

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110620\
 Data File : VN064498.D
 Acq On : 6 Nov 2020 21:17
 Operator : JC/MD
 Sample : L4625-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CONTAINER-002-1B

Quant Time: Nov 07 03:54:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	240253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	513059	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	539978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	191504	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	238774	57.06	ug/l	0.00
Spiked Amount			Recovery	=	114.12%	
35) Dibromofluoromethane	7.55	113	171631	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	10.06	98	663938	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
62) 4-Bromofluorobenzene	12.38	95	251682	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	

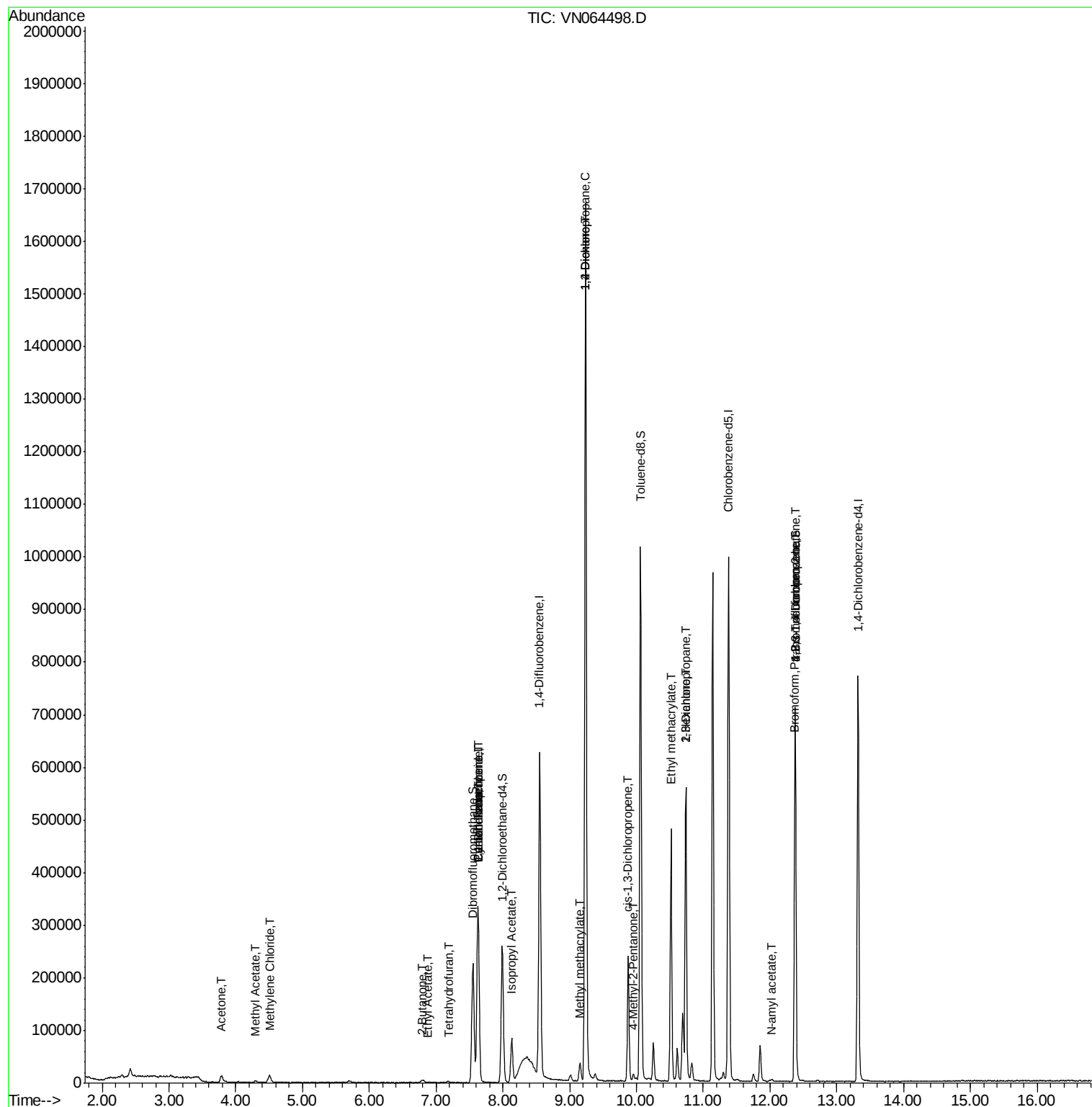
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	22726	14.256	ug/l	94
18) Methyl Acetate	4.29	43	6271	2.001	ug/l #	74
20) Methylene Chloride	4.51	84	8842	2.796	ug/l #	92
25) 2-Butanone	6.79	43	1673	0.824	ug/l	97
29) Tetrahydrofuran	7.18	42	2235	1.794	ug/l #	55
31) Cyclohexane	7.63	56	7062	1.388	ug/l #	36
36) 1,1-Dichloropropene	7.63	75	23798	4.391	ug/l #	49
37) Ethyl Acetate	6.88	43	504	0.853	ug/l #	71
38) Carbon Tetrachloride	7.62	117	28938	4.996	ug/l #	17
43) Isopropyl Acetate	8.13	43	100108	11.397	ug/l	100
45) 1,2-Dichloropropane	9.24	63	2029	0.477	ug/l #	45
48) Methyl methacrylate	9.15	41	5665	1.278	ug/l #	15
49) 1,4-Dioxane	9.25	88	70	1.199	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	9556	1.866	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	36697	5.382	ug/l #	70
56) Ethyl methacrylate	10.52	69	3451	2.374	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5511	0.833	ug/l #	42
59) 2-Hexanone	10.74	43	87911	24.735	ug/l #	54
71) Bromoform	12.36	173	202	1.335	ug/l #	1
74) N-amyl acetate	12.01	43	2427	1.535	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	139148	29.989	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	139148	83.733	ug/l #	8

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

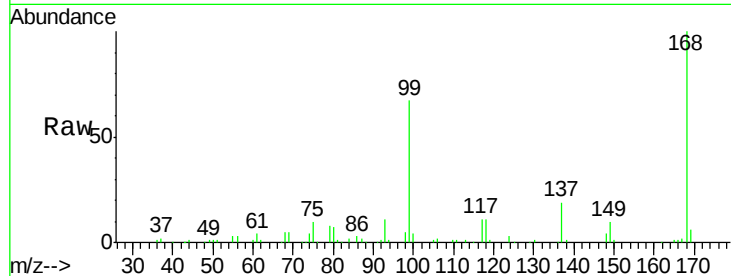
CONTAINER-002-1B

Tot Ion:168 Resp: 240253

Ion Ratio Lower Upper

168 100

99 66.9 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

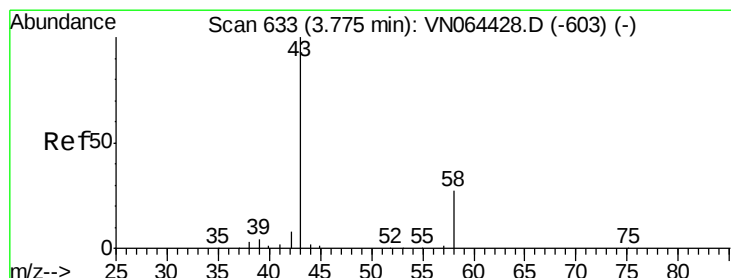
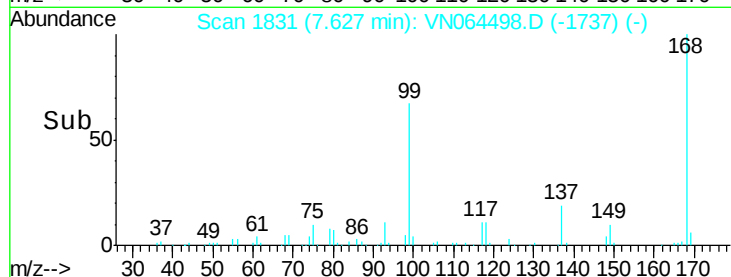
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 14.256 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064498.D

