

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064614.D
 Acq On : 13 Nov 2020 5:46
 Operator : JC/MD
 Sample : L4622-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B12-110220-0-1

Quant Time: Nov 13 06:11:44 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	218062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	498160	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	529139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	188029	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	228610	60.19	ug/l	0.00
Spiked Amount			Recovery	=	120.38%	
35) Dibromofluoromethane	7.55	113	169687	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
50) Toluene-d8	10.06	98	642827	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
62) 4-Bromofluorobenzene	12.38	95	236937	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	

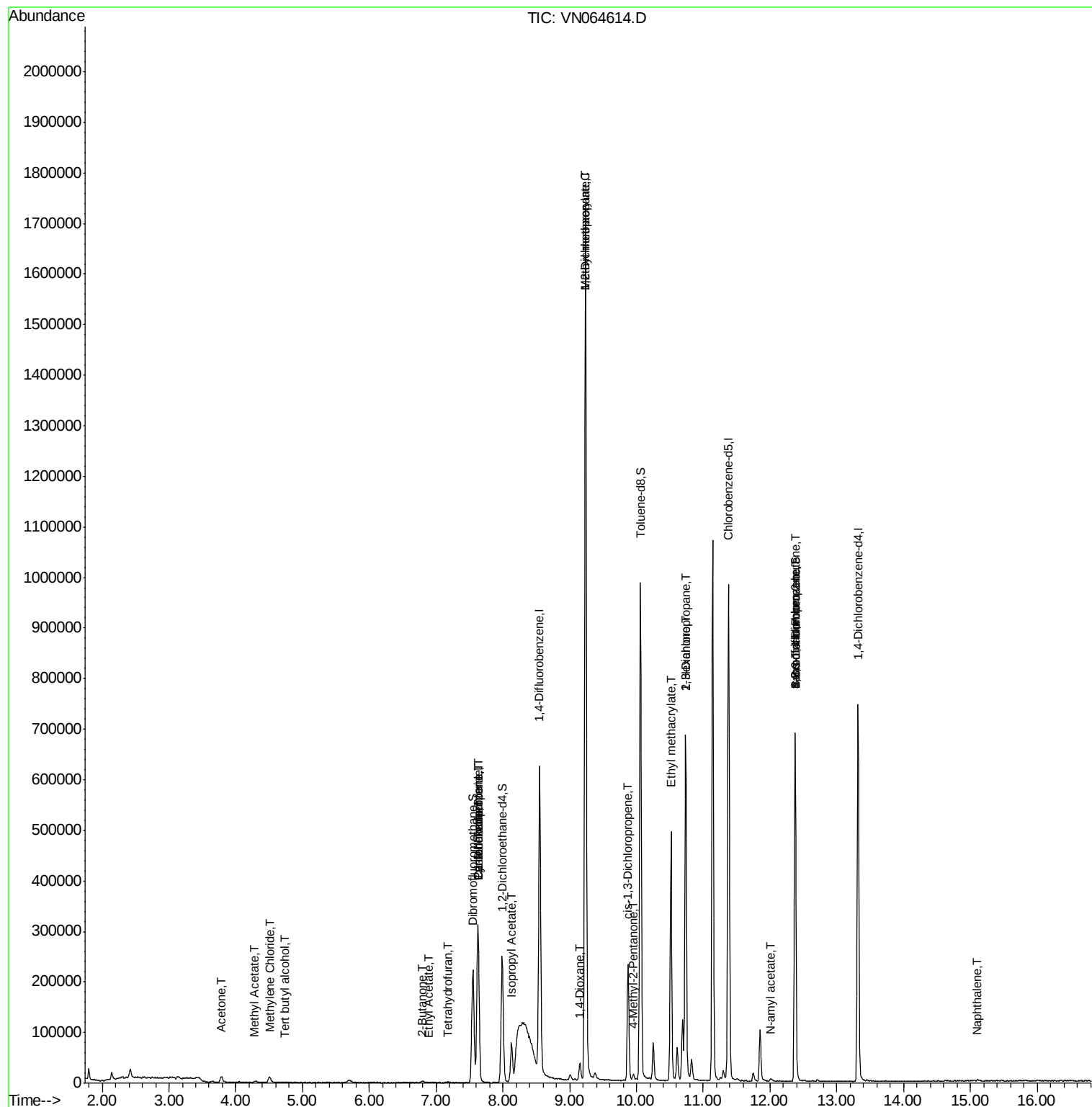
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	105	0.251	ug/l #	71
16) Acetone	3.78	43	17821	12.317	ug/l	93
18) Methyl Acetate	4.28	43	2526	0.888	ug/l #	86
20) Methylene Chloride	4.50	84	3521	1.227	ug/l	94
25) 2-Butanone	6.78	43	728	0.395	ug/l #	52
29) Tetrahydrofuran	7.18	42	318	0.281	ug/l #	41
31) Cyclohexane	7.62	56	6303	1.365	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	21874	4.156	ug/l #	51
37) Ethyl Acetate	6.88	43	69	0.775	ug/l #	71
38) Carbon Tetrachloride	7.62	117	26623	4.733	ug/l #	17
43) Isopropyl Acetate	8.13	43	94666	11.100	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1841	0.446	ug/l #	45
48) Methyl methacrylate	9.24	41	174501	40.548	ug/l #	49
49) 1,4-Dioxane	9.15	88	29	0.512	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	10091	2.029	ug/l #	88
54) cis-1,3-Dichloropropene	9.87	75	35030	5.291	ug/l #	73
56) Ethyl methacrylate	10.51	69	3604	2.415	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	7027	1.094	ug/l #	43
59) 2-Hexanone	10.74	43	103685	29.181	ug/l #	56
71) Bromoform	12.37	173	1128	1.613	ug/l #	1
74) N-amyl acetate	12.01	43	4129	1.770	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	131020	28.759	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	131020	80.299	ug/l #	8
95) Naphthalene	15.11	128	3724	3.958	ug/l #	89

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

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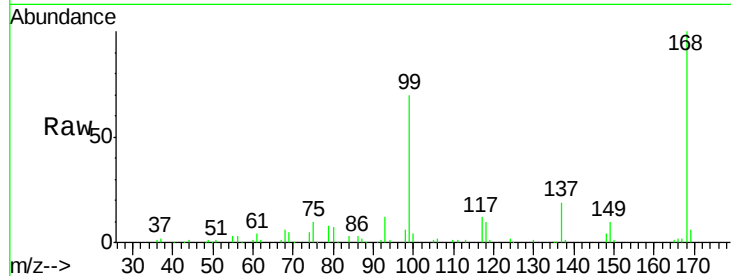




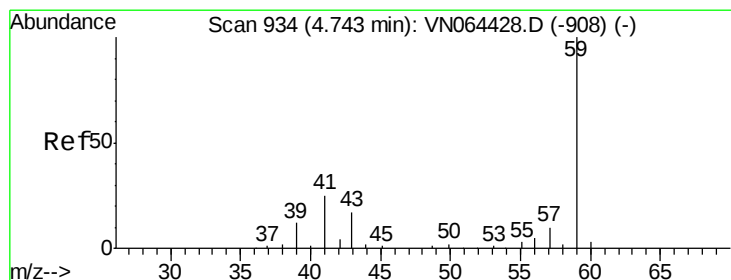
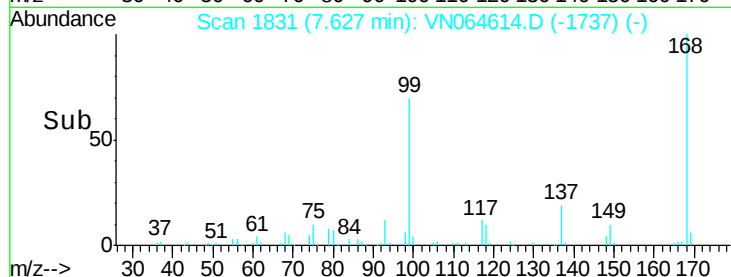
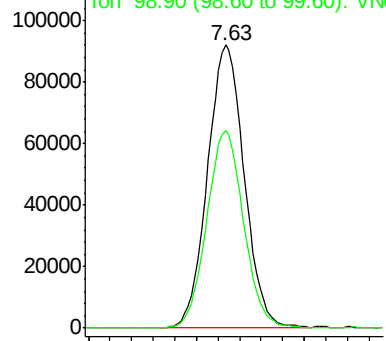
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Instrument :
MSVOA_N
ClientSampleId :
PAV-B12-110220-0-1

