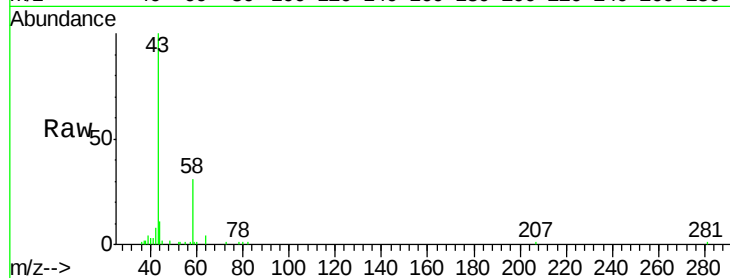
TR1-B-BOTTOM

Tgt Ion: 43 Resp: 14298

Ion Ratio Lower Upper

43 100

58 31.2 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

10000

8000

6000

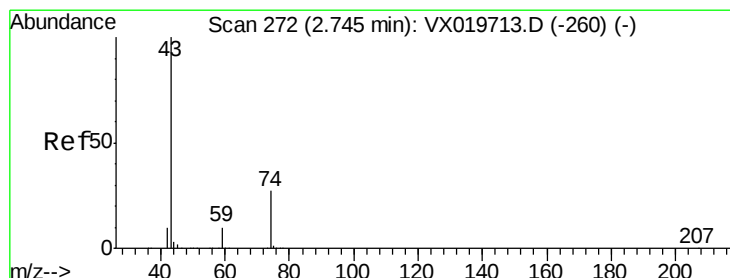
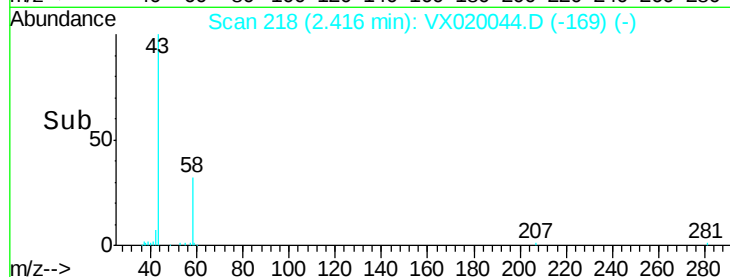
4000

2000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.760 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX020044.D

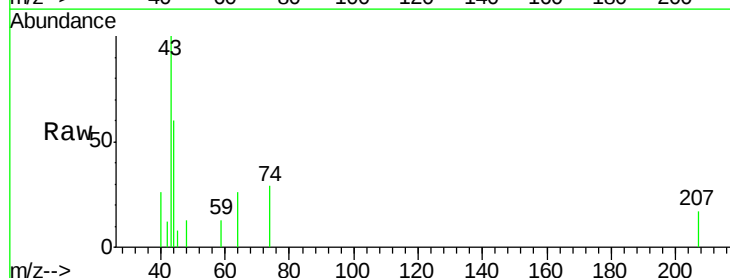
Acq: 16 Dec 2020 04:34

Tgt Ion: 43 Resp: 2849

Ion Ratio Lower Upper

43 100

74 19.2 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

1000

800

600

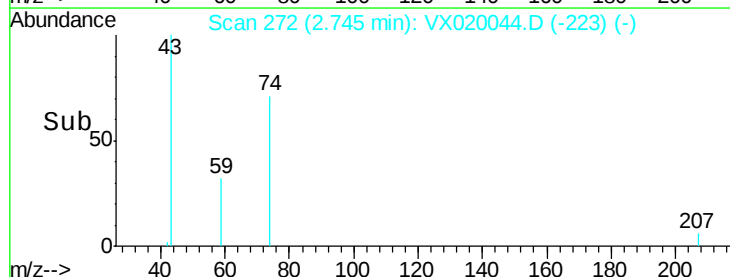
400

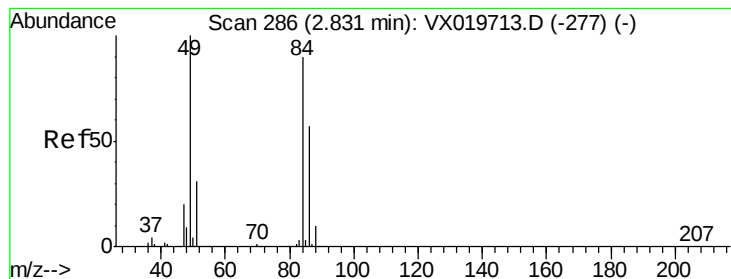
200

0

Time-->

2.70 2.80 2.90





#20

Methylene Chloride

Concen: 2.768 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-B-BOTTOM

Tgt Ion: 84 Resp: 14371

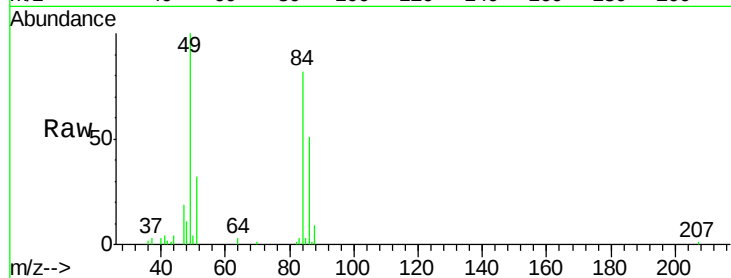
Ion Ratio Lower Upper

84 100

49 121.4 88.6 132.8

51 38.4 27.0 40.6

86 61.3 50.3 75.5

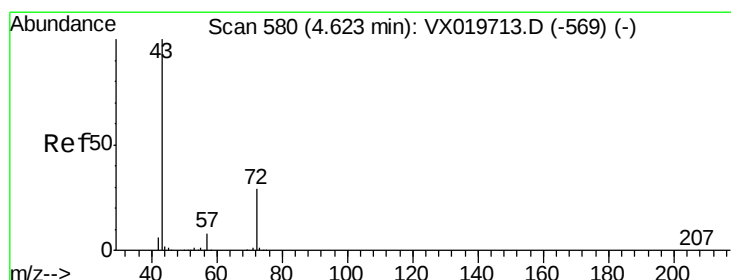
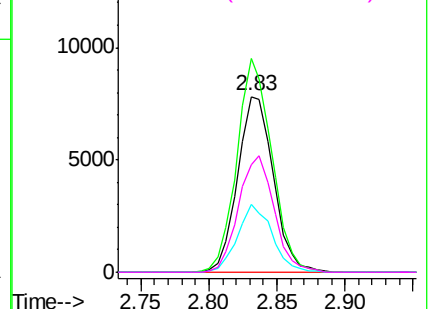
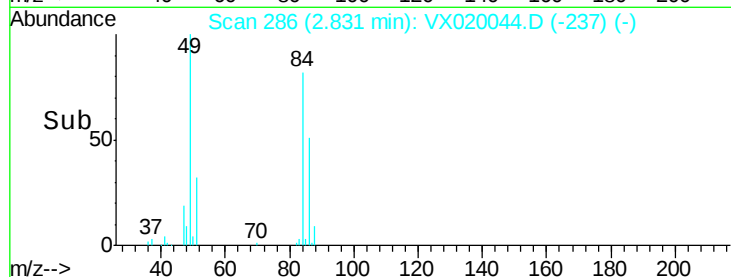


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.531 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX020044.D

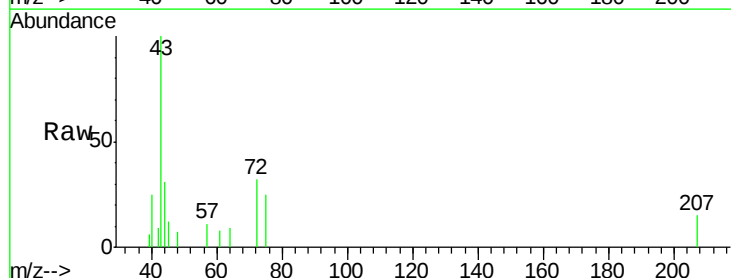
Acq: 16 Dec 2020 04:34

Tgt Ion: 43 Resp: 3601

Ion Ratio Lower Upper

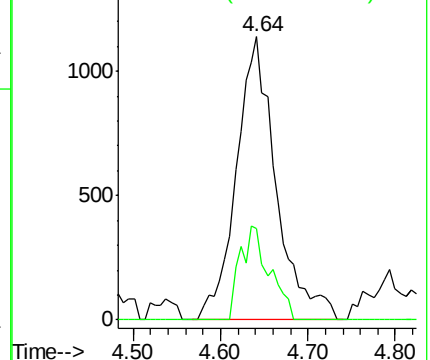
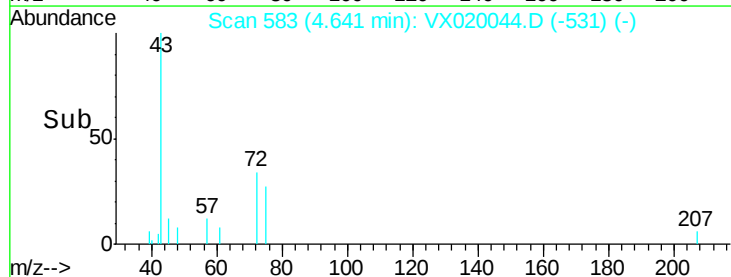
43 100

