

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064249.D
 Acq On : 22 Oct 2020 5:48
 Operator : JC/MD
 Sample : L4468-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11977

Quant Time: Oct 22 06:12:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	254968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	451153	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	459665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	211656	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	199775	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
35) Dibromofluoromethane	7.55	113	152950	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
50) Toluene-d8	10.06	98	578551	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	
62) 4-Bromofluorobenzene	12.38	95	255450	57.91	ug/l	0.00
Spiked Amount			Recovery	=	115.82%	

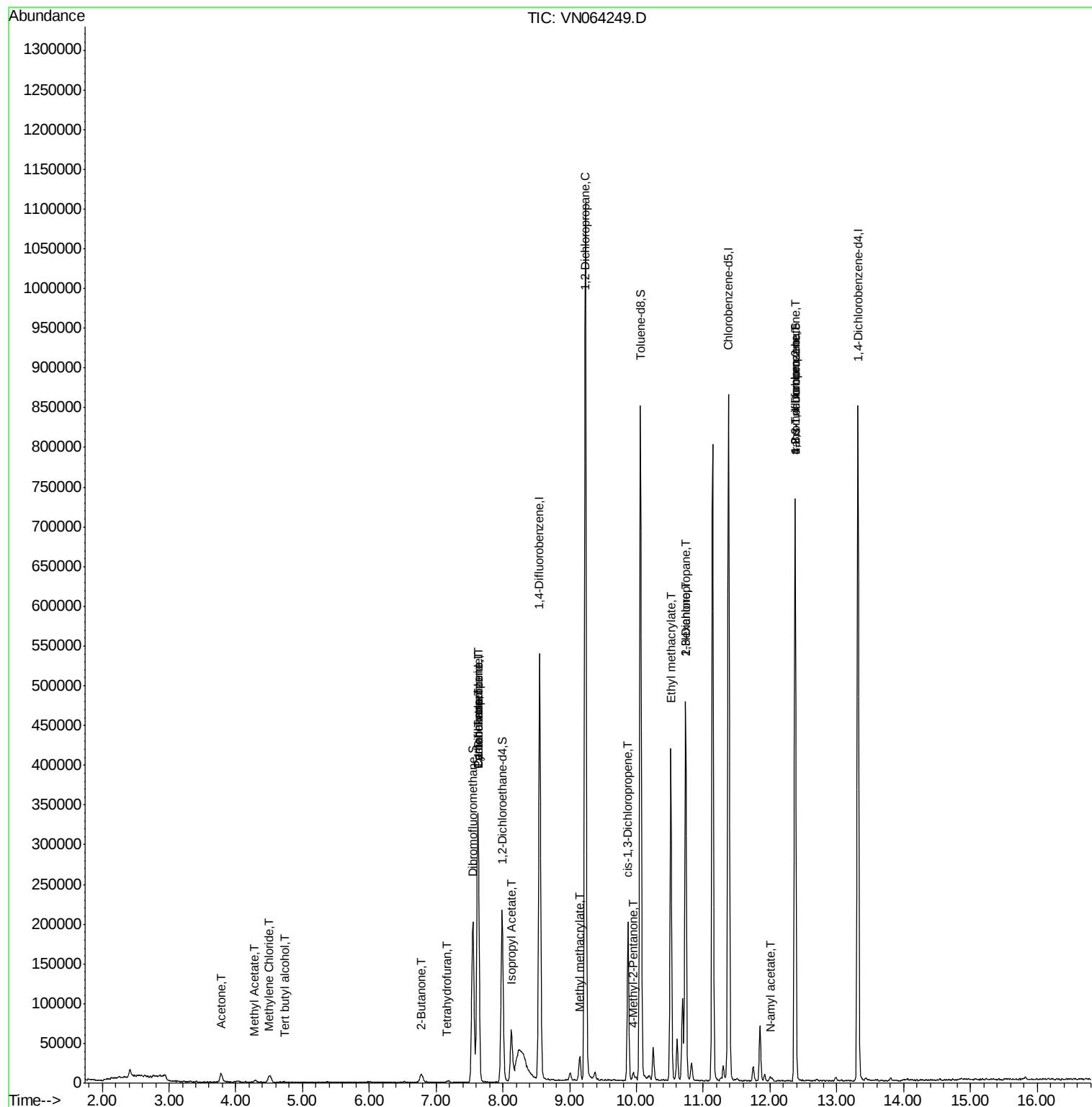
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	471	0.929	ug/l #	70
16) Acetone	3.78	43	21482	19.828	ug/l	94
18) Methyl Acetate	4.28	43	1152	0.417	ug/l	91
20) Methylene Chloride	4.50	84	4192	1.451	ug/l #	80
25) 2-Butanone	6.79	43	4547	2.642	ug/l	96
29) Tetrahydrofuran	7.16	42	922	0.895	ug/l #	59
31) Cyclohexane	7.62	56	6765	1.507	ug/l #	39
36) 1,1-Dichloropropene	7.63	75	24149	5.369	ug/l #	51
38) Carbon Tetrachloride	7.63	117	28773	5.623	ug/l #	14
43) Isopropyl Acetate	8.13	43	87186	11.456	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	1182	0.357	ug/l #	45
48) Methyl methacrylate	9.14	41	4152	1.044	ug/l #	17
51) 4-Methyl-2-Pentanone	9.96	43	8949	2.200	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	33591	5.841	ug/l #	60
56) Ethyl methacrylate	10.51	69	1031	0.222	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4617	0.886	ug/l #	42
59) 2-Hexanone	10.74	43	78806	26.529	ug/l #	51
74) N-amyl acetate	12.00	43	5274	0.756	ug/l #	49
76) 1,2,3-Trichloropropane	12.37	75	138241	30.981	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	138241	78.219	ug/l #	9

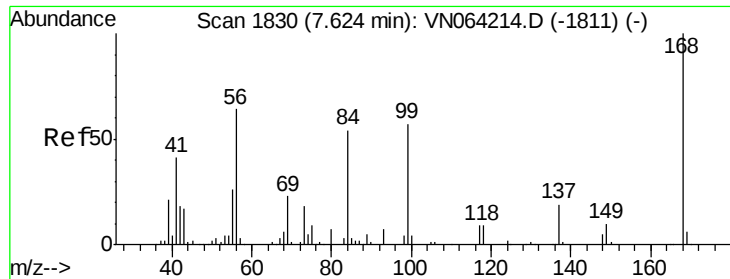
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

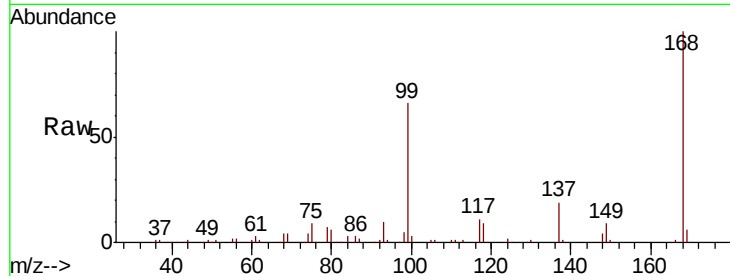
72-11977

Tot Ion:168 Resp: 254968

Ion Ratio Lower Upper

168 100

99 65.9 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

120000

100000

80000

60000

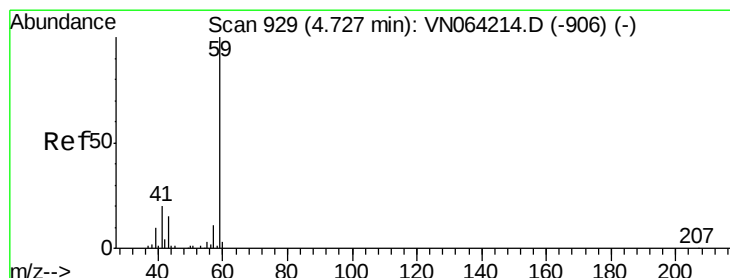
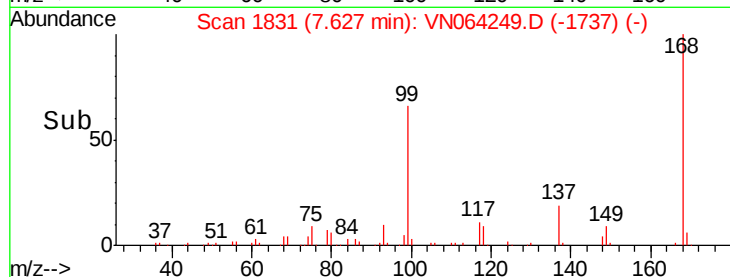
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.929 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN064249.D

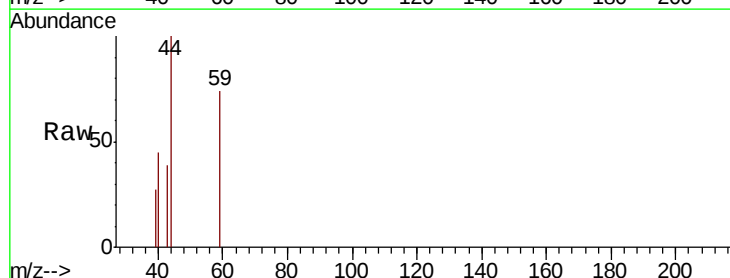
Acq: 22 Oct 2020 5:48

Tgt Ion: 59 Resp: 471

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.74

500

400

300

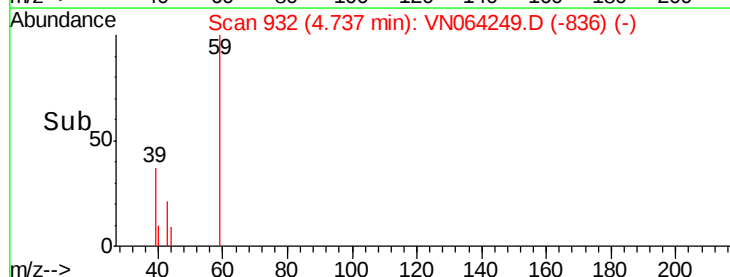
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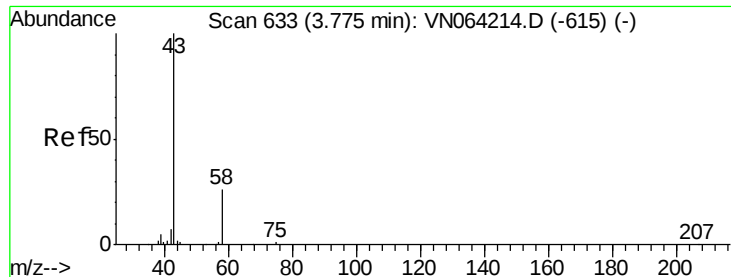
100