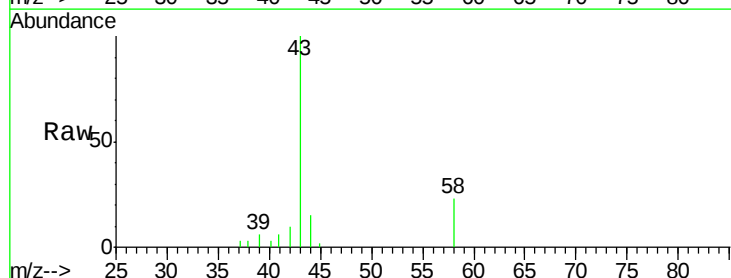
Acq: 6 Nov 2020 21:17

Tgt Ion: 43 Resp: 22726

Ion Ratio Lower Upper

43 100

58 23.4 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

10000

8000

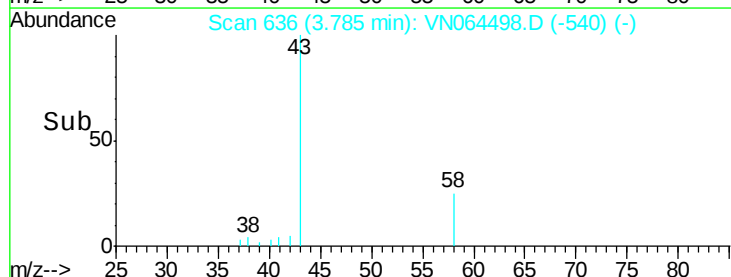
6000

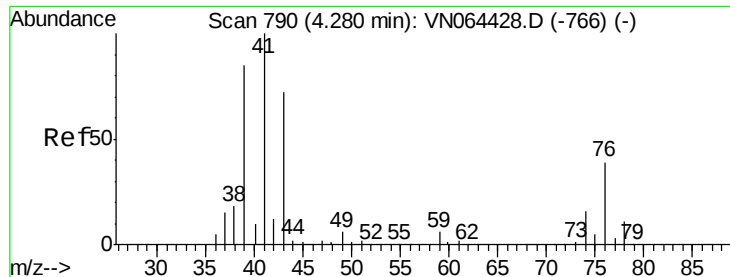
4000

2000

0

Time--> 3.70 3.75 3.80 3.85 3.90

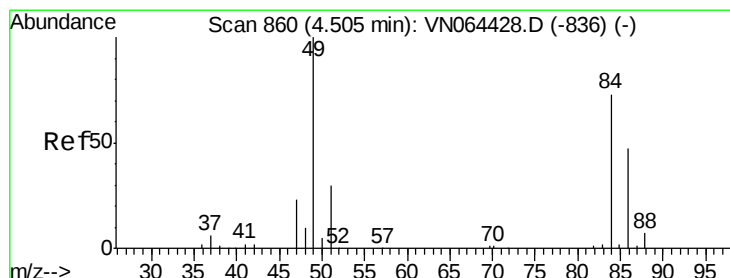
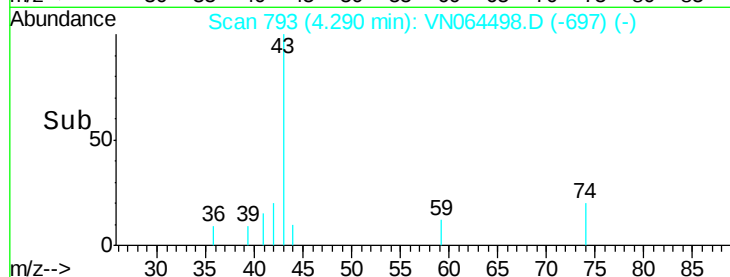
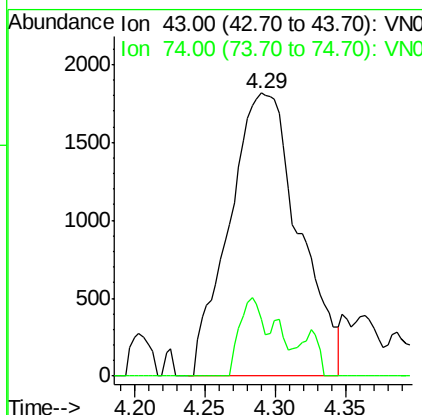
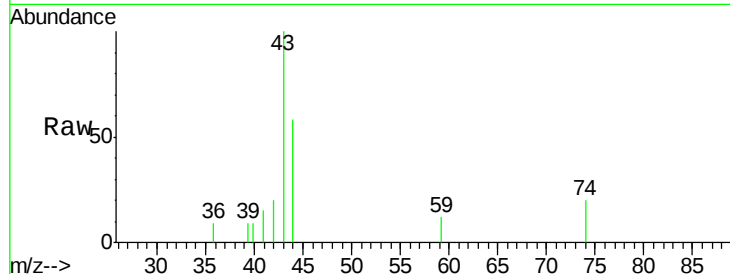




#18
Methyl Acetate
Concen: 2.001 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064498.D
Acq: 6 Nov 2020 21:17

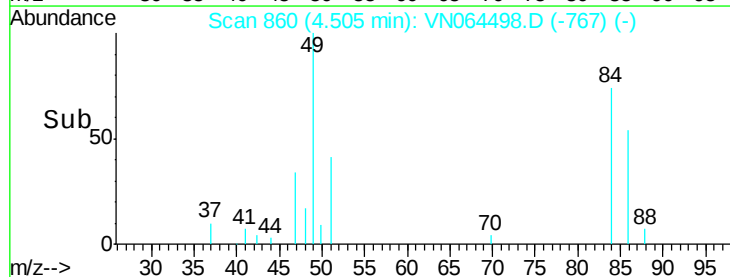
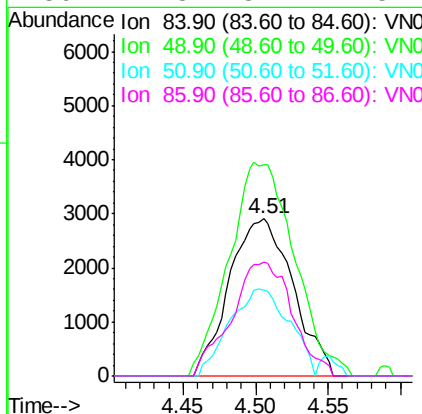
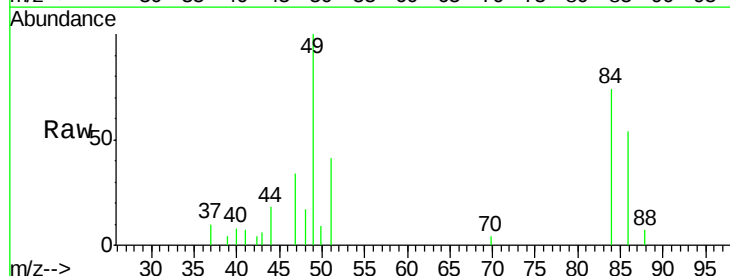
Instrument :
MSVOA_N
ClientSampleId :
CONTAINER-002-1B

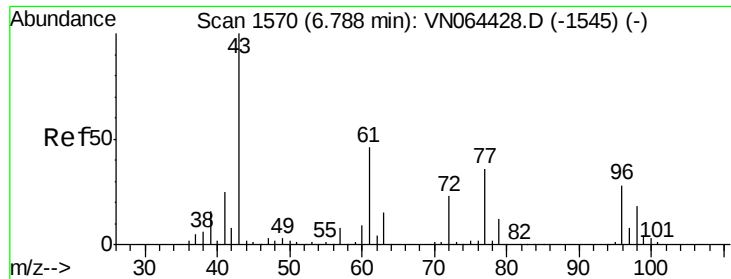
Tot Ion: 43 Resp: 6271
Ion Ratio Lower Upper
43 100
74 9.1 17.0 25.4#



#20
Methylene Chloride
Concen: 2.796 ug/l
RT: 4.51 min Scan# 860
Delta R.T. -0.00 min
Lab File: VN064498.D
Acq: 6 Nov 2020 21:17

Tgt Ion: 84 Resp: 8842
Ion Ratio Lower Upper
84 100
49 134.3 110.1 165.1
51 54.5 33.6 50.4#
86 72.8 52.1 78.1

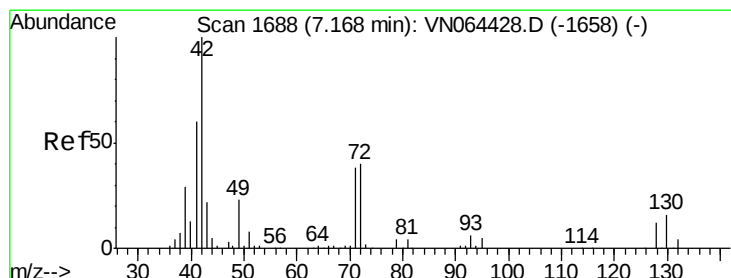
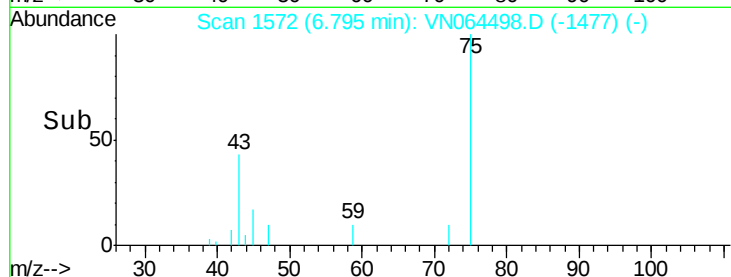
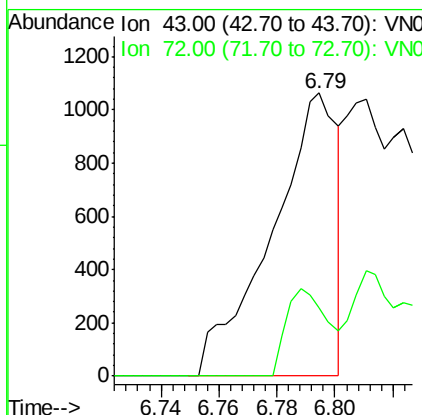
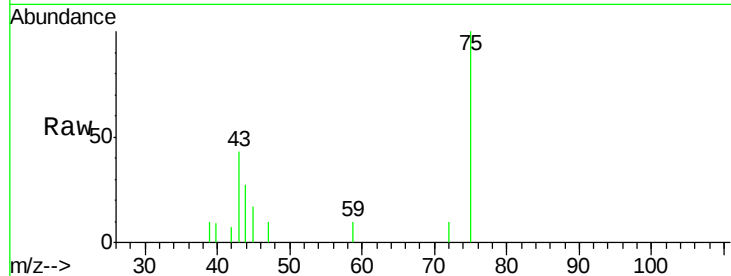




#25
 2-Butanone
 Concen: 0.824 ug/l
 RT: 6.79 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: VN064498.D
 Acq: 6 Nov 2020 21:17

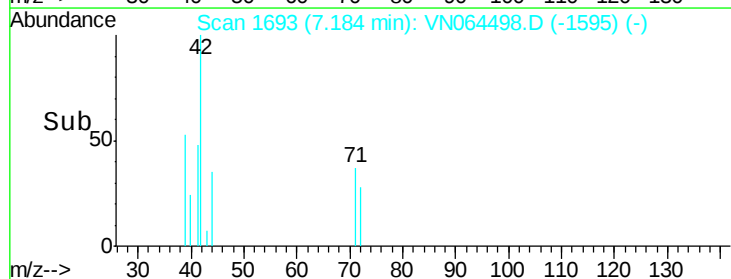
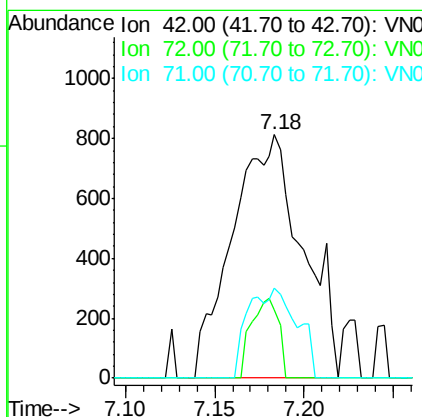
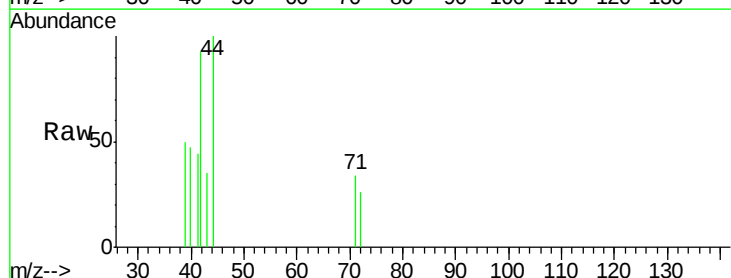
Instrument :
 MSVOA_N
 ClientSampleId :
 CONTAINER-002-1B

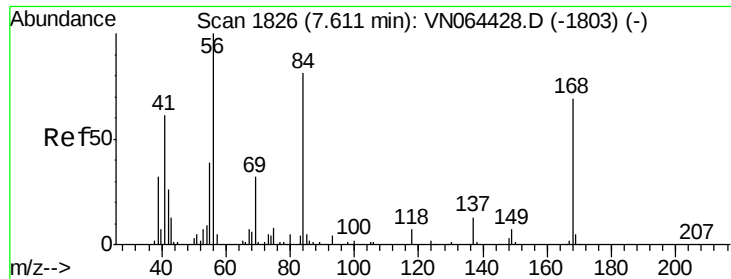
Tot Ion: 43 Resp: 1673
 Ion Ratio Lower Upper
 43 100
 72 24.4 18.5 27.7



