

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019972.D
 Acq On : 13 Dec 2020 07:31
 Operator : JC/MD
 Sample : L5065-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JBD-WC-S-SB-02-0-15

Quant Time: Dec 14 08:26:38 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	305949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	511260	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	475275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212498	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	197202	49.04	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.08%	
35) Dibromofluoromethane		5.46	113	157314	47.61	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.22%	
50) Toluene-d8		8.70	98	634257	50.28	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.56%	
62) 4-Bromofluorobenzene		11.12	95	224778	46.82	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.64%	

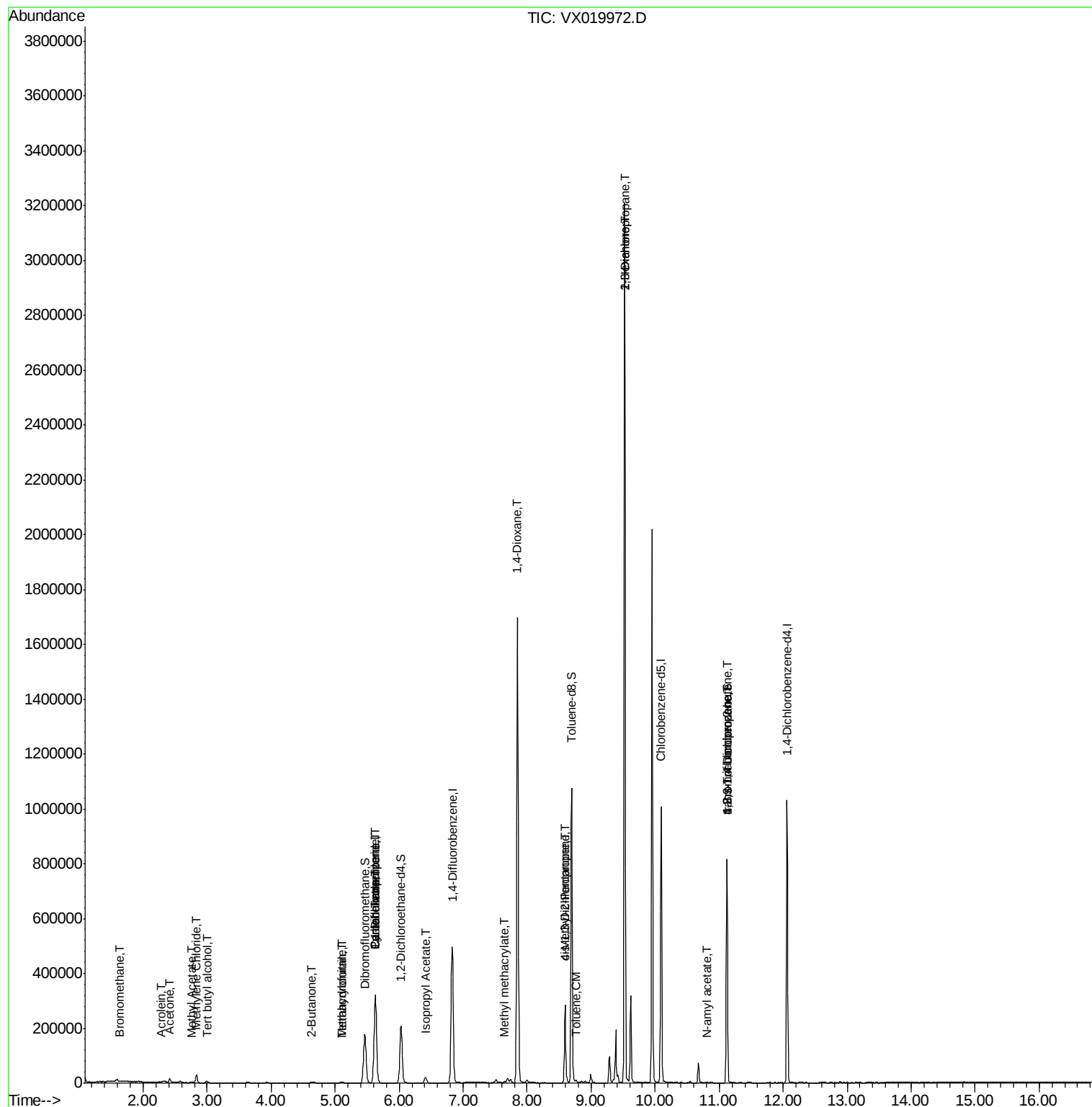
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	242	0.210	ug/l	88
11) Tert butyl alcohol	3.00	59	3747	1.940	ug/l #	73
13) Acrolein	2.28	56	210	0.473	ug/l #	60
16) Acetone	2.42	43	14364	9.504	ug/l	97
18) Methyl Acetate	2.75	43	2478	0.670	ug/l	94
20) Methylene Chloride	2.83	84	14442	2.844	ug/l	93
25) 2-Butanone	4.64	43	3710	1.597	ug/l	93
29) Tetrahydrofuran	5.10	42	2159	1.443	ug/l #	72
31) Cyclohexane	5.63	56	6410	1.282	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23517	5.090	ug/l #	49
38) Carbon Tetrachloride	5.62	117	29859	6.600	ug/l #	18
41) Methacrylonitrile	5.10	41	1189	0.464	ug/l #	44
43) Isopropyl Acetate	6.41	43	26988	3.559	ug/l	99
48) Methyl methacrylate	7.65	41	6845	1.835	ug/l #	10
49) 1,4-Dioxane	7.84	88	263	2.911	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	90420	19.529	ug/l #	47
52) Toluene	8.76	92	2291	0.260	ug/l	98
54) cis-1,3-Dichloropropene	8.59	75	47618	8.357	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	28136	4.633	ug/l #	43
59) 2-Hexanone	9.52	43	344362	95.952	ug/l #	46
74) N-ethyl acetate	10.80	43	1348	0.232	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	108297	22.723	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108297	65.688	ug/l #	12

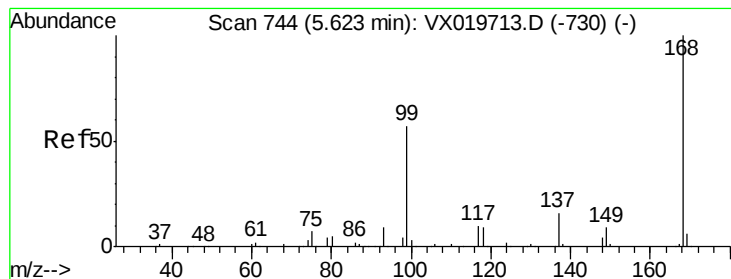
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

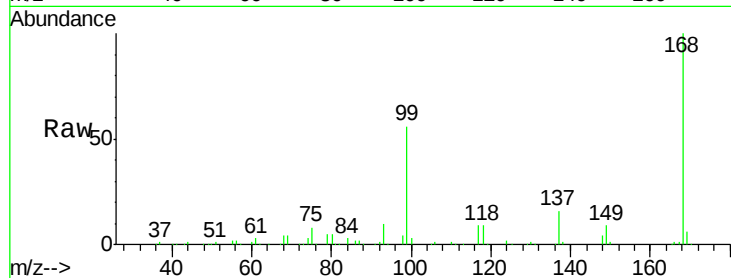
JBD-WC-S-SB-02-0-15

Tgt Ion:168 Resp: 305949

Ion Ratio Lower Upper

168 100

99 56.5 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

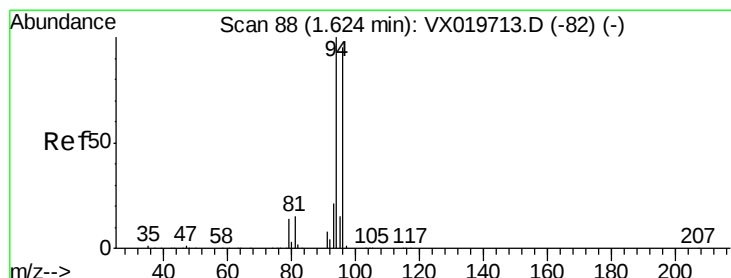
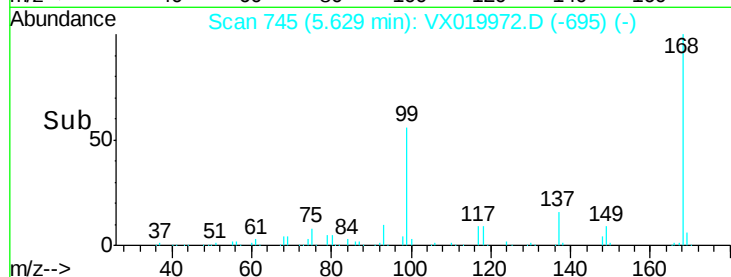
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.210 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019972.D

