

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063464.D
 Acq On : 18 Sep 2020 17:49
 Operator : JC/MD
 Sample : L4059-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B33-091720-0-1

Quant Time: Sep 21 01:36:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	250681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	477898	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	488449	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	213246	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	211563	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
35) Dibromofluoromethane	7.55	113	153372	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
50) Toluene-d8	10.06	98	623609	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.38	95	254872	55.89	ug/l	0.00
Spiked Amount			Recovery	=	111.78%	

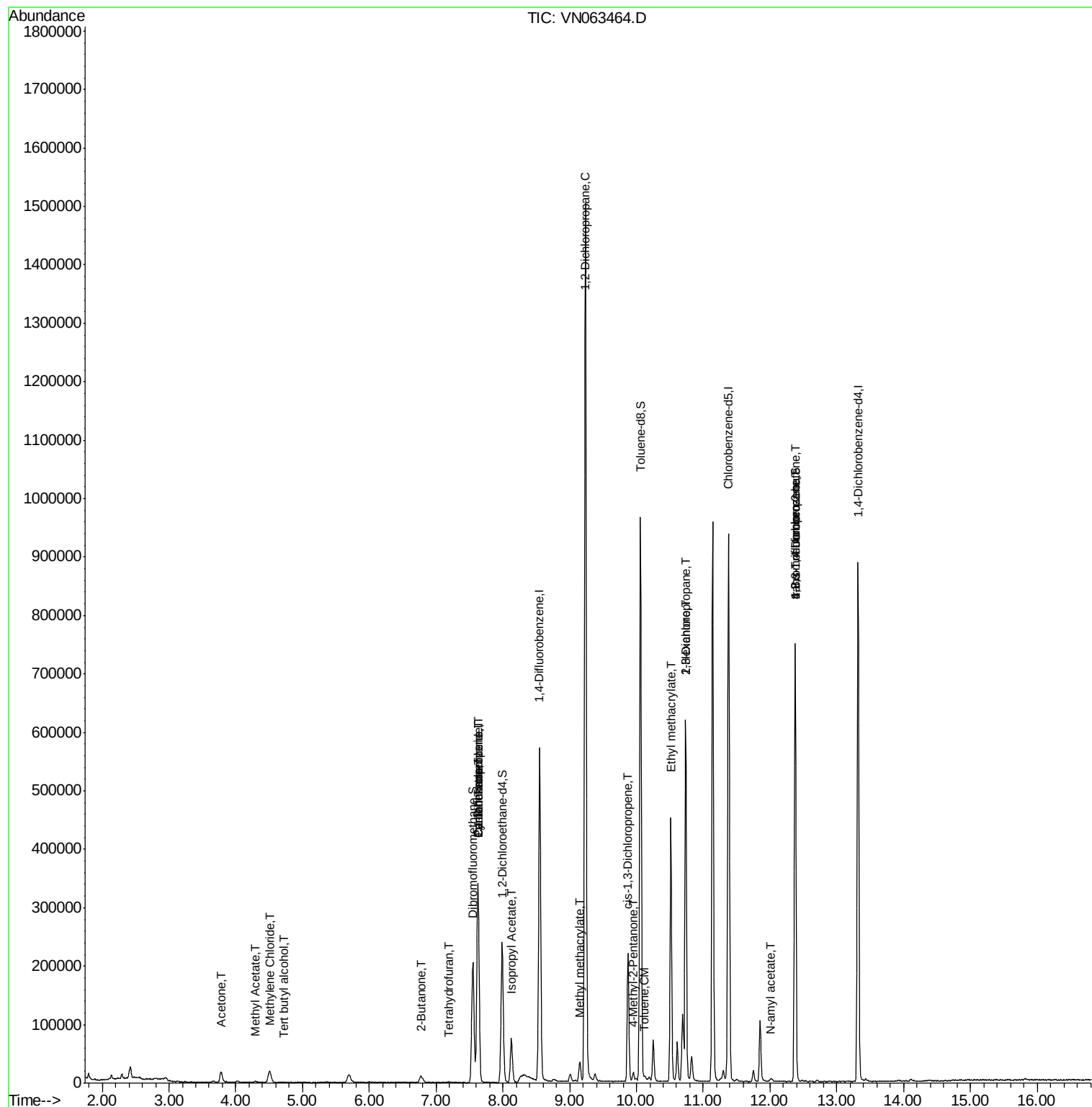
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	619	1.047	ug/l #	72
16) Acetone	3.78	43	31860	23.231	ug/l	97
18) Methyl Acetate	4.29	43	4161	1.195	ug/l #	75
20) Methylene Chloride	4.51	84	14830	4.268	ug/l	95
25) 2-Butanone	6.78	43	2598	1.232	ug/l #	81
29) Tetrahydrofuran	7.17	42	629	0.437	ug/l #	60
31) Cyclohexane	7.63	56	7153	1.214	ug/l #	11
36) 1,1-Dichloropropene	7.62	75	23546	4.625	ug/l #	49
38) Carbon Tetrachloride	7.62	117	27412	5.274	ug/l #	16
43) Isopropyl Acetate	8.13	43	90835	10.166	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1848	0.467	ug/l #	43
48) Methyl methacrylate	9.14	41	5344	1.217	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	10850	2.169	ug/l	99
52) Toluene	10.13	92	2735	0.313	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	36434	5.724	ug/l #	67
56) Ethyl methacrylate	10.51	69	1327	0.245	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5759	0.920	ug/l #	42
59) 2-Hexanone	10.74	43	96363	26.591	ug/l #	54
74) N-amyl acetate	12.01	43	2612	0.323	ug/l #	55
76) 1,2,3-Trichloropropane	12.38	75	143174	27.126	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	143174	74.369	ug/l #	7

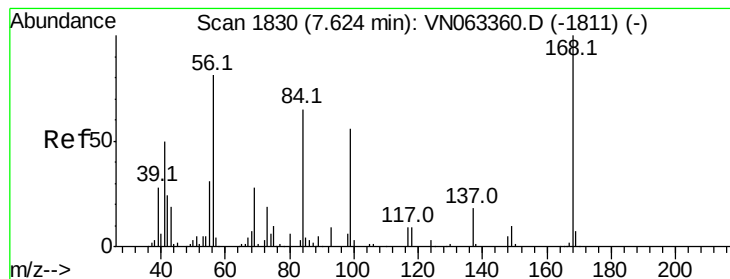
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

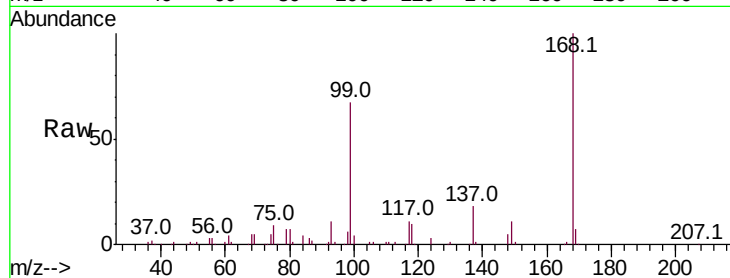
PAV-B33-091720-0-1

Tot Ion:168 Resp: 250681

Ion Ratio Lower Upper

168 100

99 66.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

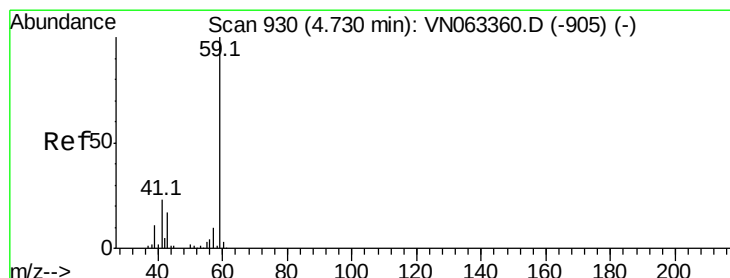
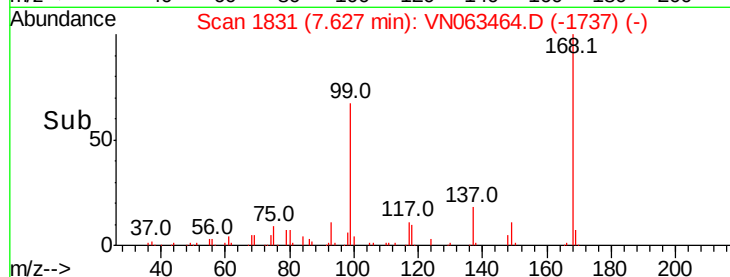
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.047 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063464.D