0

Time-->

4.72 4.73 4.74 4.75 4.76





#16

Acetone

Concen: 19.828 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

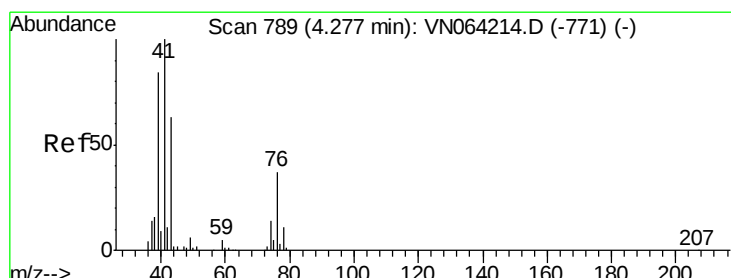
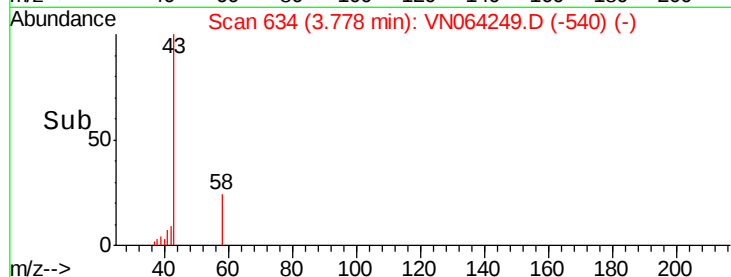
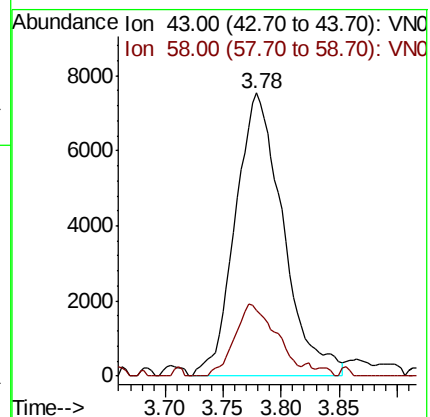
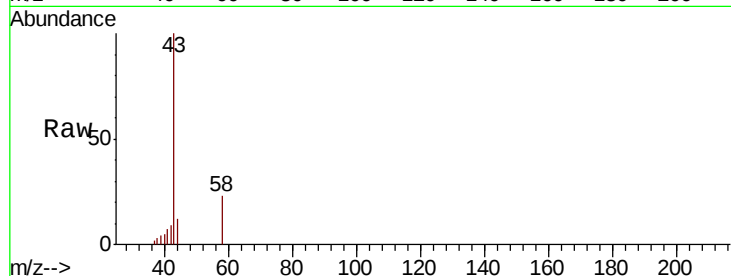
72-11977

Tot Ion: 43 Resp: 21482

Ion Ratio Lower Upper

43 100

58 23.2 21.0 31.4



#18

Methyl Acetate

Concen: 0.417 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN064249.D

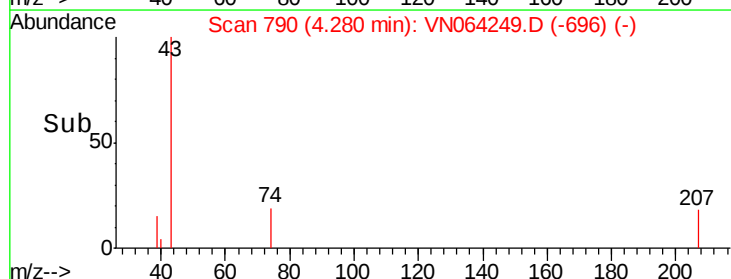
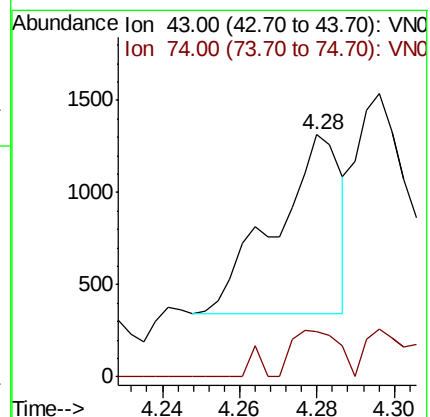
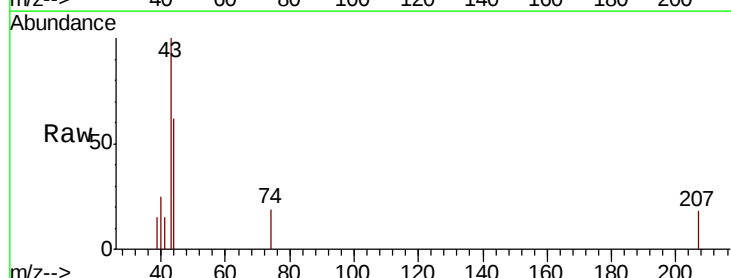
Acq: 22 Oct 2020 5:48

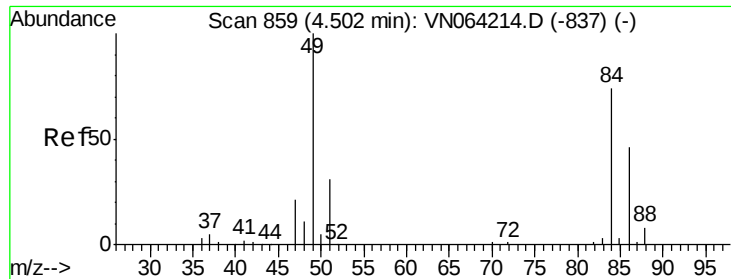
Tgt Ion: 43 Resp: 1152

Ion Ratio Lower Upper

43 100

74 18.3 17.9 26.9

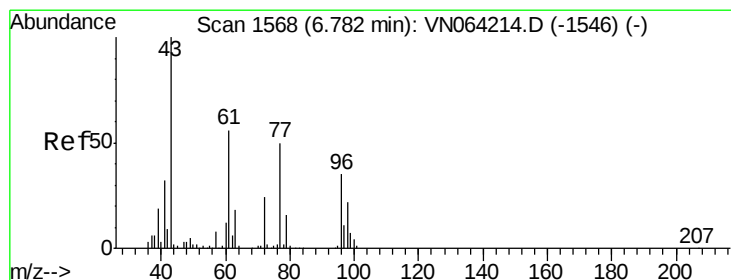
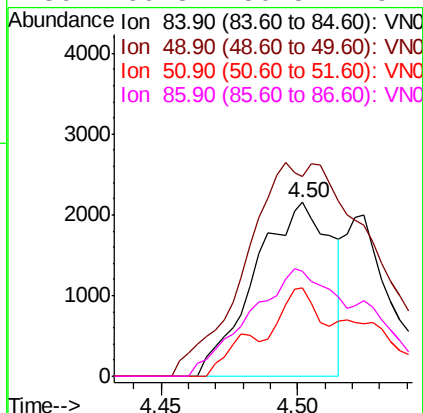
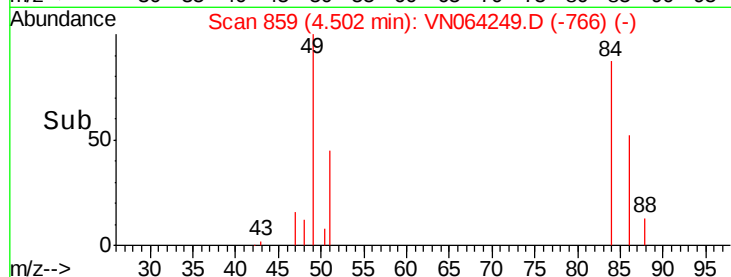
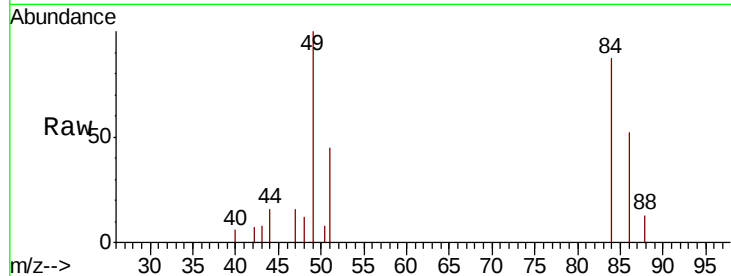




#20
Methvlene Chloride
Concen: 1.451 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064249.D
Acq: 22 Oct 2020 5:48