#29
 Tetrahydrofuran
 Concen: 1.794 ug/l
 RT: 7.18 min Scan# 1693
 Delta R.T. 0.02 min
 Lab File: VN064498.D
 Acq: 6 Nov 2020 21:17

Tgt Ion: 42 Resp: 2235
 Ion Ratio Lower Upper
 42 100
 72 12.8 31.7 47.5#
 71 10.0 29.8 44.6#





#31

Cyclohexane

Concen: 1.388 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

CONTAINER-002-1B

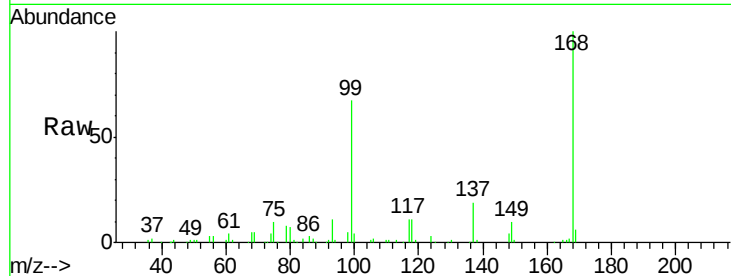
Tot Ion: 56 Resp: 7062

Ion Ratio Lower Upper

56 100

69 155.3 25.6 38.4#

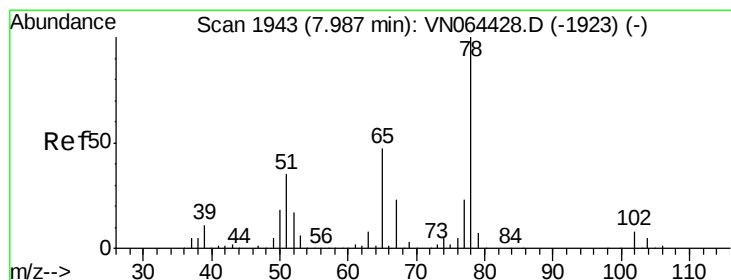
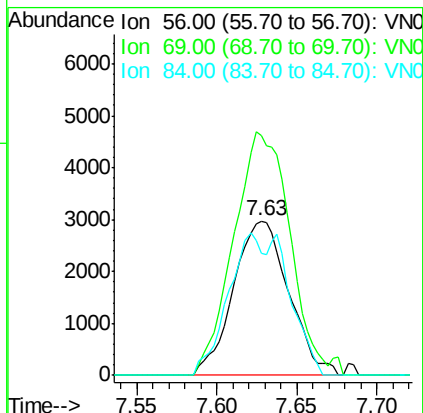
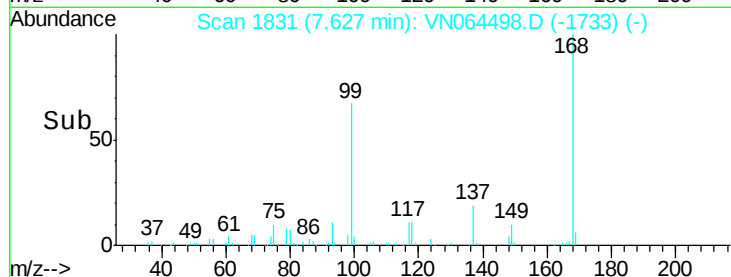
84 79.5 63.0 94.6



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 57.057 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064498.D

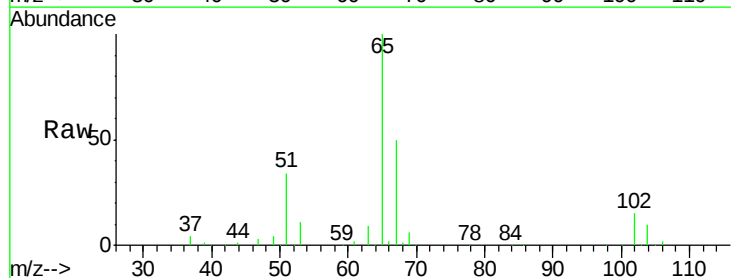
Acq: 6 Nov 2020 21:17

Tgt Ion: 65 Resp: 238774

Ion Ratio Lower Upper

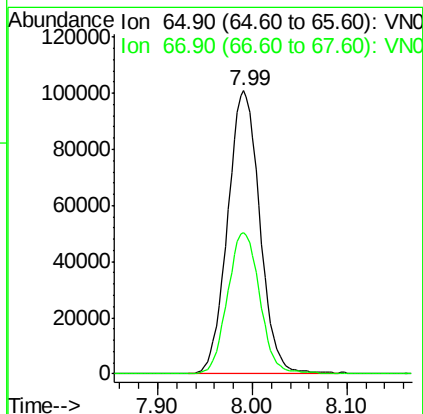
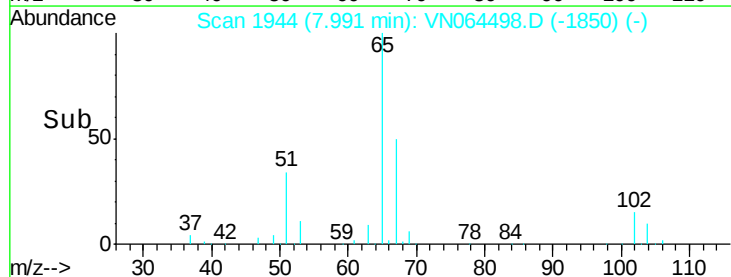
65 100

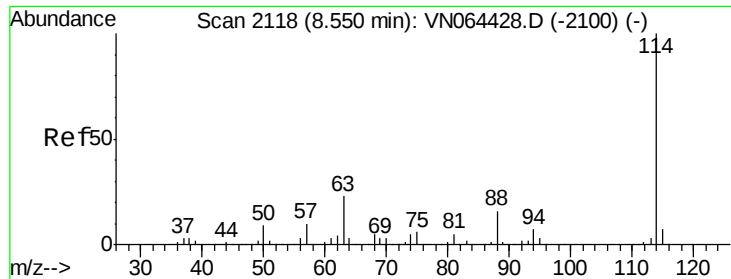
67 49.7 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

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CONTAINER-002-1B

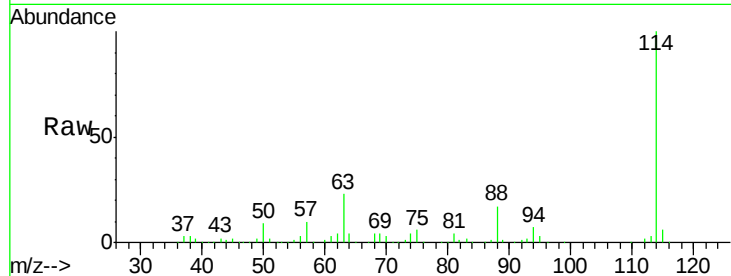
Tot Ion:114 Resp: 513059

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.6

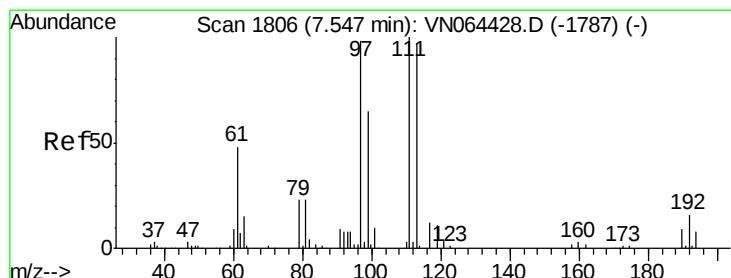
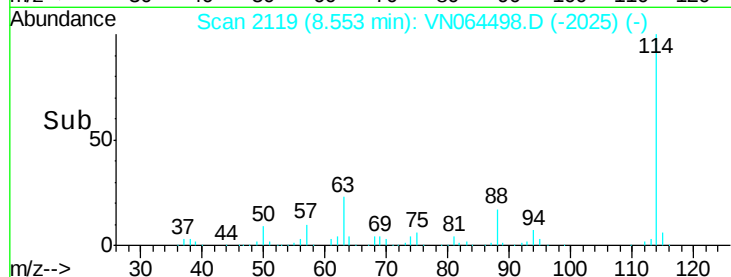
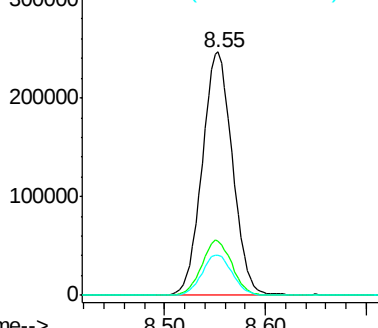
88 16.5 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.133 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

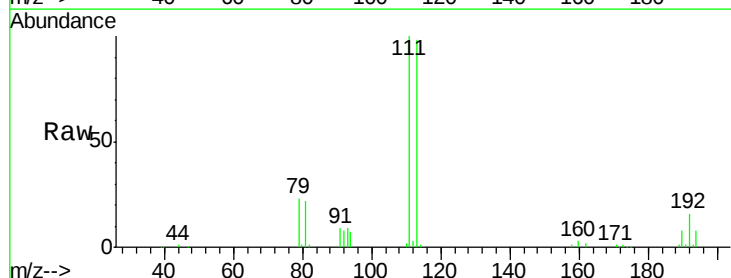
Tgt Ion:113 Resp: 171631

Ion Ratio Lower Upper

113 100

111 103.3 81.1 121.7

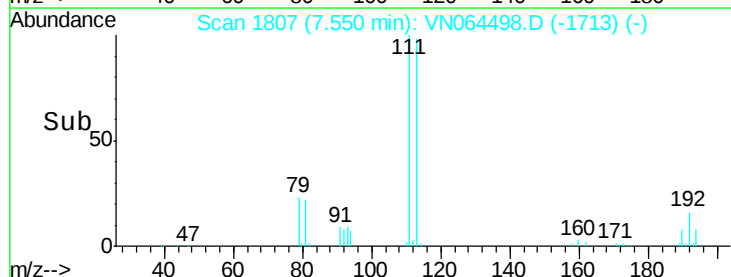
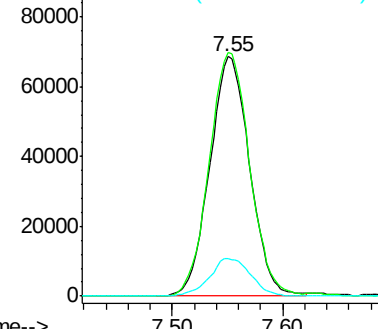
192 16.2 12.8 19.2