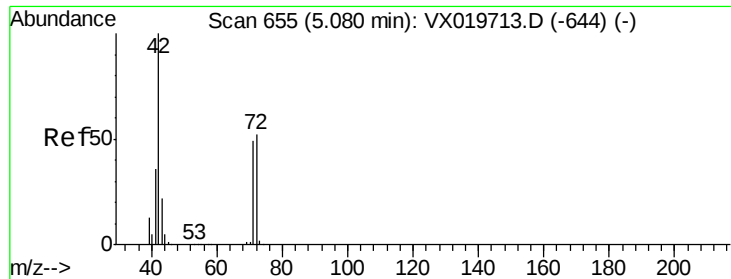
72 32.2 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

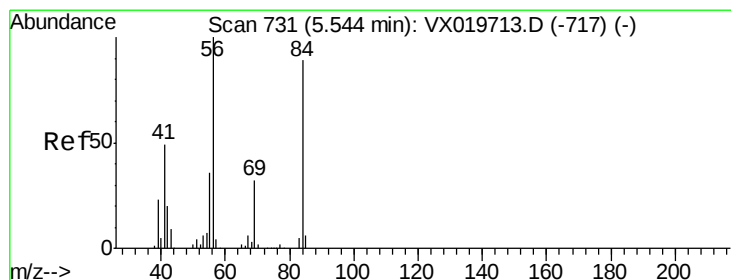
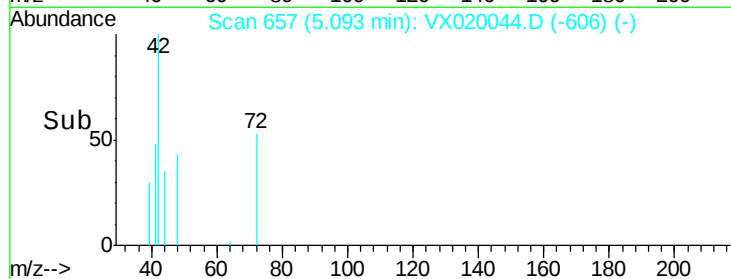
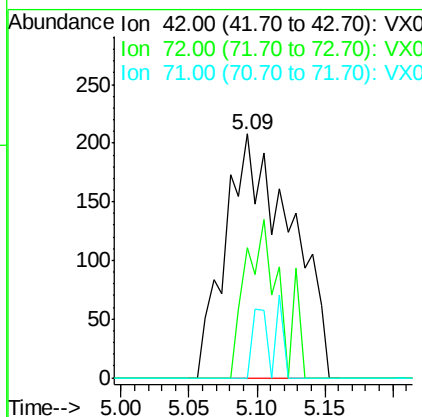
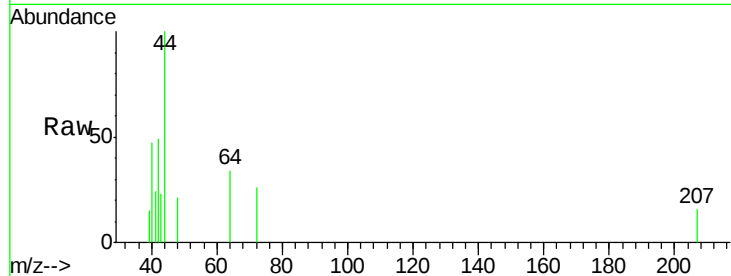




#29
Tetrahydrofuran
Concen: 0.456 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX020044.D
Acq: 16 Dec 2020 04:34

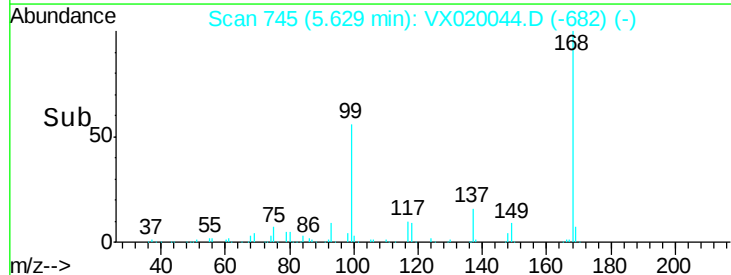
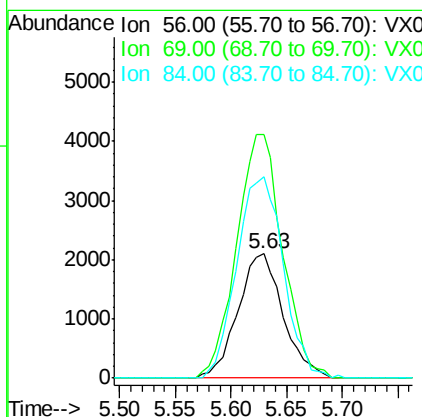
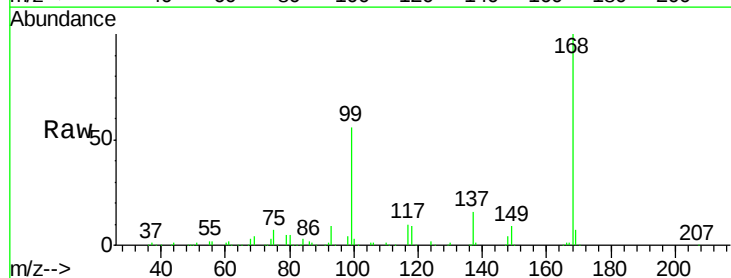
Instrument :
MSVOA_X
ClientSampleId :
TR1-B-BOTTOM

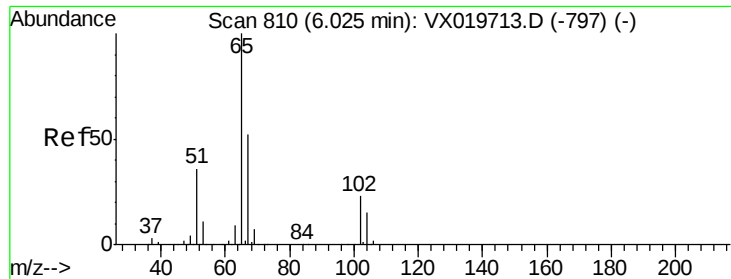
Tgt Ion: 42 Resp: 691
Ion Ratio Lower Upper
42 100
72 34.4 41.7 62.5#
71 6.1 38.4 57.6#



#31
Cyclohexane
Concen: 1.171 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX020044.D
Acq: 16 Dec 2020 04:34

Tgt Ion: 56 Resp: 5935
Ion Ratio Lower Upper
56 100
69 195.9 25.3 37.9#
84 162.2 71.4 107.0#