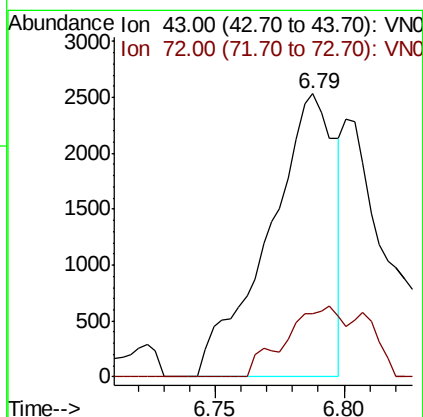
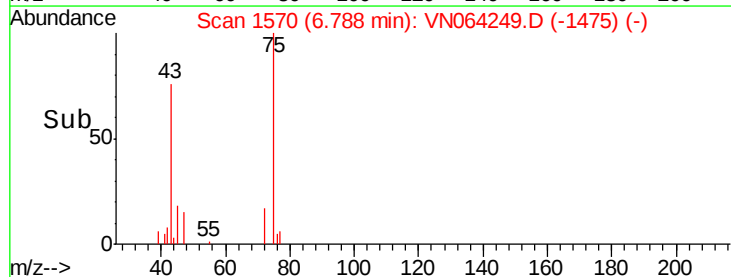
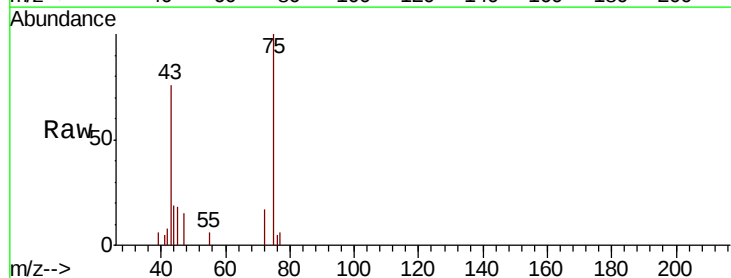
Instrument :
MSVOA_N
ClientSampleId :
72-11977

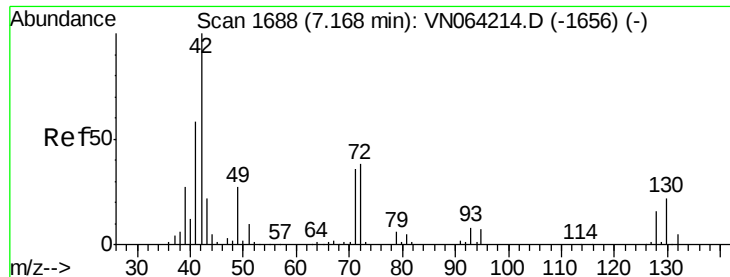
Tot Ion: 84 Resp: 4192
Ion Ratio Lower Upper
84 100
49 101.4 108.5 162.7#
51 51.2 33.8 50.8#
86 60.3 50.5 75.7



#25
2-Butanone
Concen: 2.642 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN064249.D
Acq: 22 Oct 2020 5:48

Tgt Ion: 43 Resp: 4547
Ion Ratio Lower Upper
43 100
72 22.3 19.4 29.0





#29

Tetrahydrofuran

Concen: 0.895 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

72-11977

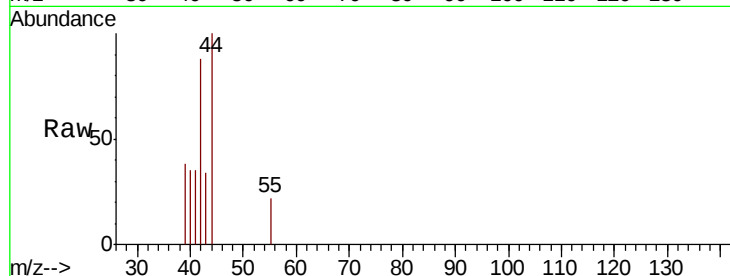
Tot Ion: 42 Resp: 922

Ion Ratio Lower Upper

42 100

72 12.9 30.8 46.2#

71 12.5 29.0 43.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.16

600

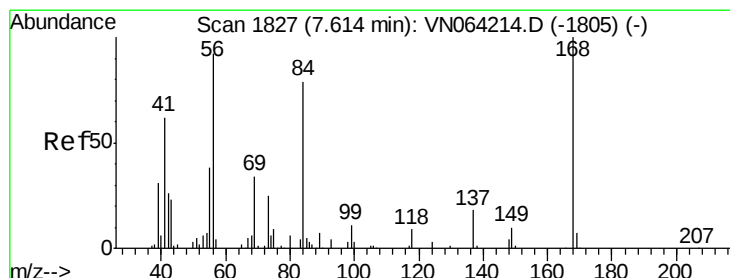
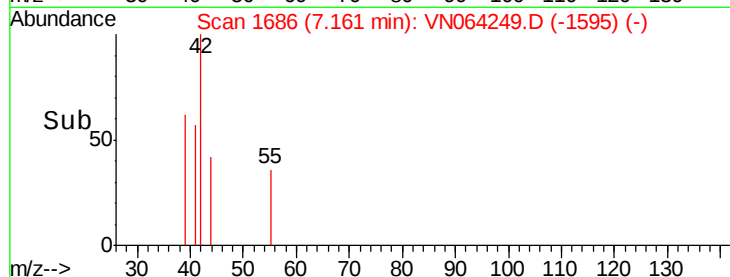
400

200

0

7.12 7.14 7.16 7.18

Time-->



#31

Cyclohexane

Concen: 1.507 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

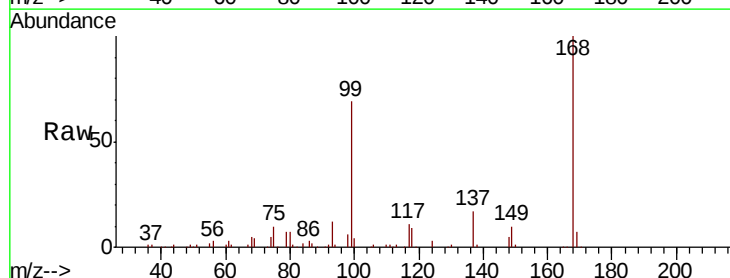
Tgt Ion: 56 Resp: 6765

Ion Ratio Lower Upper

56 100

69 156.3 29.8 44.6#

84 85.9 68.1 102.1



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

7.62

6000

5000

4000

3000

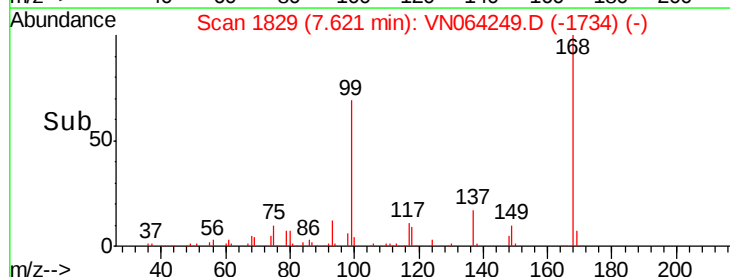
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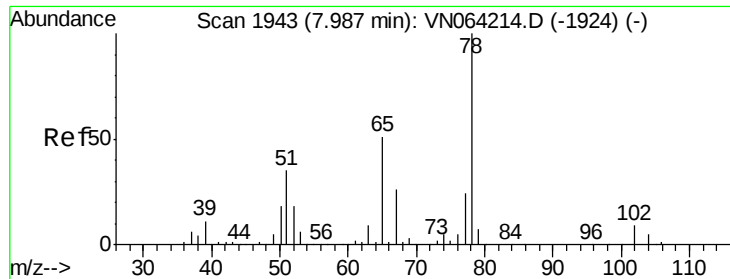
1000

0

7.55 7.60 7.65 7.70

Time-->

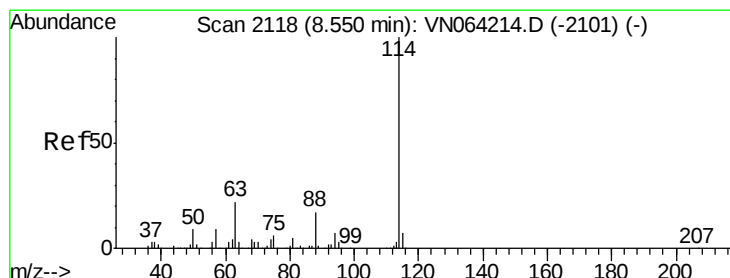
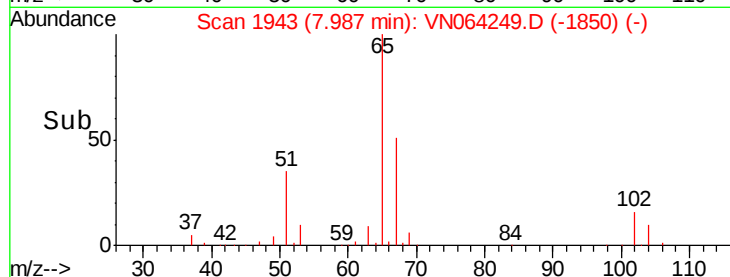
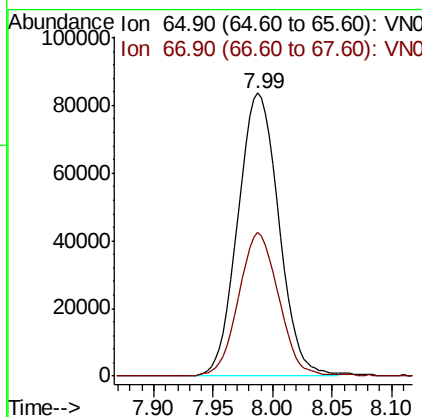
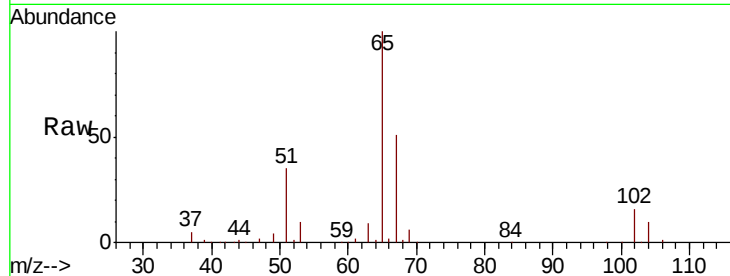