Tot Ion:168 Resp: 218062
Ion Ratio Lower Upper
168 100
99 69.8 53.4 80.2

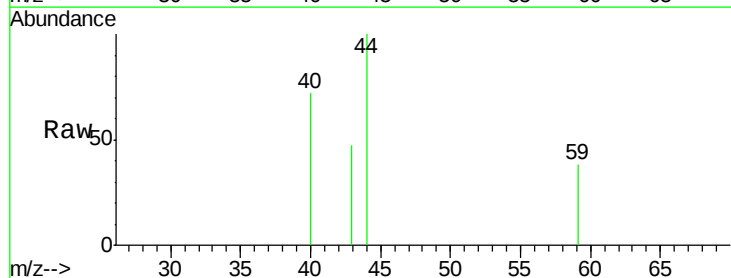


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN

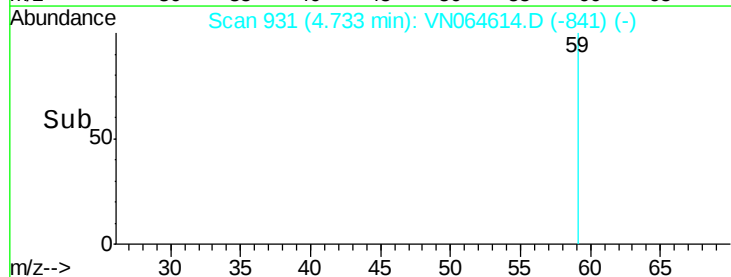
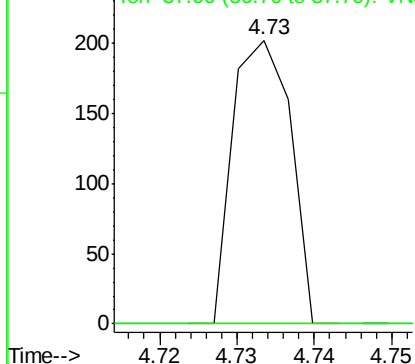


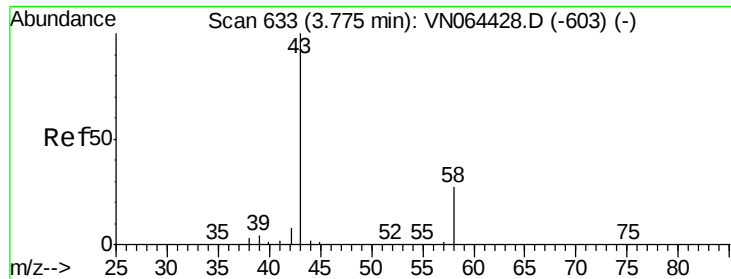
#11
Tert butyl alcohol
Concen: 0.251 ug/l
RT: 4.73 min Scan# 931
Delta R.T. -0.01 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Tgt Ion: 59 Resp: 105
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN
Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 12.317 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

Instrument :

MSVOA_N

ClientSampleId :

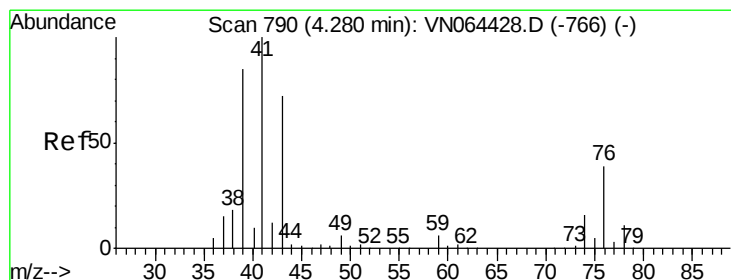
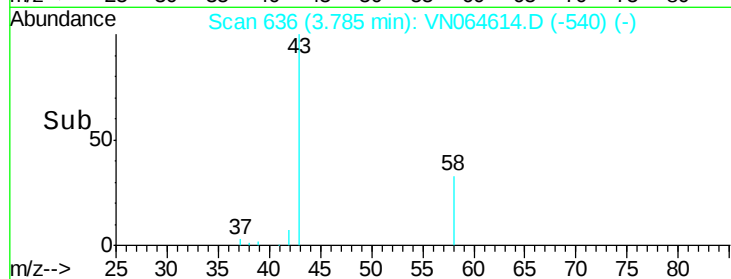
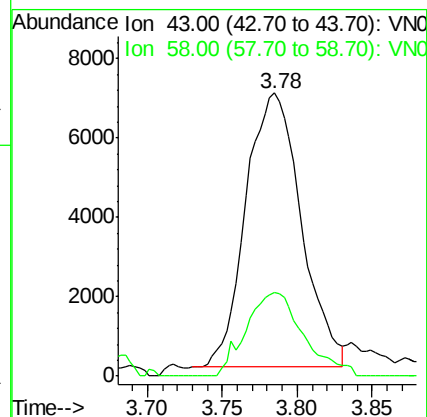
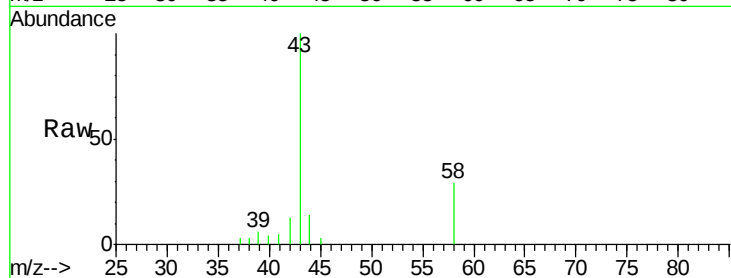
PAV-B12-110220-0-1