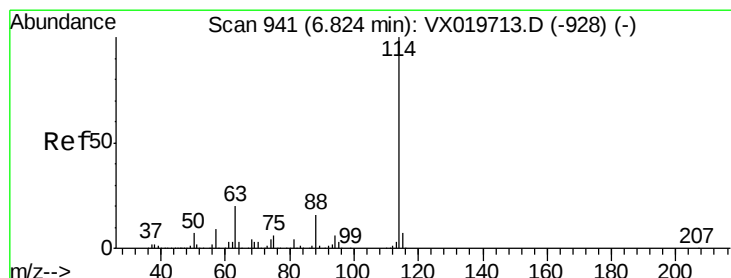
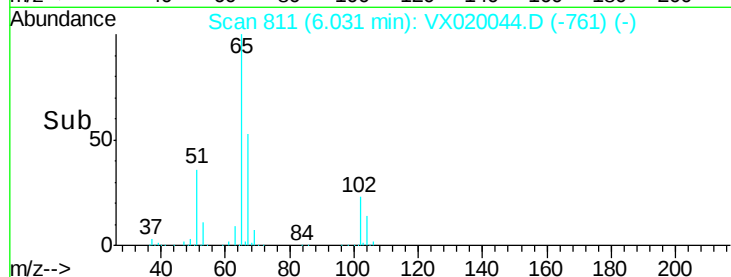
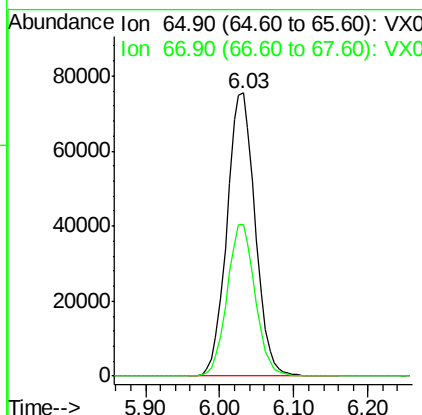
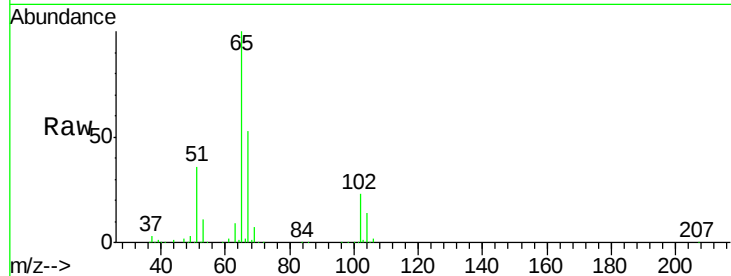




#33
 1,2-Dichloroethane-d4
 Concen: 49.191 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX020044.D
 Acq: 16 Dec 2020 04:34

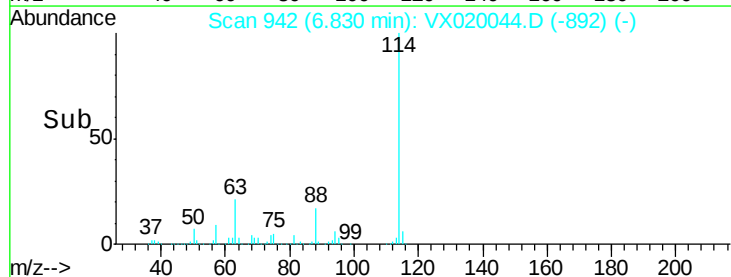
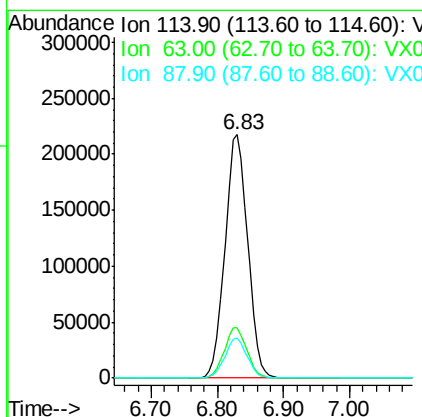
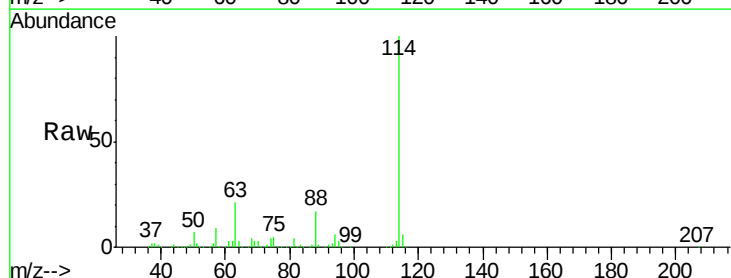
Instrument :
 MSVOA_X
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 TR1-B-BOTTOM

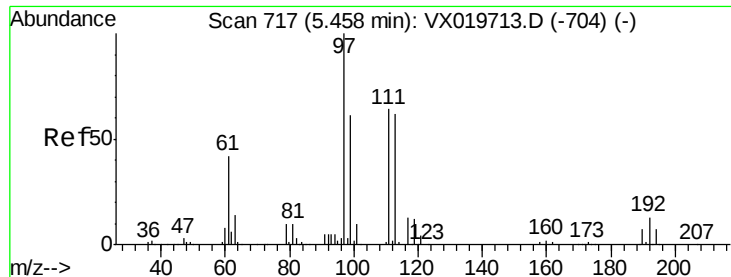
Tgt Ion: 65 Resp: 200360
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020044.D
 Acq: 16 Dec 2020 04:34

Tgt Ion: 114 Resp: 517679
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 16.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.451 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

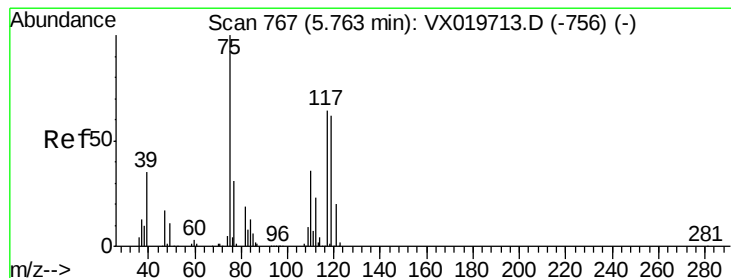
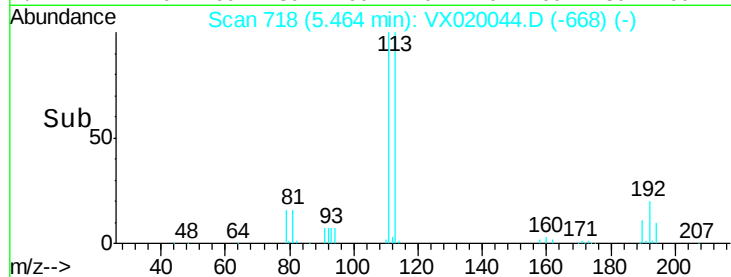
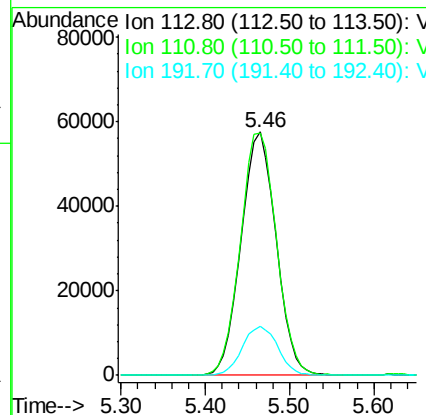
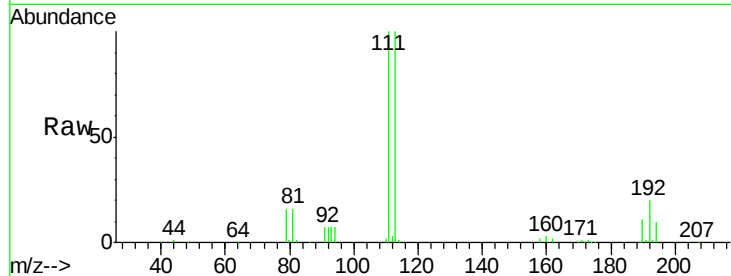
Instrument :

MSVOA_X

ClientSampleId :

TR1-B-BOTTOM

Tgt Ion:	113	Resp:	162103
Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	20.6	16.7	25.1