#33
 1,2-Dichloroethane-d4
 Concen: 52.761 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064249.D
 Acq: 22 Oct 2020 5:48

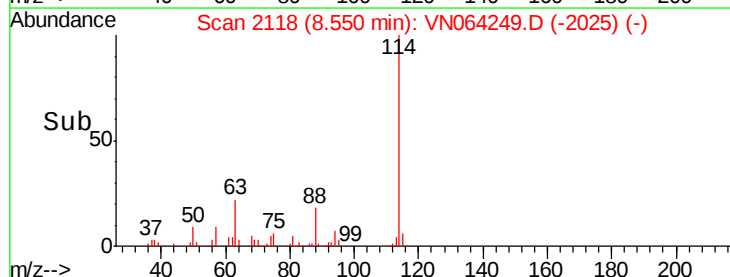
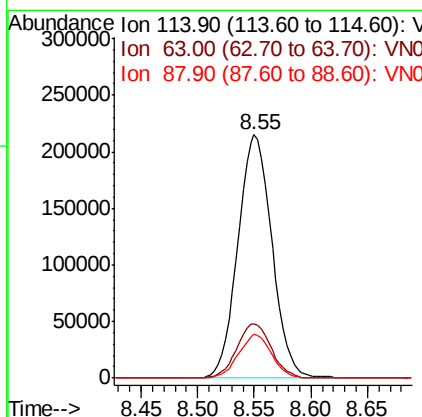
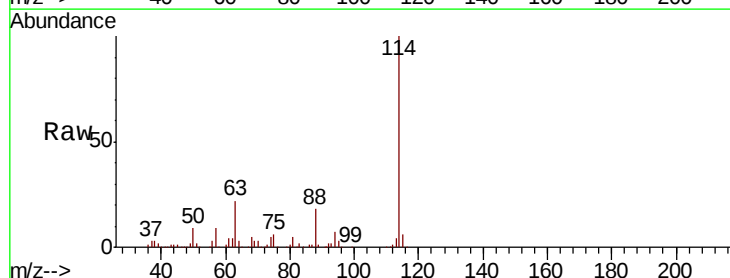
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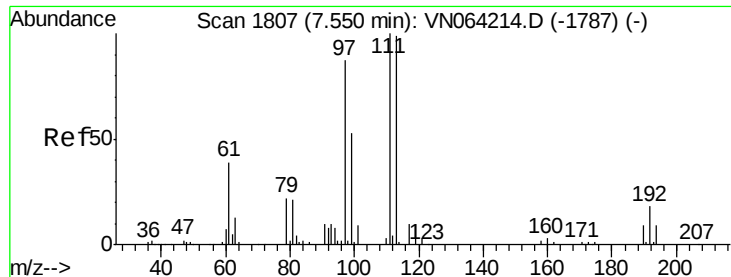
Tot Ion: 65 Resp: 199775
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064249.D
 Acq: 22 Oct 2020 5:48

Tgt Ion: 114 Resp: 451153
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.0
 88 18.0 0.0 34.2

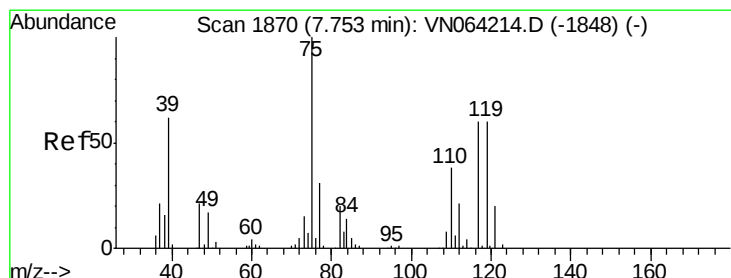
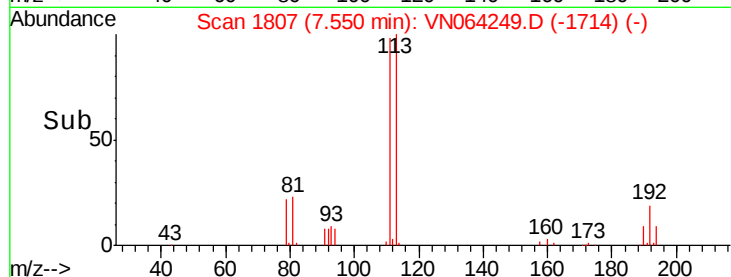
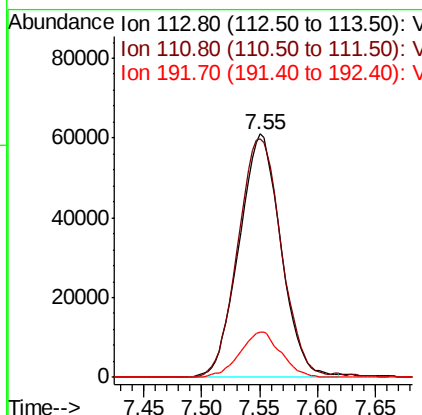
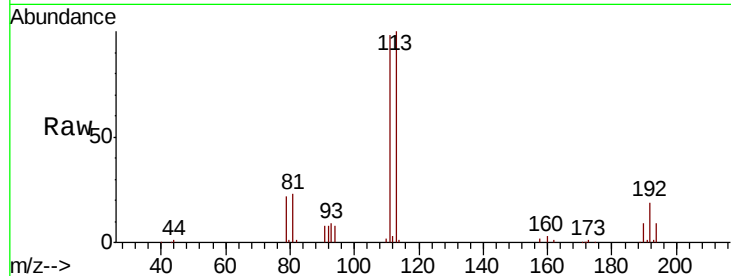




#35
 Dibromofluoromethane
 Concen: 50.992 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN064249.D
 Acq: 22 Oct 2020 5:48

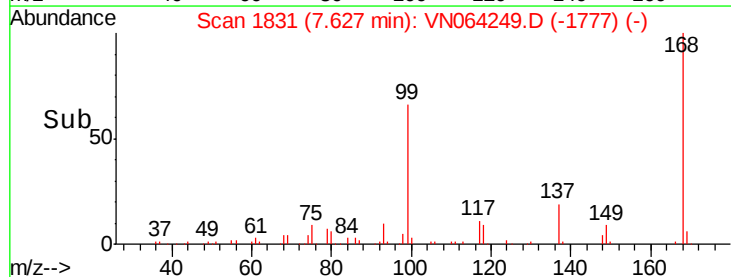
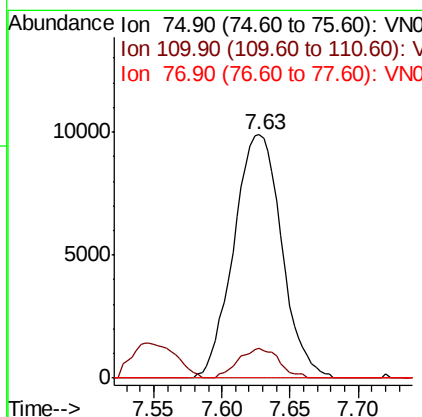
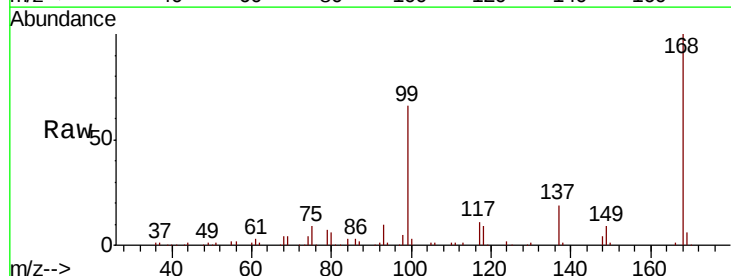
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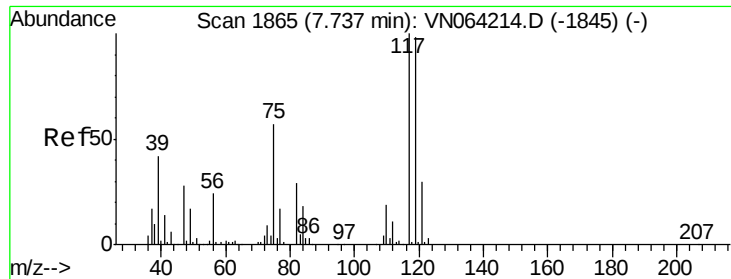
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	84.2	126.2
192	18.2	15.2	22.8



#36
 1,1-Dichloropropene
 Concen: 5.369 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064249.D
 Acq: 22 Oct 2020 5:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	17.2	51.6#
77	0.0	24.9	37.3#