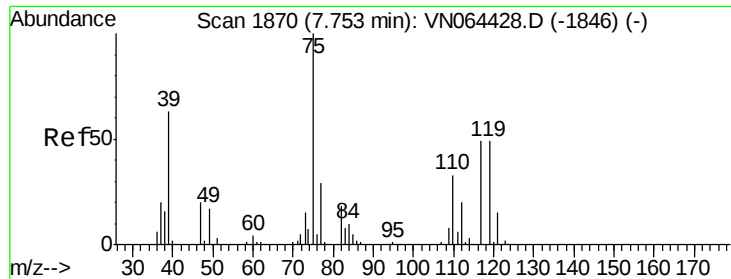


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

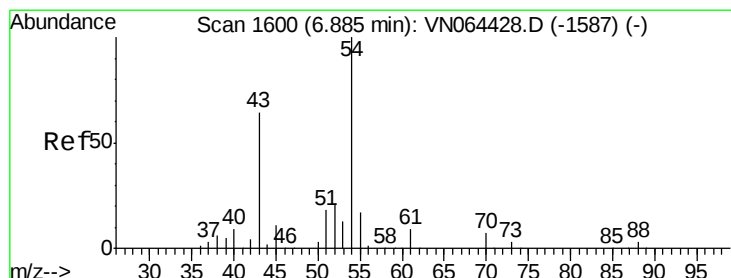
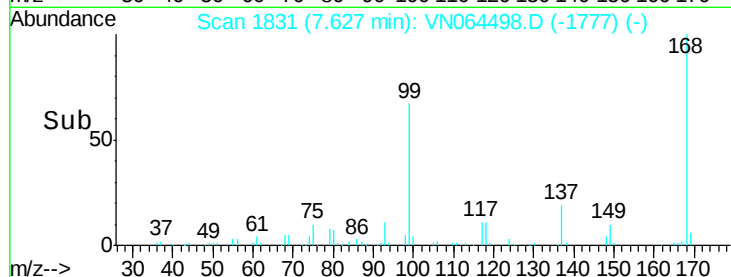
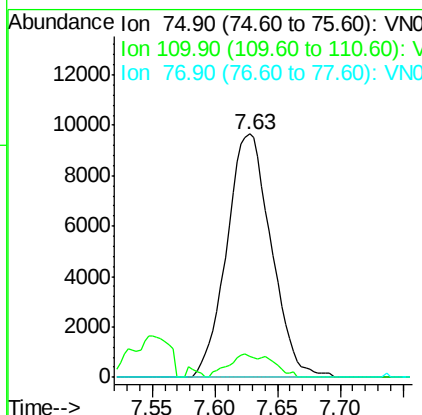
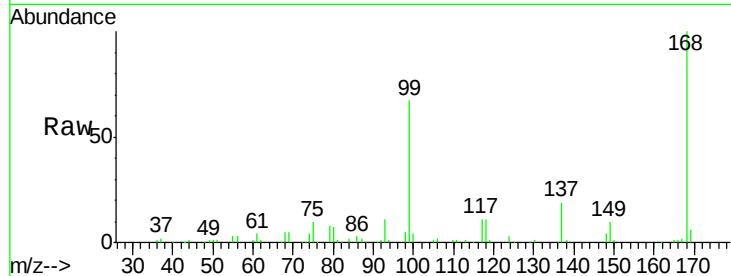




#36
 1,1-Dichloropropene
 Concen: 4.391 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064498.D
 Acq: 6 Nov 2020 21:17

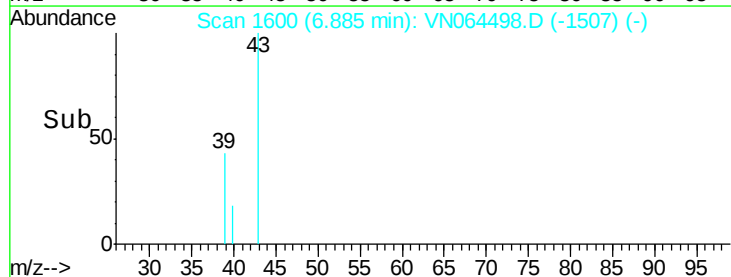
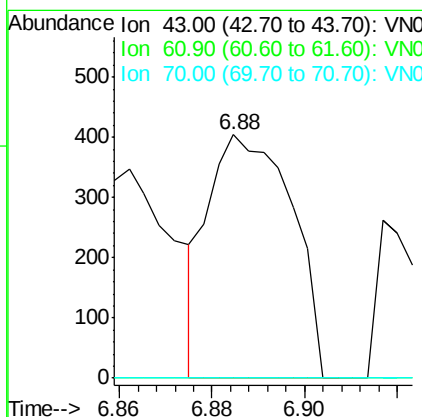
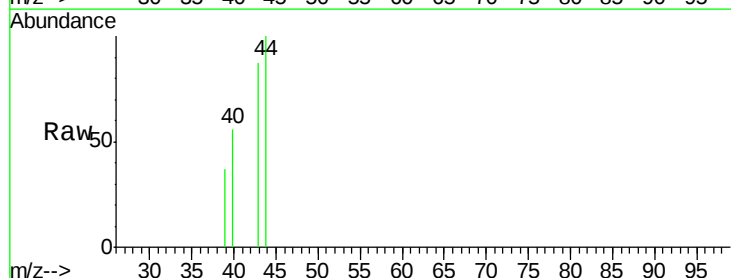
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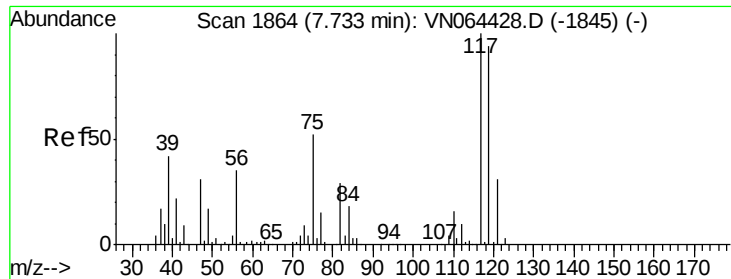
Tot Ion: 75 Resp: 23798
 Ion Ratio Lower Upper
 75 100
 110 5.9 16.0 48.0#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.853 ug/l
 RT: 6.88 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VN064498.D
 Acq: 6 Nov 2020 21:17

Tgt Ion: 43 Resp: 504
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 4.996 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

CONTAINER-002-1B

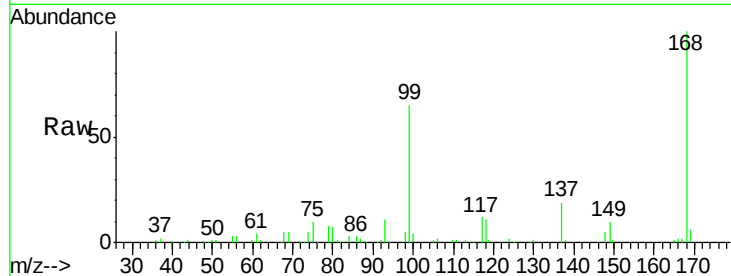
Tot Ion:117 Resp: 28938

Ion Ratio Lower Upper

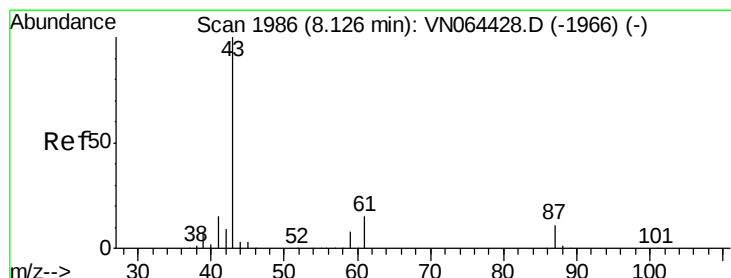
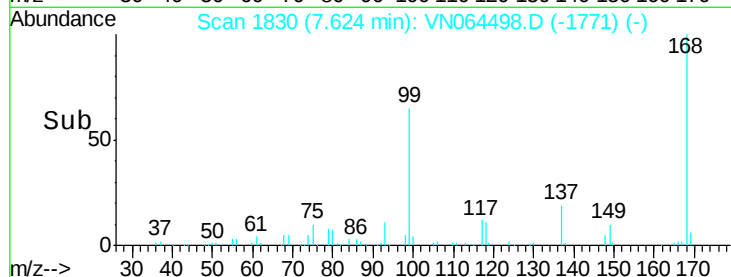
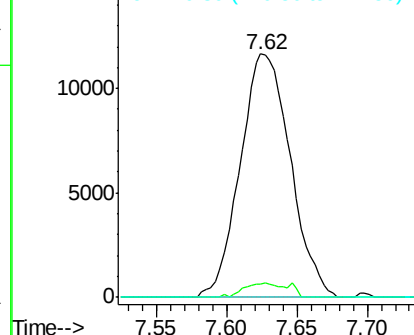
117 100

119 5.7 75.5 113.3#

121 0.0 24.4 36.6#



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: 11.397 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

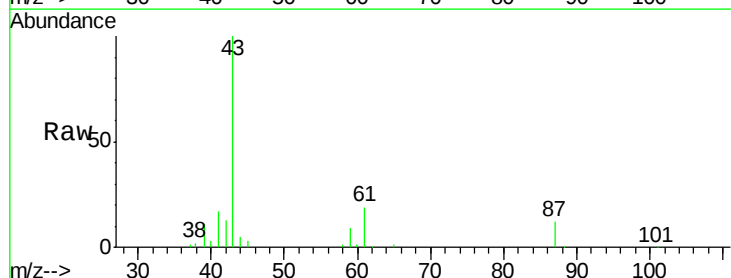
Tgt Ion: 43 Resp: 100108

Ion Ratio Lower Upper

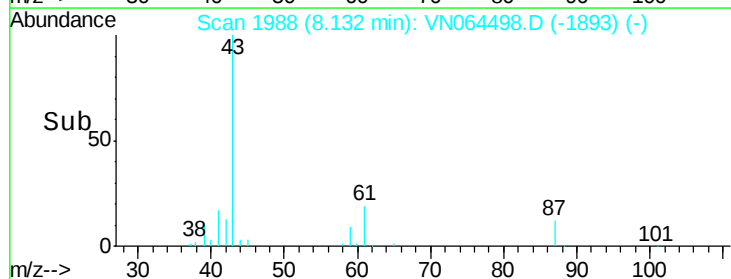
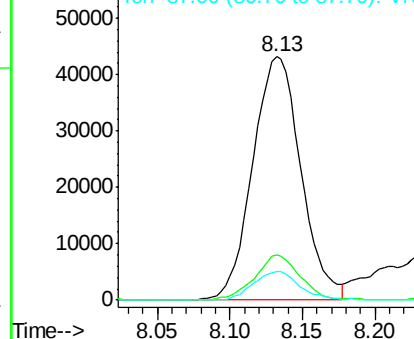
43 100