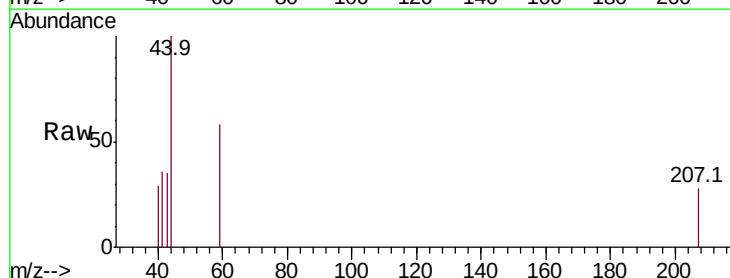
Acq: 18 Sep 2020 17:49

Tgt Ion: 59 Resp: 619

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.72

400

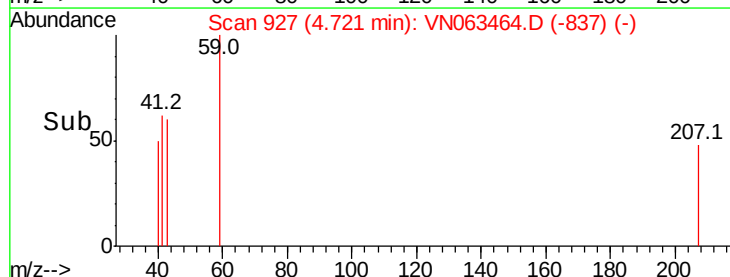
300

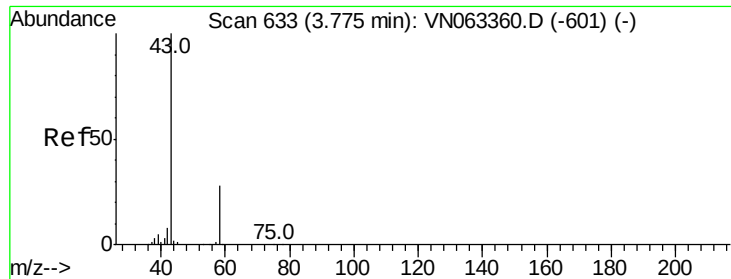
200

100

0

Time--> 4.70 4.72 4.74 4.76





#16

Acetone

Concen: 23.231 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

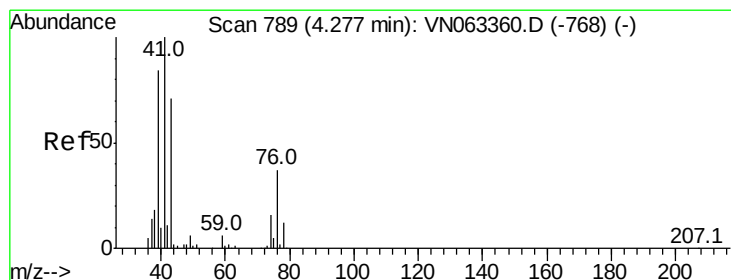
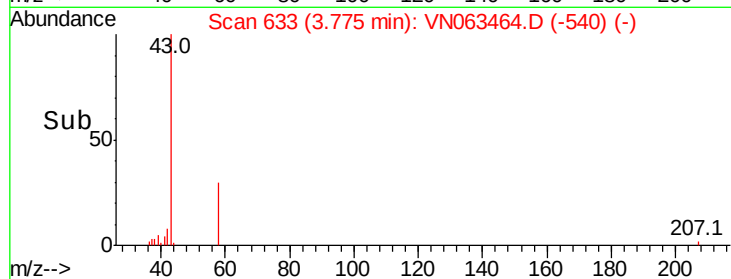
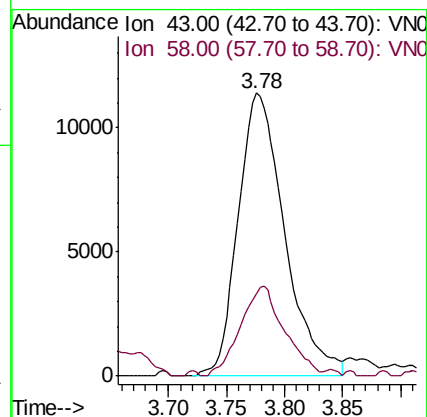
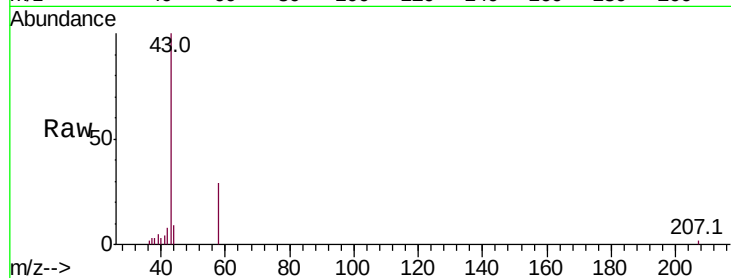
PAV-B33-091720-0-1

Tot Ion: 43 Resp: 31860

Ion Ratio Lower Upper

43 100

58 29.2 22.3 33.5



#18

Methyl Acetate

Concen: 1.195 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063464.D

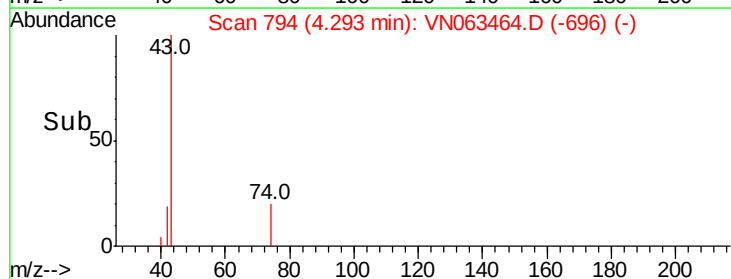
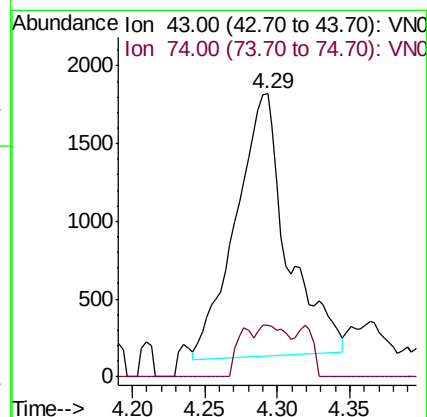
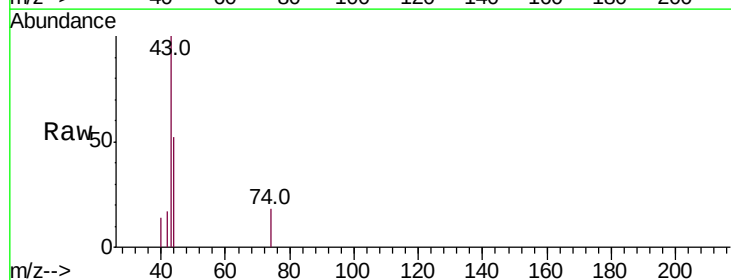
Acq: 18 Sep 2020 17:49

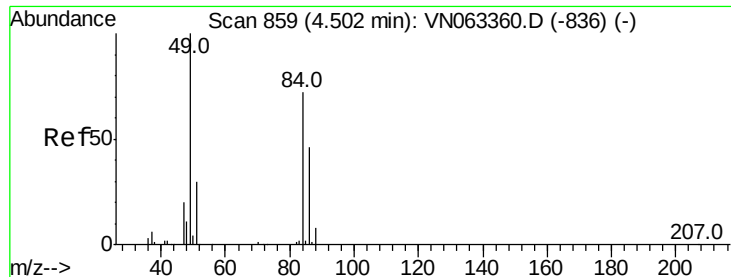
Tgt Ion: 43 Resp: 4161

Ion Ratio Lower Upper

43 100

74 9.8 17.4 26.2#

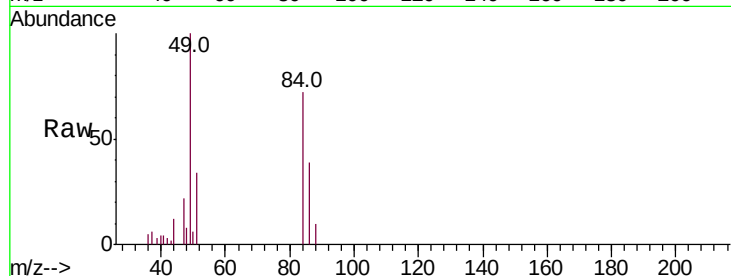




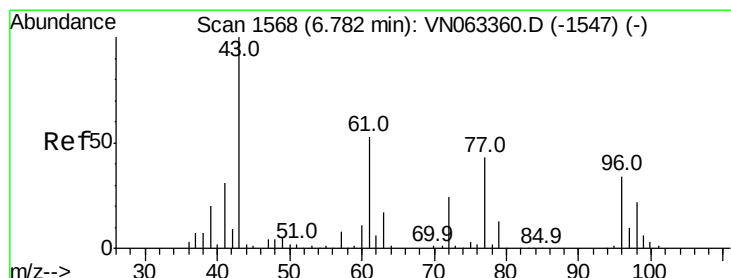
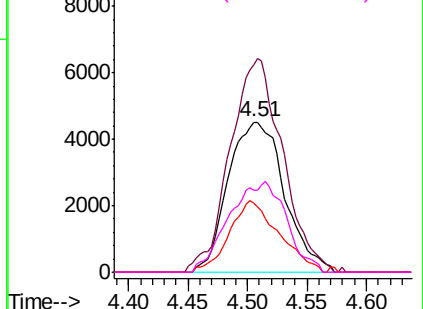
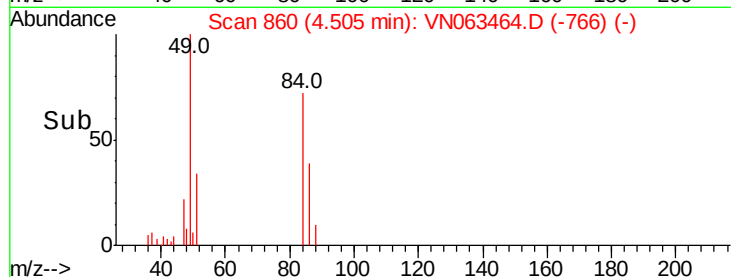
#20
Methvlene Chloride
Concen: 4.268 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063464.D
Acq: 18 Sep 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
PAV-B33-091720-0-1

Tot Ion: 84 Resp: 14830
Ion Ratio Lower Upper
84 100
49 138.0 110.7 166.1
51 46.3 32.9 49.3
86 54.5 51.1 76.7

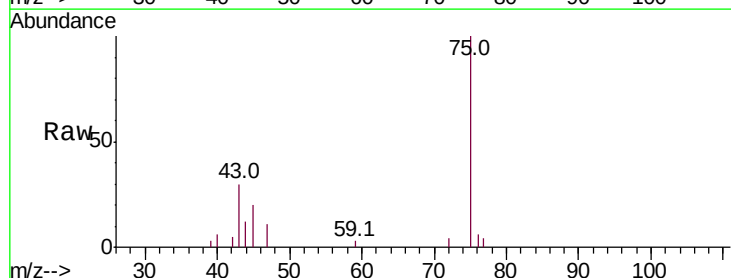


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

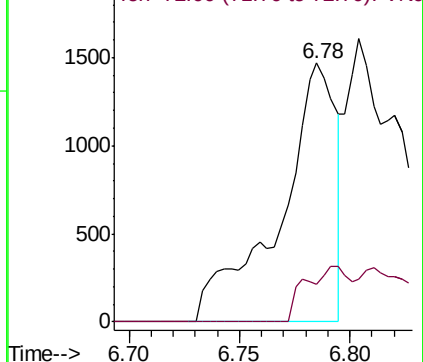
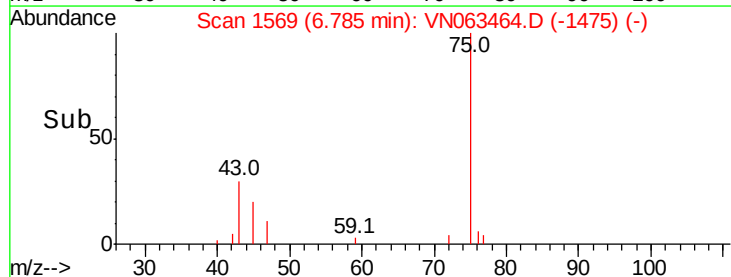