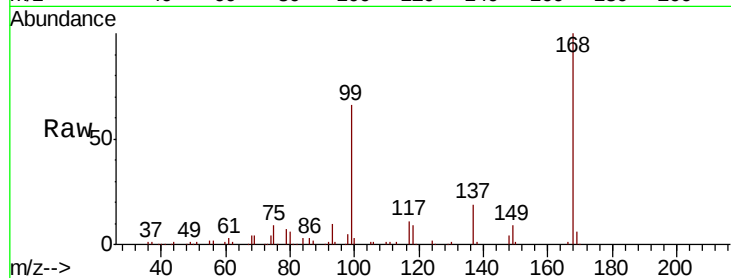




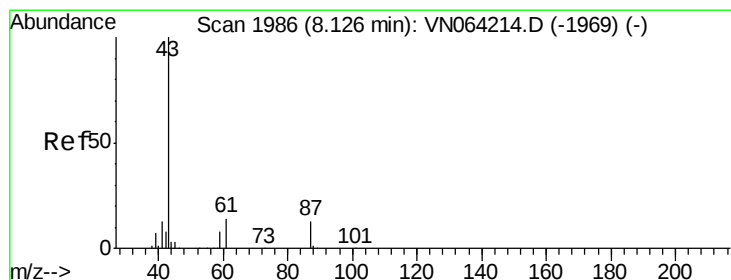
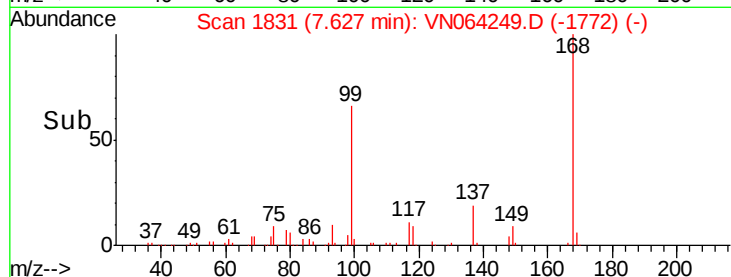
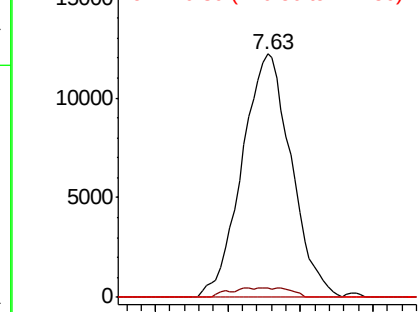
#38
Carbon Tetrachloride
Concen: 5.623 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064249.D
Acq: 22 Oct 2020 5:48

Instrument :
MSVOA_N
ClientSampleId :
72-11977

Tot Ion:117 Resp: 28773
Ion Ratio Lower Upper
117 100
119 3.7 78.5 117.7#
121 0.0 24.3 36.5#

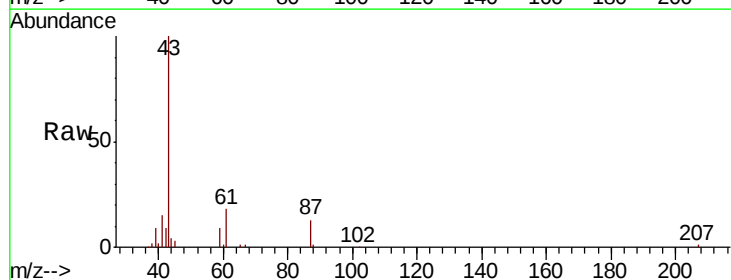


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

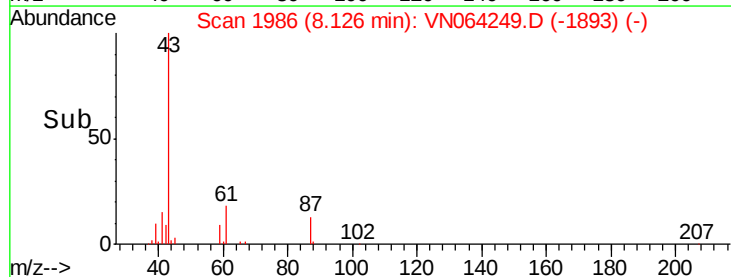
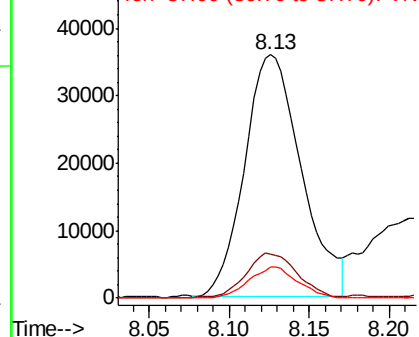


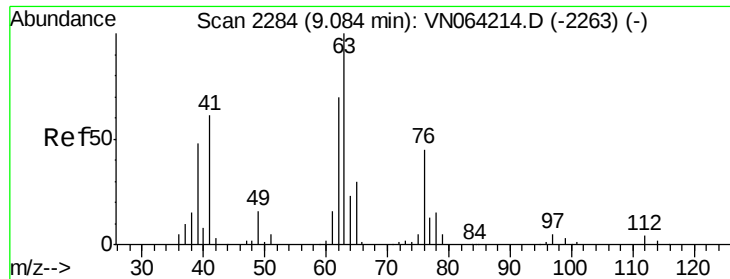
#43
Isopropyl Acetate
Concen: 11.456 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN064249.D
Acq: 22 Oct 2020 5:48

Tgt Ion: 43 Resp: 87186
Ion Ratio Lower Upper
43 100
61 16.9 19.6 29.4#
87 11.0 9.8 14.6



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





#45

1,2-Dichloropropane

Concen: 0.357 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

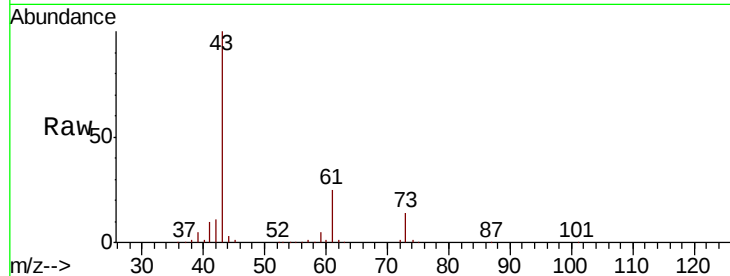
72-11977

Tot Ion: 63 Resp: 1182

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

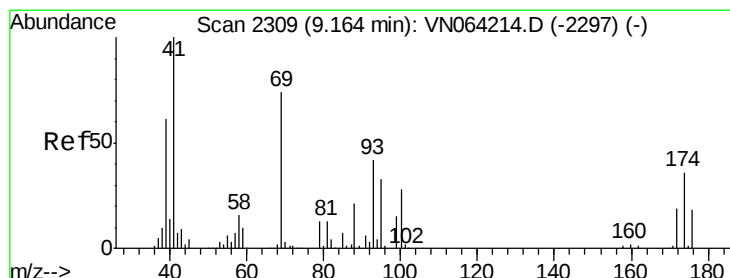
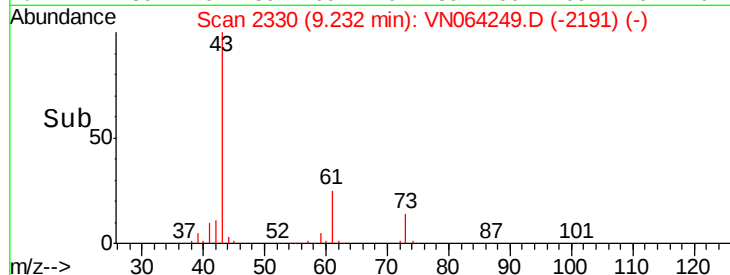
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.044 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

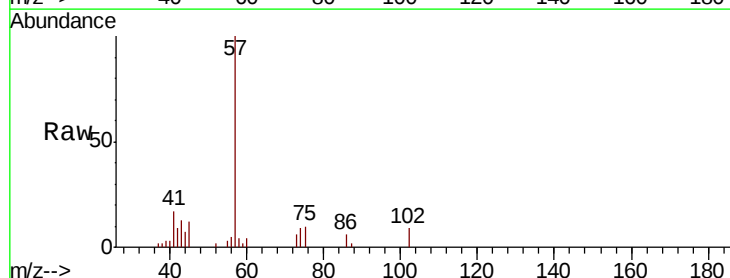
Tgt Ion: 41 Resp: 4152

Ion Ratio Lower Upper

41 100

69 0.0 57.3 85.9#

39 0.0 48.6 73.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

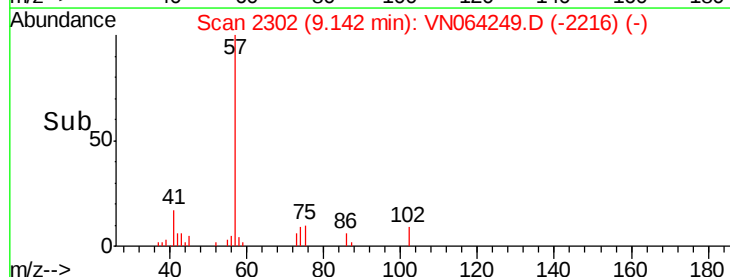
60000

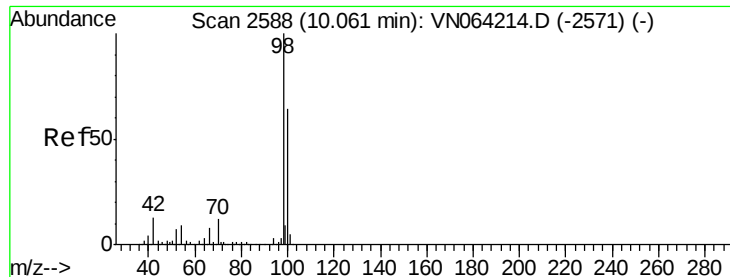
40000

20000

0

Time-->





#50

Toluene-d8

Concen: 53.172 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

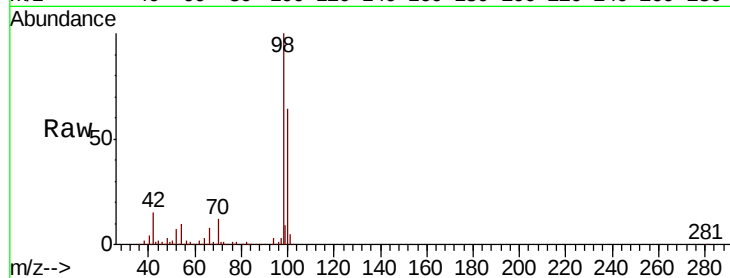
72-11977

Tot Ion: 98 Resp: 578551

Ion Ratio Lower Upper

98 100

100 63.8 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN064214.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064214.D (-2571) (-)