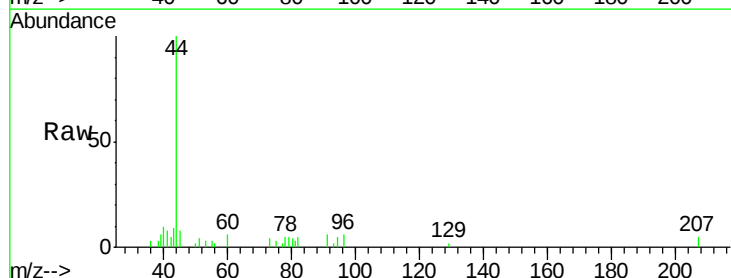
Acq: 13 Dec 2020 07:31

Tgt Ion: 94 Resp: 242

Ion Ratio Lower Upper

94 100

96 107.0 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

200

150

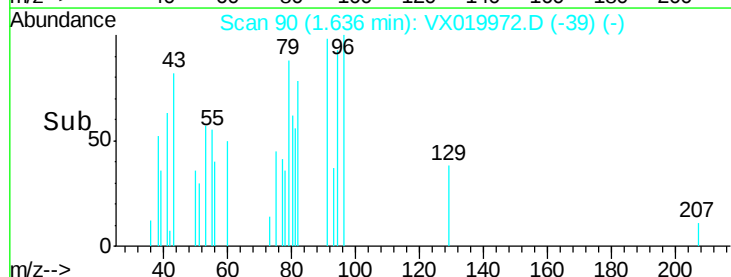
100

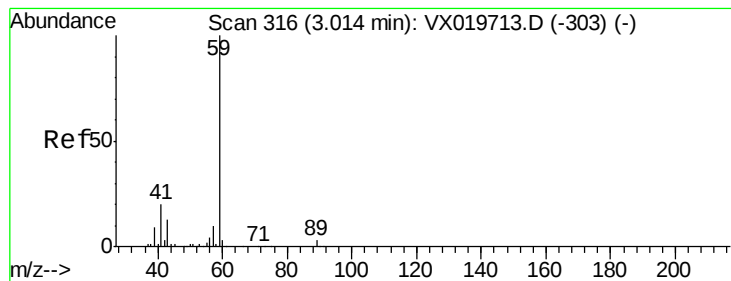
50

0

Time-->

1.60 1.62 1.64 1.66 1.68



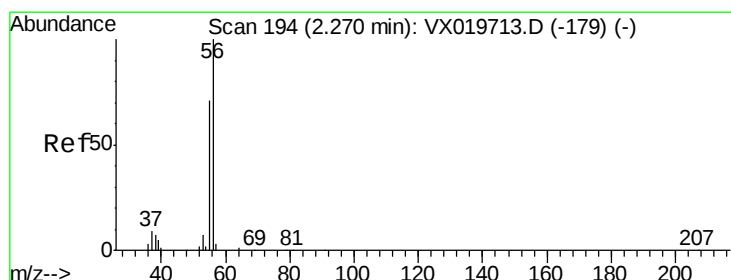
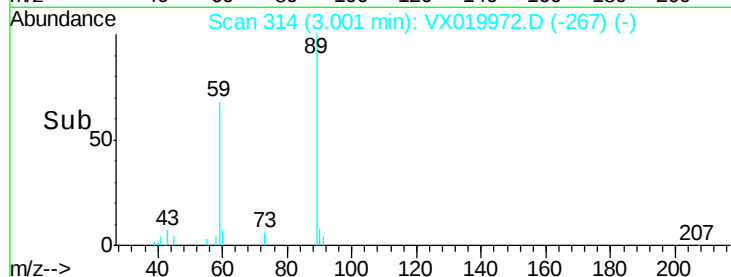
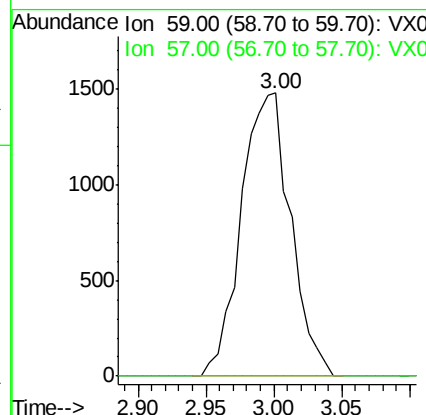
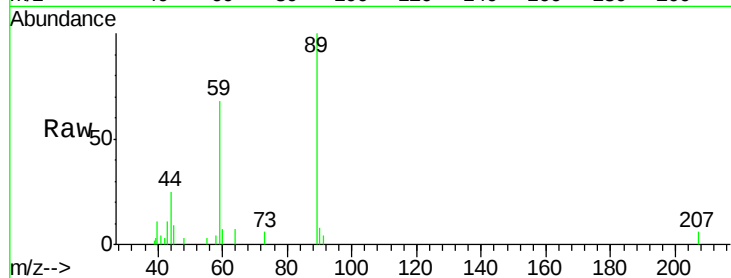


#11

Tert butyl alcohol
 Concen: 1.940 ug/l
 RT: 3.00 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX019972.D
 Acq: 13 Dec 2020 07:31

Instrument :
 MSVOA_X
 ClientSampleId :
 JBD-WC-S-SB-02-0-15

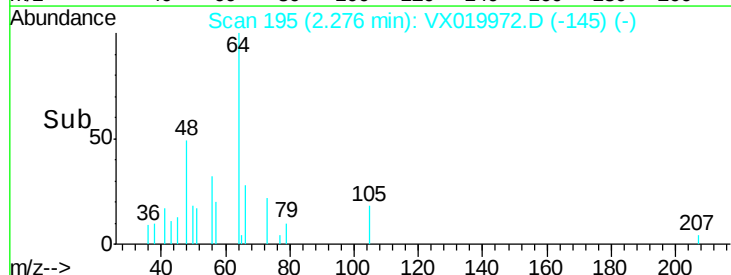
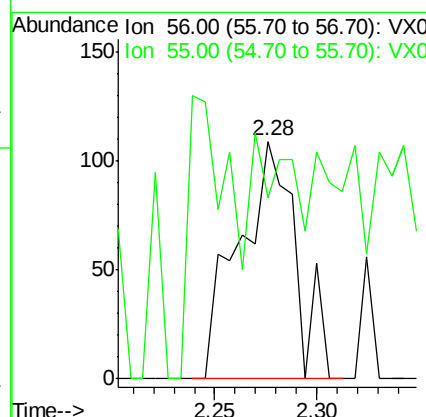
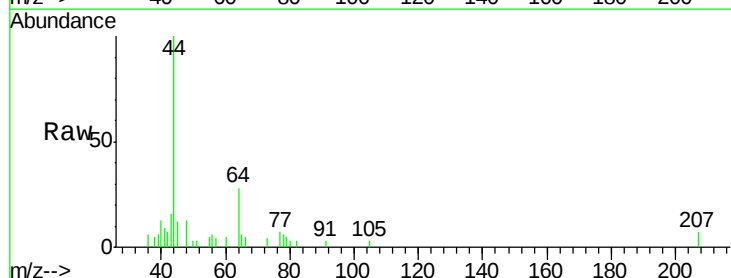
Tgt Ion: 59 Resp: 3747
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

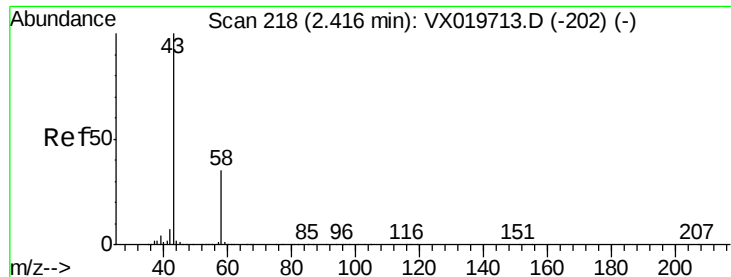


#13

Acrolein
 Concen: 0.473 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX019972.D
 Acq: 13 Dec 2020 07:31

Tgt Ion: 56 Resp: 210
 Ion Ratio Lower Upper
 56 100
 55 37.6 56.4 84.6#





#16

Acetone

Concen: 9.504 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

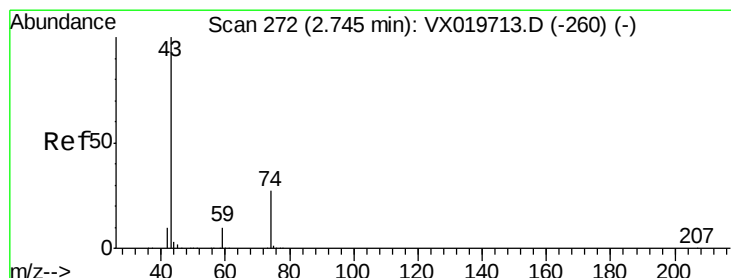
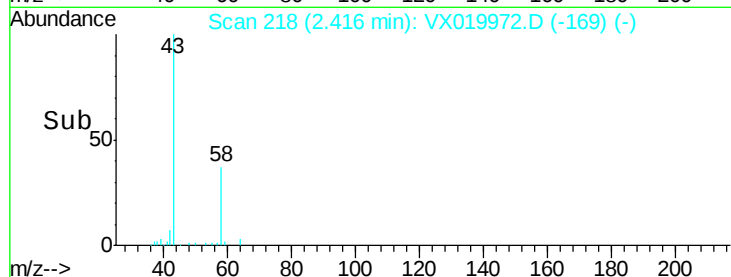
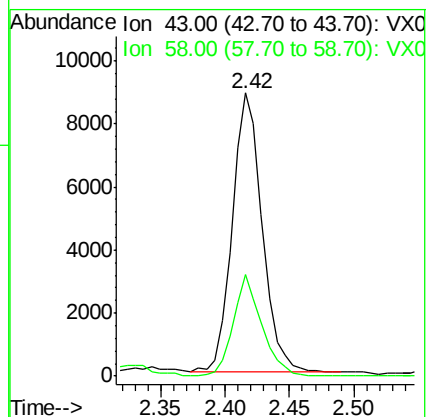
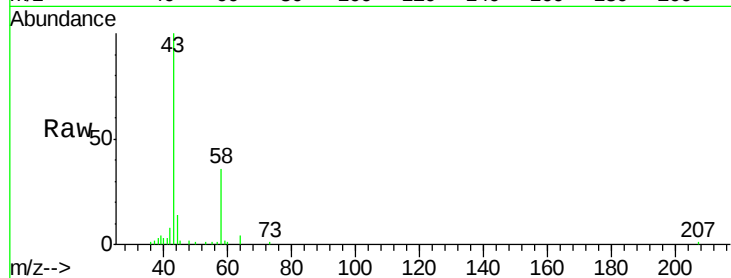
JBD-WC-S-SB-02-0-15

Tgt Ion: 43 Resp: 14364

Ion Ratio Lower Upper

43 100

58 36.4 27.8 41.8



#18

Methyl Acetate

Concen: 0.670 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019972.D

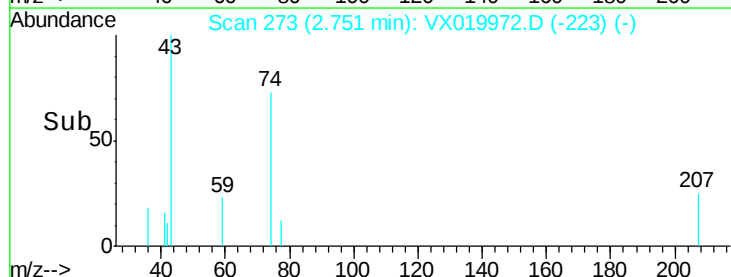
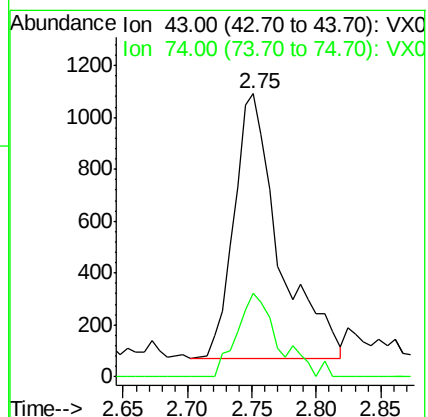
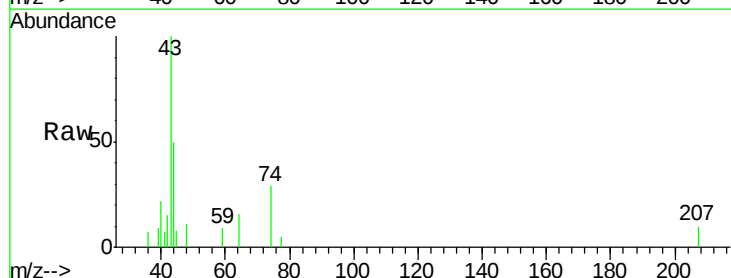
Acq: 13 Dec 2020 07:31