Tot Ion: 43 Resp: 17821

Ion Ratio Lower Upper

43 100

58 30.4 21.4 32.0



#18

Methyl Acetate

Concen: 0.888 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN064614.D

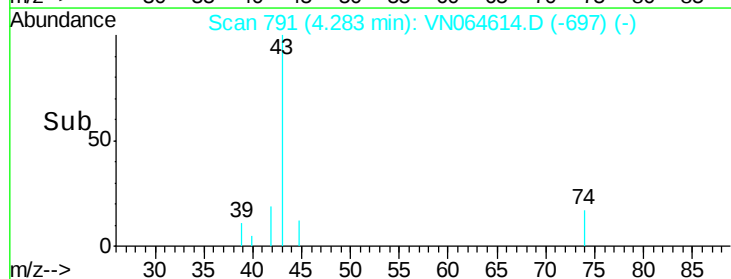
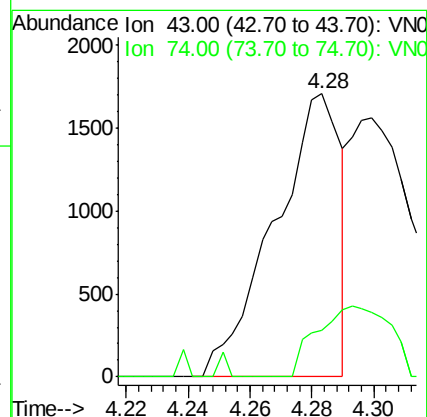
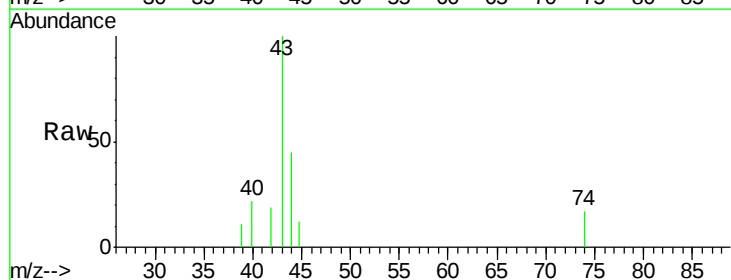
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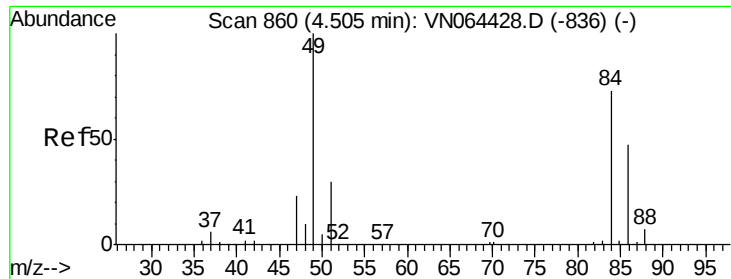
Tgt Ion: 43 Resp: 2526

Ion Ratio Lower Upper

43 100

74 27.7 17.0 25.4#

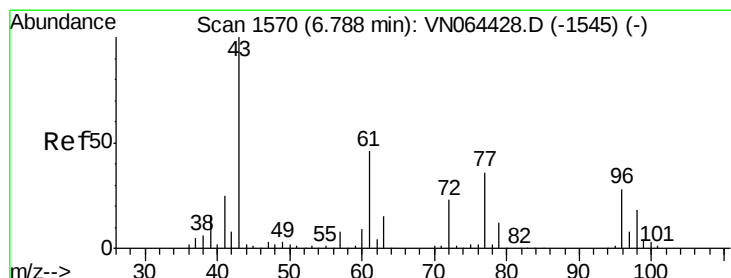
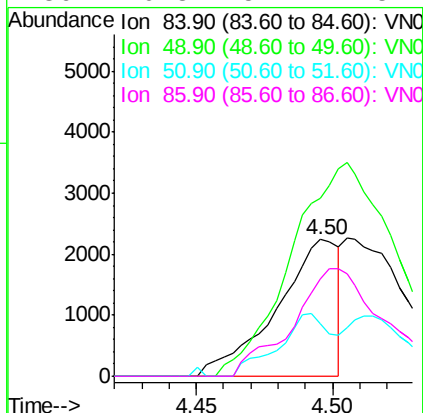
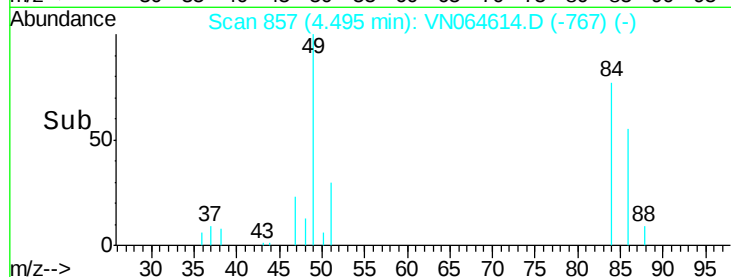
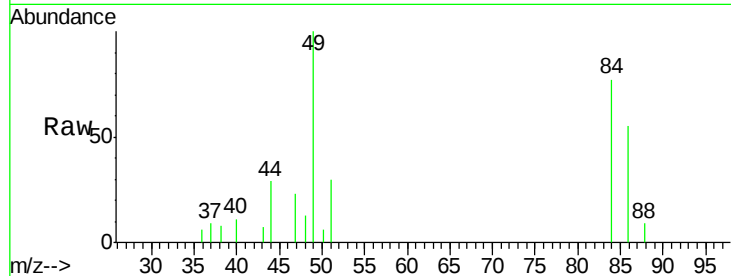




#20
Methvlene Chloride
Concen: 1.227 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

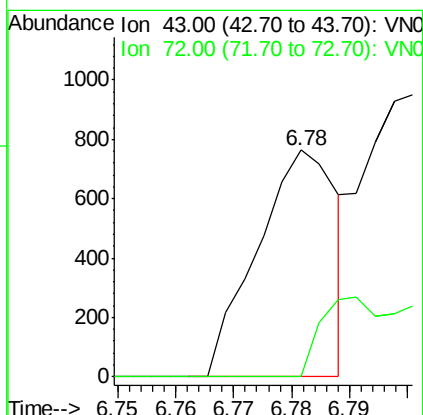
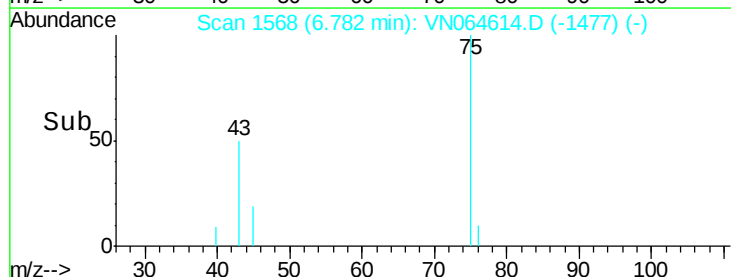
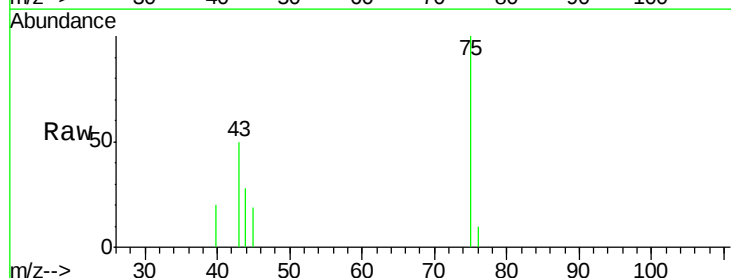
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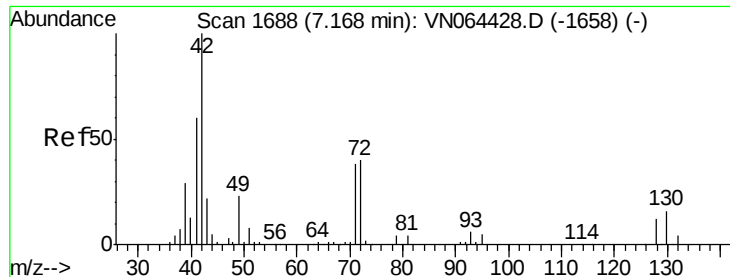
Tot Ion:	84	Resp:	3521
Ion	Ratio	Lower	Upper
84	100		
49	129.8	110.1	165.1
51	38.6	33.6	50.4
86	70.8	52.1	78.1



#25
2-Butanone
Concen: 0.395 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. -0.01 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Tgt Ion:	43	Resp:	728
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.5	27.7#