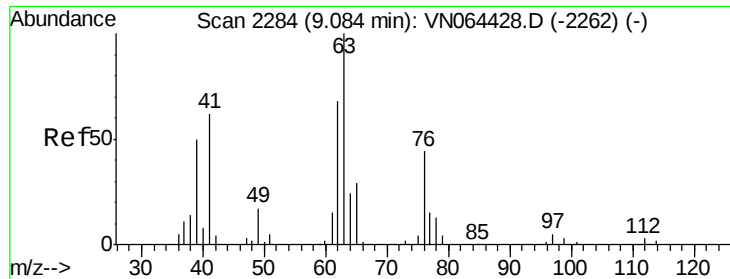
61 17.4 14.0 21.0

87 11.2 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

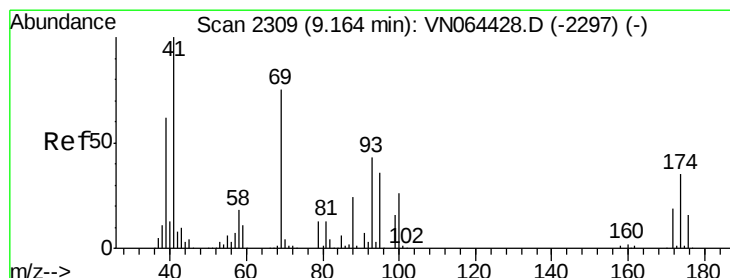
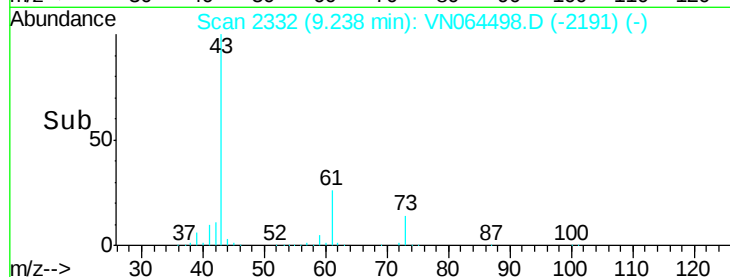
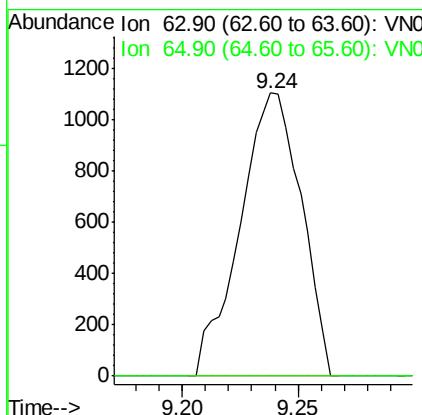
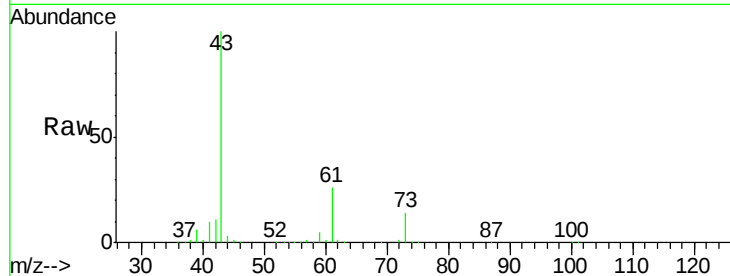




#45
 1,2-Dichloropropane
 Concen: 0.477 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN064498.D
 Acq: 6 Nov 2020 21:17

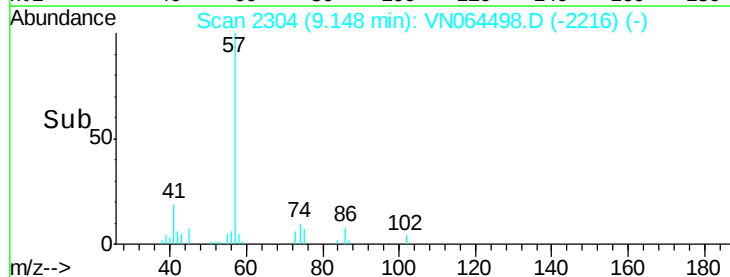
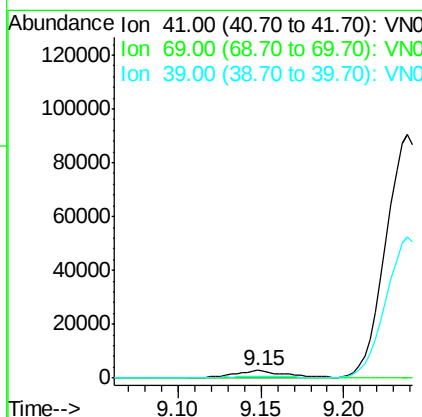
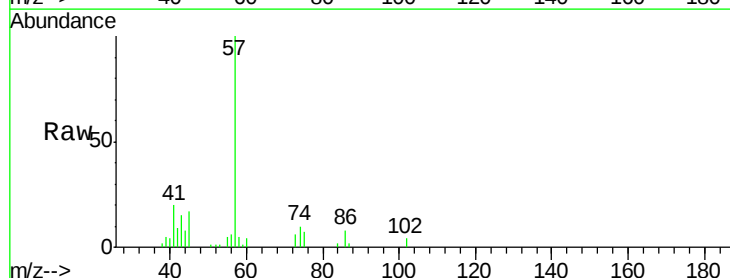
Instrument :
 MSVOA_N
 ClientSampleId :
 CONTAINER-002-1B

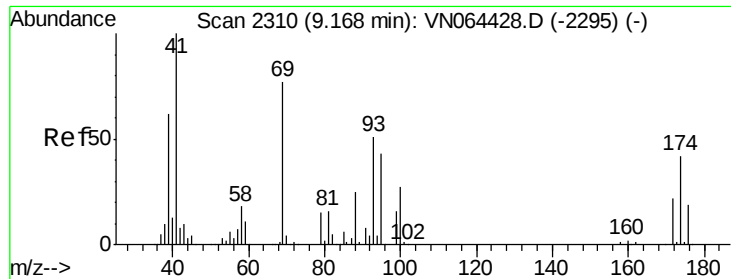
Tot Ion: 63 Resp: 2029
 Ion Ratio Lower Upper
 63 100
 65 0.0 23.6 35.4#



#48
 Methyl methacrylate
 Concen: 1.278 ug/l
 RT: 9.15 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN064498.D
 Acq: 6 Nov 2020 21:17

Tgt Ion: 41 Resp: 5665
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.4 90.6#
 39 0.0 51.2 76.8#





#49

1,4-Dioxane

Concen: 1.199 ug/l

RT: 9.25 min Scan# 2335

Delta R.T. 0.08 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

CONTAINER-002-1B

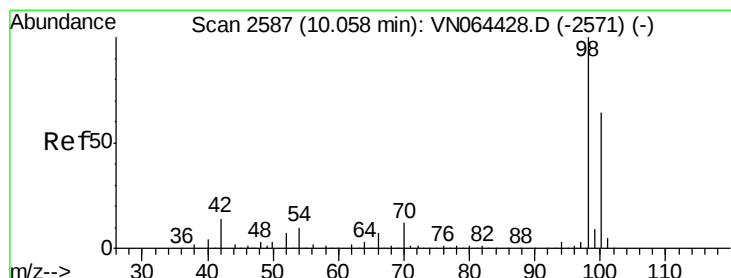
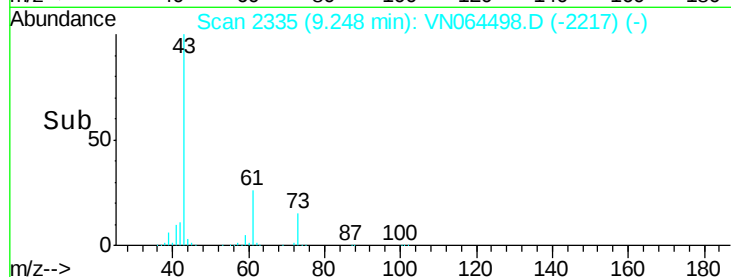
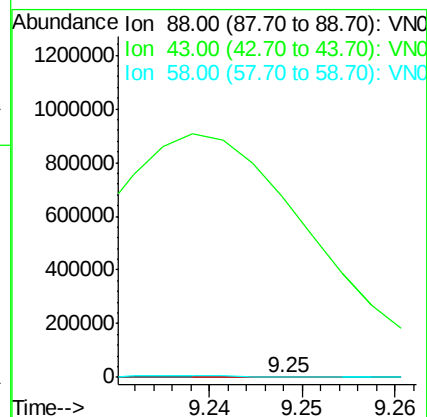
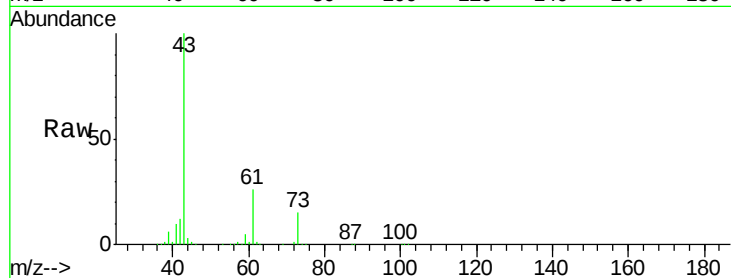
Tot Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 2348467.1 31.0 46.6#

58 11617.1 58.4 87.6#



#50

Toluene-d8

Concen: 49.176 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064498.D

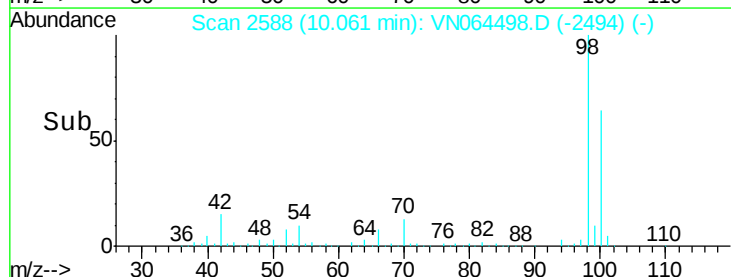
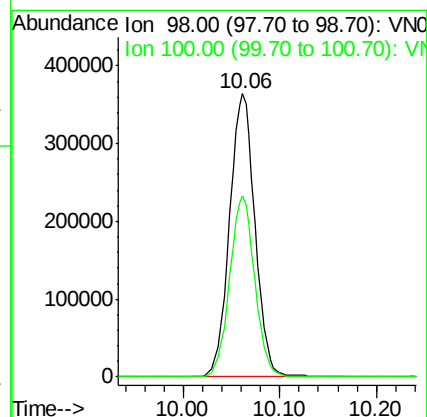
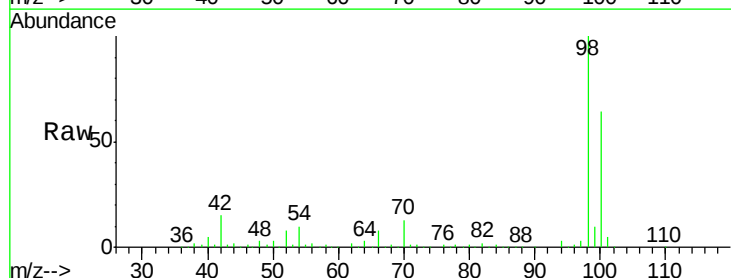
Acq: 6 Nov 2020 21:17