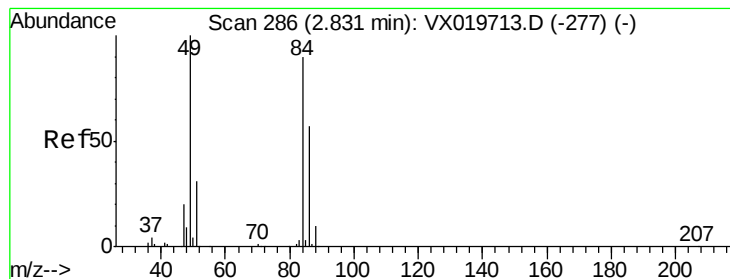
Tgt Ion: 43 Resp: 2478

Ion Ratio Lower Upper

43 100

74 24.3 21.9 32.9





#20

Methylene Chloride

Concen: 2.844 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-02-0-15

Tgt Ion: 84 Resp: 14442

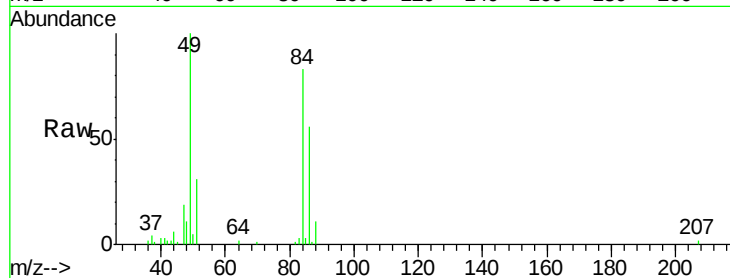
Ion Ratio Lower Upper

84 100

49 119.8 88.6 132.8

51 37.2 27.0 40.6

86 67.1 50.3 75.5

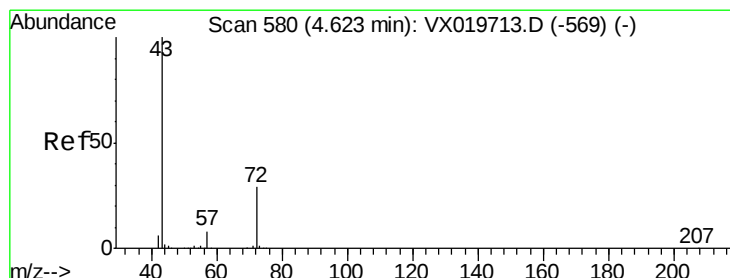
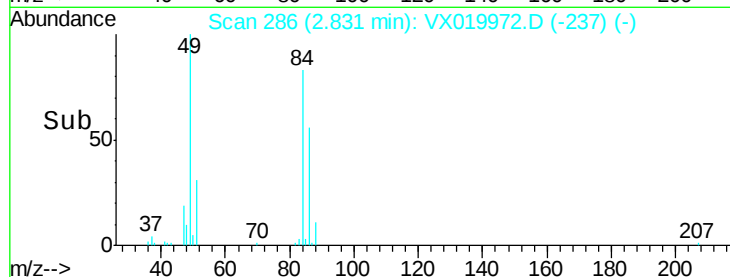
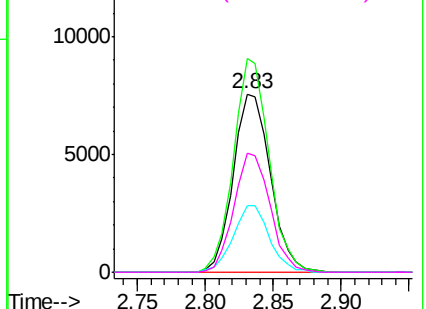


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.597 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019972.D

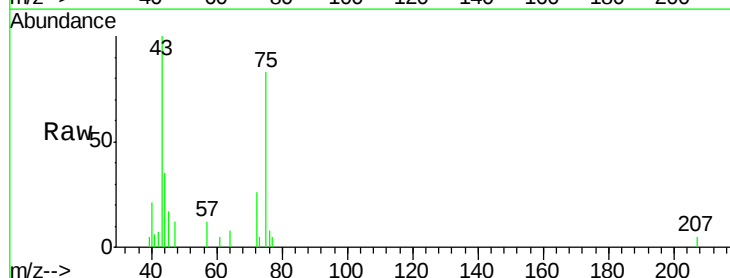
Acq: 13 Dec 2020 07:31

Tgt Ion: 43 Resp: 3710

Ion Ratio Lower Upper

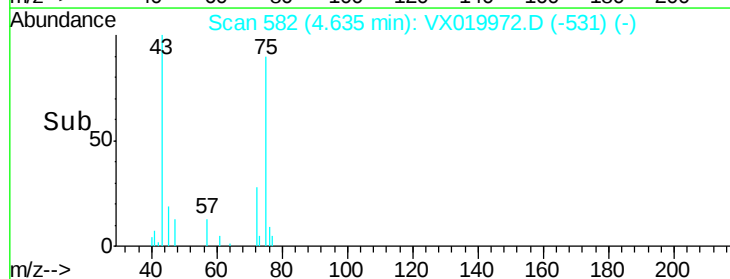
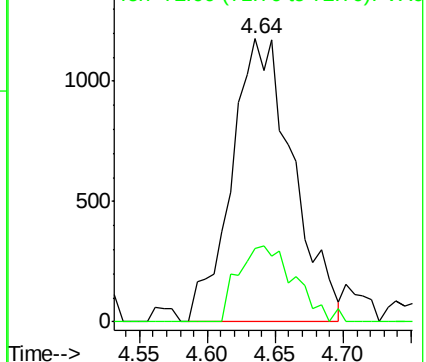
43 100

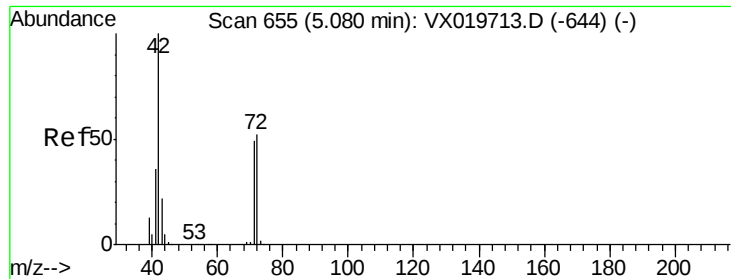
72 26.1 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.443 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-02-0-15

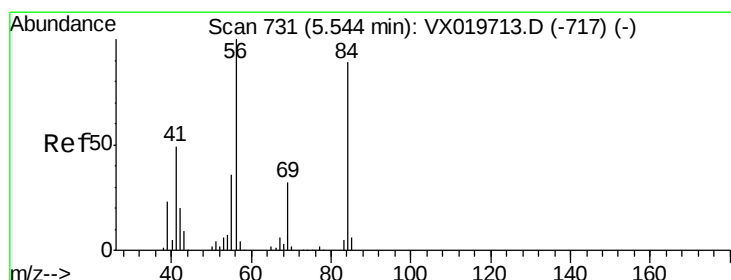
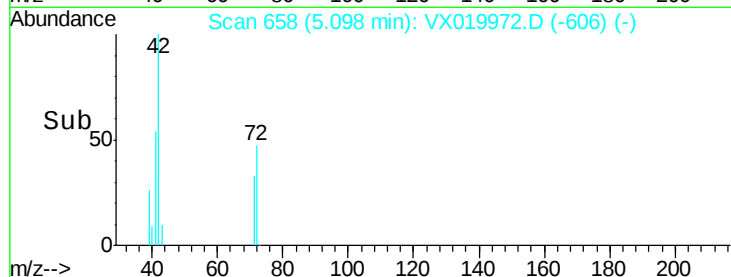
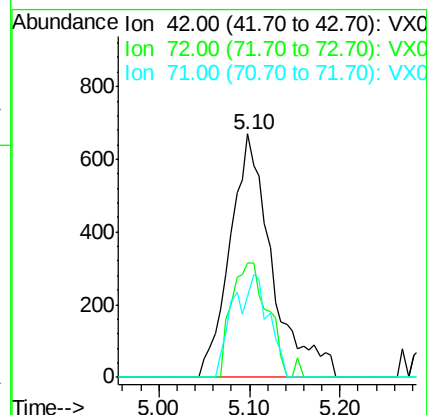
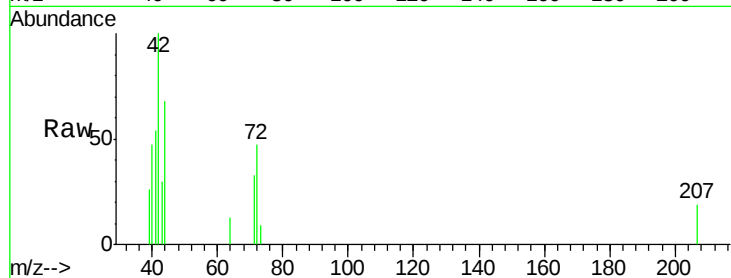
Tgt Ion: 42 Resp: 2159

Ion Ratio Lower Upper

42 100

72 40.0 41.7 62.5#

71 21.8 38.4 57.6#



#31

Cyclohexane

Concen: 1.282 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

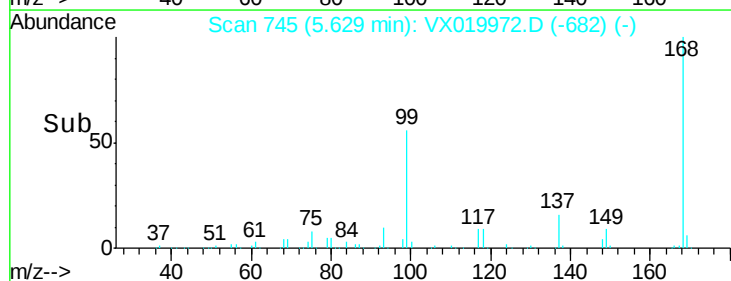
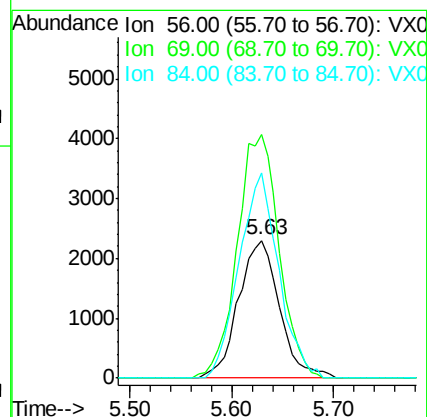
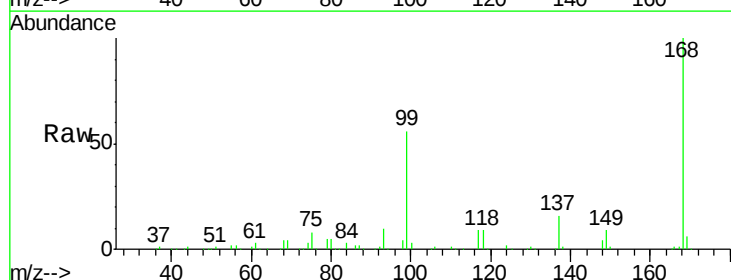
Tgt Ion: 56 Resp: 6410

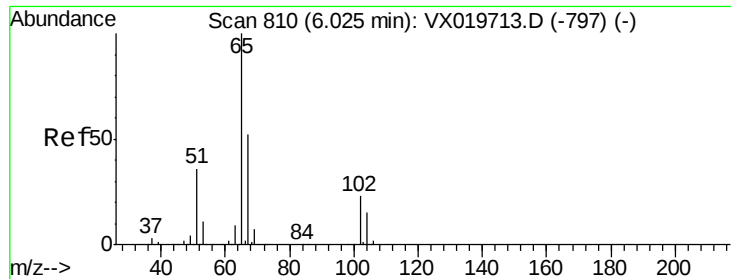
Ion Ratio Lower Upper

56 100

69 177.0 25.3 37.9#

84 149.2 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 49.042 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