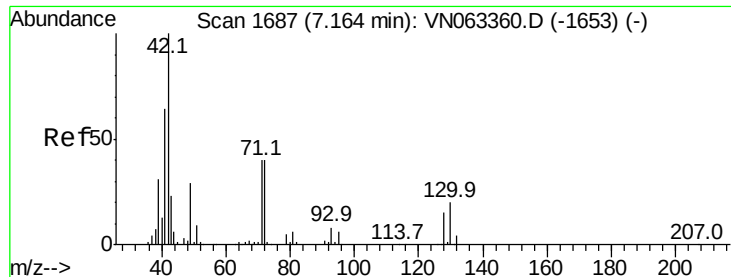
#25
2-Butanone
Concen: 1.232 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN063464.D
Acq: 18 Sep 2020 17:49

Tgt Ion: 43 Resp: 2598
Ion Ratio Lower Upper
43 100
72 14.7 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.437 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-0-1

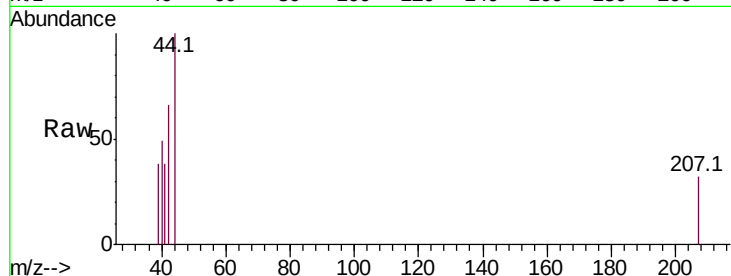
Tot Ion: 42 Resp: 629

Ion Ratio Lower Upper

42 100

72 4.8 32.1 48.1#

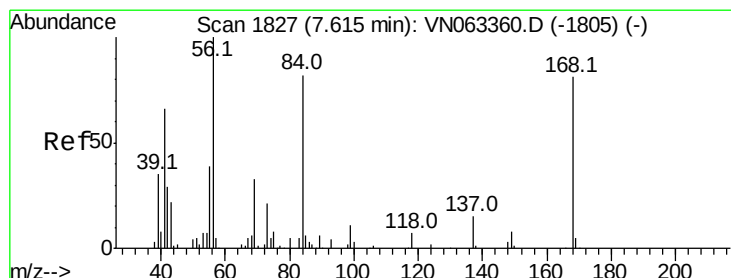
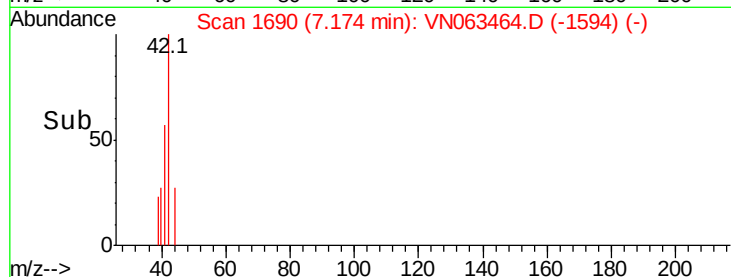
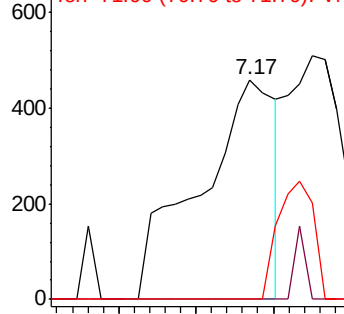
71 25.3 31.2 46.8#



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



#31

Cyclohexane

Concen: 1.214 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

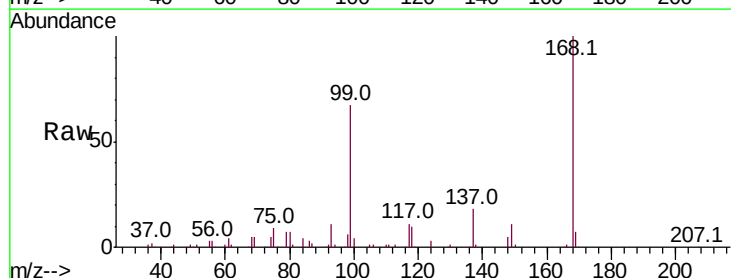
Tgt Ion: 56 Resp: 7153

Ion Ratio Lower Upper

56 100

69 154.1 26.1 39.1#

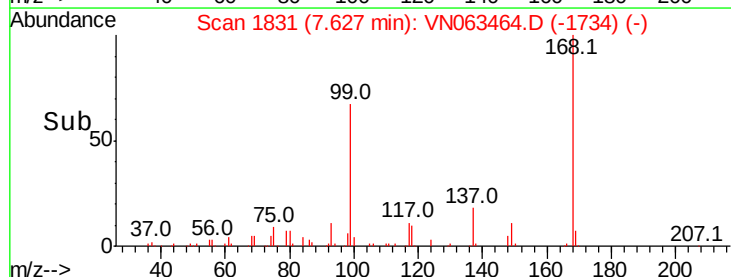
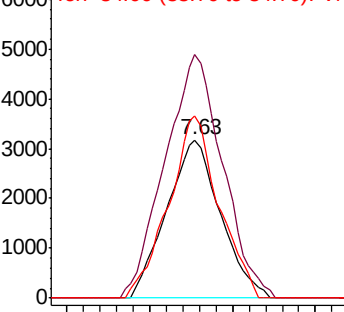
84 115.5 65.4 98.2#

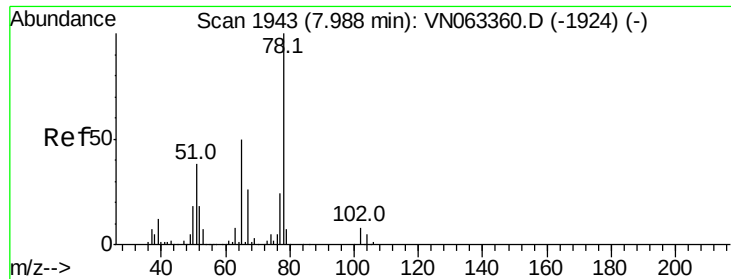


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

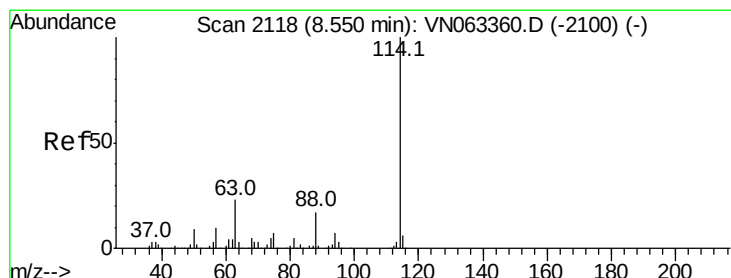
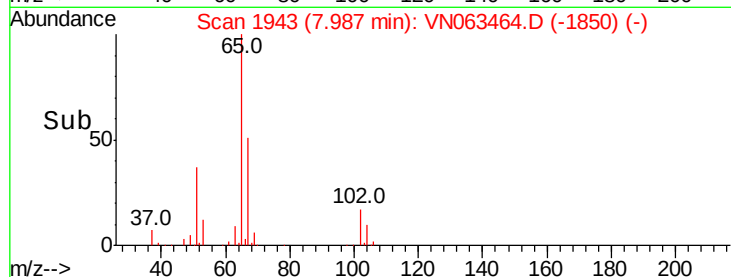
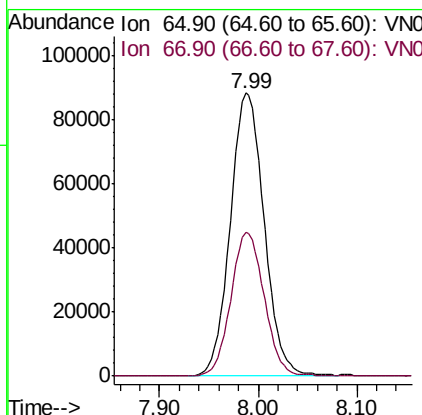
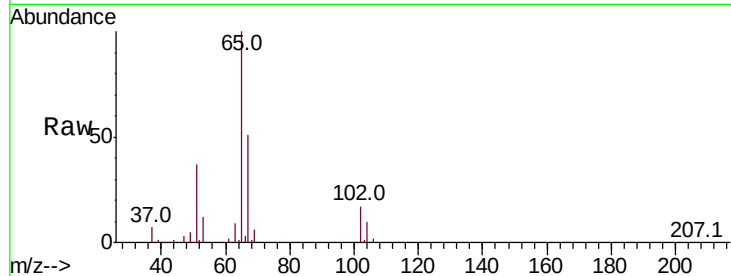




#33
 1,2-Dichloroethane-d4
 Concen: 49.578 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063464.D
 Acq: 18 Sep 2020 17:49