#36

1,1-Dichloropropene

Concen: 4.951 ug/l

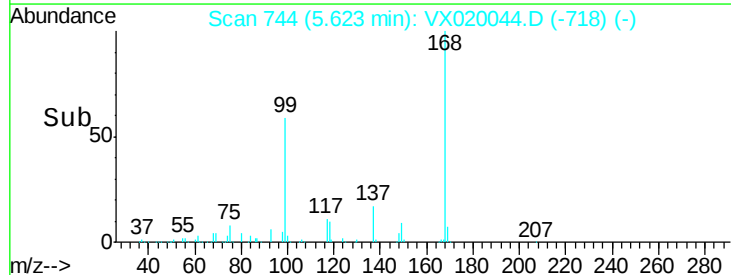
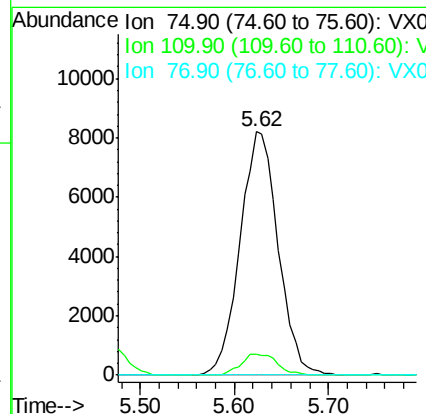
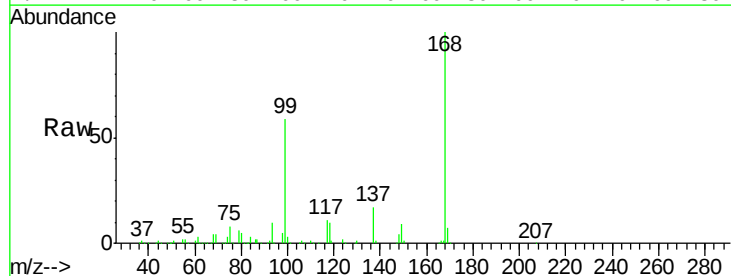
RT: 5.62 min Scan# 744

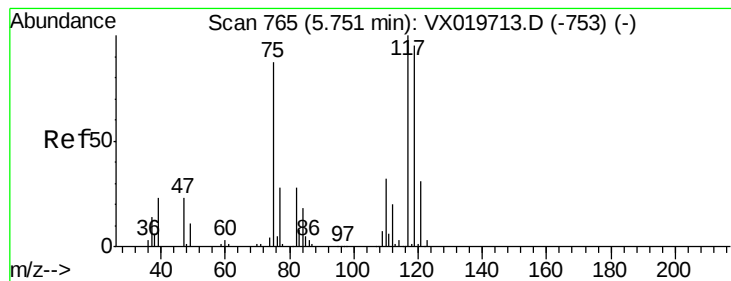
Delta R.T. -0.14 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Tgt Ion:	75	Resp:	23160
Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.4#
77	0.0	25.3	37.9#





#38

Carbon Tetrachloride

Concen: 6.650 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-B-BOTTOM

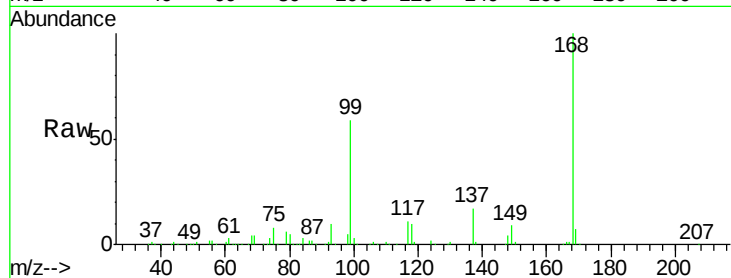
Tgt Ion:117 Resp: 30461

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

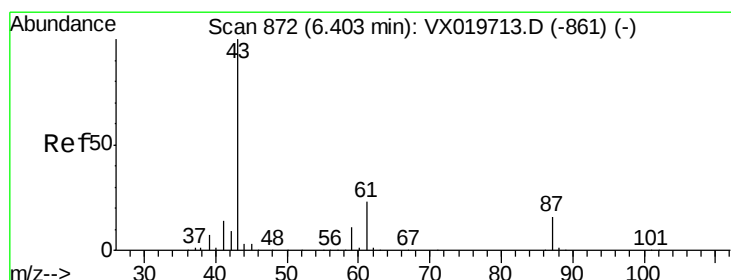
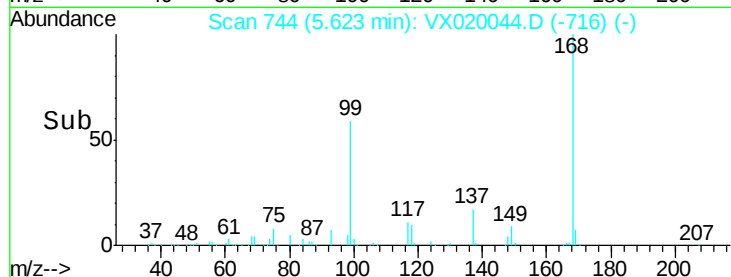
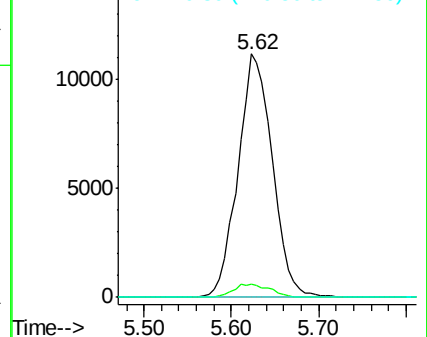
121 0.0 24.8 37.2#



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: 3.205 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

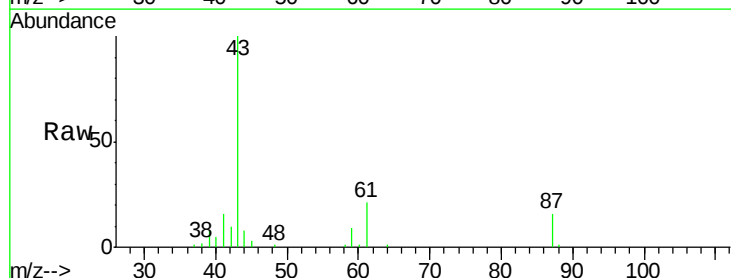
Tgt Ion: 43 Resp: 24609

Ion Ratio Lower Upper

43 100

61 21.9 18.2 27.4

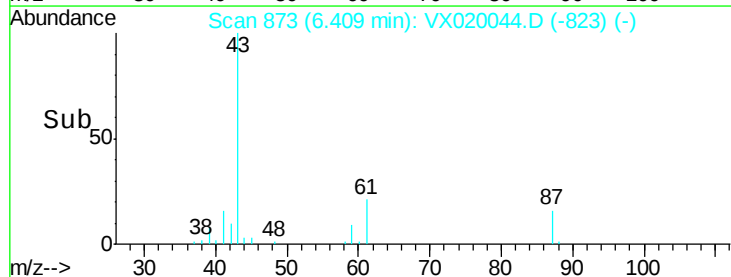
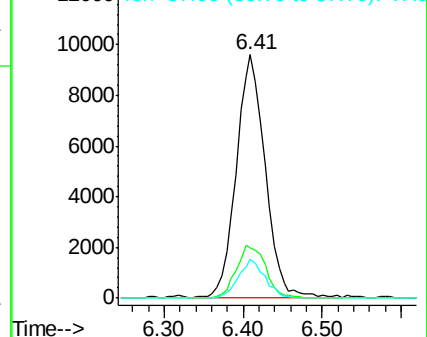
87 14.4 12.5 18.7