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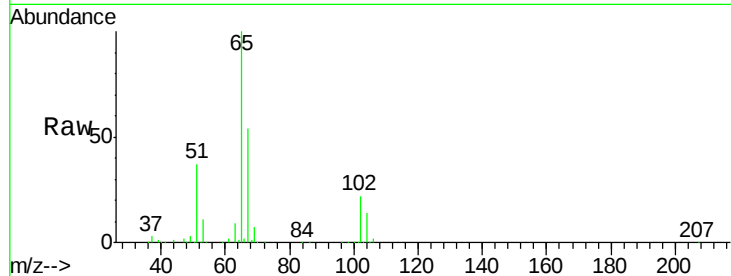
JBD-WC-S-SB-02-0-15

Tgt Ion: 65 Resp: 197202

Ion Ratio Lower Upper

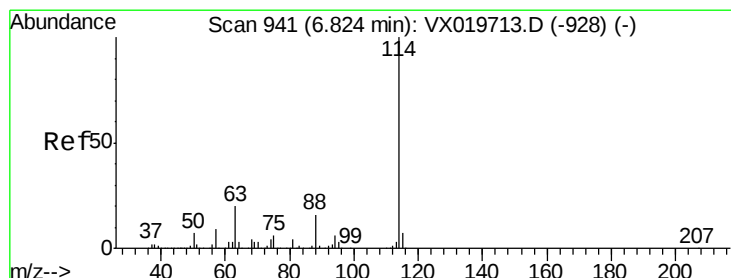
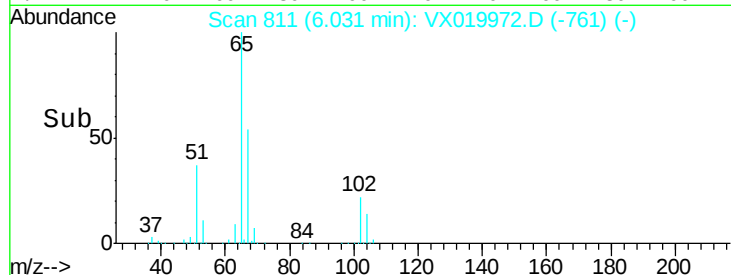
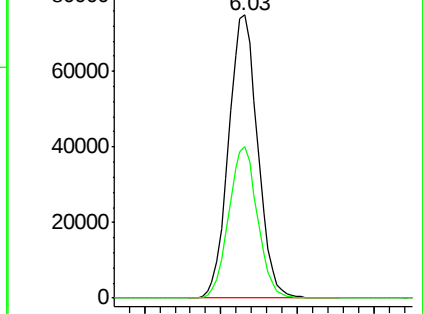
65 100

67 52.9 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

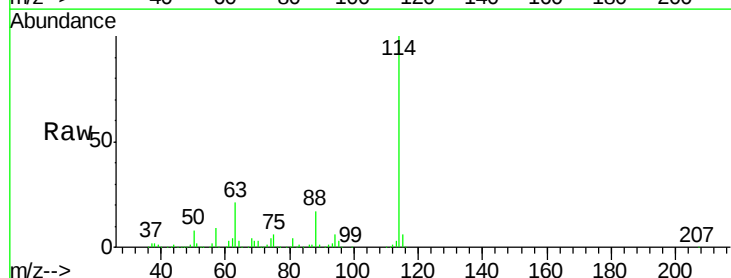
Tgt Ion: 114 Resp: 511260

Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.8

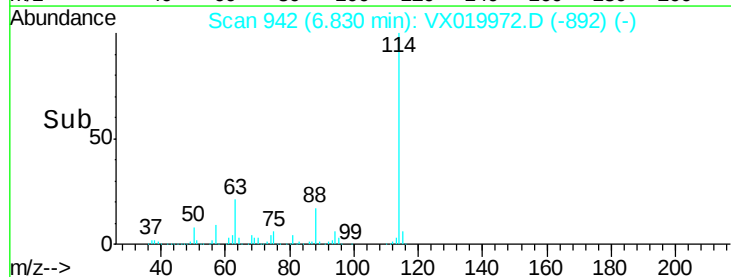
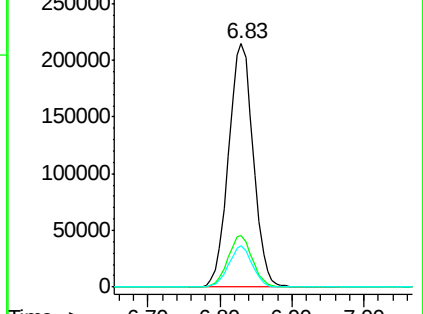
88 17.0 0.0 32.8

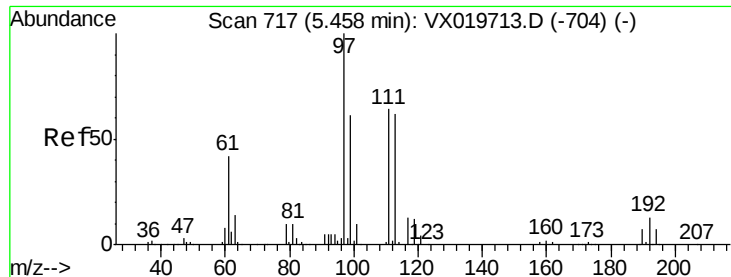


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.610 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-02-0-15

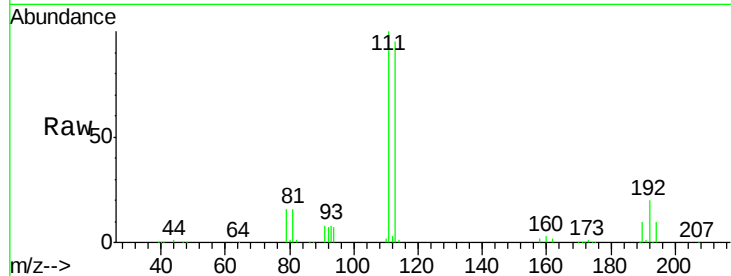
Tgt Ion:113 Resp: 157314

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

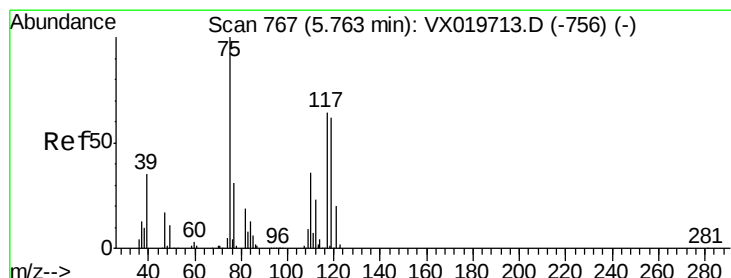
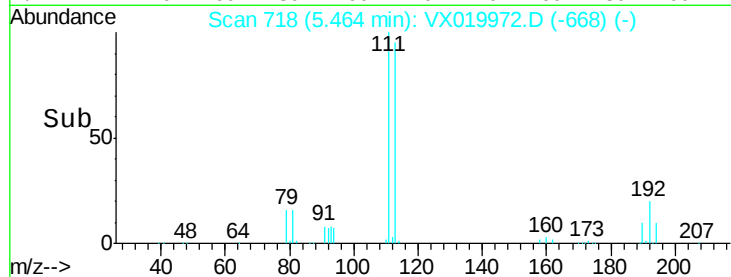
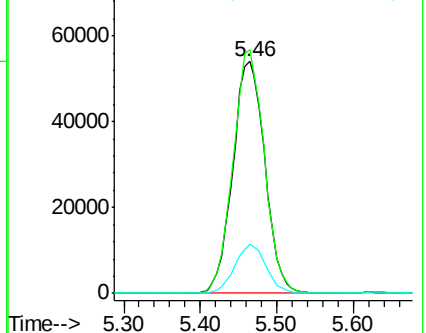
192 20.6 16.7 25.1



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: 5.090 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

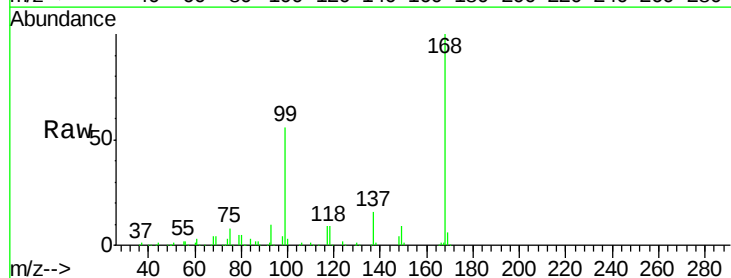
Tgt Ion: 75 Resp: 23517

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

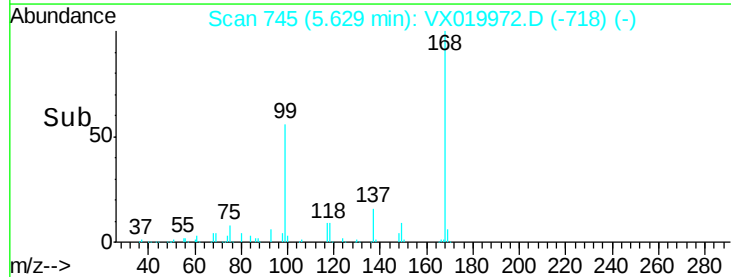
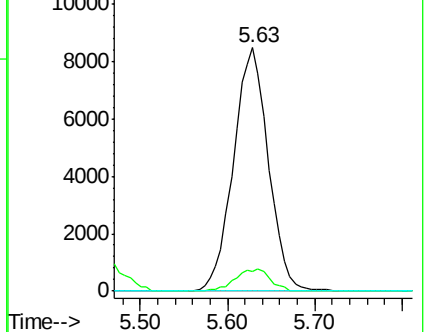
77 0.0 25.3 37.9#