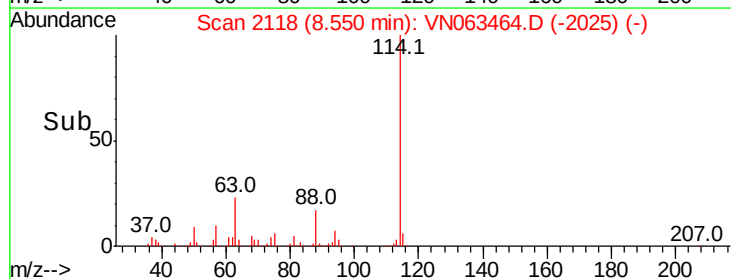
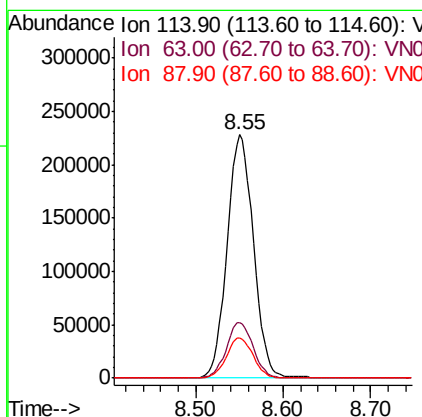
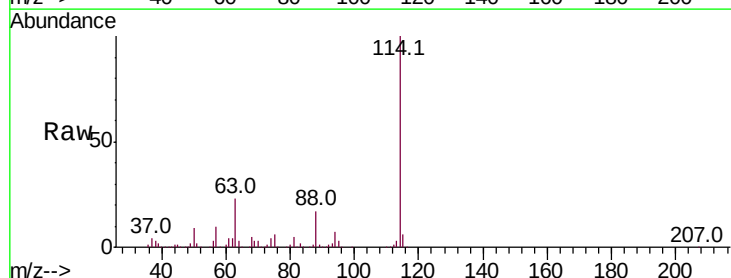
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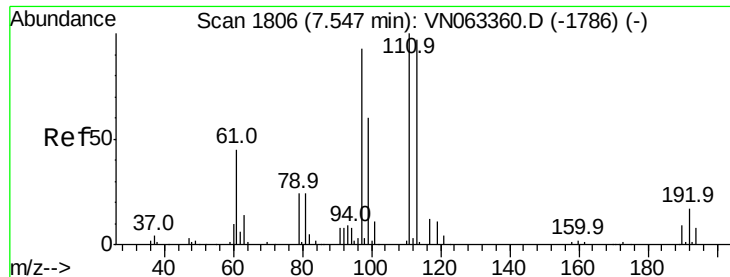
Tot Ion: 65 Resp: 211563
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063464.D
 Acq: 18 Sep 2020 17:49

Tgt Ion: 114 Resp: 477898
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 46.4
 88 16.6 0.0 33.2

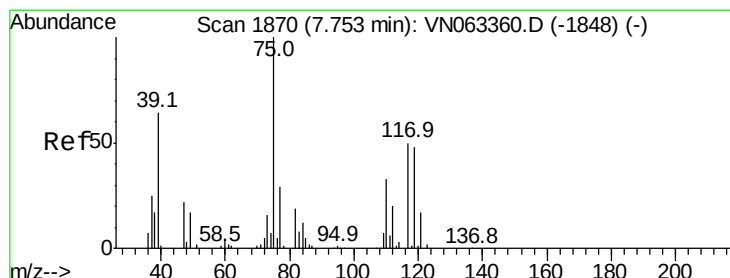
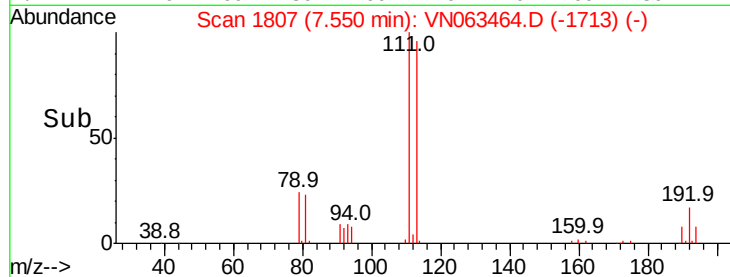
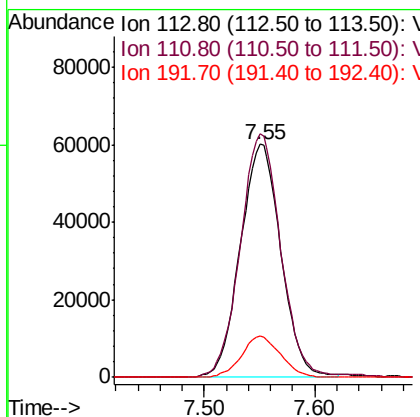
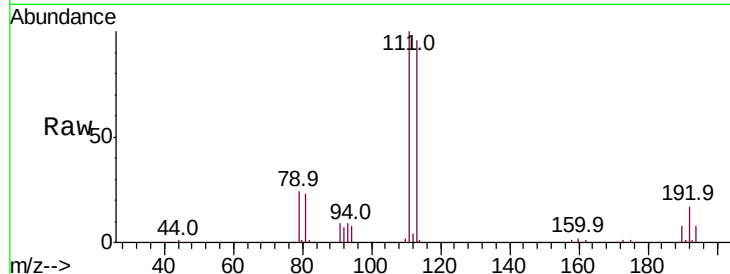




#35
 Dibromofluoromethane
 Concen: 46.358 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063464.D
 Acq: 18 Sep 2020 17:49

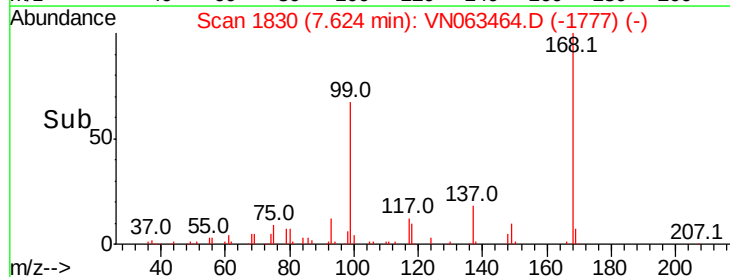
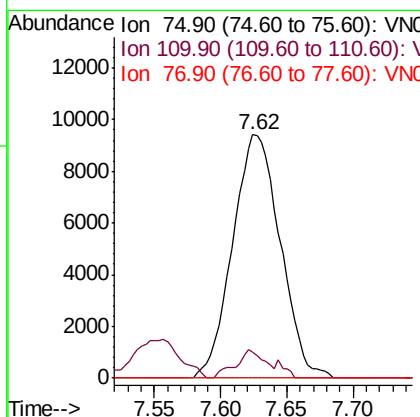
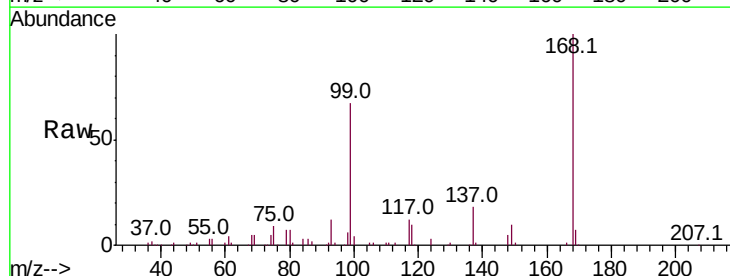
Instrument :
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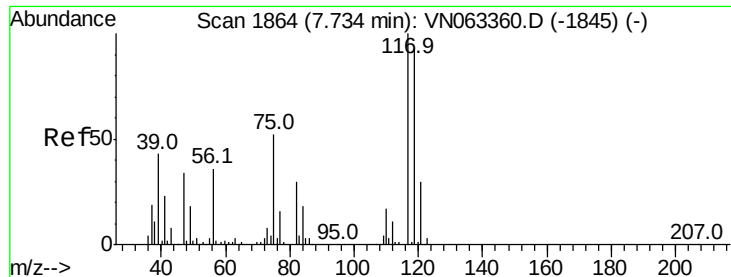
Tot Ion:113 Resp: 153372
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.9 124.3
 192 17.1 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.625 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063464.D
 Acq: 18 Sep 2020 17:49

Tgt Ion: 75 Resp: 23546
 Ion Ratio Lower Upper
 75 100
 110 7.0 16.5 49.5#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.274 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-0-1

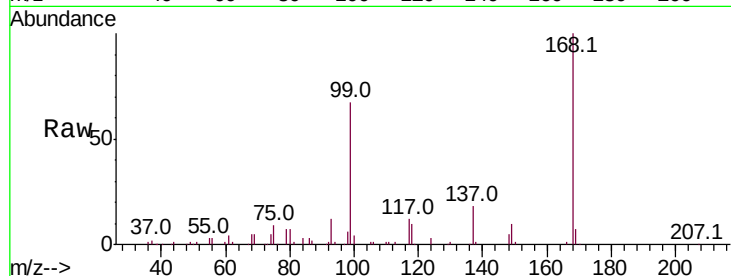
Tot Ion:117 Resp: 27412

Ion Ratio Lower Upper

117 100

119 3.8 74.5 111.7#

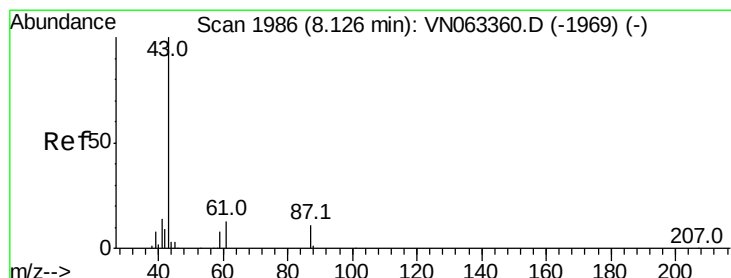
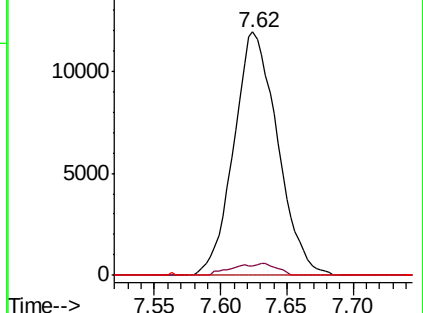
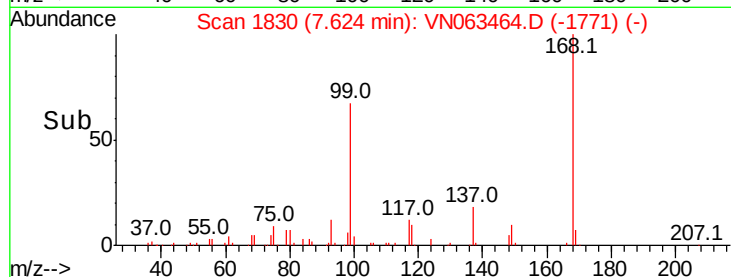
121 0.0 24.1 36.1#



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: 10.166 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