10.06

300000

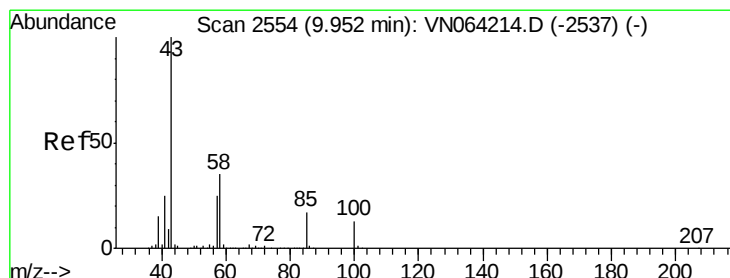
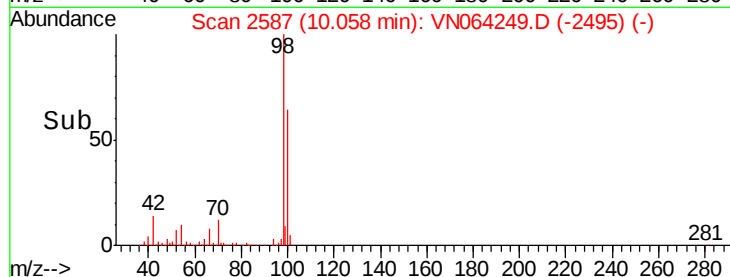
200000

100000

0

10.00 10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.200 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064249.D

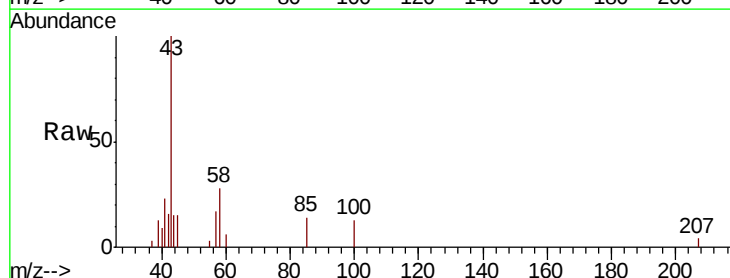
Acq: 22 Oct 2020 5:48

Tgt Ion: 43 Resp: 8949

Ion Ratio Lower Upper

43 100

58 29.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064214.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN064214.D (-2537) (-)

40000

30000

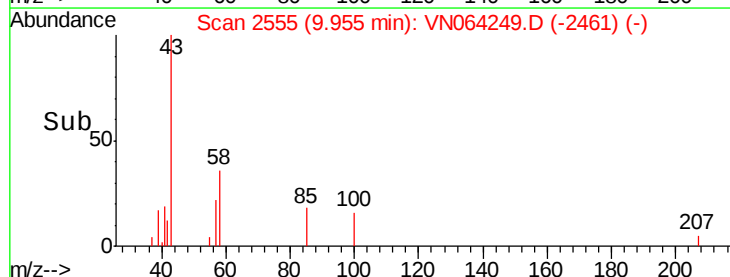
20000

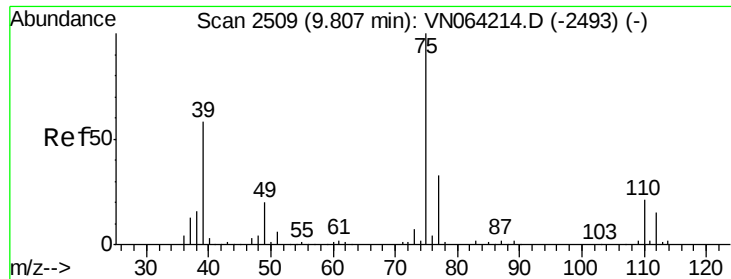
10000

0

9.90 9.95 10.00

Time-->



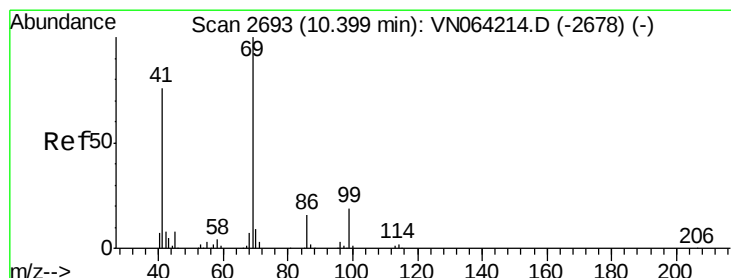
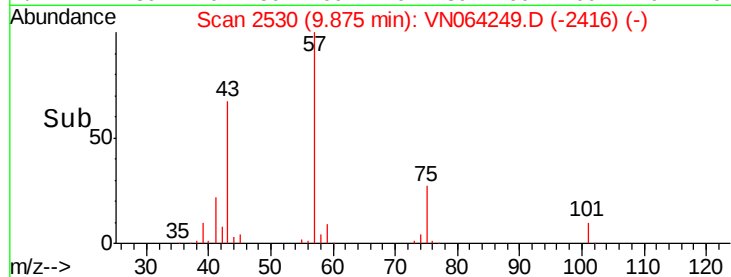
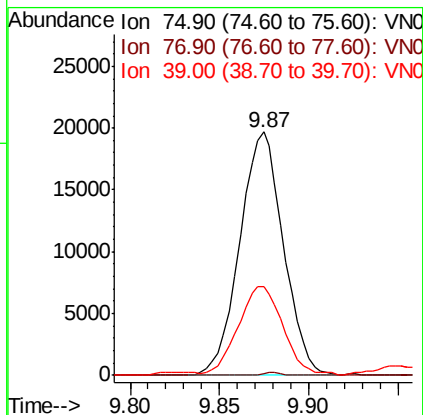
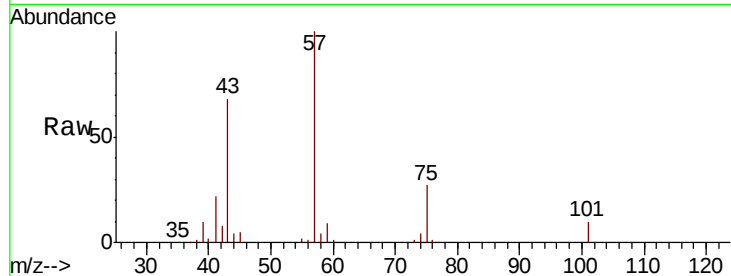


#54

cis-1,3-Dichloropropene
 Concen: 5.841 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064249.D
 Acq: 22 Oct 2020 5:48

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11977

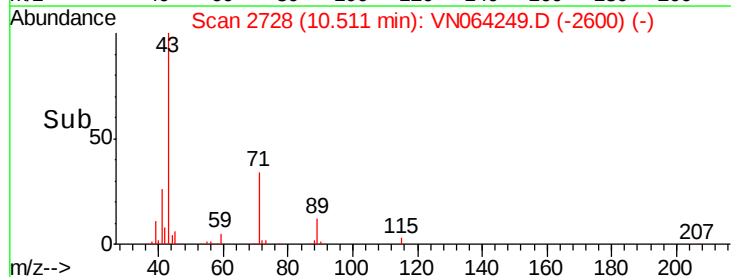
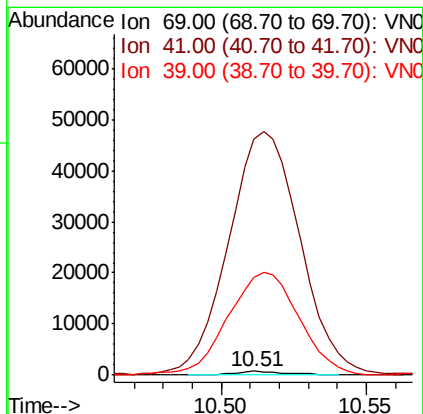
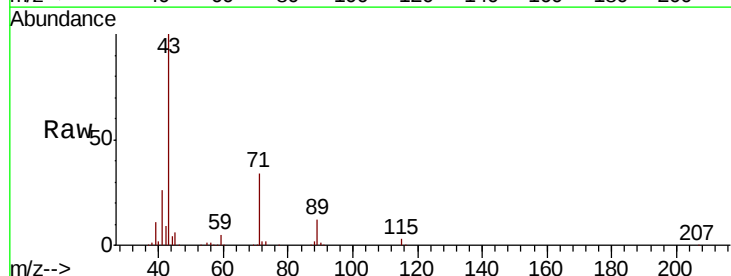
Tot Ion: 75 Resp: 33591
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.6 39.8#
 39 36.3 46.7 70.1#

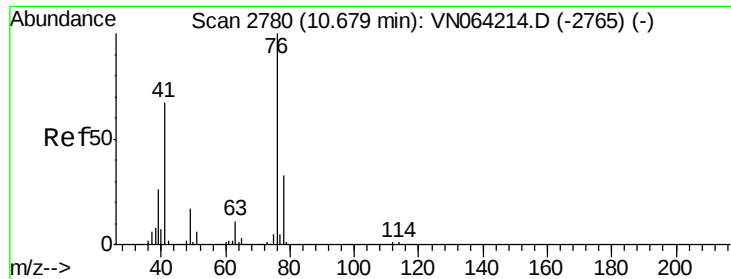


#56

Ethyl methacrylate
 Concen: 0.222 ug/l
 RT: 10.51 min Scan# 2728
 Delta R.T. 0.11 min
 Lab File: VN064249.D
 Acq: 22 Oct 2020 5:48

Tgt Ion: 69 Resp: 1031
 Ion Ratio Lower Upper
 69 100
 41 8008.6 61.4 92.2#
 39 3346.5 36.0 54.0#