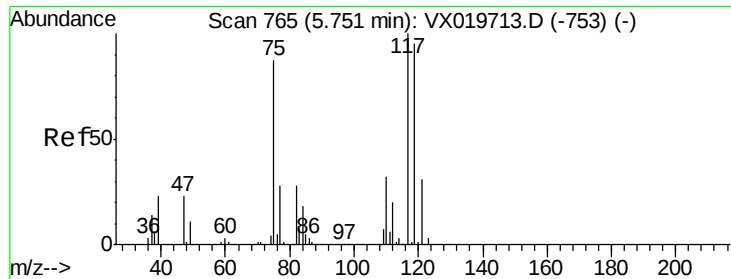


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

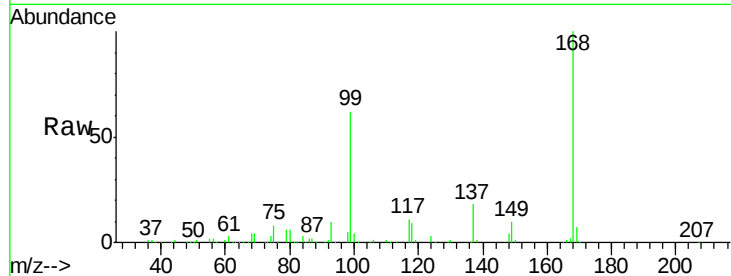




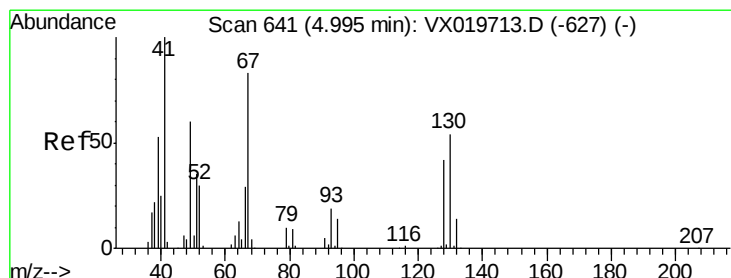
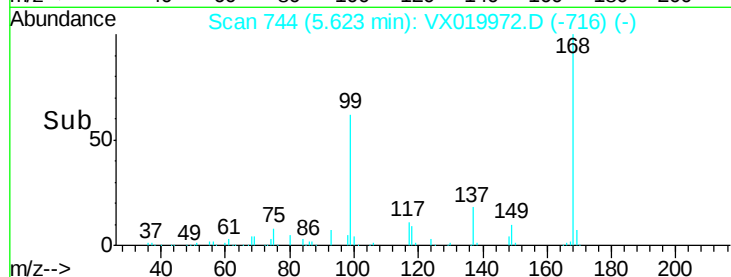
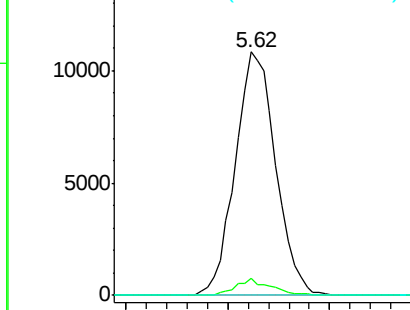
#38
Carbon Tetrachloride
Concen: 6.600 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.13 min
Lab File: VX019972.D
Acq: 13 Dec 2020 07:31

Instrument :
MSVOA_X
ClientSampleId :
JBD-WC-S-SB-02-0-15

Tgt Ion: 117 Resp: 29859
Ion Ratio Lower Upper
117 100
119 7.1 76.2 114.2#
121 0.0 24.8 37.2#

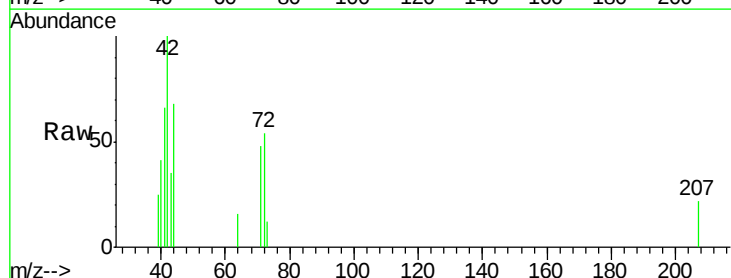


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

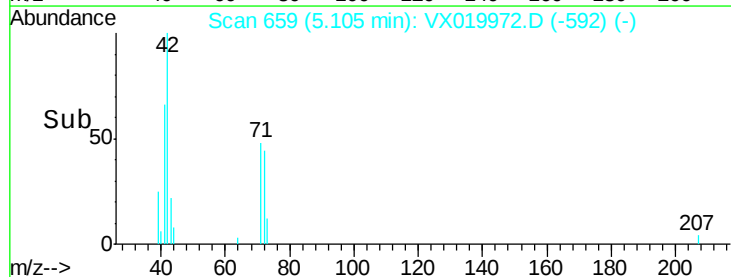
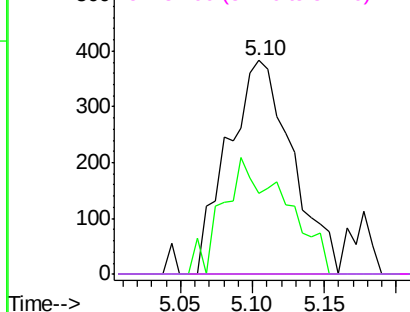


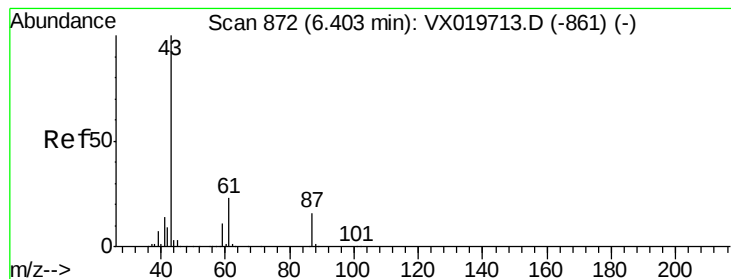
#41
Methacrylonitrile
Concen: 0.464 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.11 min
Lab File: VX019972.D
Acq: 13 Dec 2020 07:31

Tgt Ion: 41 Resp: 1189
Ion Ratio Lower Upper
41 100
39 53.8 42.5 63.7
67 0.0 65.0 97.6#
52 0.0 25.3 37.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 3.559 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-02-0-15

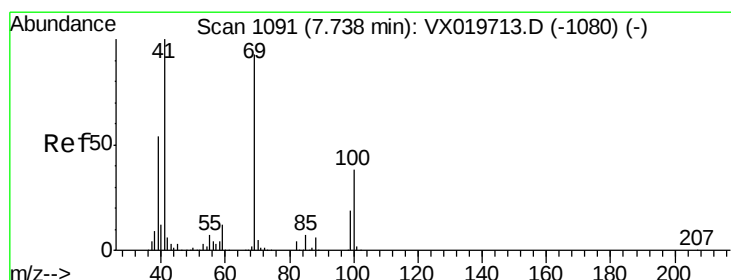
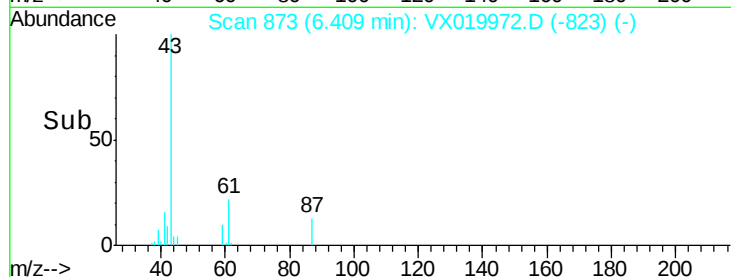
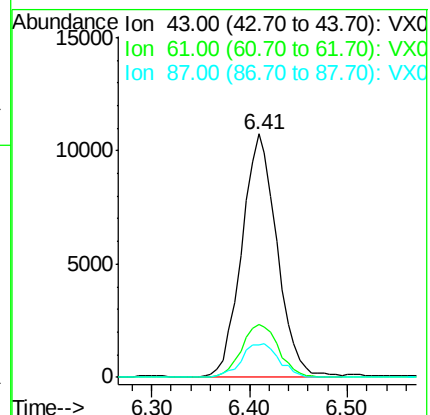
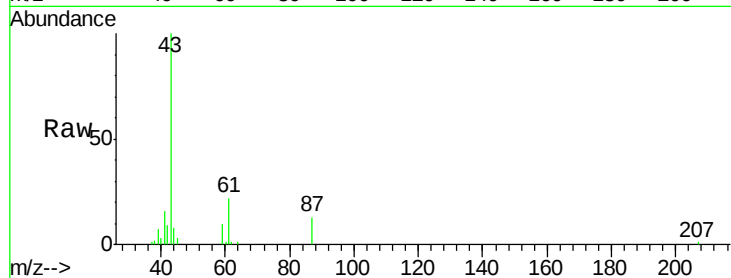
Tgt Ion: 43 Resp: 26988

Ion Ratio Lower Upper

43 100

61 22.6 18.2 27.4

87 14.5 12.5 18.7



#48

Methyl methacrylate

Concen: 1.835 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

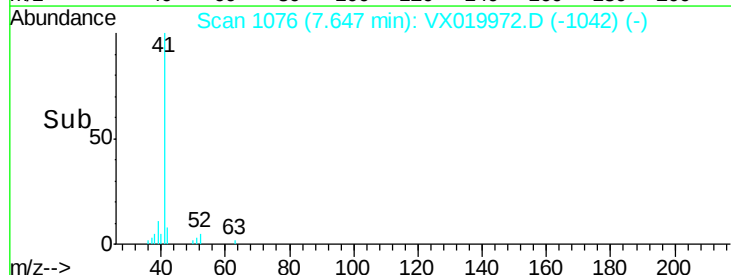
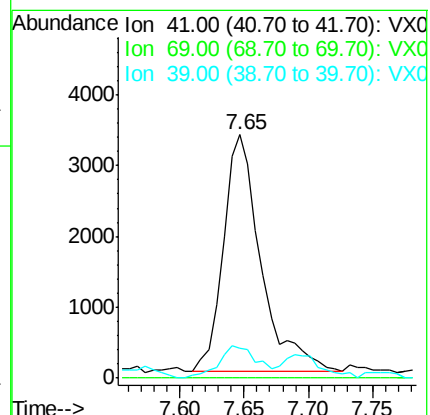
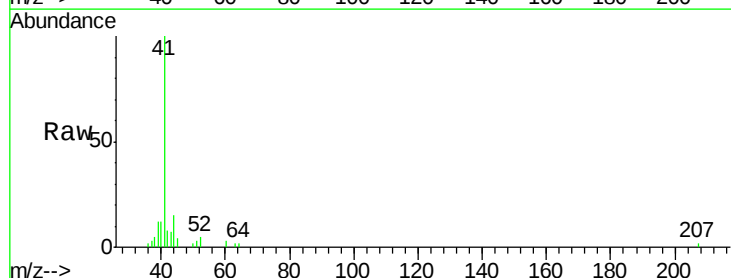
Tgt Ion: 41 Resp: 6845

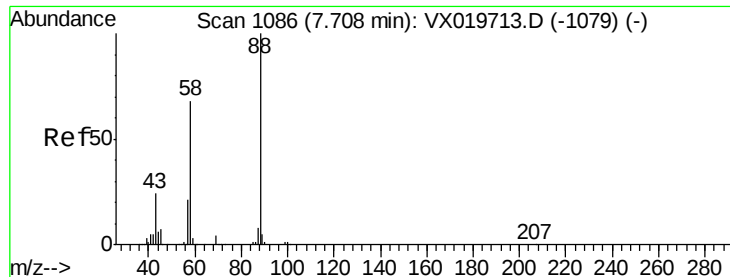
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.911 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-02-0-15