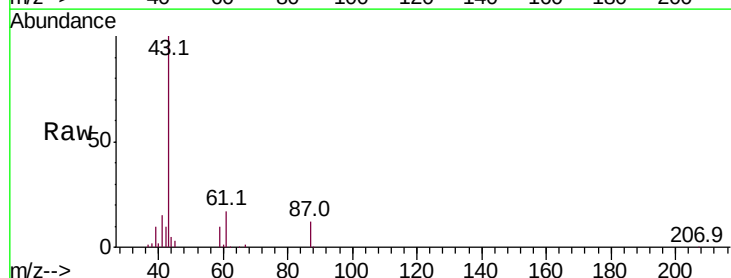
Tgt Ion: 43 Resp: 90835

Ion Ratio Lower Upper

43 100

61 17.8 14.2 21.2

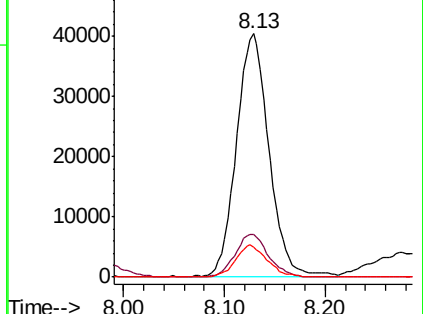
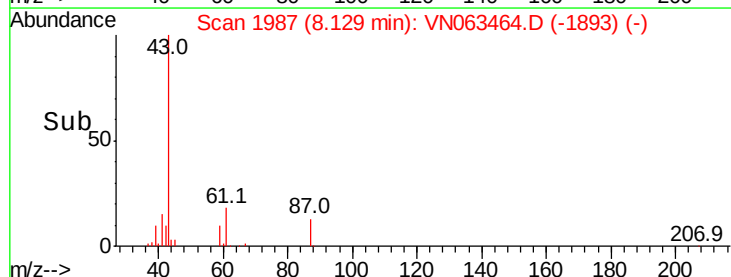
87 12.7 9.0 13.6

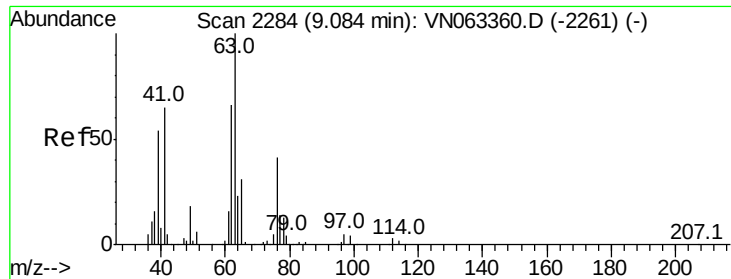


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

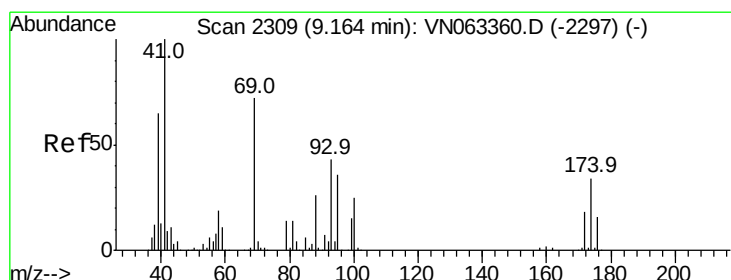
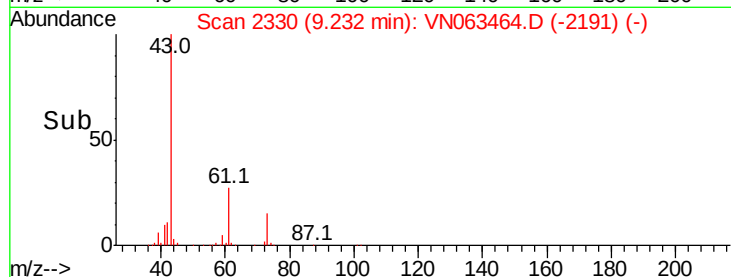
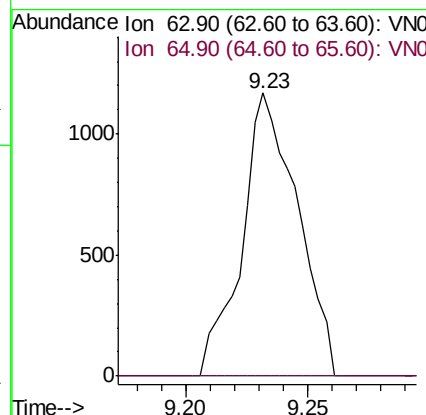
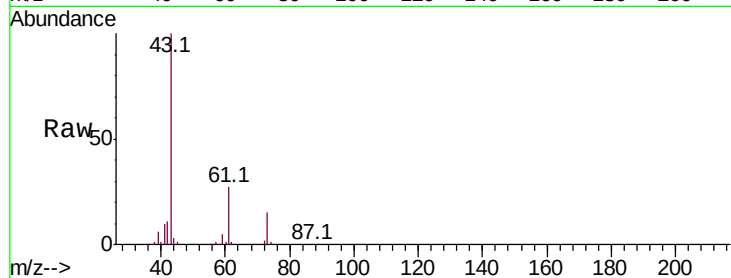




#45
 1,2-Dichloropropane
 Concen: 0.467 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN063464.D
 Acq: 18 Sep 2020 17:49

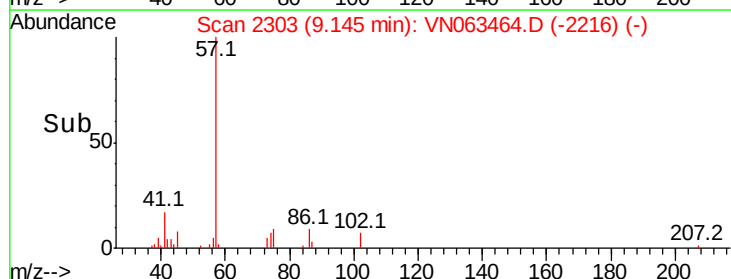
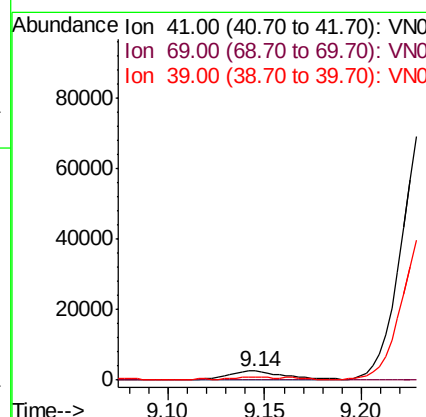
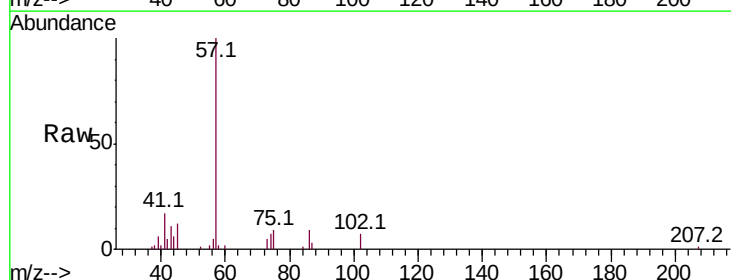
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B33-091720-0-1

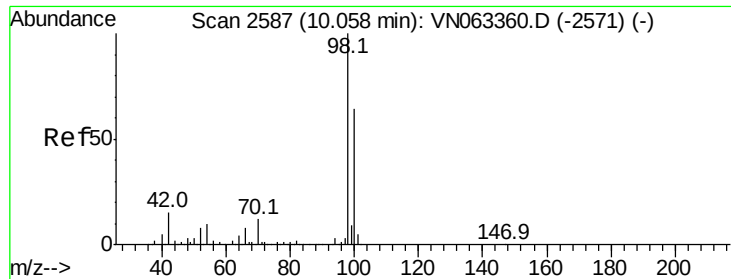
Tot Ion: 63 Resp: 1848
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.217 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN063464.D
 Acq: 18 Sep 2020 17:49

Tgt Ion: 41 Resp: 5344
 Ion Ratio Lower Upper
 41 100
 69 0.0 59.3 88.9#
 39 0.0 52.9 79.3#





#50

Toluene-d8

Concen: 50.129 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

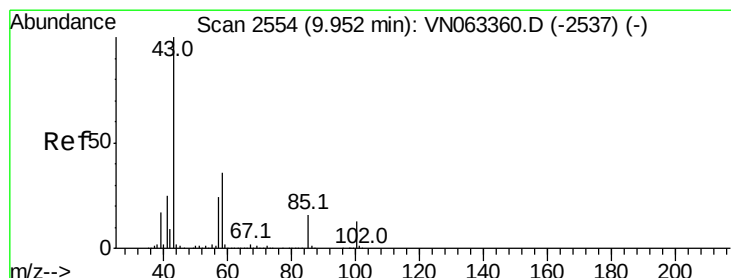
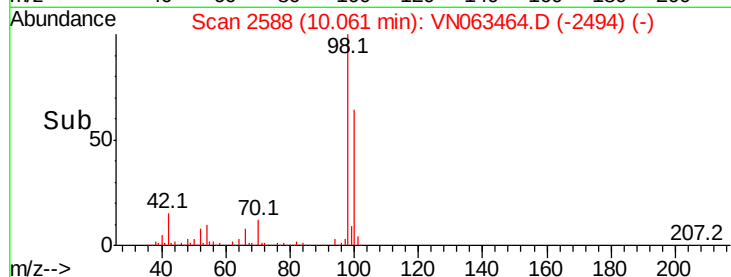
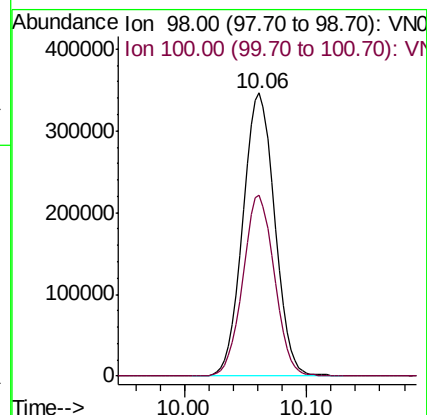
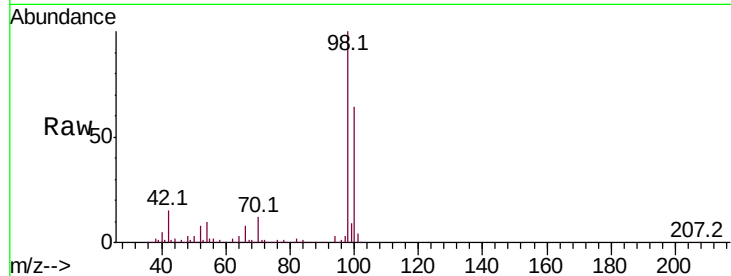
PAV-B33-091720-0-1