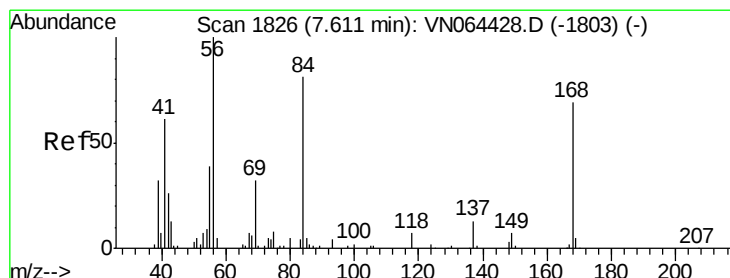
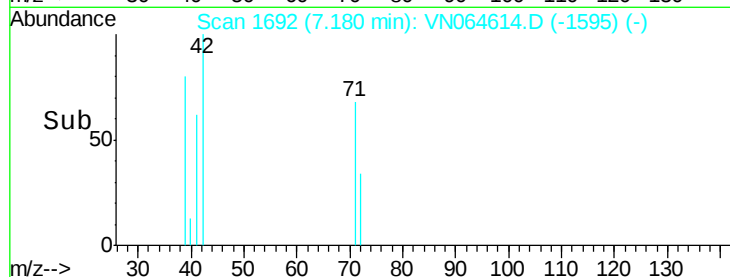
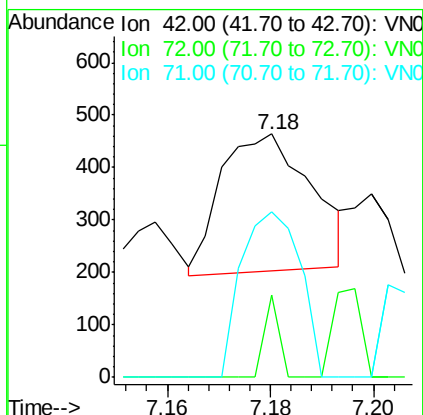
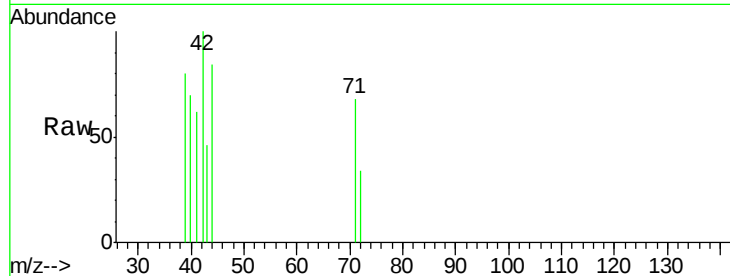




#29
Tetrahydrofuran
Concen: 0.281 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

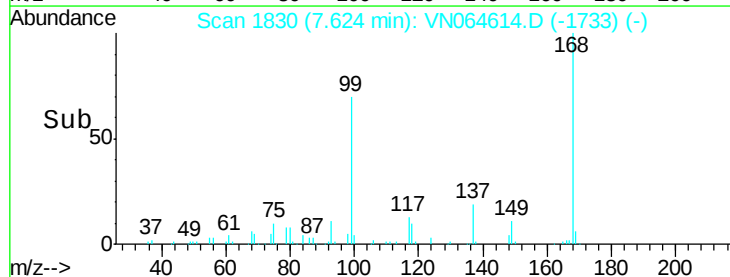
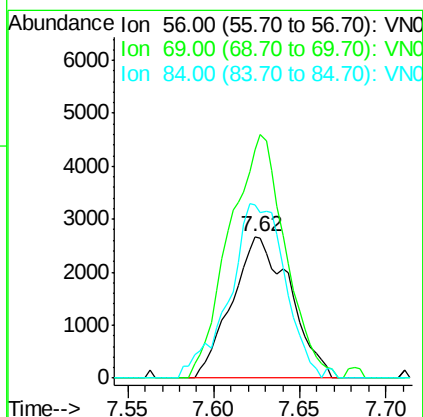
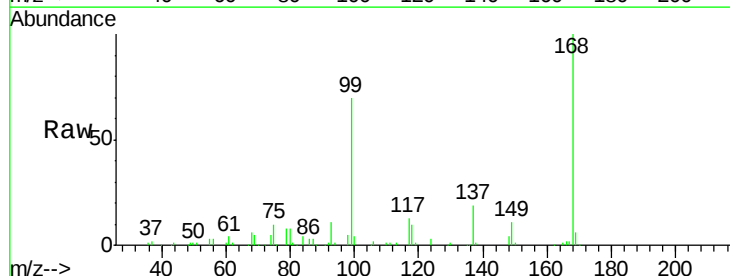
Instrument :
MSVOA_N
ClientSampleId :
PAV-B12-110220-0-1

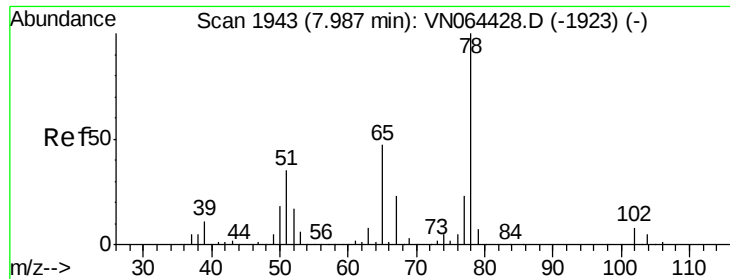
Tot Ion: 42 Resp: 318
Ion Ratio Lower Upper
42 100
72 9.4 31.7 47.5#
71 78.3 29.8 44.6#



#31
Cyclohexane
Concen: 1.365 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Tgt Ion: 56 Resp: 6303
Ion Ratio Lower Upper
56 100
69 161.2 25.6 38.4#
84 122.5 63.0 94.6#





#33

1,2-Dichloroethane-d4

Concen: 60.187 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

Instrument :

MSVOA_N

ClientSampleId :

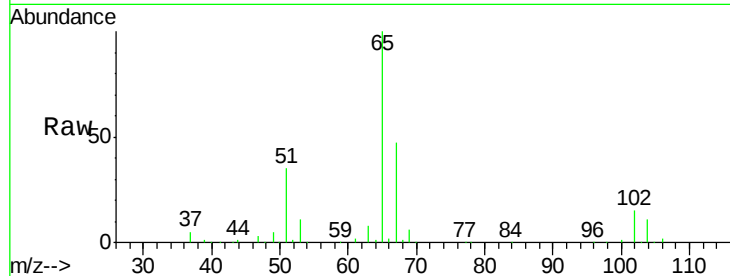
PAV-B12-110220-0-1

Tot Ion: 65 Resp: 228610

Ion Ratio Lower Upper

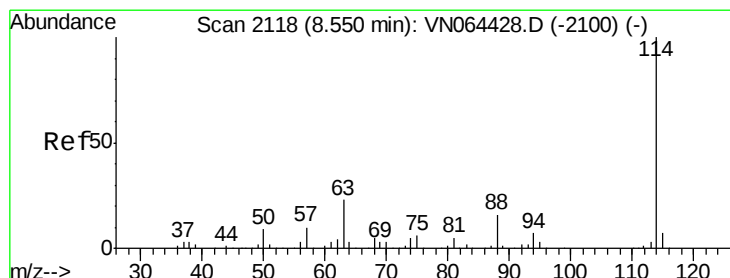
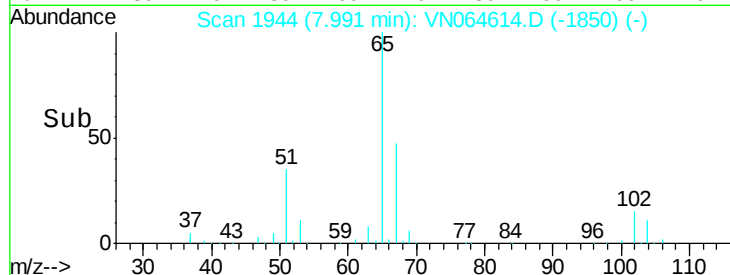
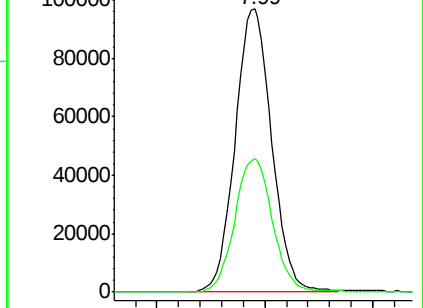
65 100