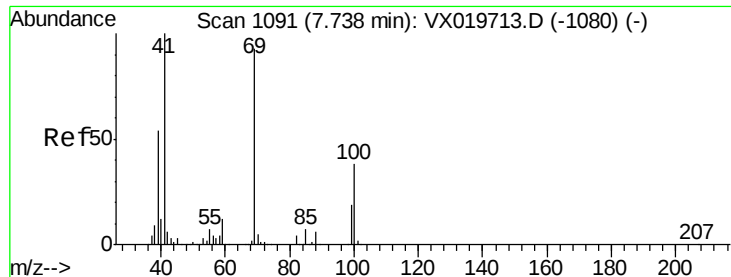


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

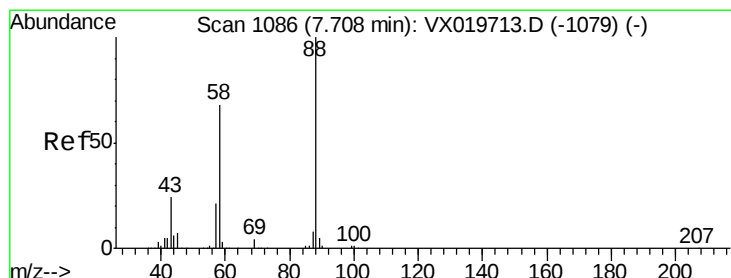
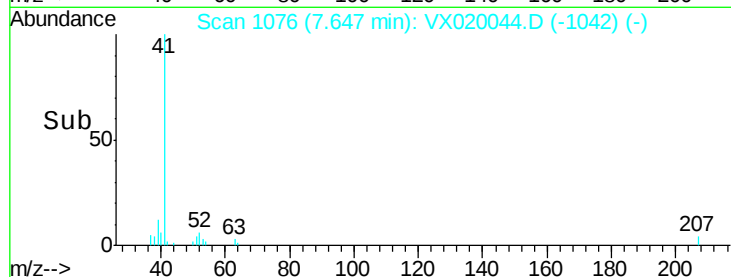
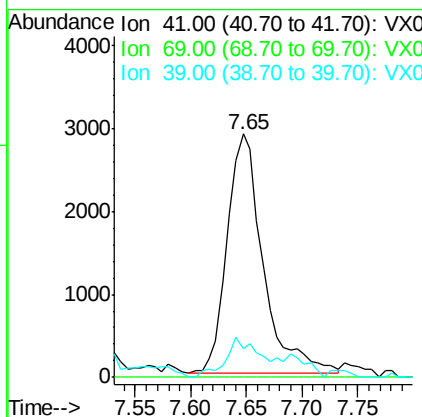
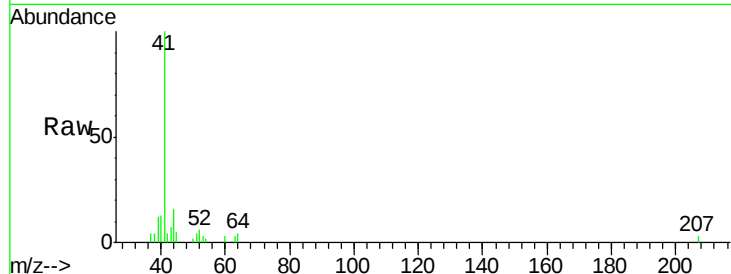




#48
Methyl methacrylate
Concen: 1.709 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX020044.D
Acq: 16 Dec 2020 04:34

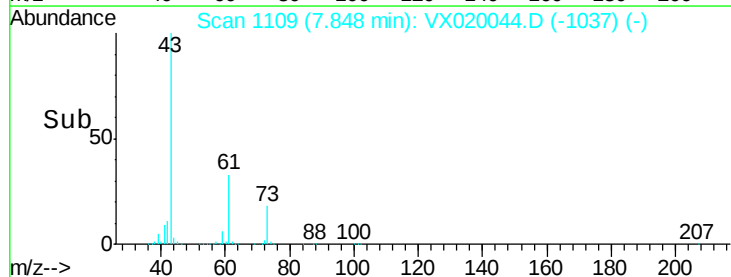
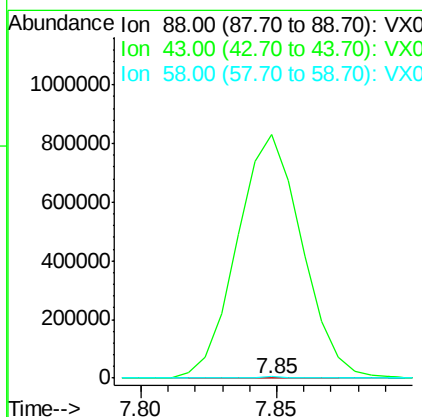
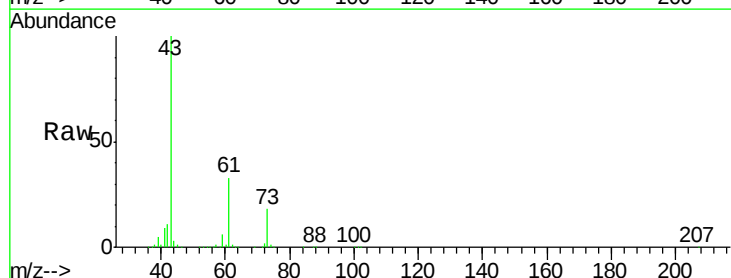
Instrument :
MSVOA_X
ClientSampleId :
TR1-B-BOTTOM

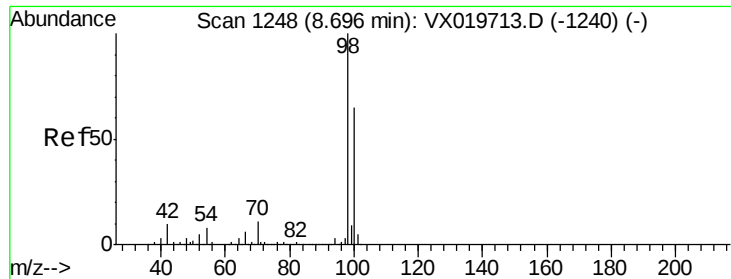
Tgt Ion: 41 Resp: 6453
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 3.290 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.14 min
Lab File: VX020044.D
Acq: 16 Dec 2020 04:34

Tgt Ion: 88 Resp: 301
Ion Ratio Lower Upper
88 100
43 459598.7 23.2 34.8#
58 2374.1 55.0 82.4#





#50

Toluene-d8

Concen: 49.772 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

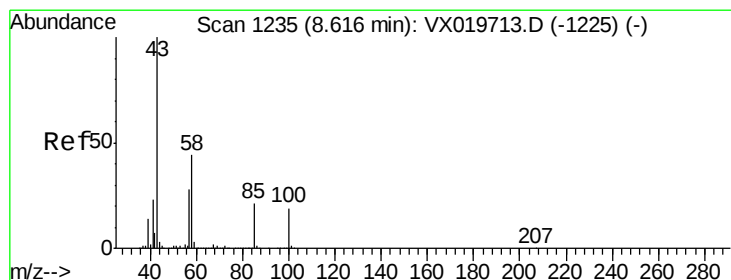
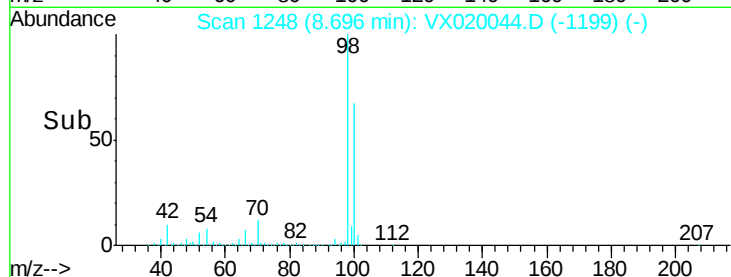
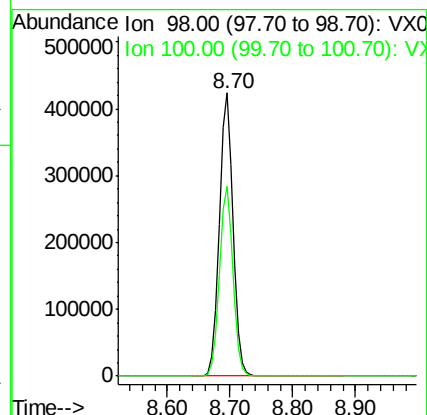
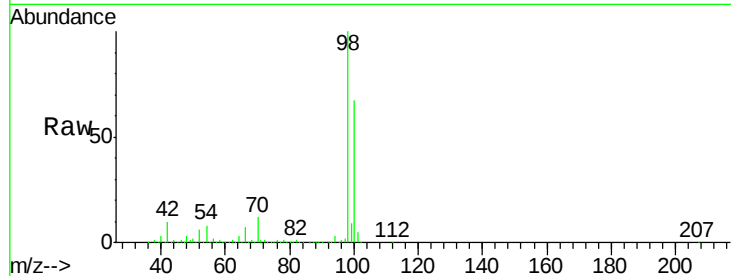
TR1-B-BOTTOM

Tgt Ion: 98 Resp: 635736

Ion Ratio Lower Upper

98 100

100 66.5 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 18.346 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX020044.D