Tot Ion: 98 Resp: 623609

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.169 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063464.D

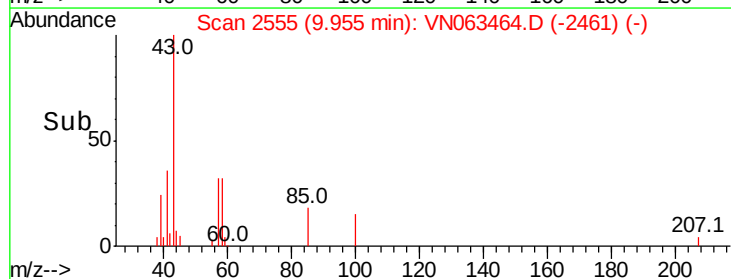
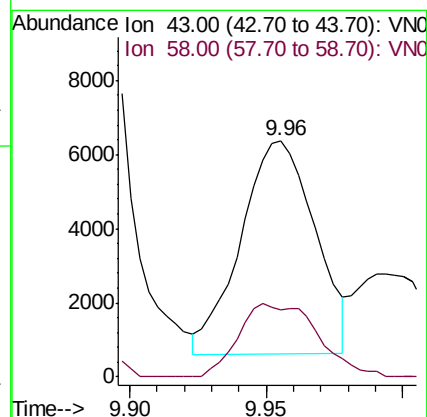
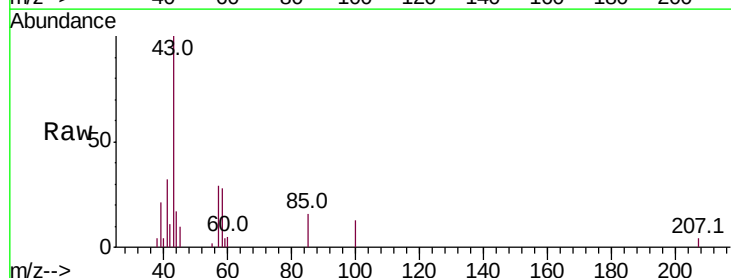
Acq: 18 Sep 2020 17:49

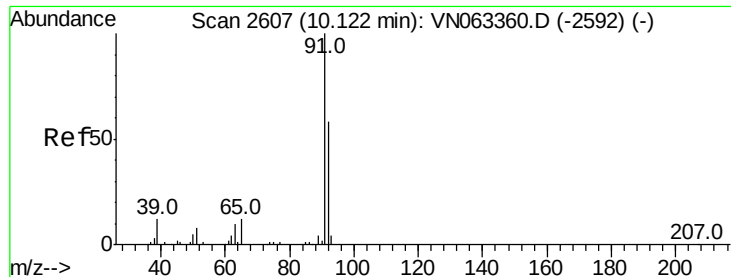
Tgt Ion: 43 Resp: 10850

Ion Ratio Lower Upper

43 100

58 36.8 29.0 43.6





#52

Toluene

Concen: 0.313 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

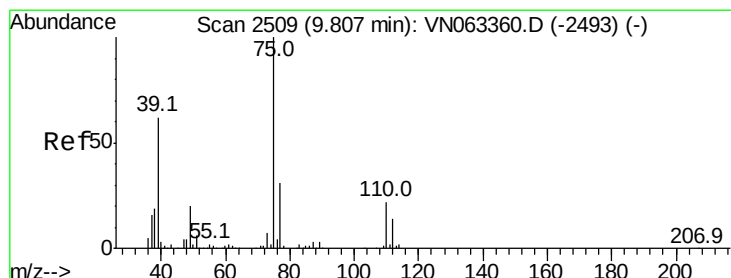
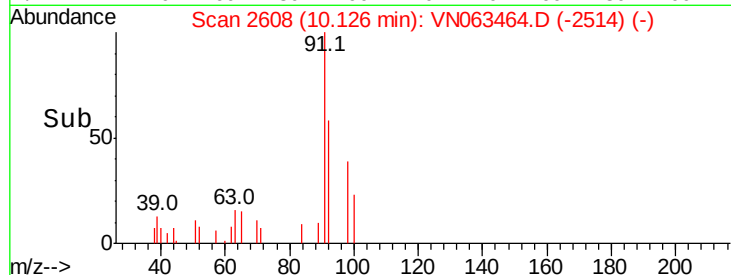
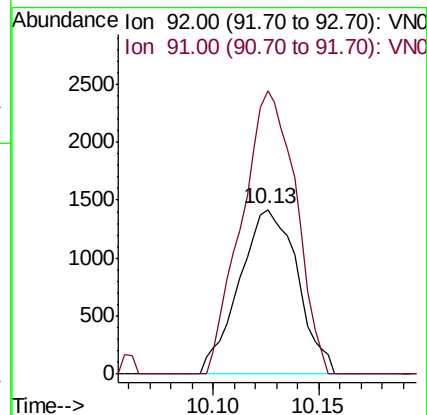
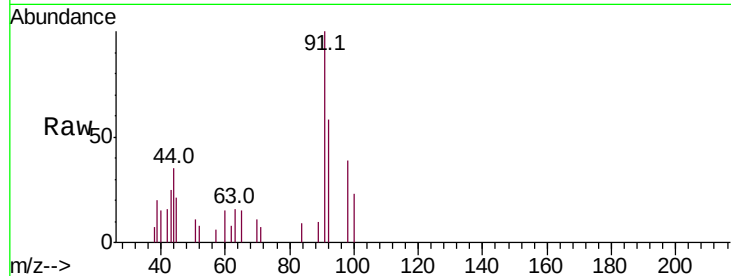
PAV-B33-091720-0-1

Tot Ion: 92 Resp: 2735

Ion Ratio Lower Upper

92 100

91 159.6 139.7 209.5



#54

cis-1,3-Dichloropropene

Concen: 5.724 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

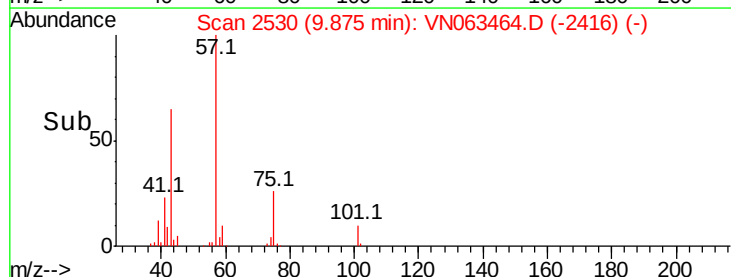
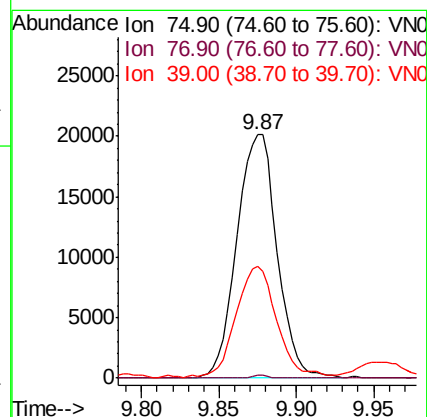
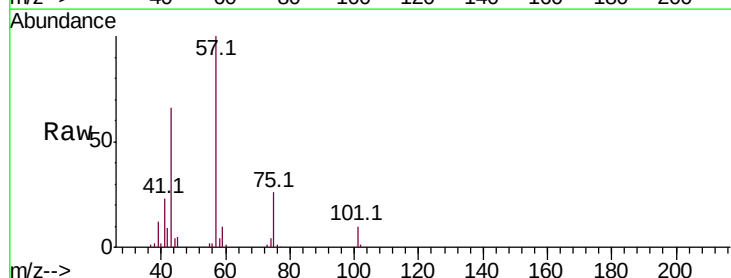
Tgt Ion: 75 Resp: 36434

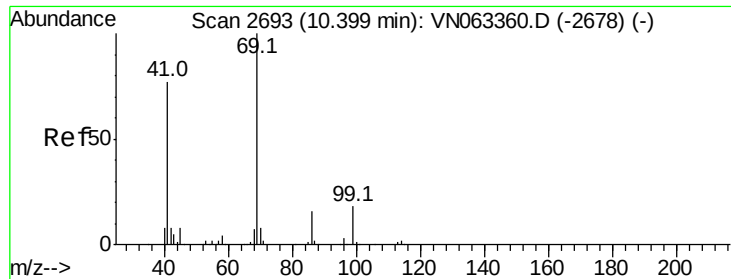
Ion Ratio Lower Upper

75 100

77 1.1 24.6 37.0#

39 44.7 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.245 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-0-1

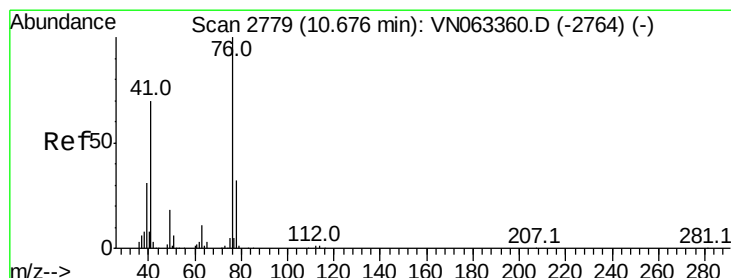
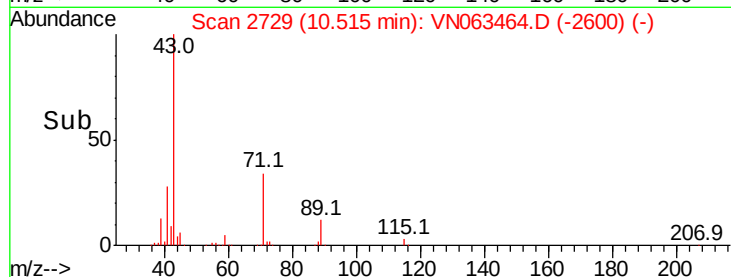
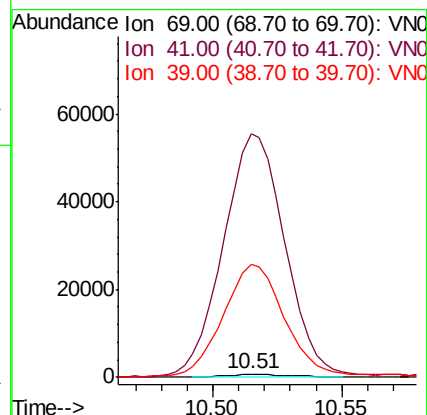
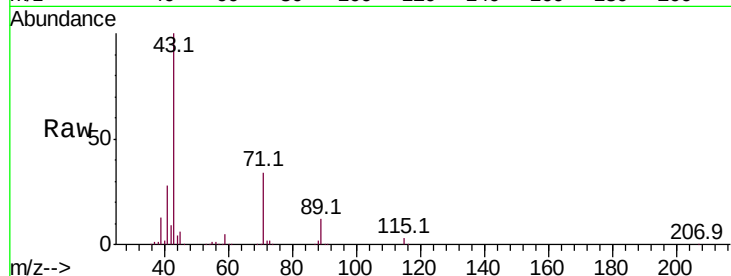
Tot Ion: 69 Resp: 1327