67 48.9 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN064428.D (-1923) (-)

Ion 66.90 (66.60 to 67.60): VN064428.D (-1923) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

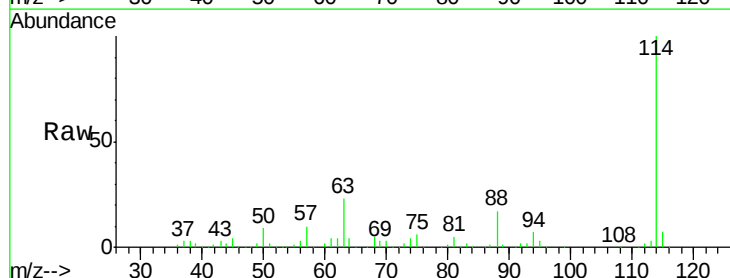
Tgt Ion: 114 Resp: 498160

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

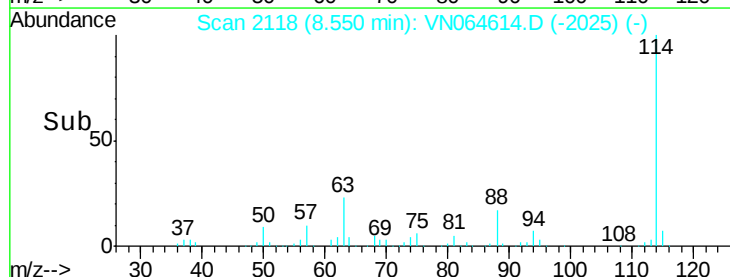
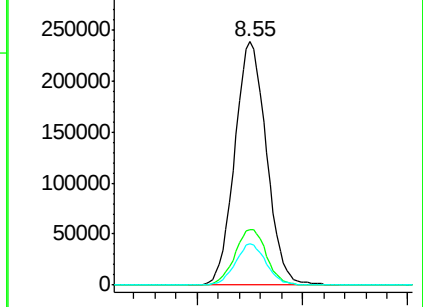
88 16.9 0.0 32.8

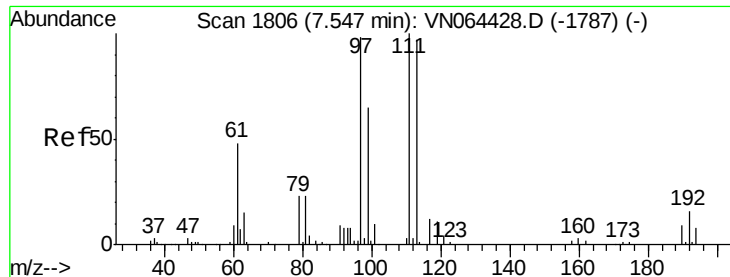


Abundance Ion 113.90 (113.60 to 114.60): VN064428.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN064428.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN064428.D (-2100) (-)

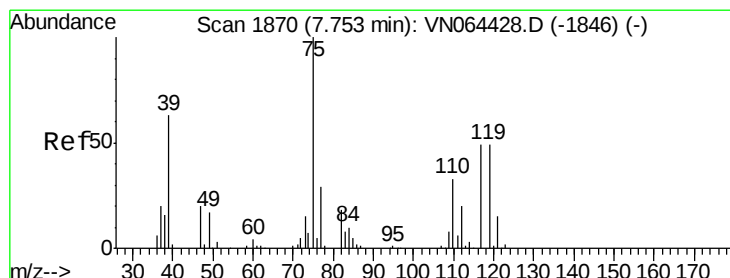
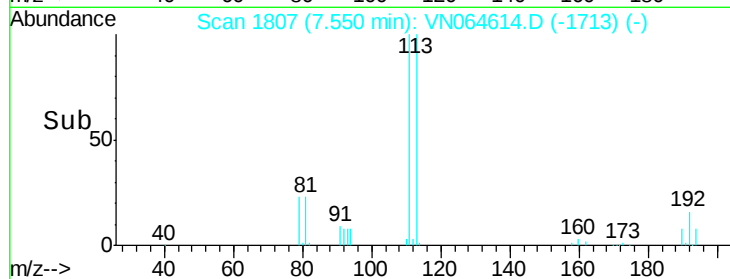
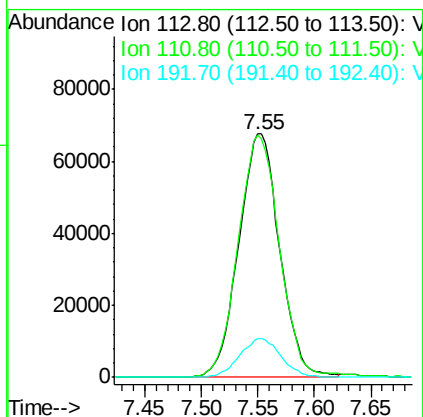
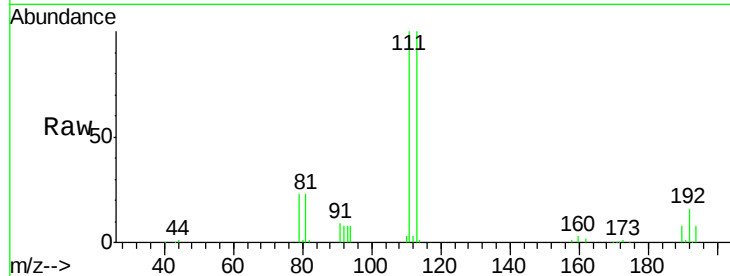




#35
 Dibromofluoromethane
 Concen: 50.029 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064614.D
 Acq: 13 Nov 2020 5:46

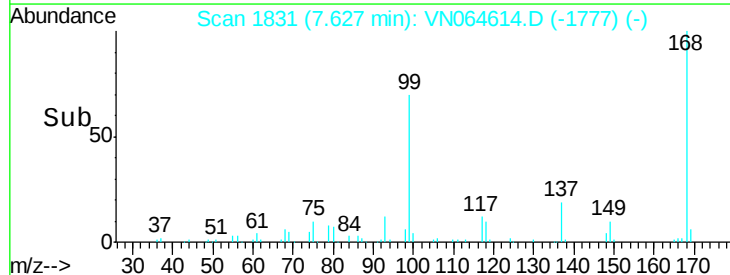
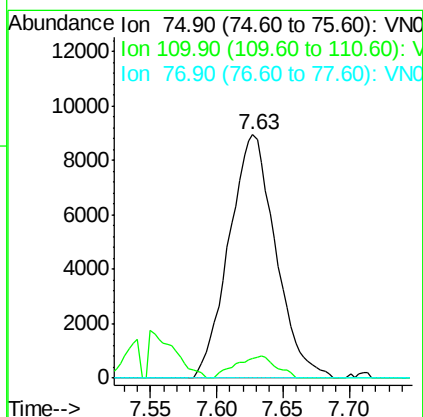
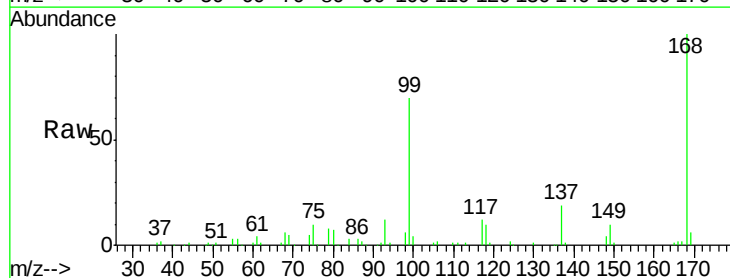
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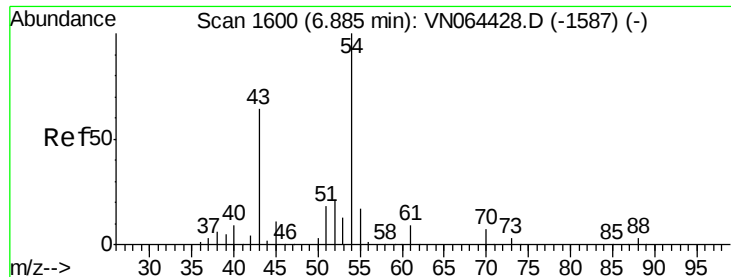
Tot Ion:113 Resp: 169687
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.1 121.7
 192 16.2 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.156 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064614.D
 Acq: 13 Nov 2020 5:46