#57

1,3-Dichloropropane

Concen: 0.886 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

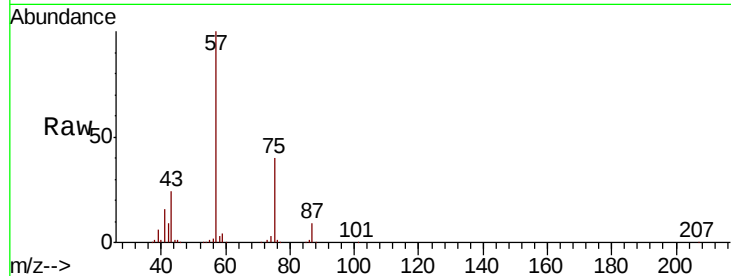
72-11977

Tot Ion: 76 Resp: 4617

Ion Ratio Lower Upper

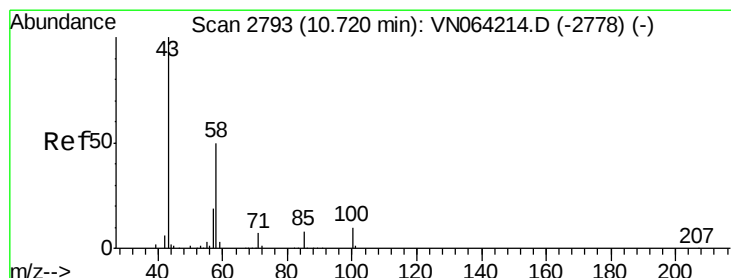
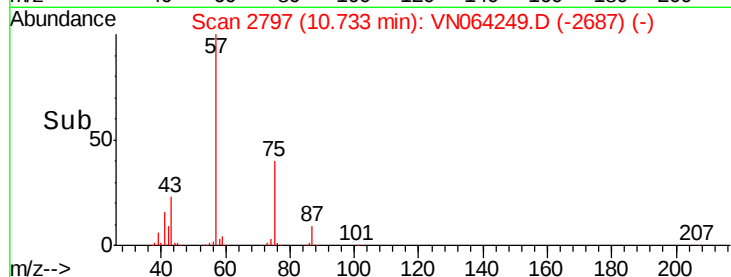
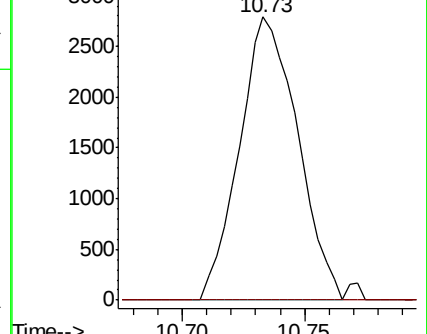
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 26.529 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064249.D

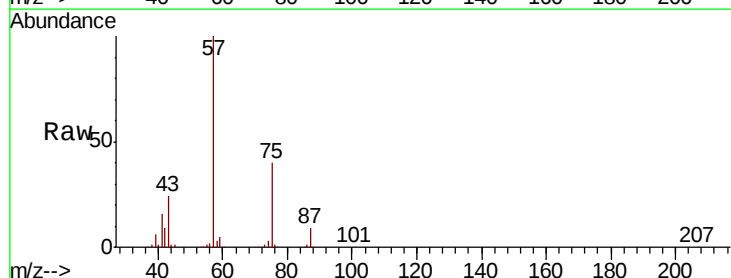
Acq: 22 Oct 2020 5:48

Tgt Ion: 43 Resp: 78806

Ion Ratio Lower Upper

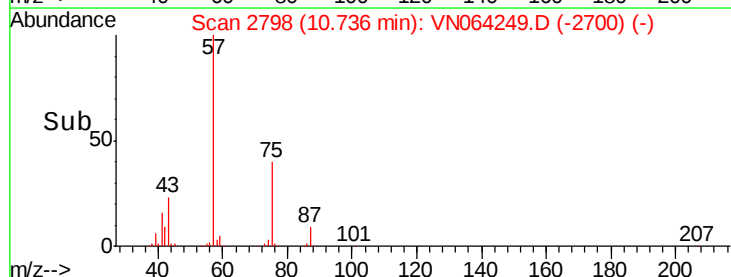
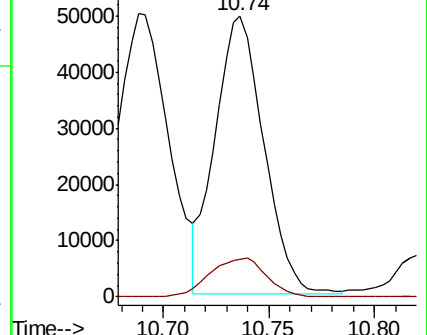
43 100

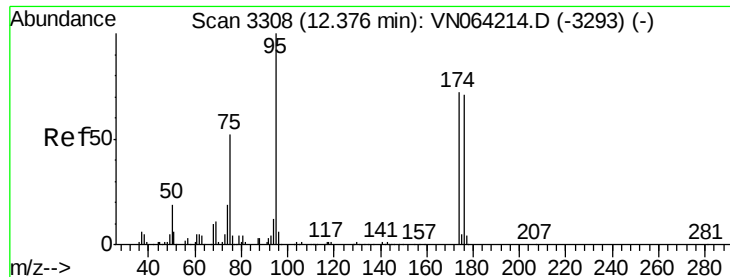
58 16.1 24.8 74.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

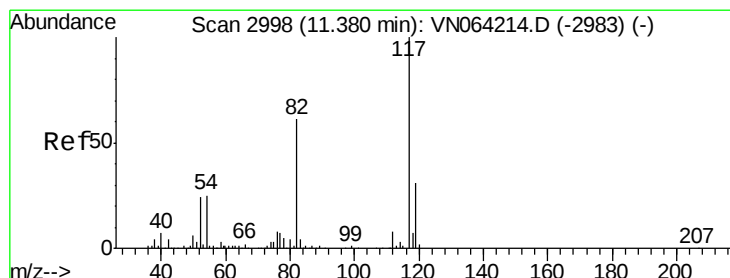
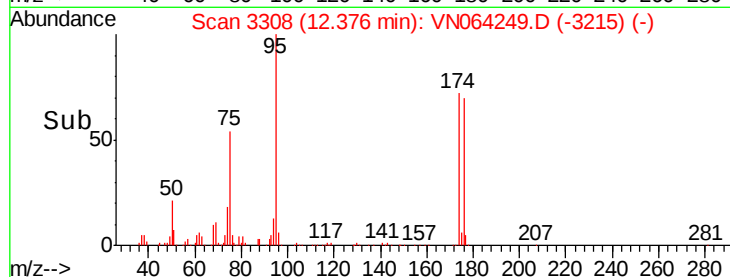
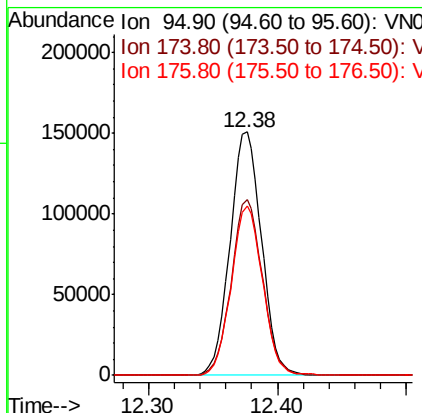
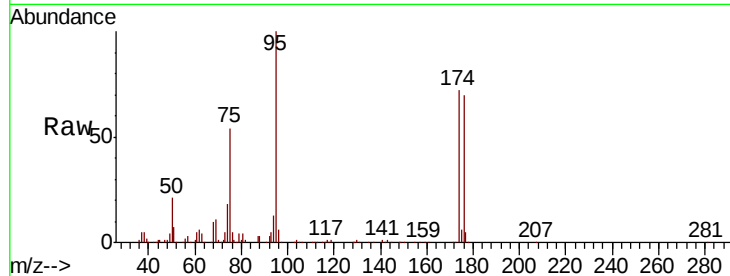




#62
4-Bromofluorobenzene
Concen: 57.913 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064249.D
Acq: 22 Oct 2020 5:48

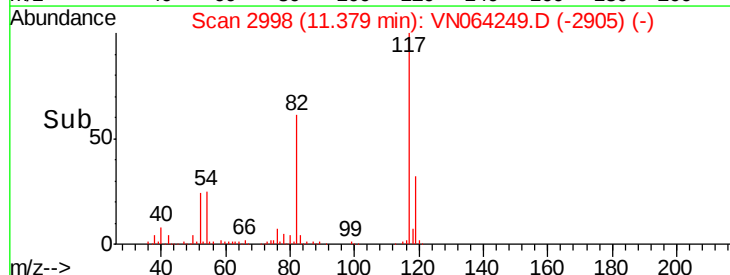
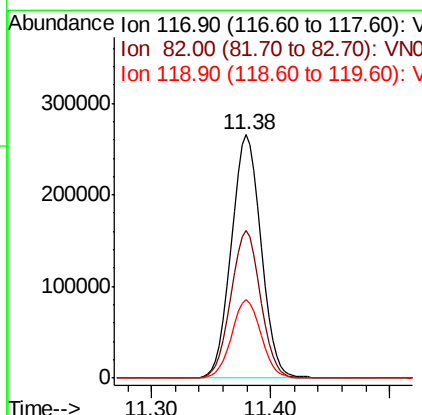
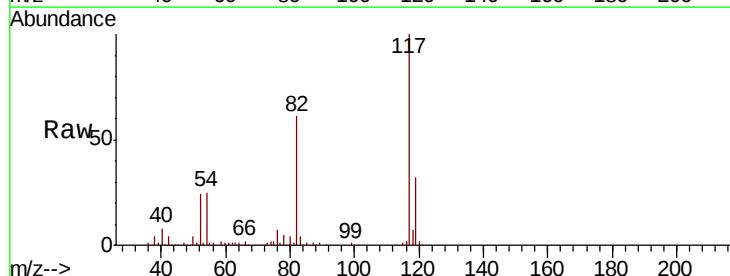
Instrument :
MSVOA_N
ClientSampleId :
72-11977