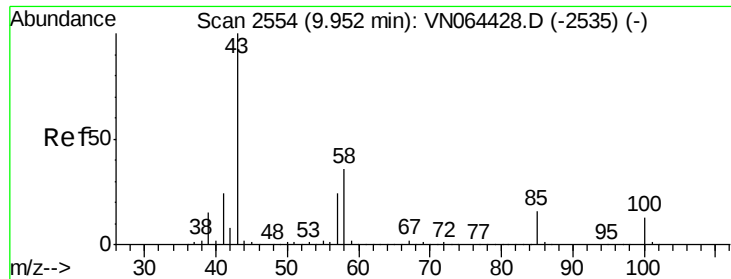
Tgt Ion: 98 Resp: 663938

Ion Ratio Lower Upper

98 100

100 62.6 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 1.866 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

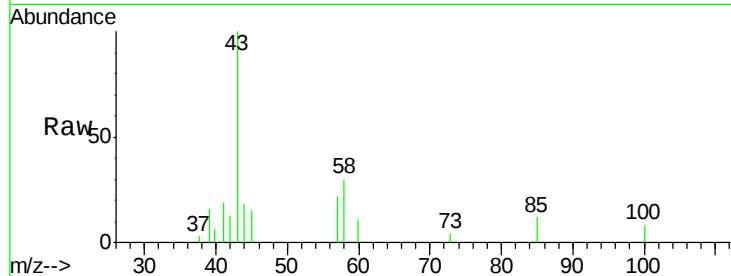
CONTAINER-002-1B

Tot Ion: 43 Resp: 9556

Ion Ratio Lower Upper

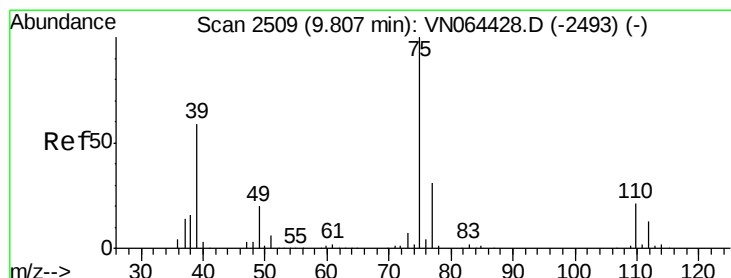
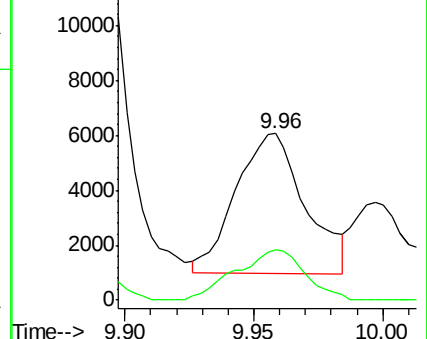
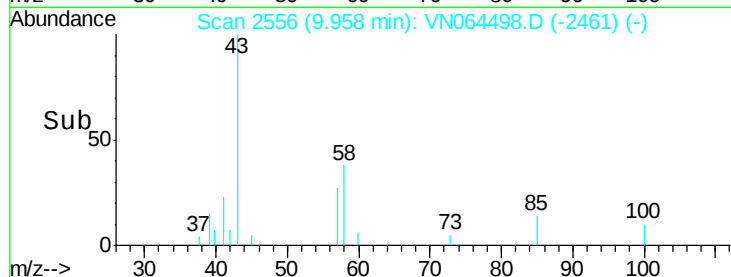
43 100

58 35.9 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN064498.D (-2461) (-)

Ion 58.00 (57.70 to 58.70): VN064498.D (-2461) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.382 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

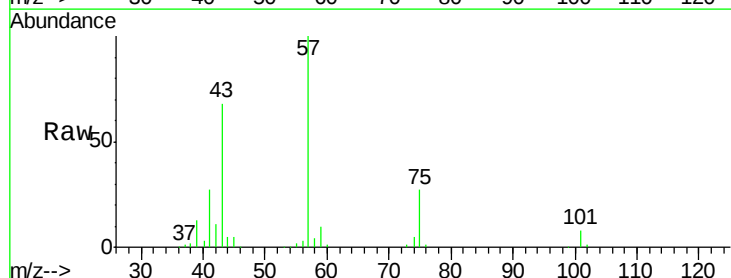
Tgt Ion: 75 Resp: 36697

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#

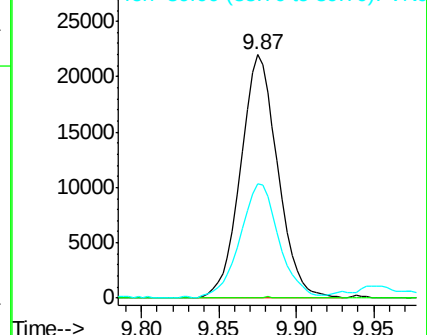
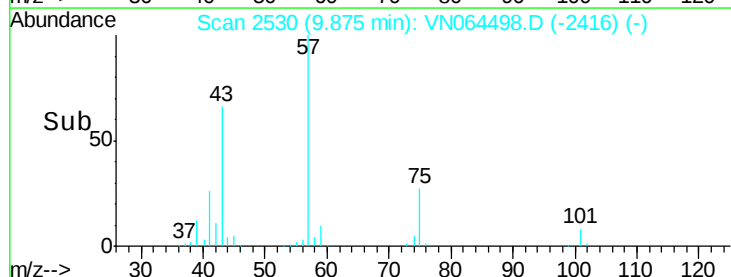
39 46.8 47.1 70.7#

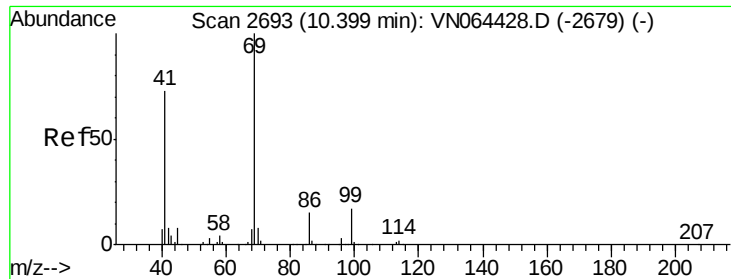


Abundance Ion 74.90 (74.60 to 75.60): VN064498.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN064498.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN064498.D (-2416) (-)





#56

Ethyl methacrylate

Concen: 2.374 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

CONTAINER-002-1B

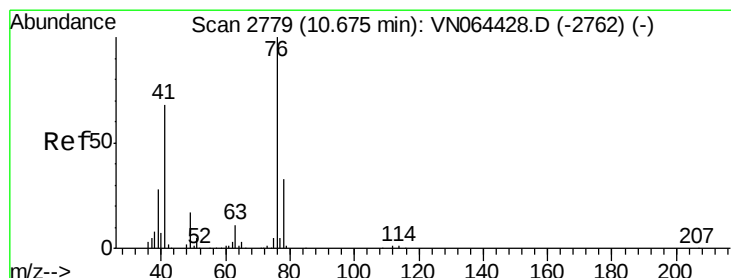
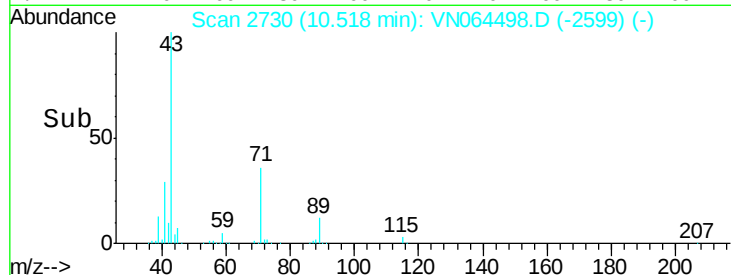
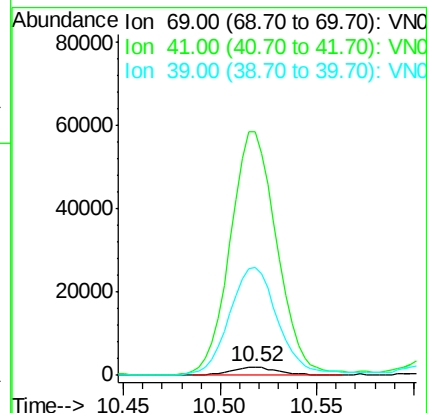
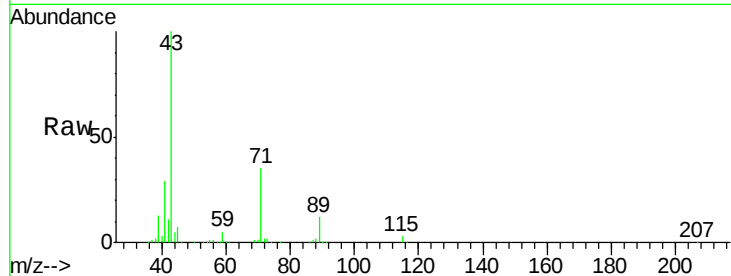
Tot Ion: 69 Resp: 3451

Ion Ratio Lower Upper

69 100

41 2857.7 59.3 88.9#

39 1324.3 35.4 53.0#



#57

1,3-Dichloropropane

Concen: 0.833 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN064498.D

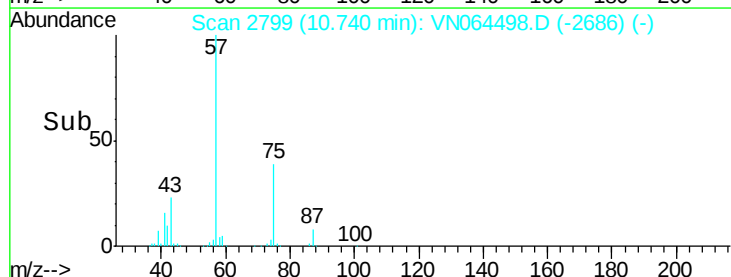
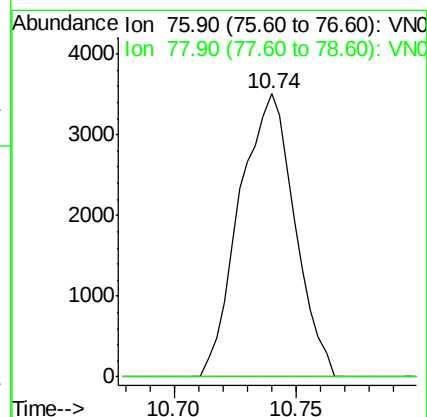
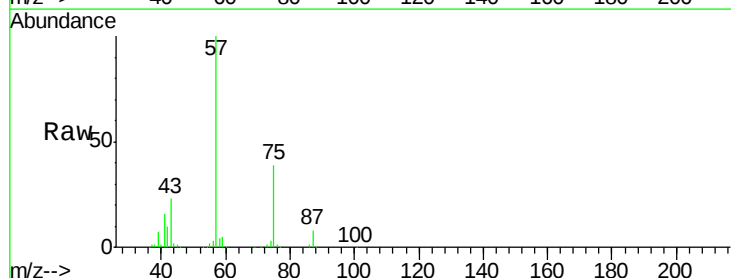
Acq: 6 Nov 2020 21:17