Tgt Ion: 75 Resp: 21874
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.0 48.0#
 77 0.0 24.0 36.0#

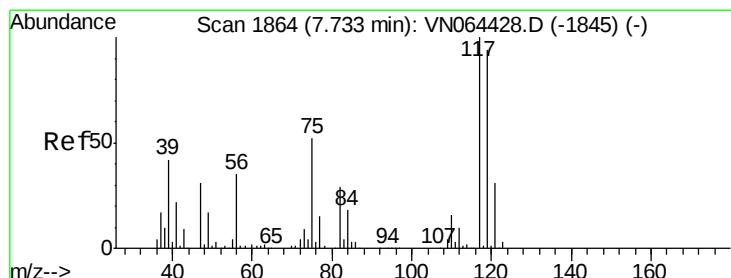
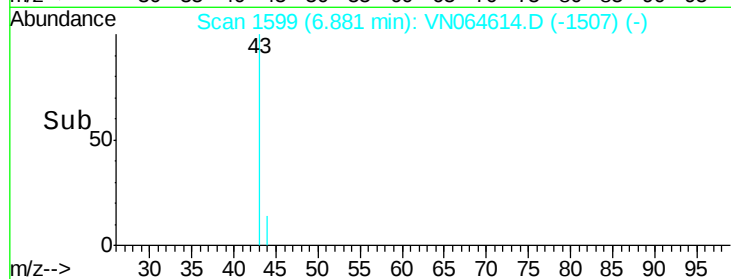
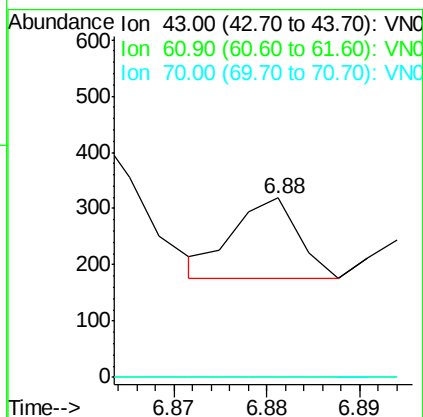
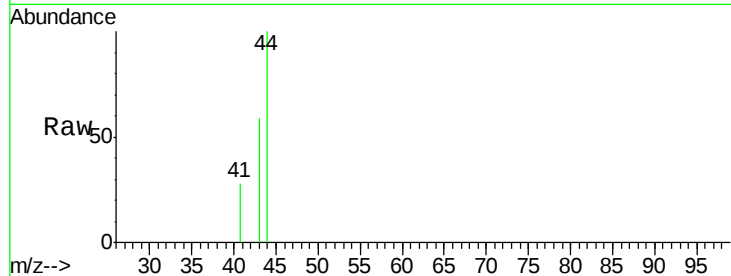




#37
Ethyl Acetate
Concen: 0.775 ug/l
RT: 6.88 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

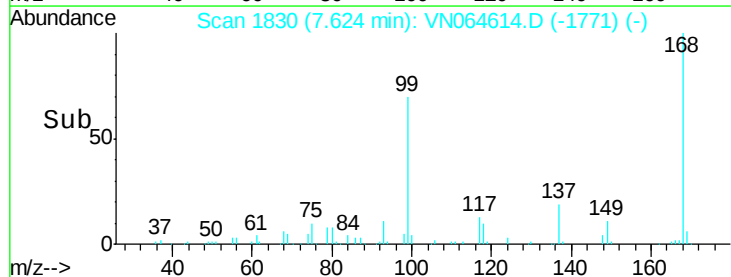
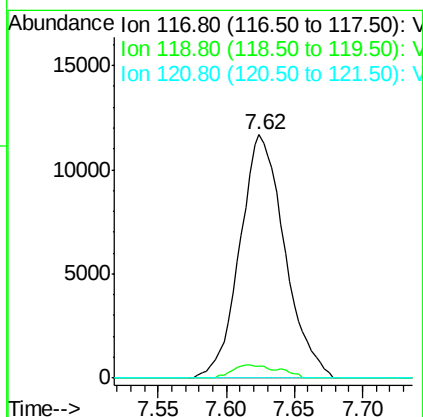
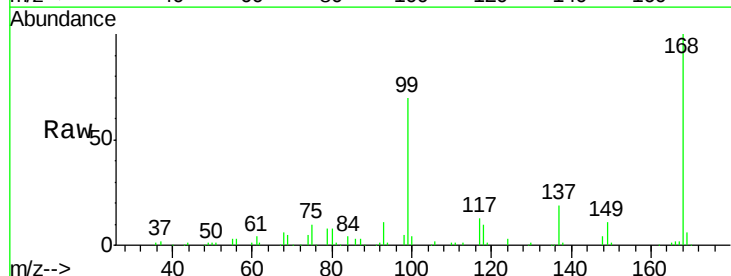
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ClientSampleId :
PAV-B12-110220-0-1

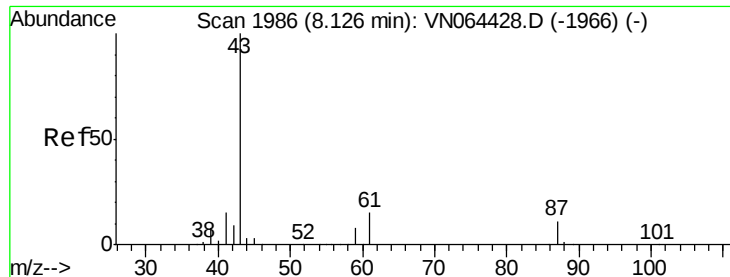
Tot Ion: 43 Resp: 69
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.733 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Tgt Ion: 117 Resp: 26623
Ion Ratio Lower Upper
117 100
119 5.1 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 11.100 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

Instrument :

MSVOA_N

ClientSampleId :