Ion Ratio Lower Upper

69 100

41 7053.0 61.0 91.6#

39 3184.1 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.920 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063464.D

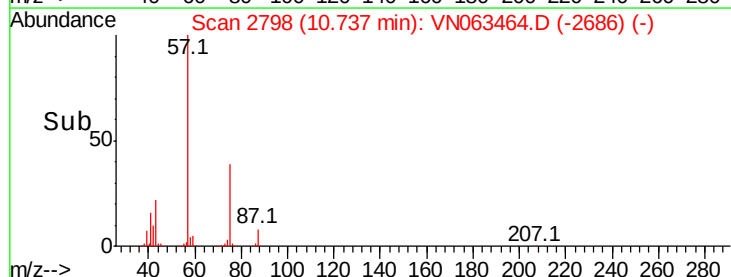
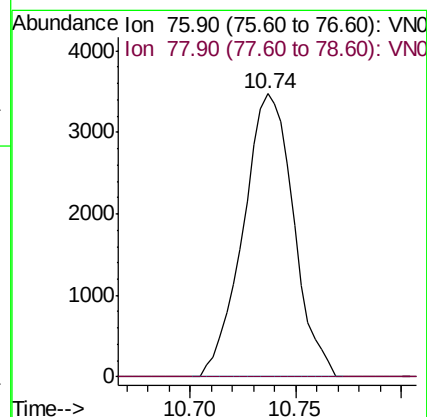
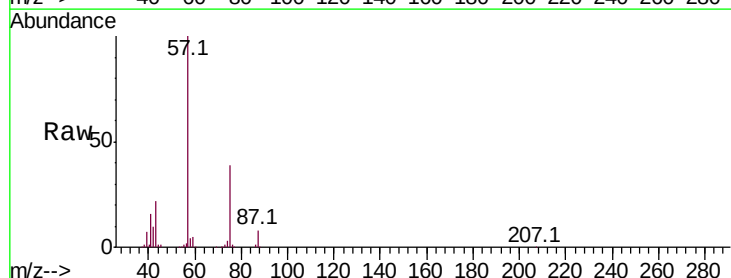
Acq: 18 Sep 2020 17:49

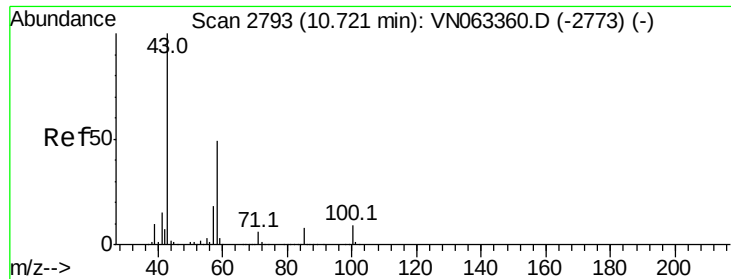
Tgt Ion: 76 Resp: 5759

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 26.591 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

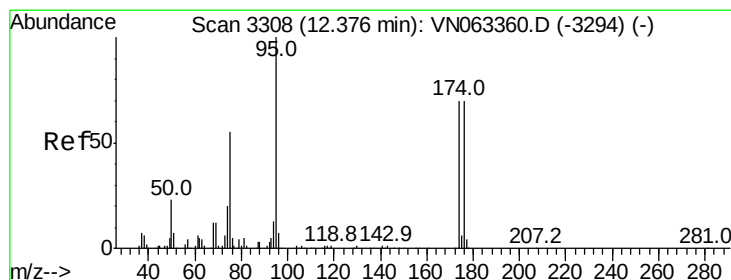
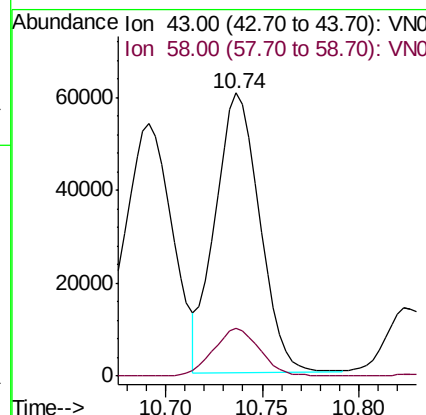
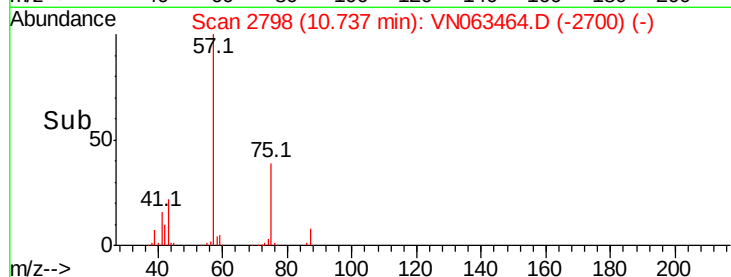
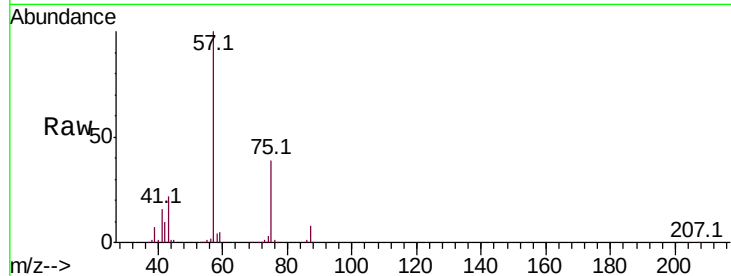
PAV-B33-091720-0-1

Tot Ion: 43 Resp: 96363

Ion Ratio Lower Upper

43 100

58 17.8 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 55.889 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

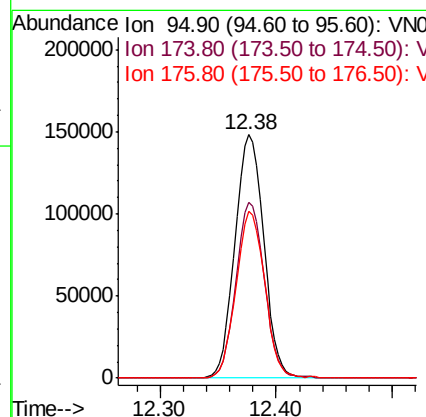
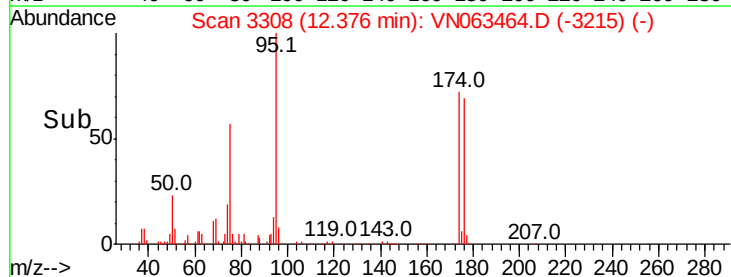
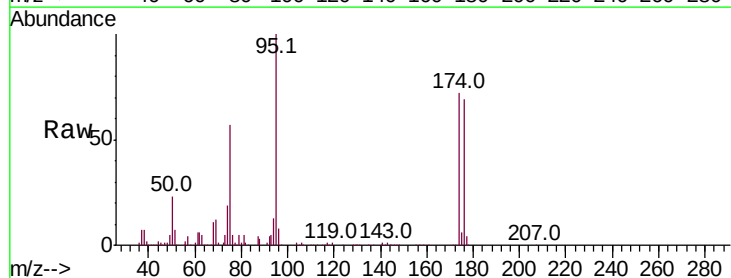
Tgt Ion: 95 Resp: 254872