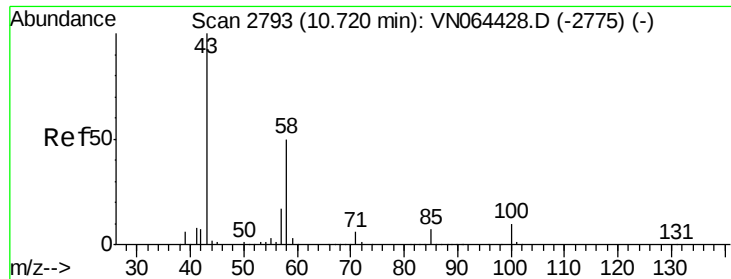
Tgt Ion: 76 Resp: 5511

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

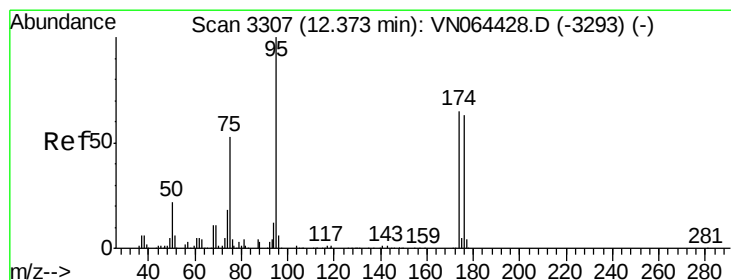
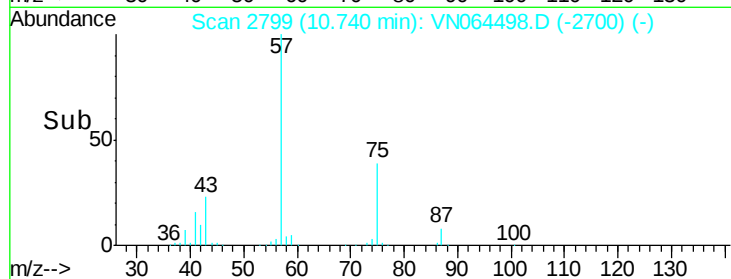
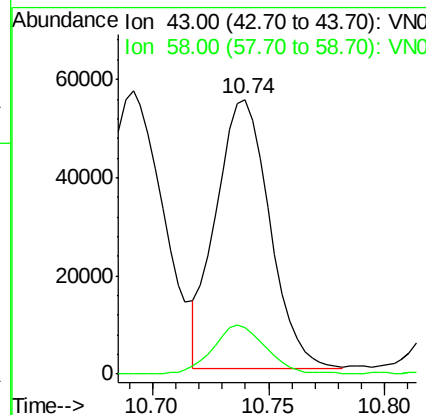
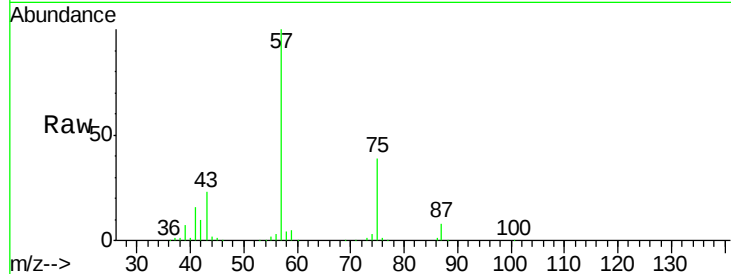




#59
2-Hexanone
Concen: 24.735 ug/l
RT: 10.74 min Scan# 2799
Delta R.T. 0.02 min
Lab File: VN064498.D
Acq: 6 Nov 2020 21:17

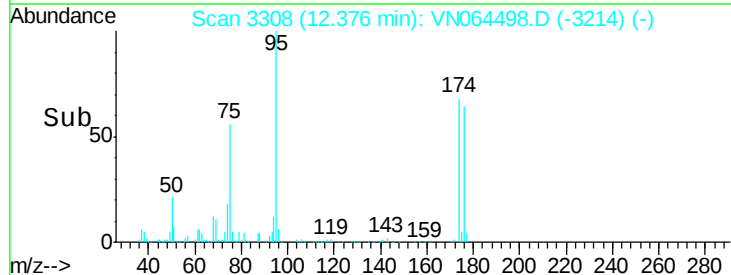
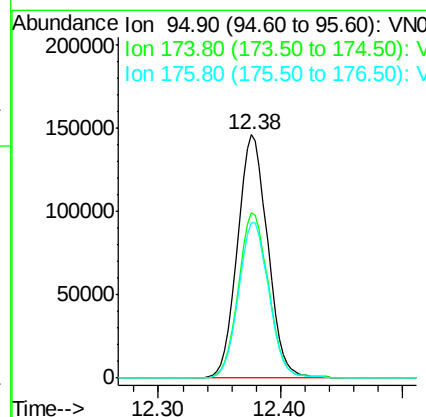
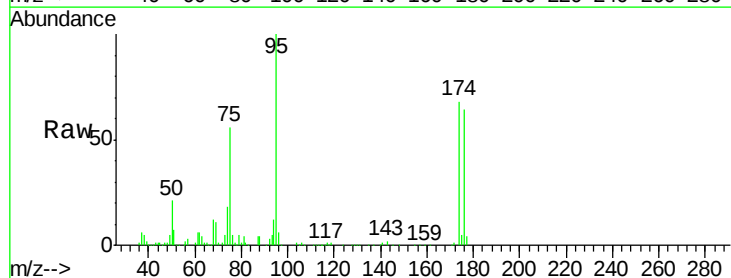
Instrument :
MSVOA_N
ClientSampleId :
CONTAINER-002-1B

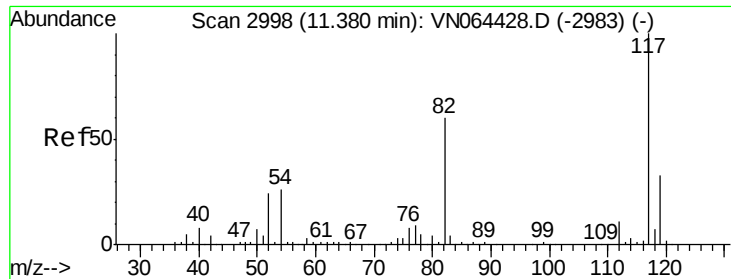
Tot Ion: 43 Resp: 87911
Ion Ratio Lower Upper
43 100
58 18.2 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 49.291 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064498.D
Acq: 6 Nov 2020 21:17

Tgt Ion: 95 Resp: 251682
Ion Ratio Lower Upper
95 100
174 68.1 0.0 132.6
176 64.4 0.0 129.2

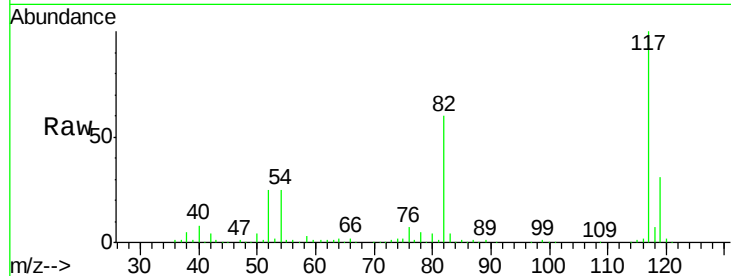




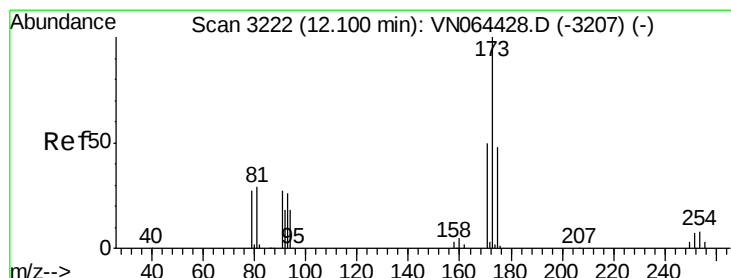
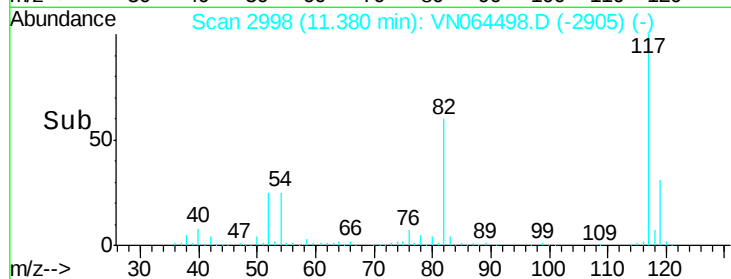
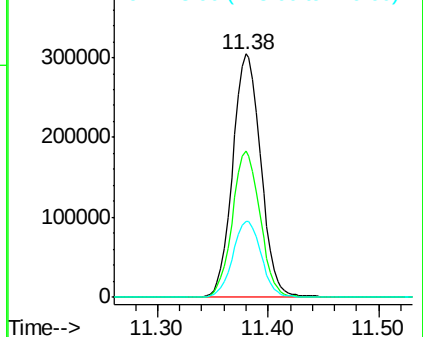
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064498.D
Acq: 6 Nov 2020 21:17

Instrument :
MSVOA_N
ClientSampleId :
CONTAINER-002-1B

Tot Ion:117 Resp: 539978
Ion Ratio Lower Upper
117 100
82 60.2 48.1 72.1
119 31.4 26.2 39.4

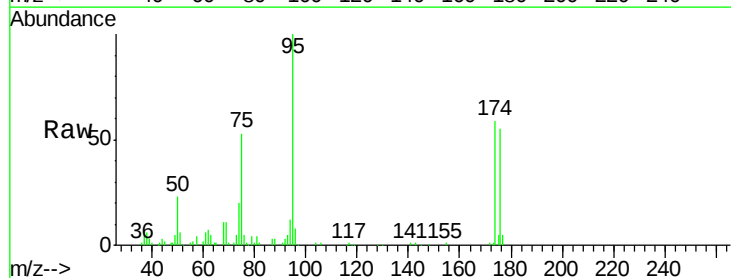


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

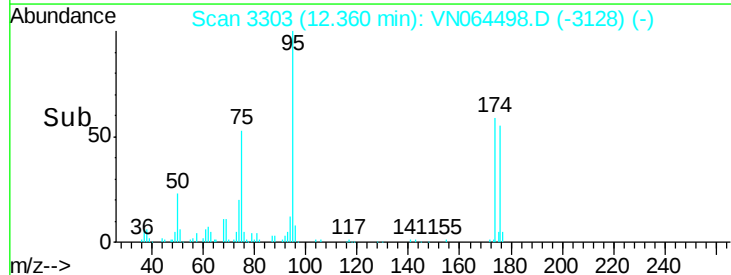
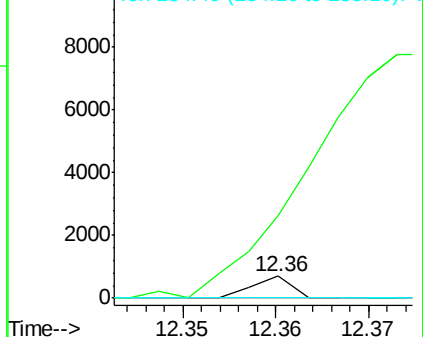