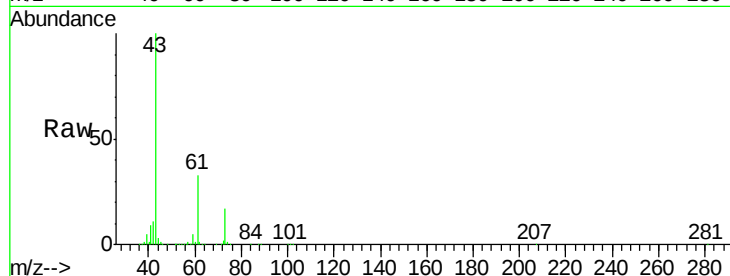
Tgt Ion: 88 Resp: 263

Ion Ratio Lower Upper

88 100

43 558335.0 23.2 34.8#

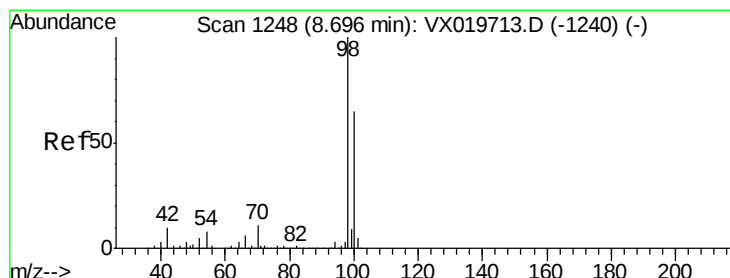
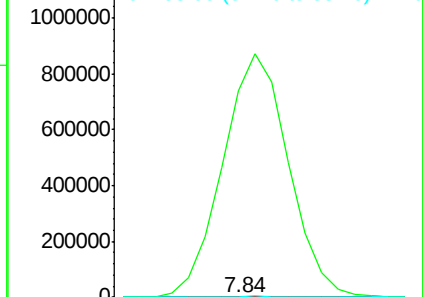
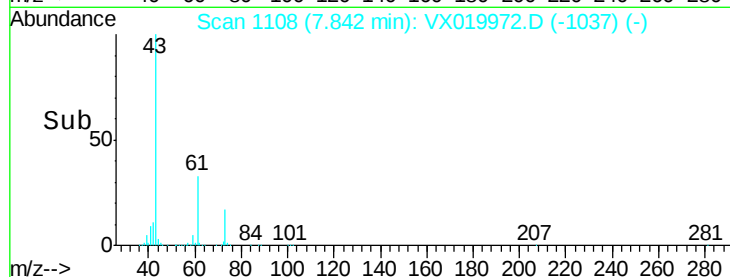
58 2825.1 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.280 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019972.D

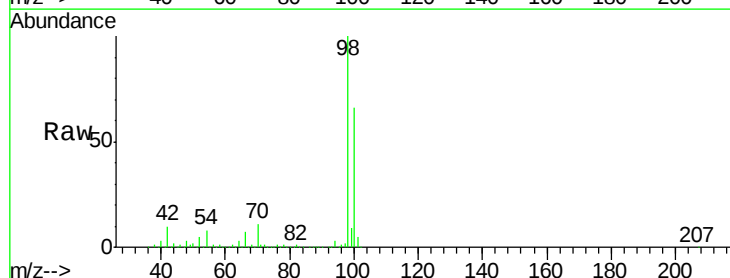
Acq: 13 Dec 2020 07:31

Tgt Ion: 98 Resp: 634257

Ion Ratio Lower Upper

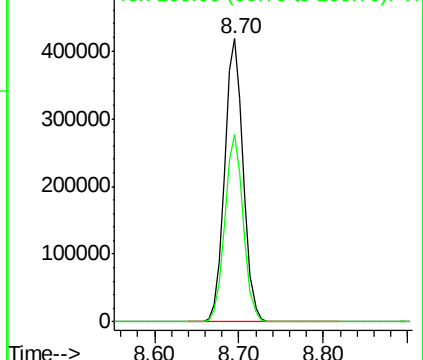
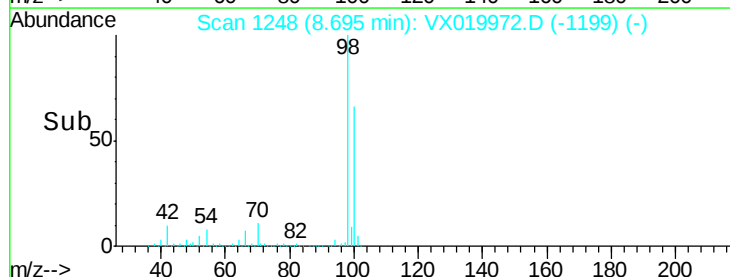
98 100

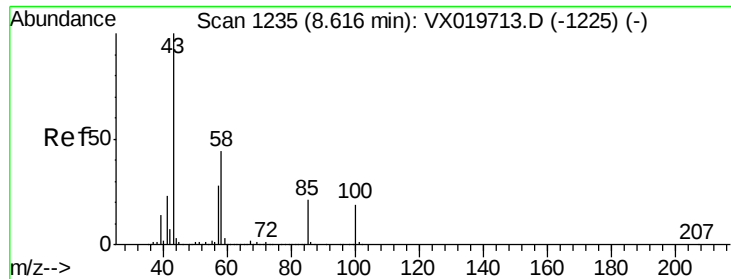
100 65.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

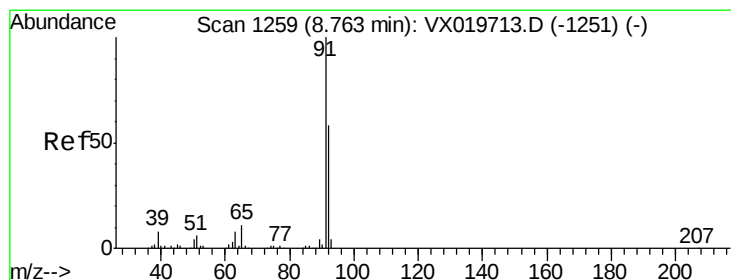
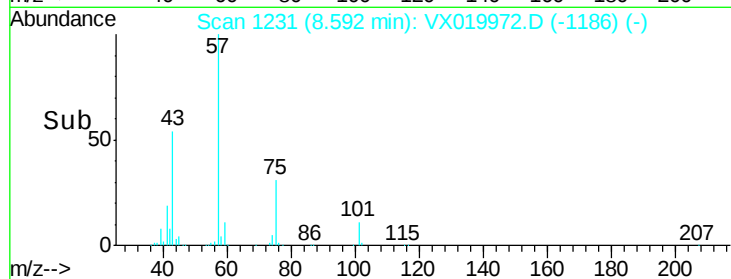
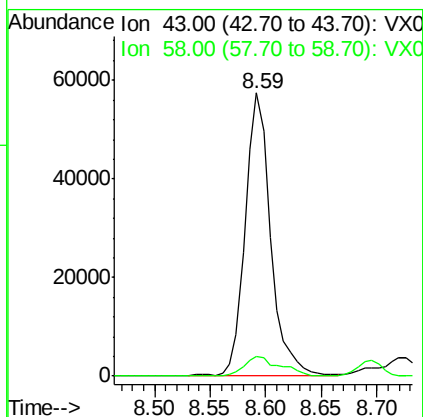
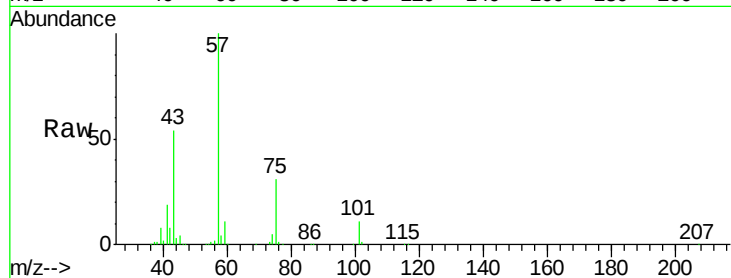




#51
 4-Methyl-2-Pentanone
 Concen: 19.529 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX019972.D
 Acq: 13 Dec 2020 07:31

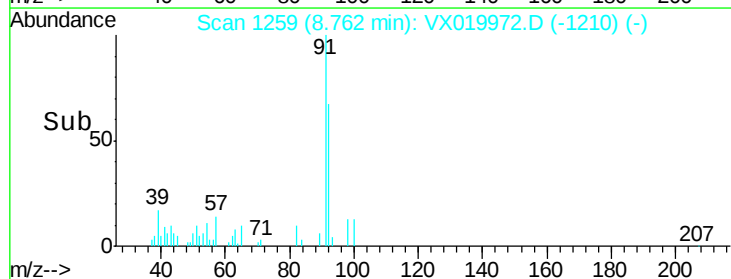
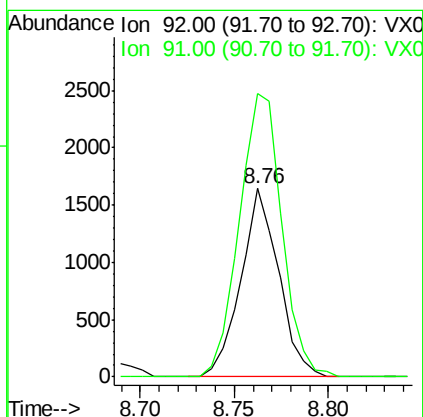
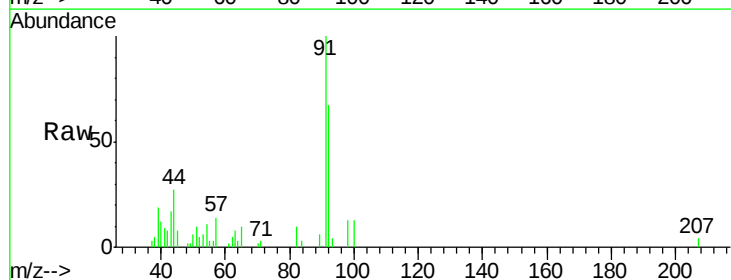
Instrument :
 MSVOA_X
 ClientSampleId :
 JBD-WC-S-SB-02-0-15

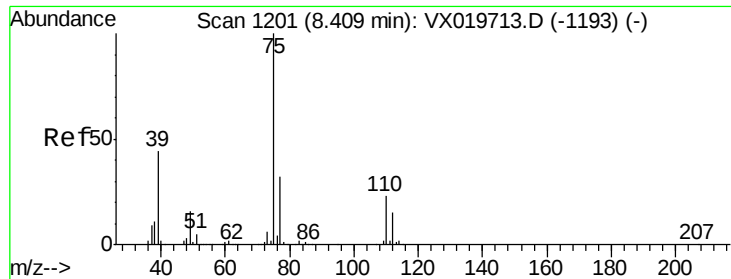
Tgt Ion: 43 Resp: 90420
 Ion Ratio Lower Upper
 43 100
 58 9.8 35.4 53.0#



#52
 Toluene
 Concen: 0.260 ug/l
 RT: 8.76 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VX019972.D
 Acq: 13 Dec 2020 07:31