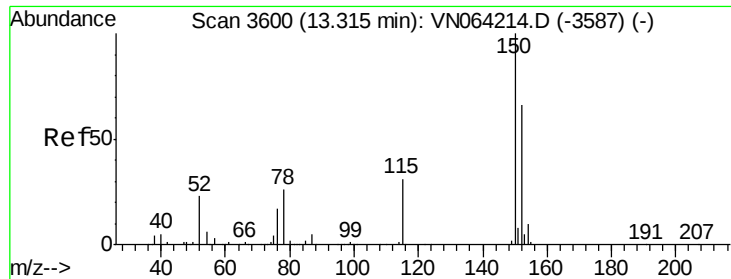
Tot Ion	95	Resp	255450
Ion Ratio	100		
Lower			
Upper			
174	71.7	0.0	144.4
176	69.3	0.0	139.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064249.D
Acq: 22 Oct 2020 5:48

Tgt Ion	117	Resp	459665
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	60.6	48.8	73.2
119	32.0	24.7	37.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

72-11977

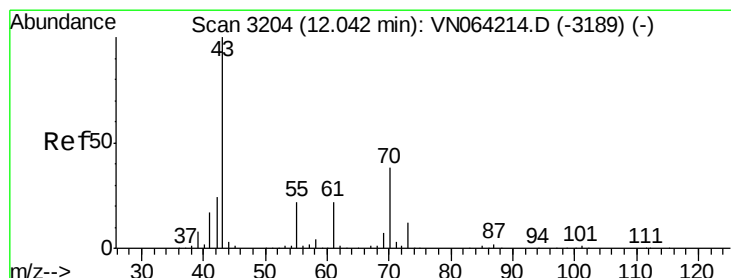
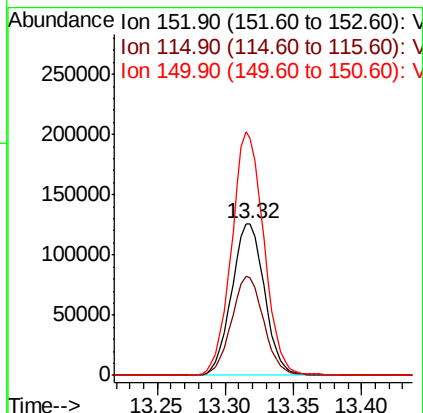
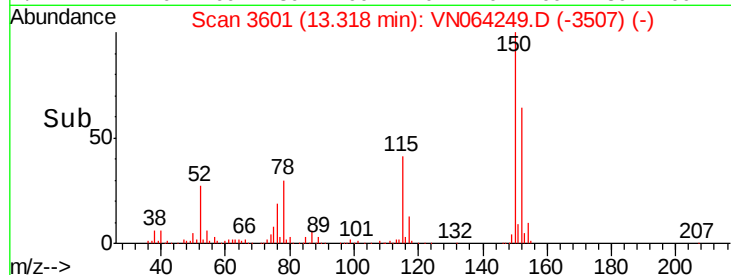
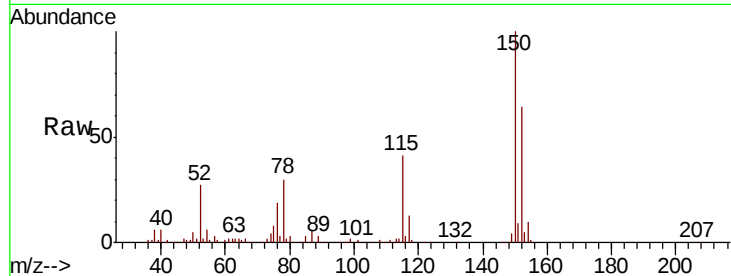
Tot Ion:152 Resp: 211656

Ion Ratio Lower Upper

152 100

115 63.8 32.0 96.2

150 157.3 0.0 356.6



#74

N-ethyl acetate

Concen: 0.756 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Tgt Ion: 43 Resp: 5274

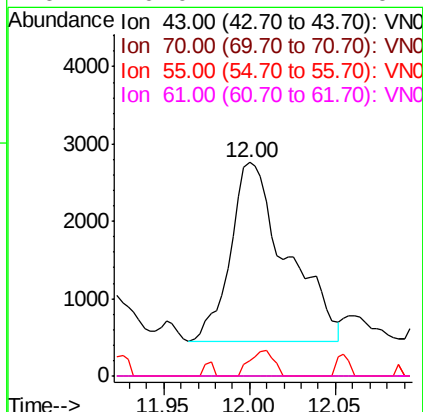
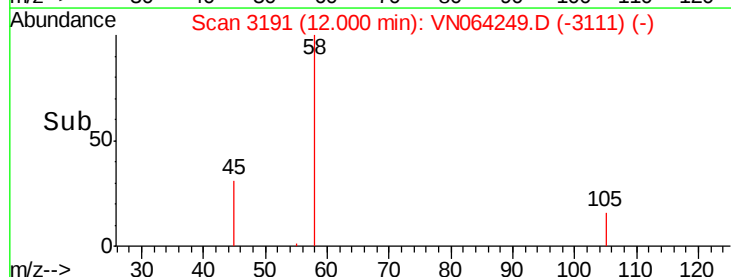
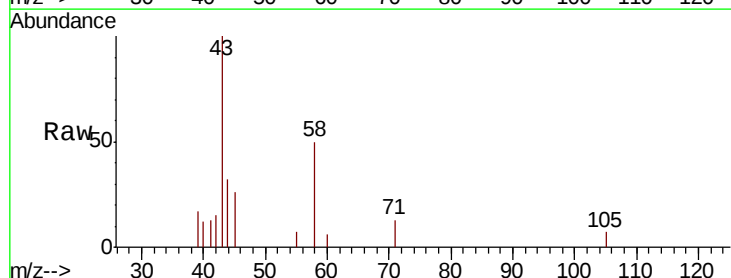
Ion Ratio Lower Upper

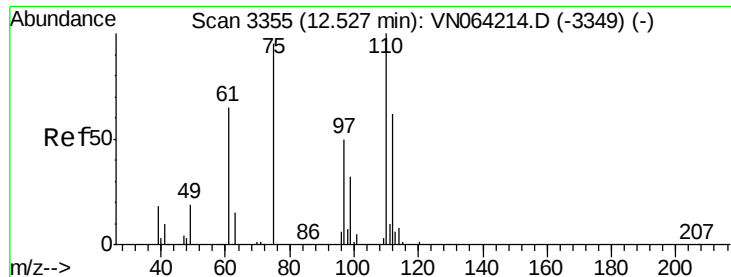
43 100

70 0.0 30.2 45.4#

55 6.0 18.0 27.0#

61 0.0 17.4 26.2#





#76

1,2,3-Trichloropropane

Concen: 30.981 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

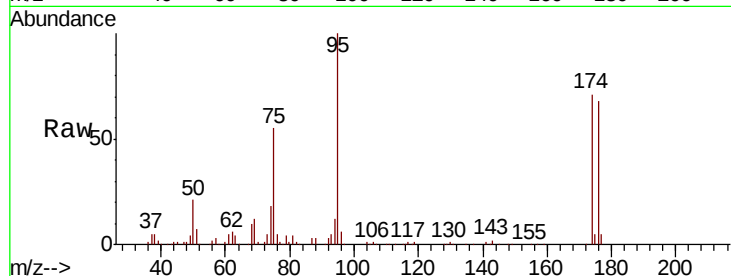
72-11977

Tot Ion: 75 Resp: 138241

Ion Ratio Lower Upper

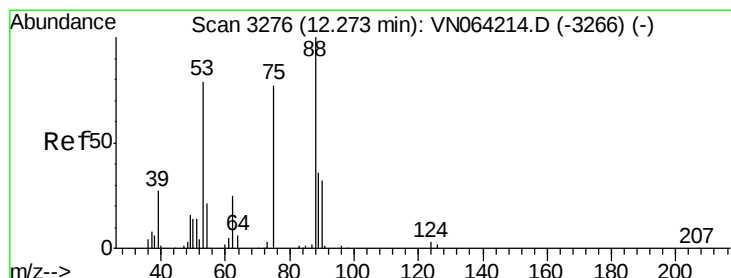
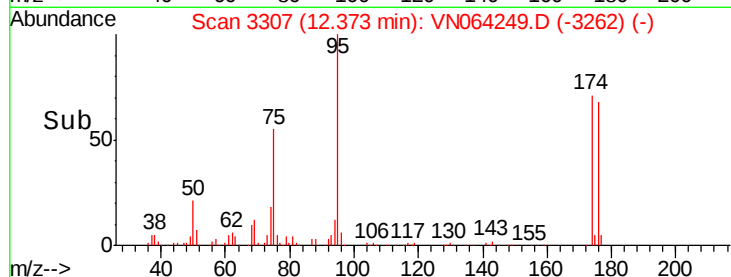
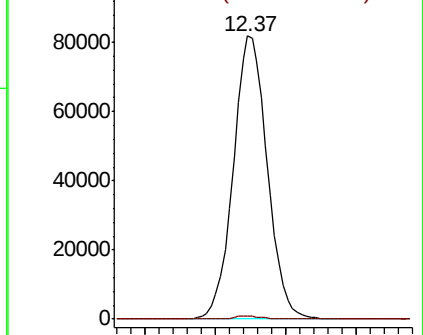
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 78.219 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064249.D

Acq: 22 Oct 2020 5:48

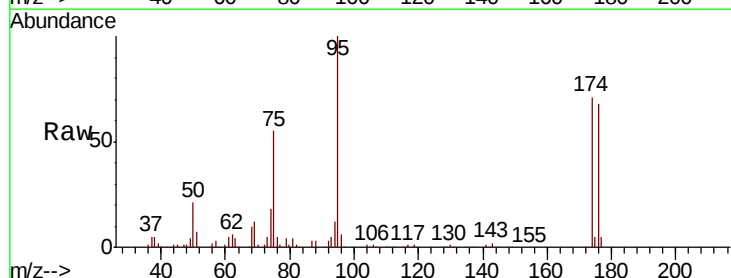
Tgt Ion: 75 Resp: 138241

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