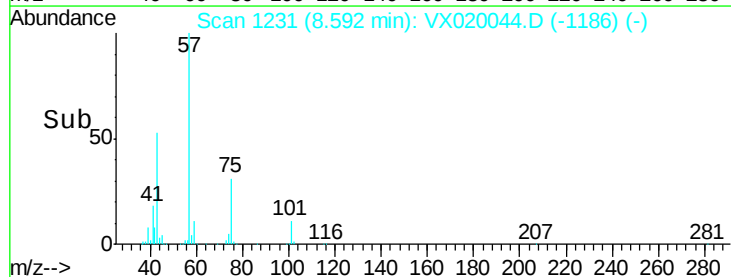
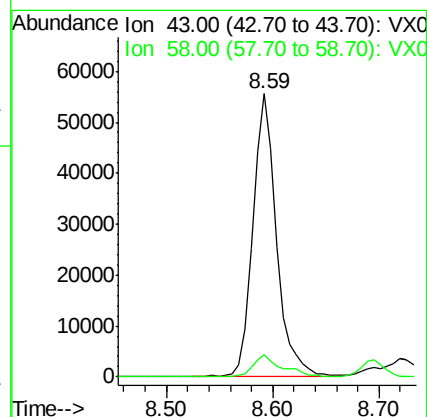
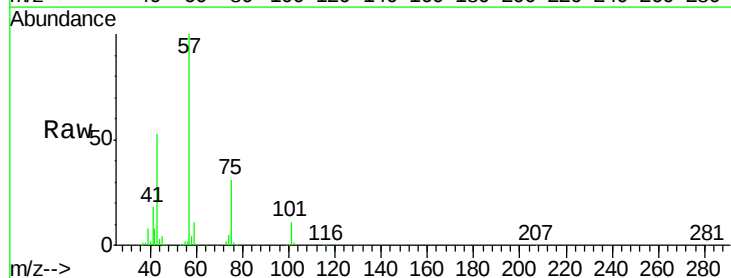
Acq: 16 Dec 2020 04:34

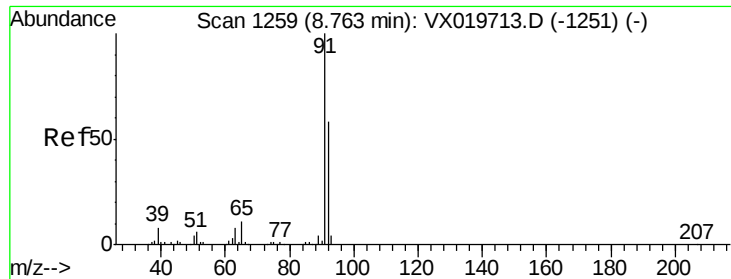
Tgt Ion: 43 Resp: 86009

Ion Ratio Lower Upper

43 100

58 9.6 35.4 53.0#





#52

Toluene

Concen: 0.212 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

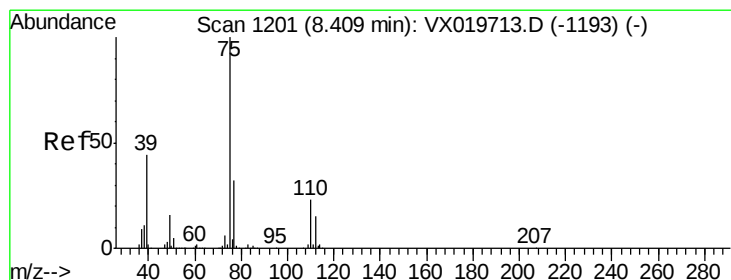
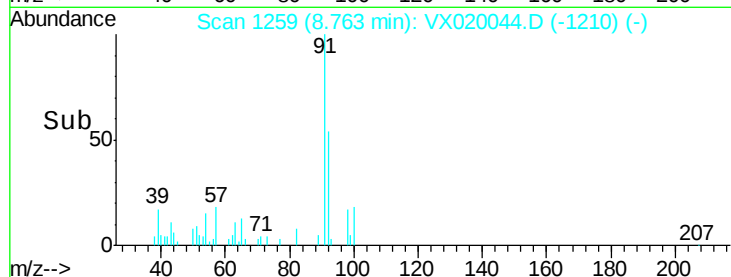
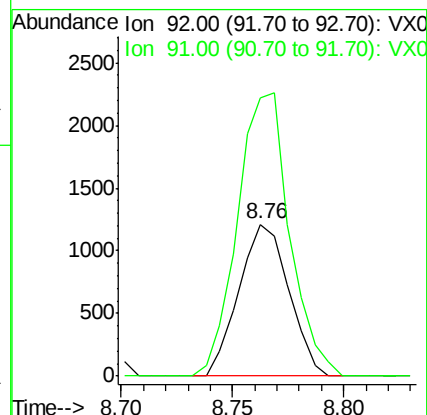
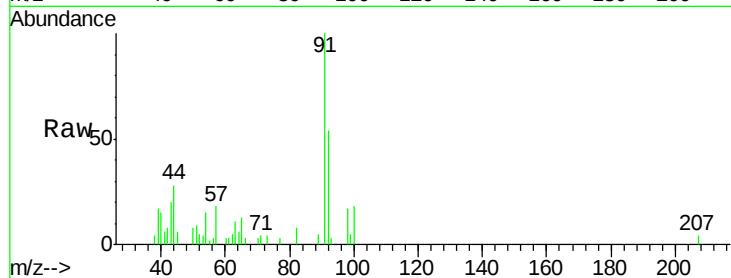
TR1-B-BOTTOM

Tgt Ion: 92 Resp: 1891

Ion Ratio Lower Upper

92 100

91 195.0 137.1 205.7



#54

cis-1,3-Dichloropropene

Concen: 7.847 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

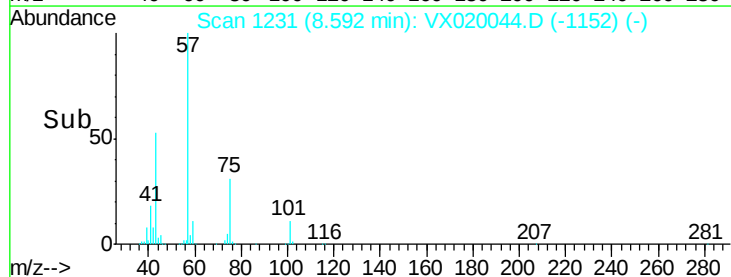
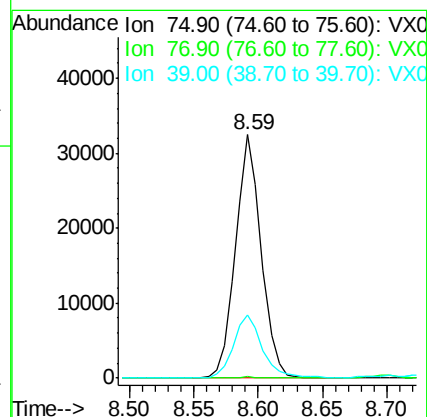
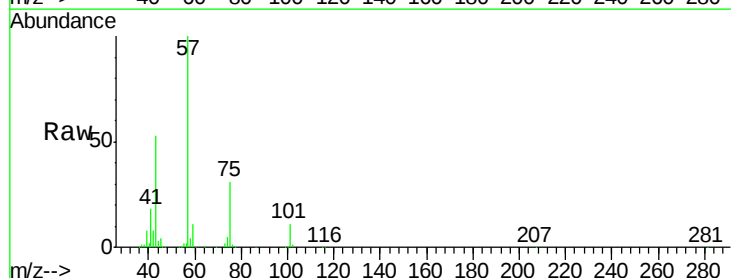
Tgt Ion: 75 Resp: 45275

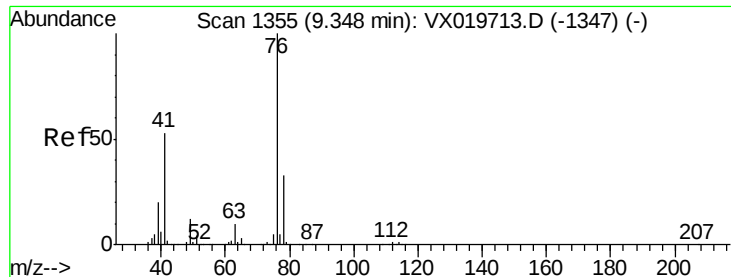
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 25.9 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.443 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