Tgt Ion: 92 Resp: 2291
 Ion Ratio Lower Upper
 92 100
 91 169.2 137.1 205.7

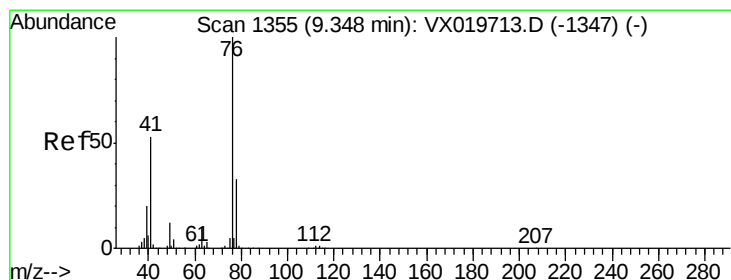
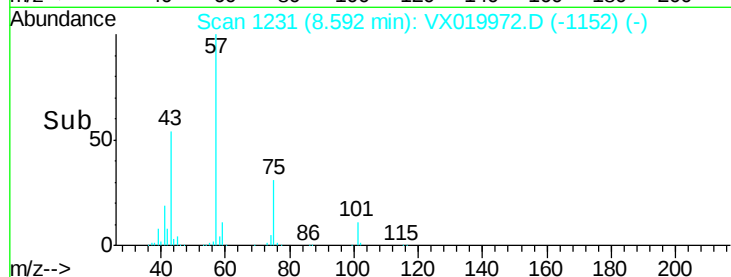
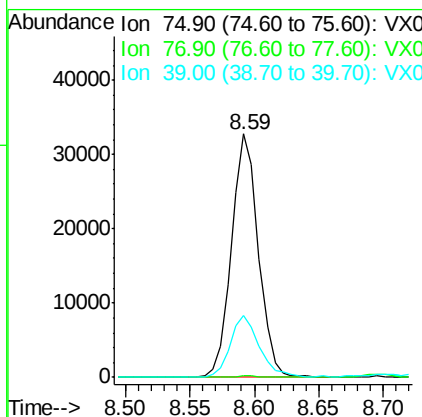
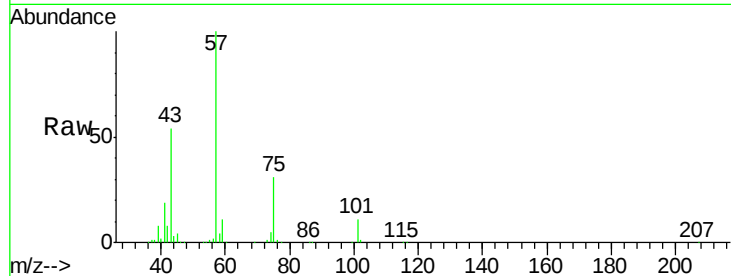




#54
 cis-1,3-Dichloropropene
 Concen: 8.357 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019972.D
 Acq: 13 Dec 2020 07:31

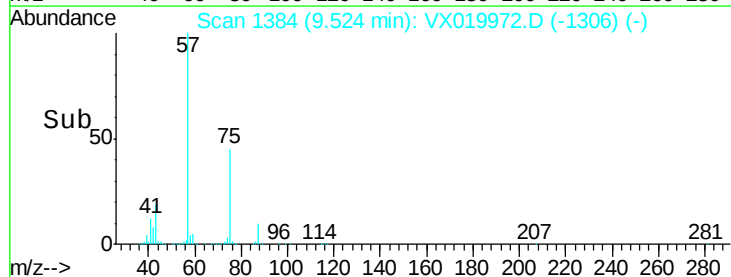
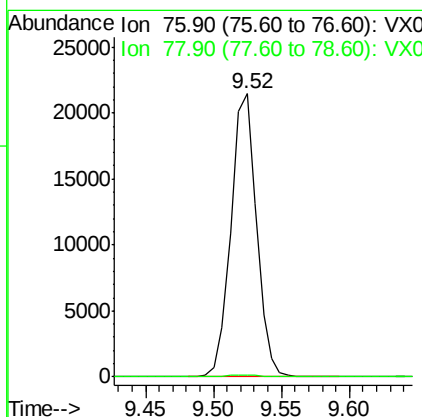
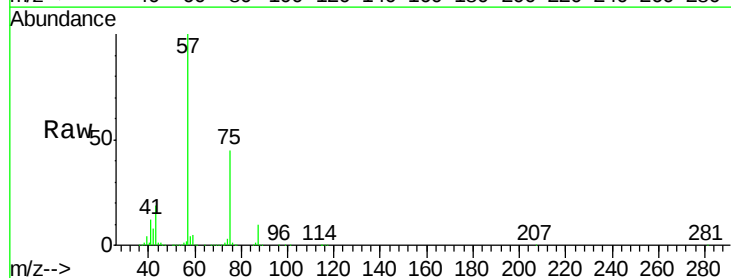
Instrument :
 MSVOA_X
 ClientSampleId :
 JBD-WC-S-SB-02-0-15

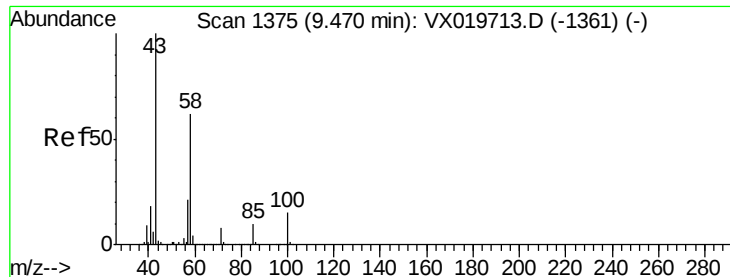
Tgt Ion: 75 Resp: 47618
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 25.2 35.1 52.7#



#57
 1,3-Dichloropropane
 Concen: 4.633 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019972.D
 Acq: 13 Dec 2020 07:31

Tgt Ion: 76 Resp: 28136
 Ion Ratio Lower Upper
 76 100
 78 0.7 26.2 39.2#

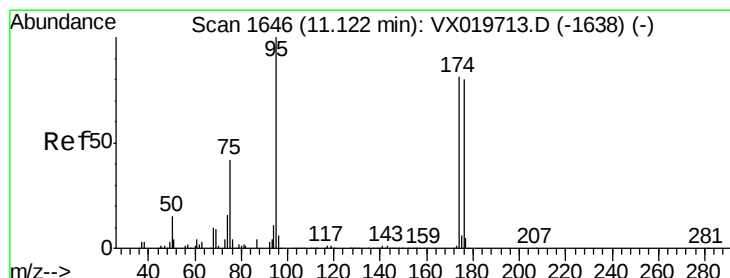
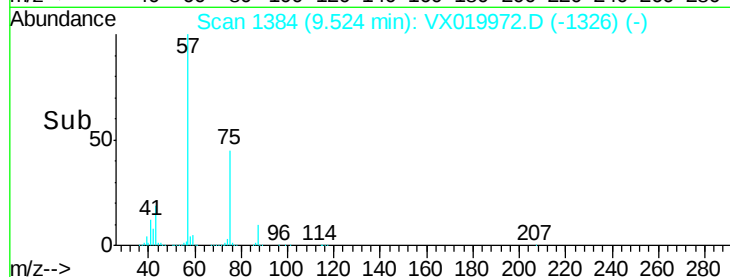
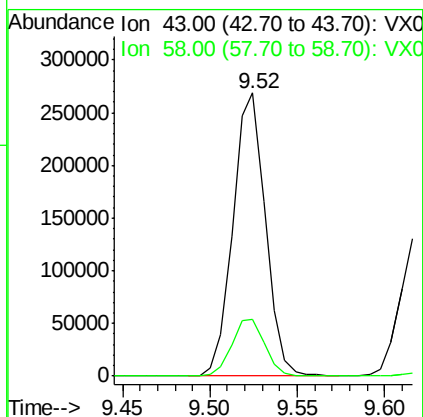
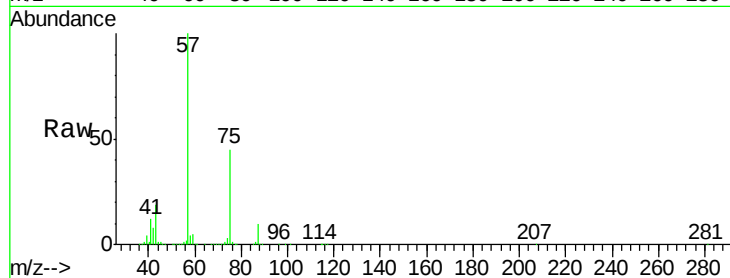




#59
2-Hexanone
Concen: 95.952 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019972.D
Acq: 13 Dec 2020 07:31

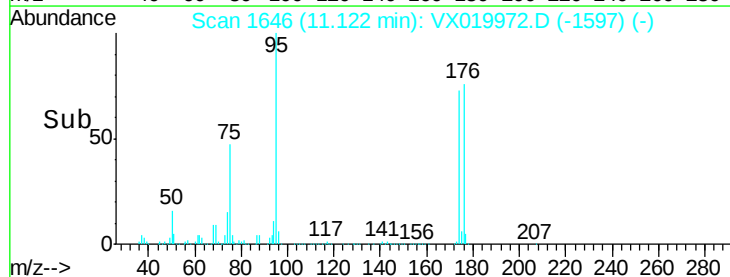
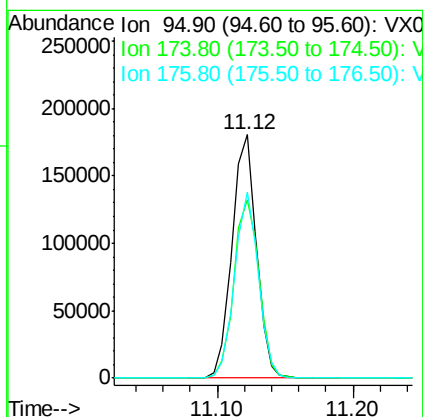
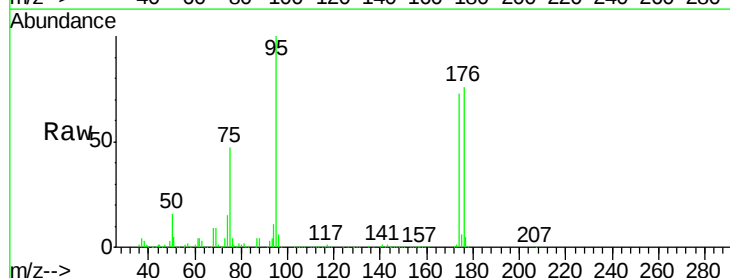
Instrument :
MSVOA_X
ClientSampleId :
JBD-WC-S-SB-02-0-15

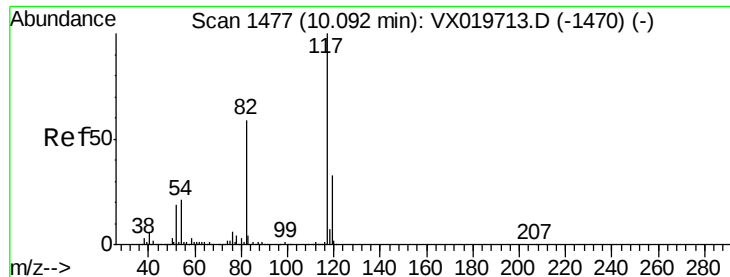
Tgt Ion: 43 Resp: 344362
Ion Ratio Lower Upper
43 100
58 20.6 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 46.816 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019972.D
Acq: 13 Dec 2020 07:31

Tgt Ion: 95 Resp: 224778
Ion Ratio Lower Upper
95 100
174 76.1 0.0 154.6
176 74.7 0.0 155.8