PAV-B12-110220-0-1

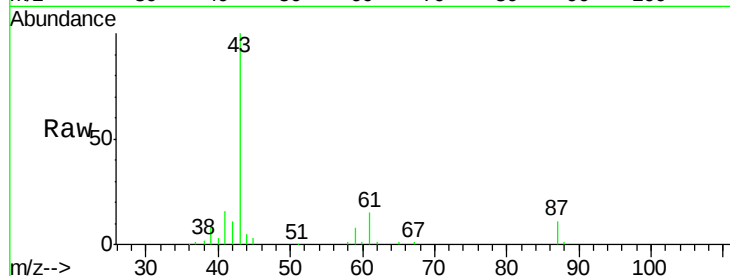
Tot Ion: 43 Resp: 94666

Ion Ratio Lower Upper

43 100

61 16.4 14.0 21.0

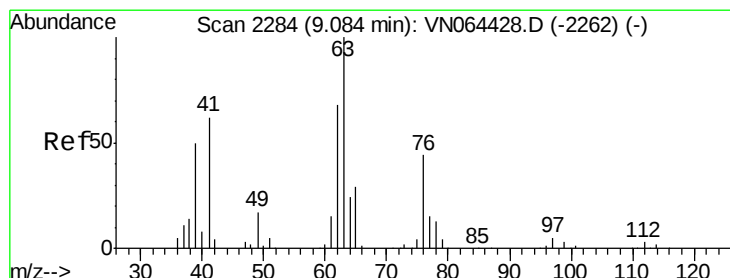
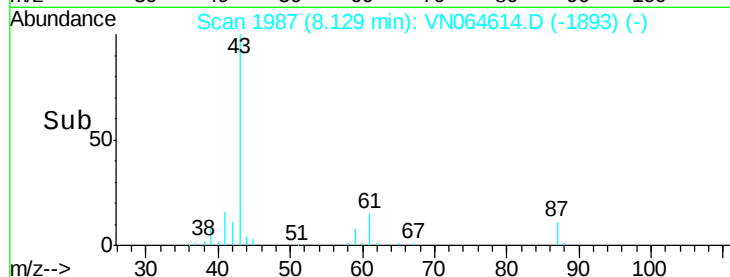
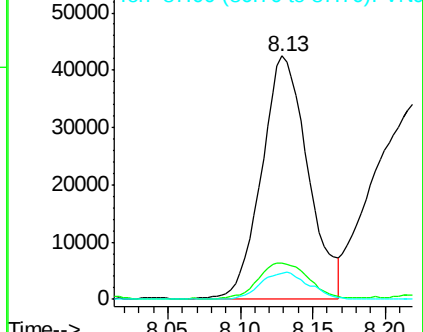
87 11.4 9.1 13.7



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: 0.446 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN064614.D

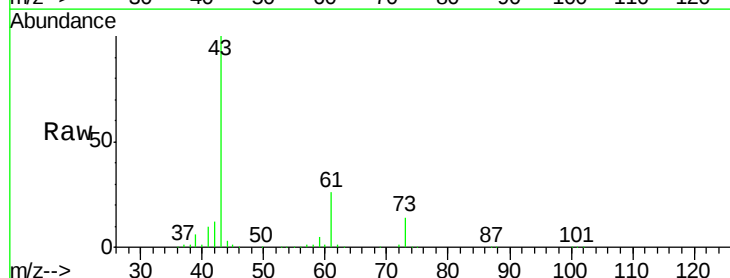
Acq: 13 Nov 2020 5:46

Tgt Ion: 63 Resp: 1841

Ion Ratio Lower Upper

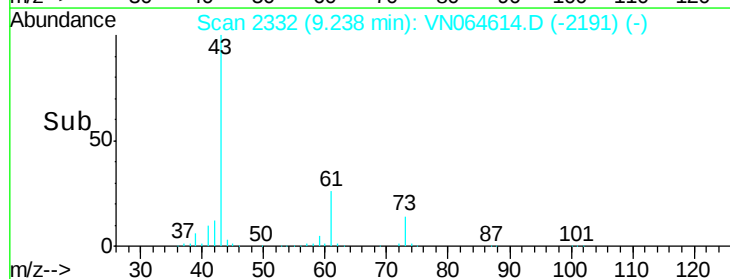
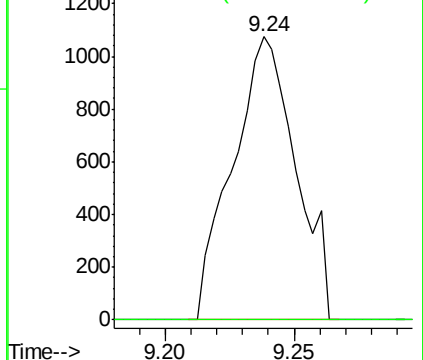
63 100

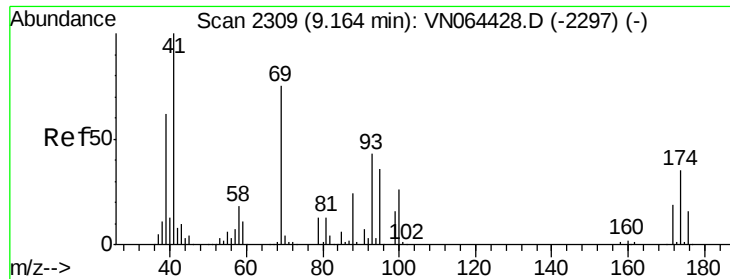
65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

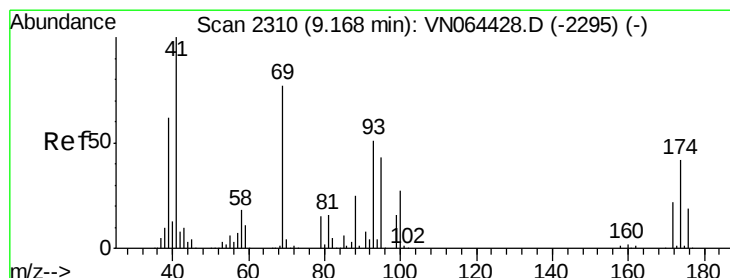
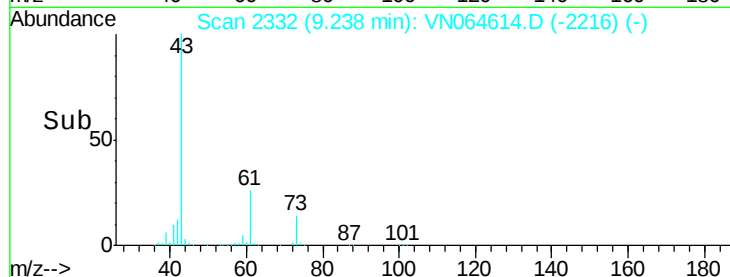
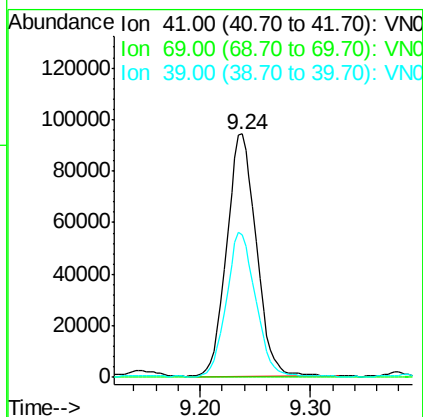
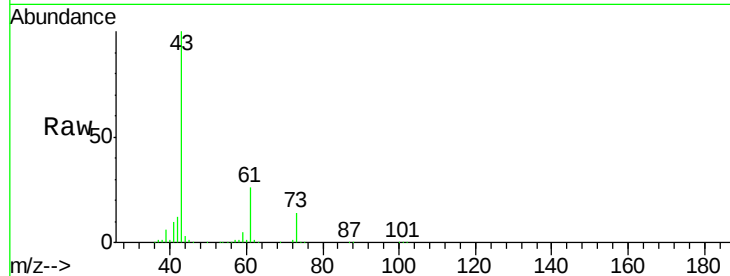




#48
Methyl methacrylate
Concen: 40.548 ug/l
RT: 9.24 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