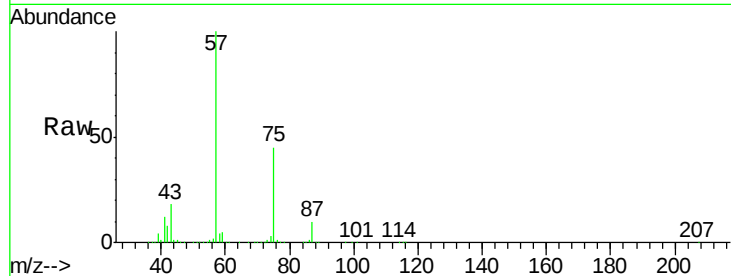
TR1-B-BOTTOM

Tgt Ion: 76 Resp: 27322

Ion Ratio Lower Upper

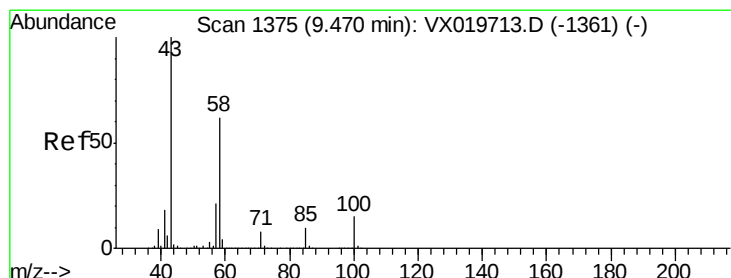
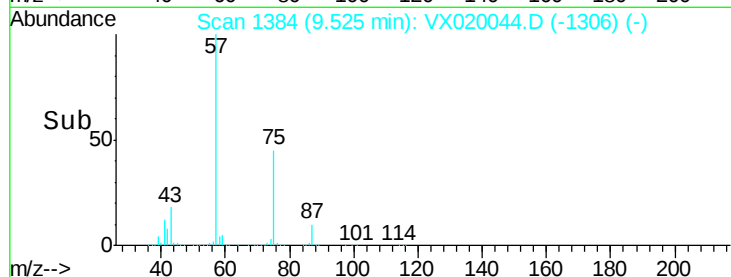
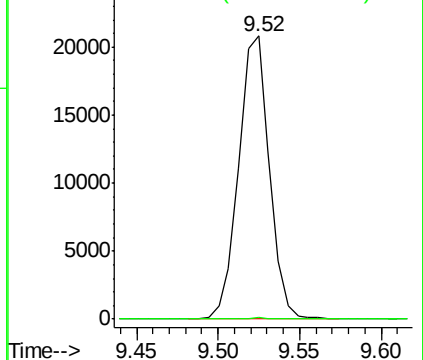
76 100

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: 92.009 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX020044.D

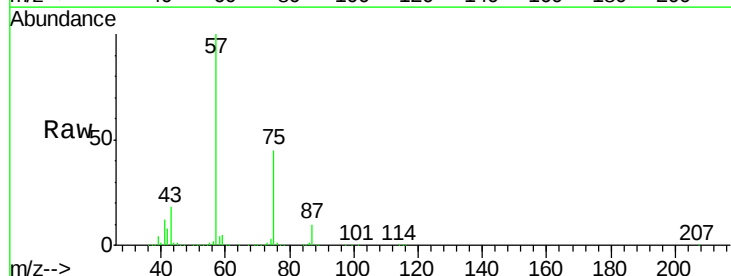
Acq: 16 Dec 2020 04:34

Tgt Ion: 43 Resp: 334360

Ion Ratio Lower Upper

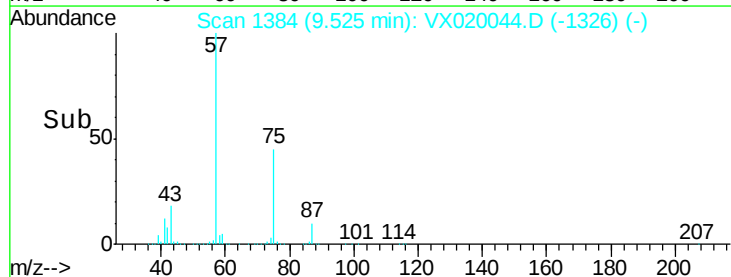
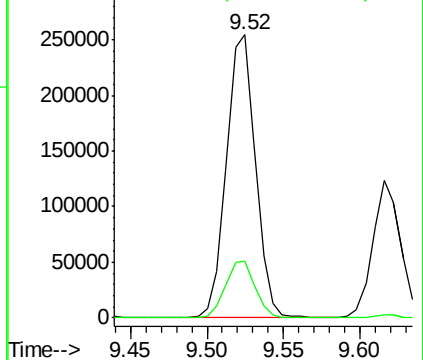
43 100

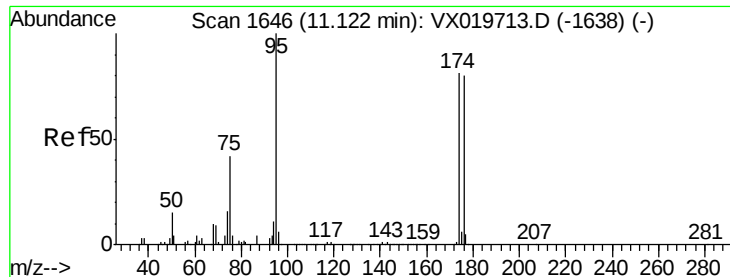
58 20.5 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.398 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-B-BOTTOM

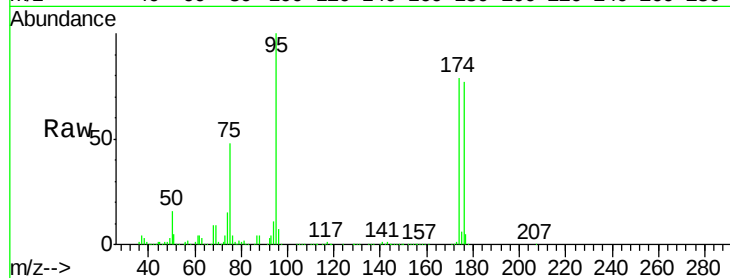
Tgt Ion: 95 Resp: 225568

Ion Ratio Lower Upper

95 100

174 77.3 0.0 154.6

176 73.9 0.0 155.8

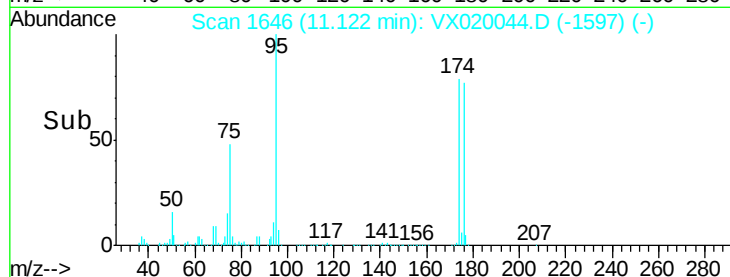


Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

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

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

Time-->

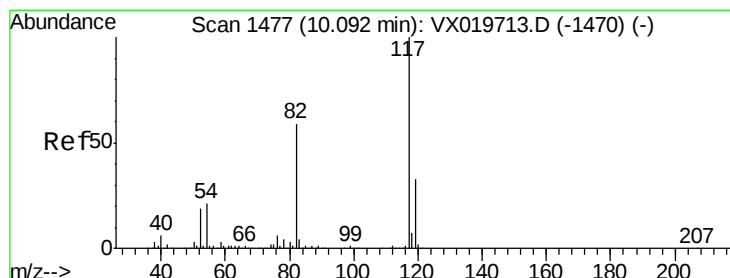


Abundance Ion 94.90 (94.60 to 95.60): VX020044.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX020044.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX020044.D (-1597) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

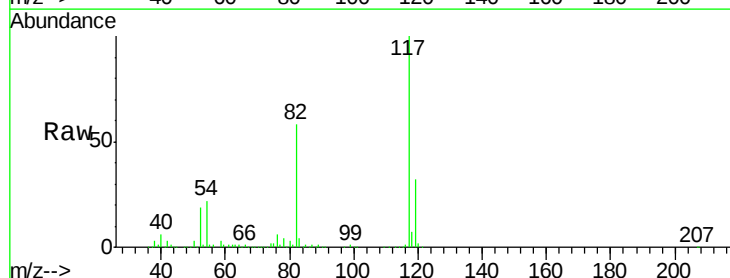
Tgt Ion: 117 Resp: 489161

Ion Ratio Lower Upper

117 100

82 57.7 47.4 71.2

119 31.7 26.6 39.8

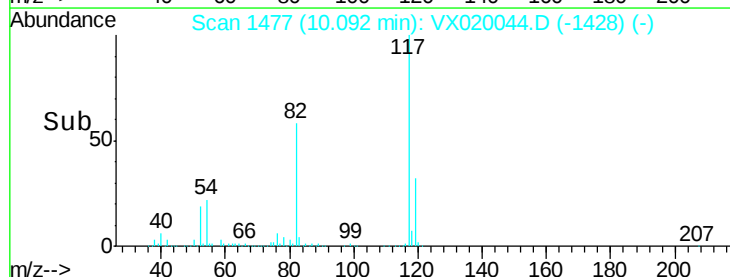


Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

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

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

Time-->

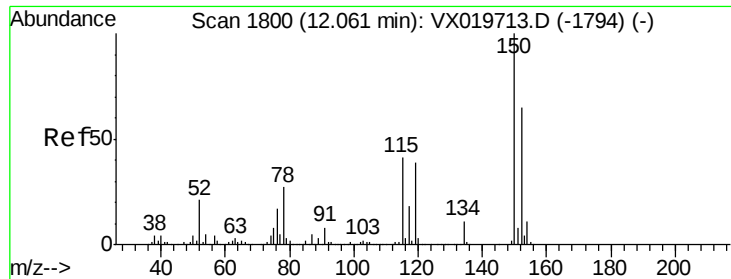


Abundance Ion 116.90 (116.60 to 117.60): VX020044.D (-1428) (-)