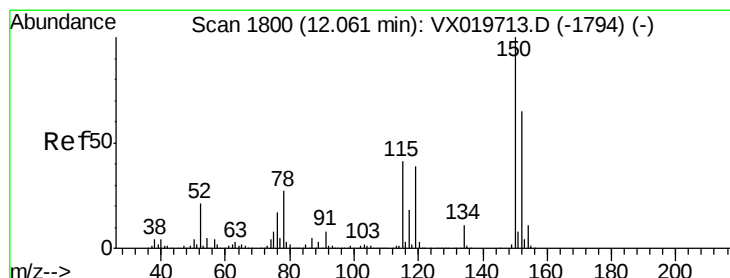
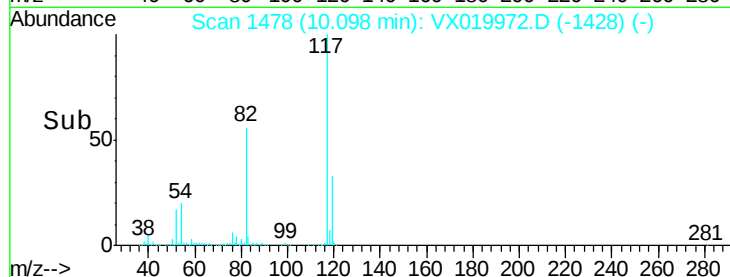
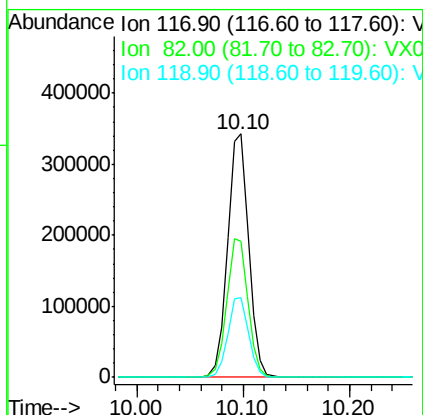
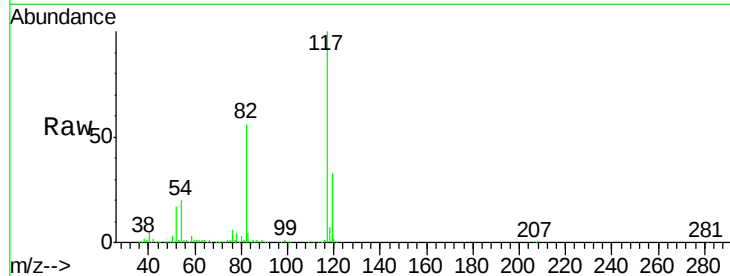




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019972.D
Acq: 13 Dec 2020 07:31

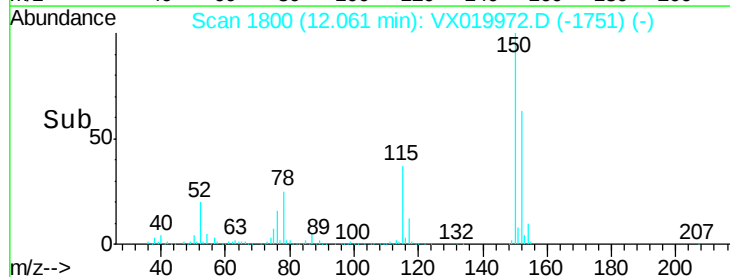
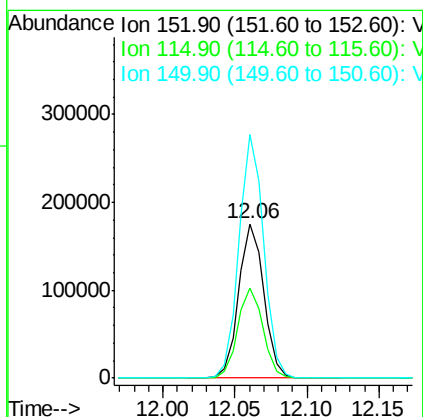
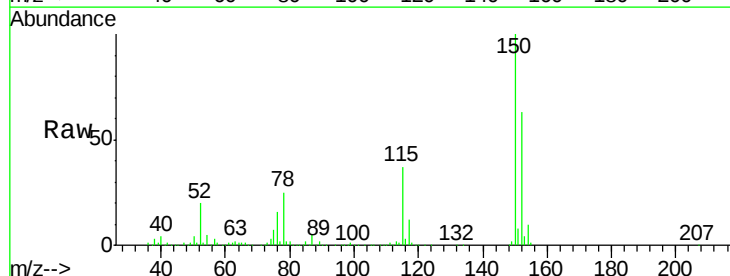
Instrument :
MSVOA_X
ClientSampleId :
JBD-WC-S-SB-02-0-15

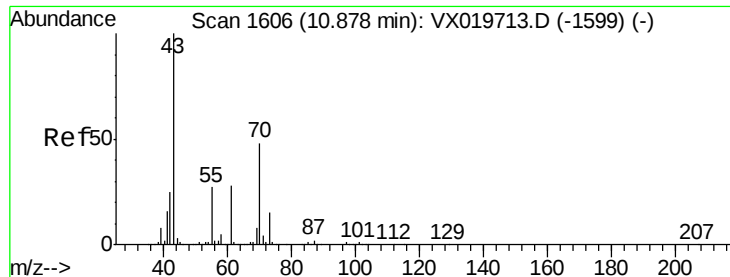
Tgt Ion:117 Resp: 475275
Ion Ratio Lower Upper
117 100
82 55.8 47.4 71.2
119 32.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019972.D
Acq: 13 Dec 2020 07:31

Tgt Ion:152 Resp: 212498
Ion Ratio Lower Upper
152 100
115 58.8 41.1 123.3
150 155.5 0.0 349.0





#74

N-ethyl acetate

Concen: 0.232 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-02-0-15

Tgt Ion: 43 Resp: 1348

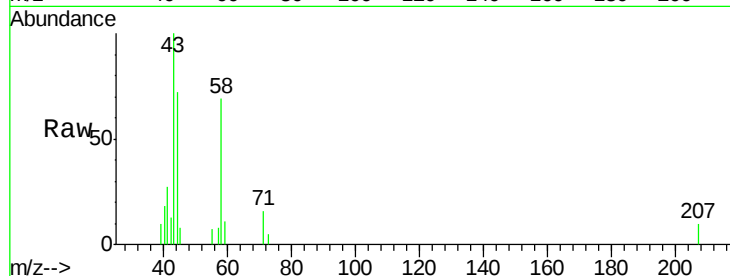
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 10.8 21.5 32.3#

61 0.0 22.1 33.1#

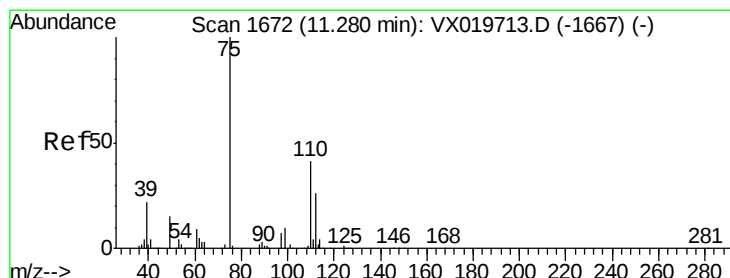
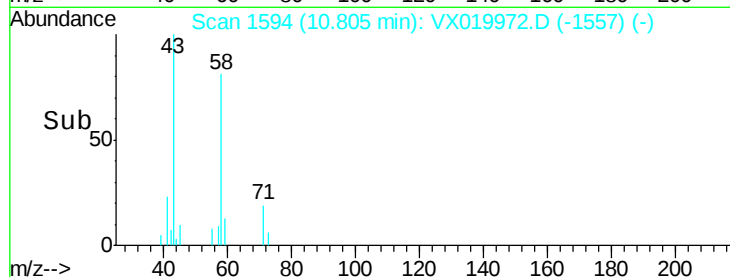
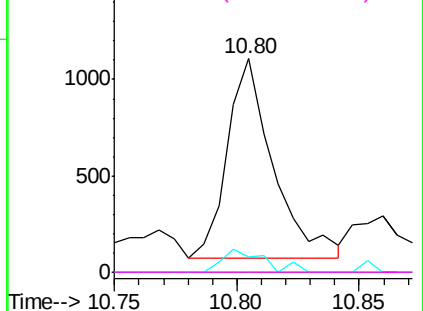


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.723 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019972.D

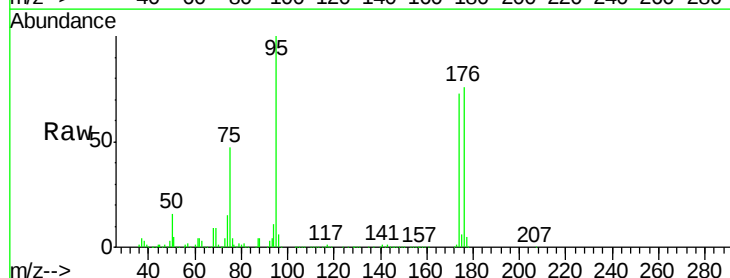
Acq: 13 Dec 2020 07:31

Tgt Ion: 75 Resp: 108297

Ion Ratio Lower Upper

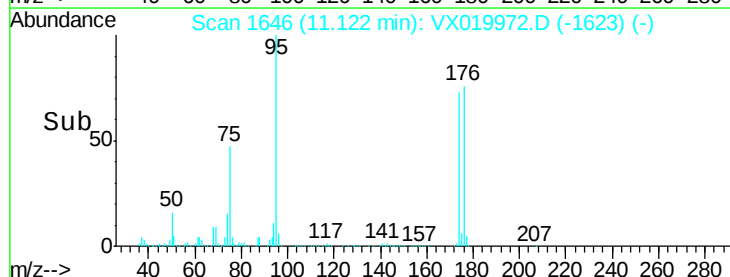
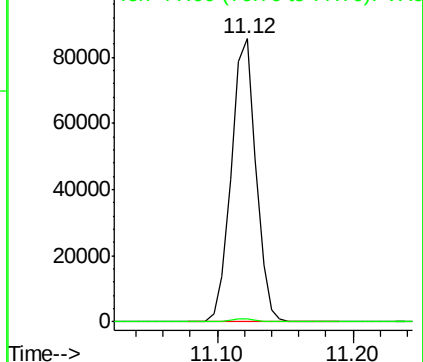
75 100

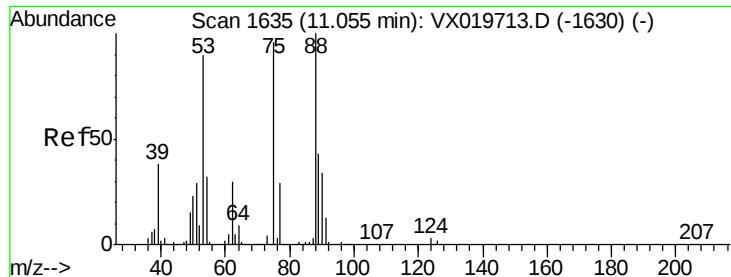
77 1.2 19.1 57.5#



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: 65.688 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019972.D

Acq: 13 Dec 2020 07:31

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-02-0-15

Tgt Ion: 75 Resp: 108297

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