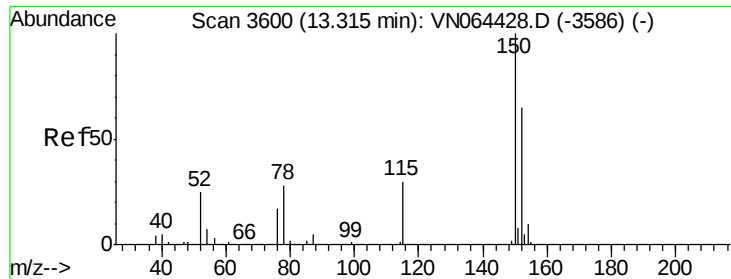
#71
Bromoform
Concen: 1.335 ug/l
RT: 12.36 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN064498.D
Acq: 6 Nov 2020 21:17

Tgt Ion:173 Resp: 202
Ion Ratio Lower Upper
173 100
175 5401.0 23.7 71.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

CONTAINER-002-1B

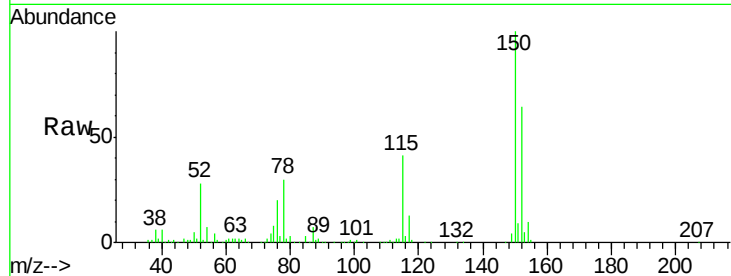
Tot Ion:152 Resp: 191504

Ion Ratio Lower Upper

152 100

115 65.4 32.0 96.0

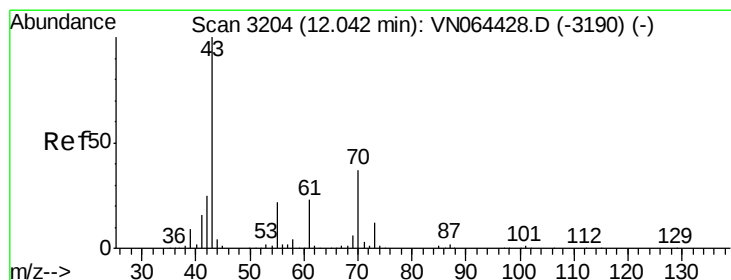
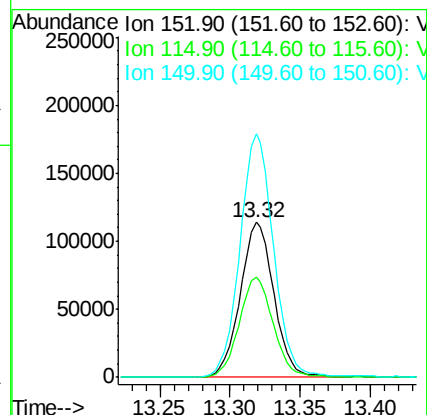
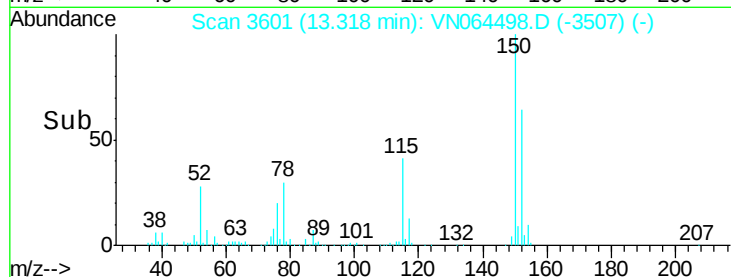
150 156.0 0.0 353.8



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



#74

N-ethyl acetate

Concen: 1.535 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Tgt Ion: 43 Resp: 2427

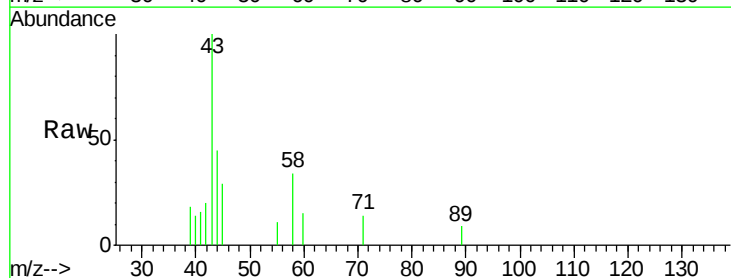
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 8.6 18.4 27.6#

61 0.0 17.8 26.6#

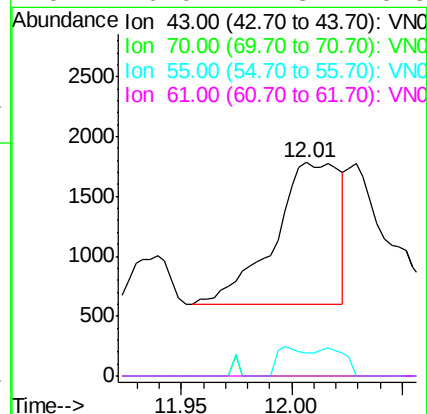
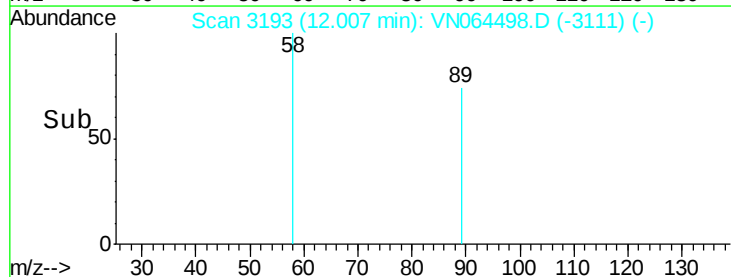


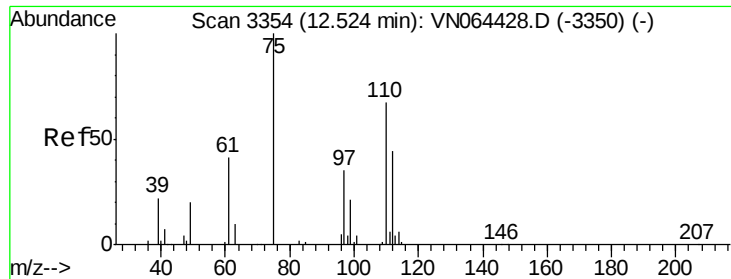
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.989 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

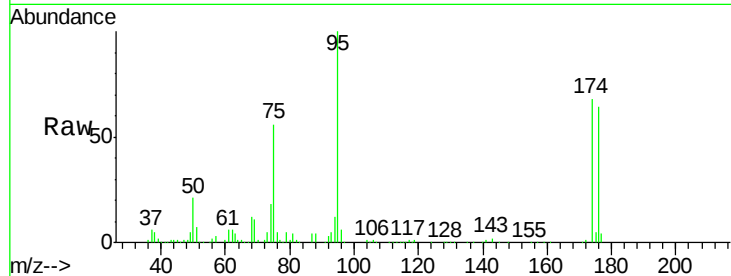
CONTAINER-002-1B

Tot Ion: 75 Resp: 139148

Ion Ratio Lower Upper

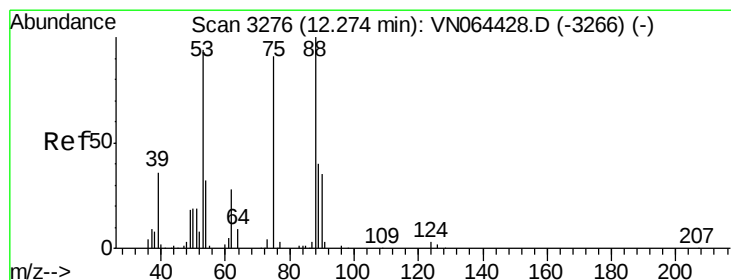
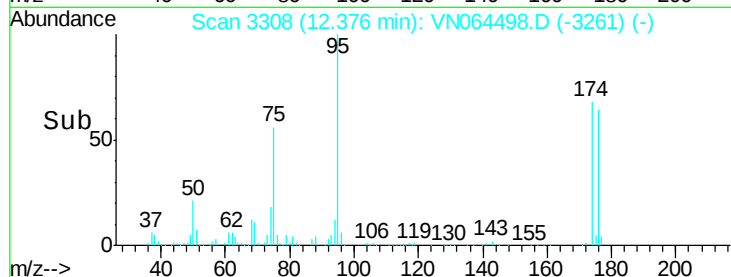
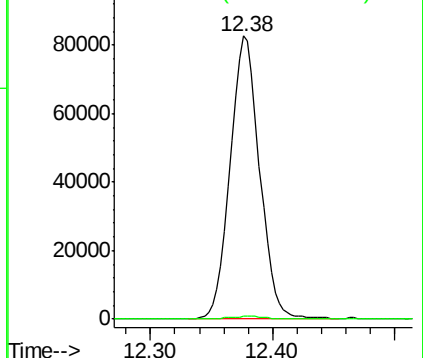
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 83.733 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064498.D

Acq: 6 Nov 2020 21:17

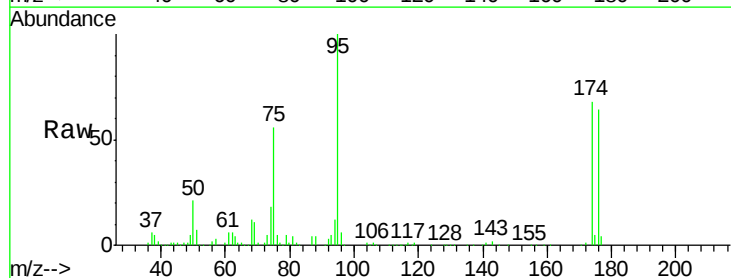
Tgt Ion: 75 Resp: 139148

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