Ion 82.00 (81.70 to 82.70): VX020044.D (-1428) (-)

Ion 118.90 (118.60 to 119.60): VX020044.D (-1428) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-B-BOTTOM

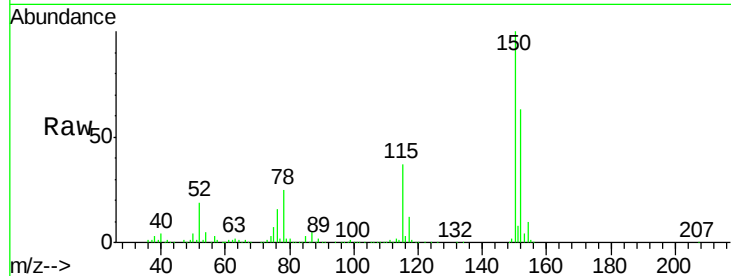
Tgt Ion:152 Resp: 213438

Ion Ratio Lower Upper

152 100

115 59.2 41.1 123.3

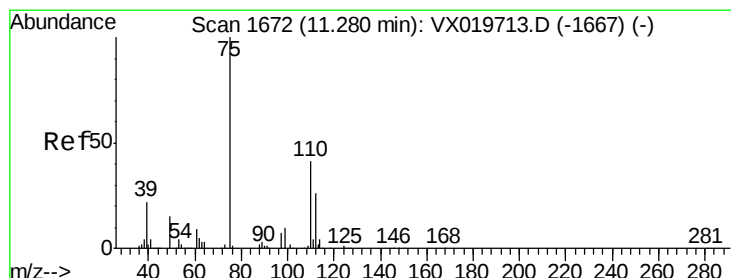
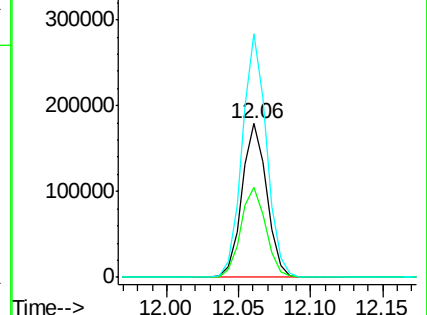
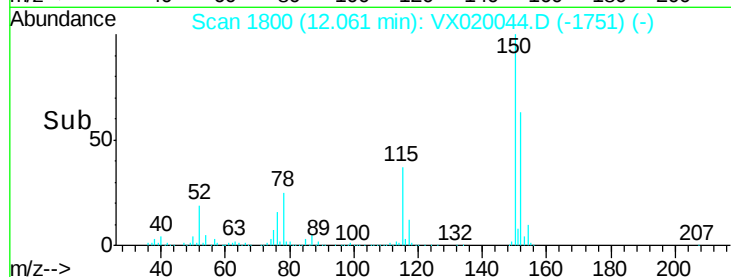
150 155.9 0.0 349.0



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: 23.039 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020044.D

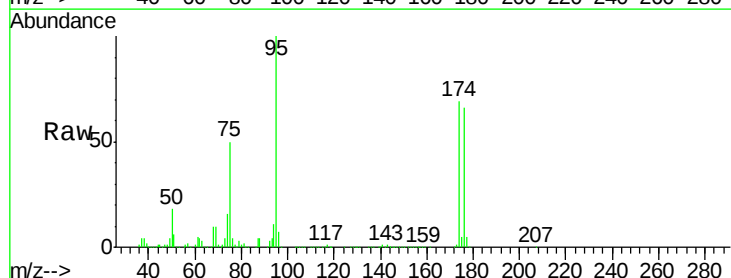
Acq: 16 Dec 2020 04:34

Tgt Ion: 75 Resp: 110287

Ion Ratio Lower Upper

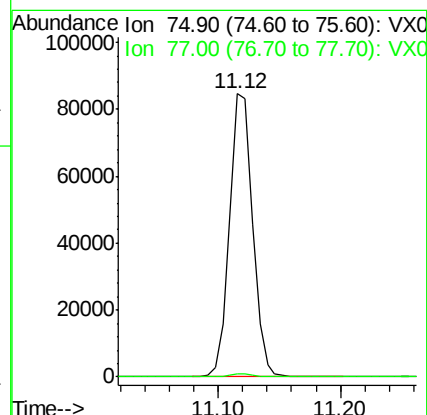
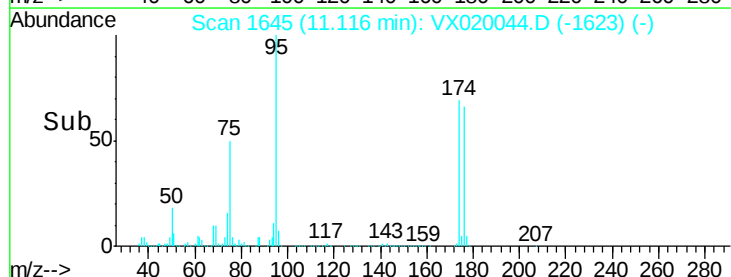
75 100

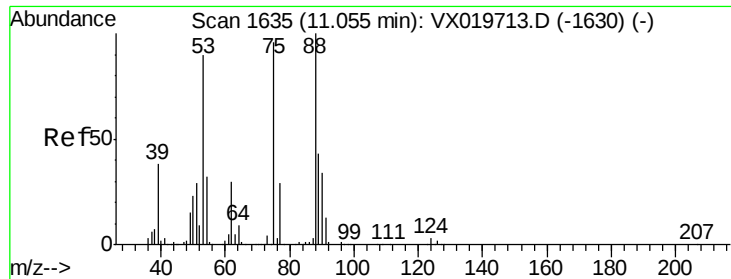
77 1.2 19.1 57.5#



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: 66.601 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020044.D

Acq: 16 Dec 2020 04:34

Instrument :

MSVOA_X

ClientSampleId :

TR1-B-BOTTOM

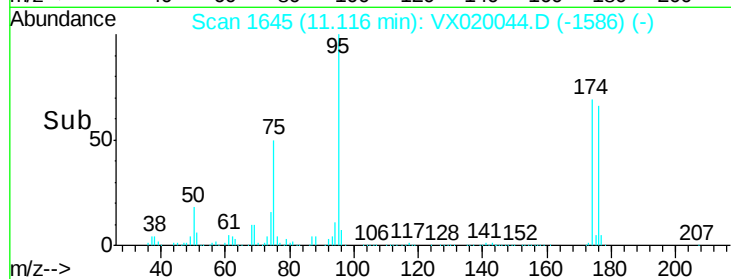
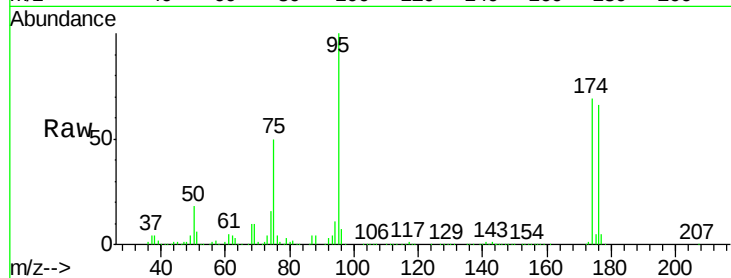
Tgt Ion: 75 Resp: 110287

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