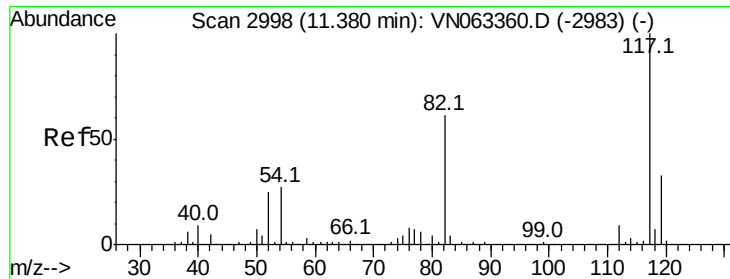
Ion Ratio Lower Upper

95 100

174 71.0 0.0 140.8

176 67.7 0.0 137.6

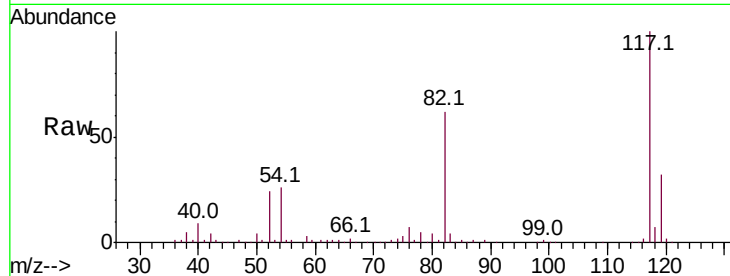




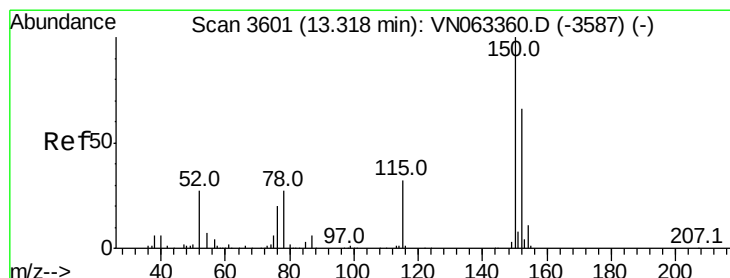
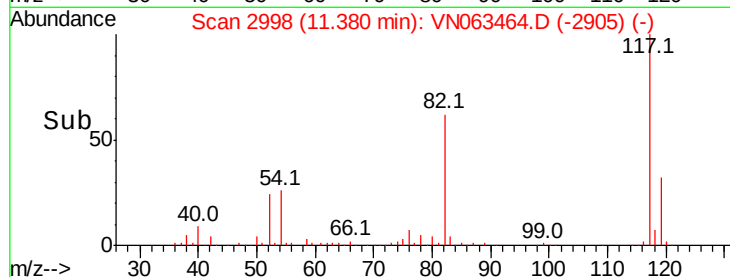
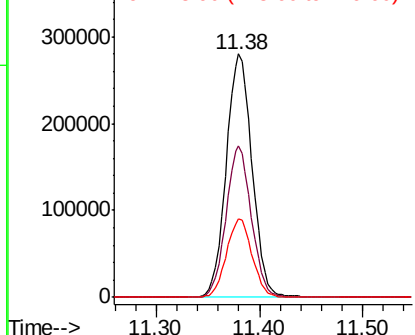
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063464.D
Acq: 18 Sep 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
PAV-B33-091720-0-1

Tot Ion:117 Resp: 488449
Ion Ratio Lower Upper
117 100
82 62.2 49.2 73.8
119 32.3 26.2 39.4

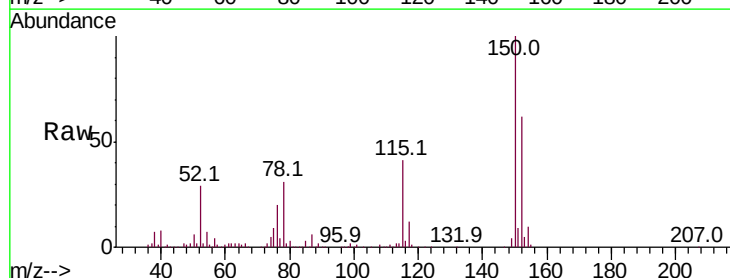


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

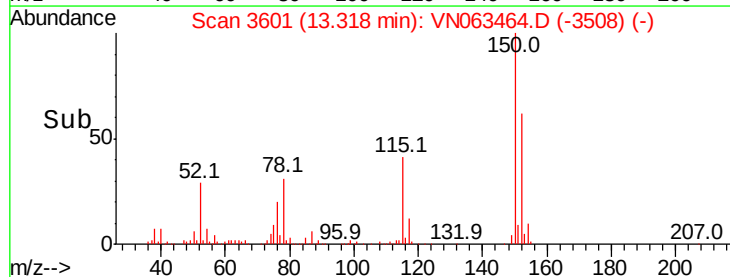
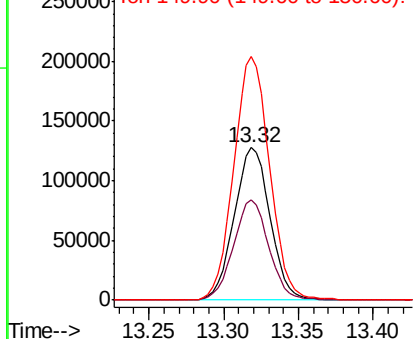


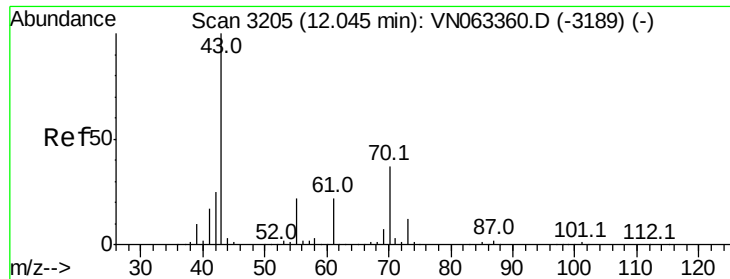
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063464.D
Acq: 18 Sep 2020 17:49

Tgt Ion:152 Resp: 213246
Ion Ratio Lower Upper
152 100
115 64.9 32.2 96.6
150 159.6 0.0 343.4



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-amyl acetate

Concen: 0.323 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-0-1

Tot Ion: 43 Resp: 2612

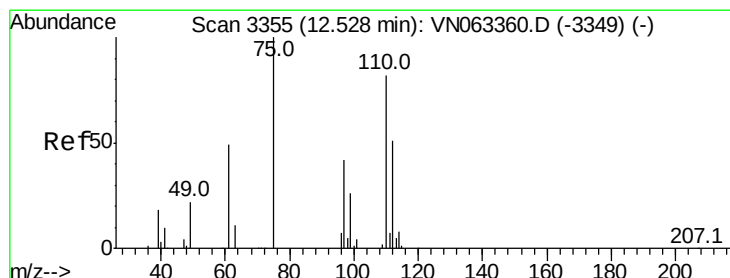
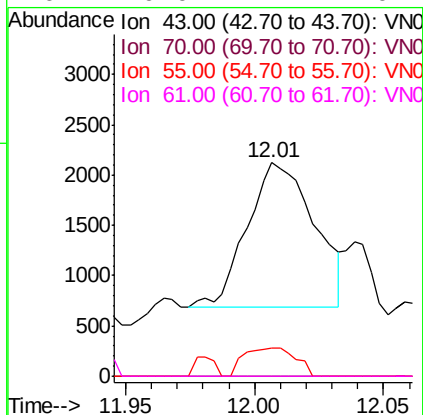
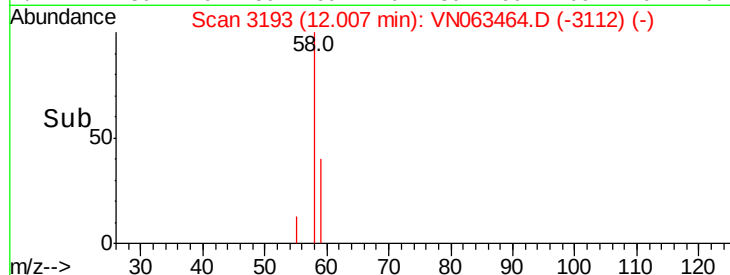
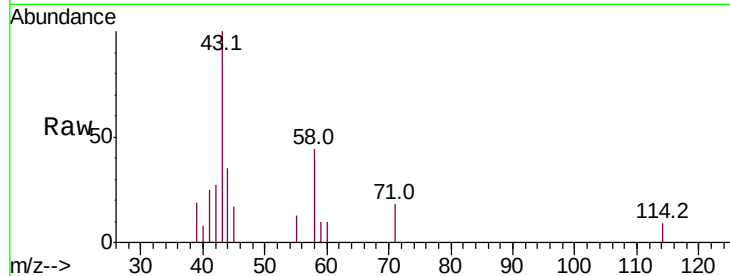
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 15.1 17.7 26.5#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 27.126 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063464.D

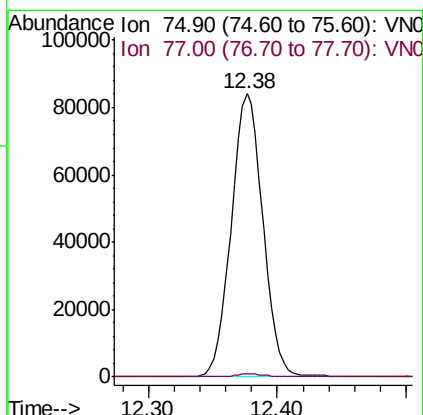
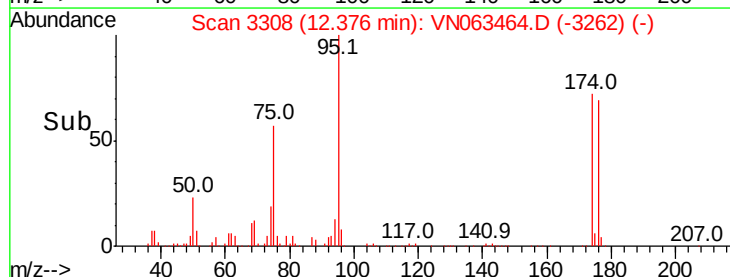
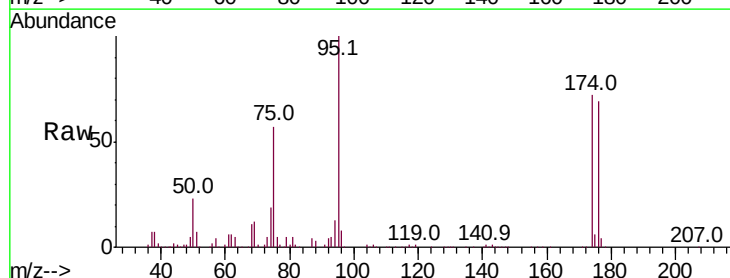
Acq: 18 Sep 2020 17:49

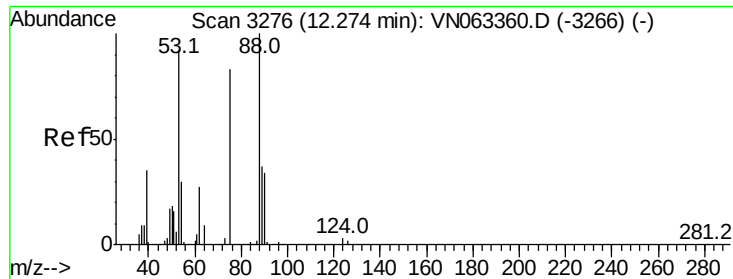
Tgt Ion: 75 Resp: 143174

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 74.369 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063464.D

Acq: 18 Sep 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-0-1

Tot Ion: 75 Resp: 143174

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