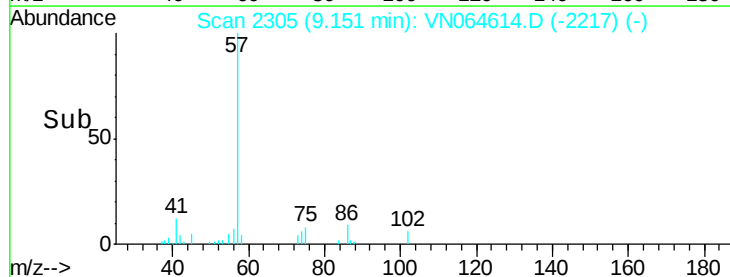
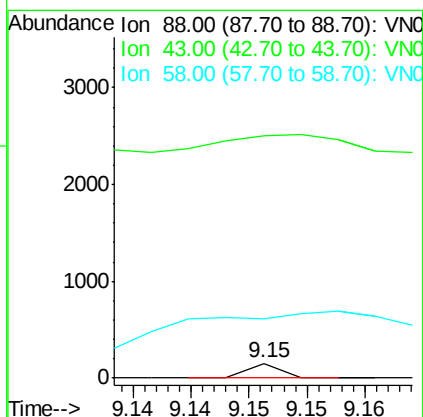
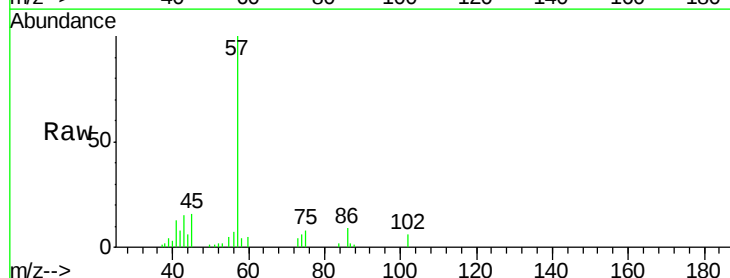
Instrument :
MSVOA_N
ClientSampleId :
PAV-B12-110220-0-1

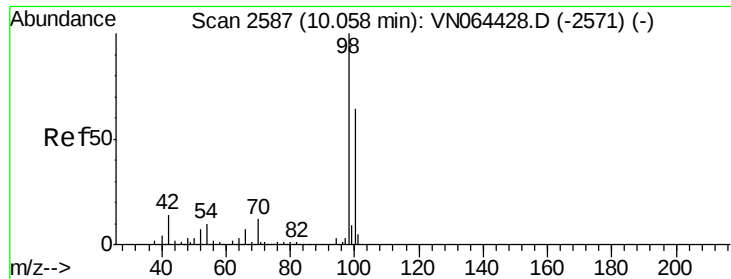
Tot Ion: 41 Resp: 174501
Ion Ratio Lower Upper
41 100
69 0.2 60.4 90.6#
39 58.9 51.2 76.8



#49
1,4-Dioxane
Concen: 0.512 ug/l
RT: 9.15 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 31.0 46.6#
58 4913.8 58.4 87.6#





#50

Toluene-d8

Concen: 49.036 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

Instrument :

MSVOA_N

ClientSampleId :

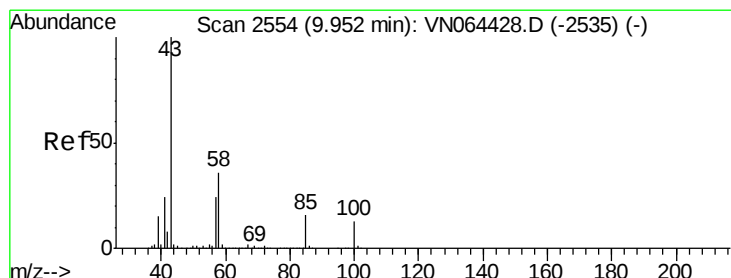
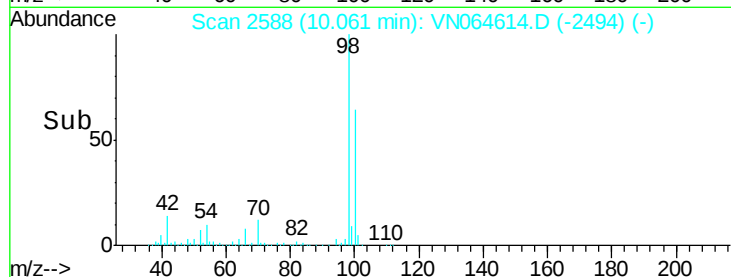
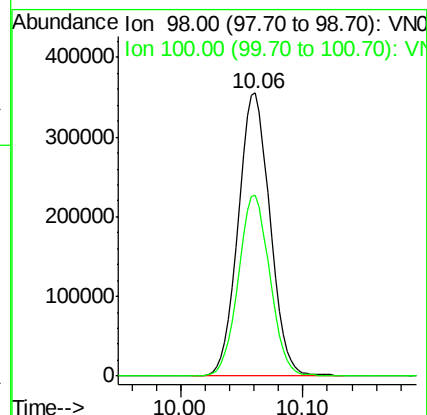
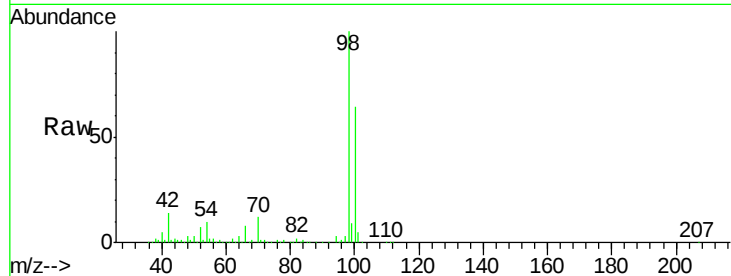
PAV-B12-110220-0-1

Tot Ion: 98 Resp: 642827

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.029 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064614.D

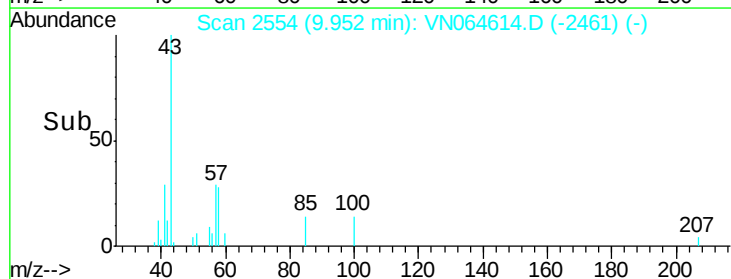
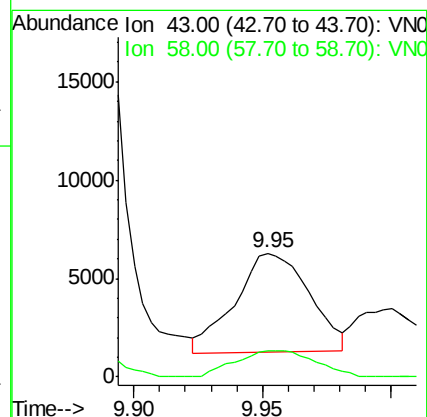
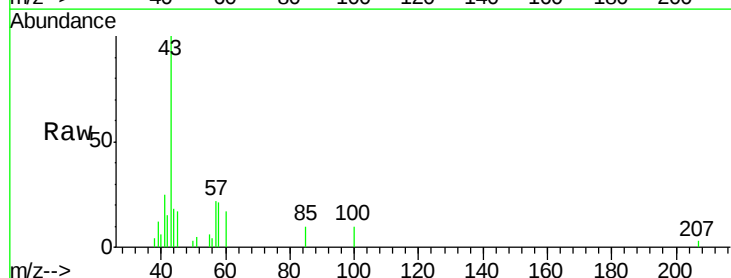
Acq: 13 Nov 2020 5:46

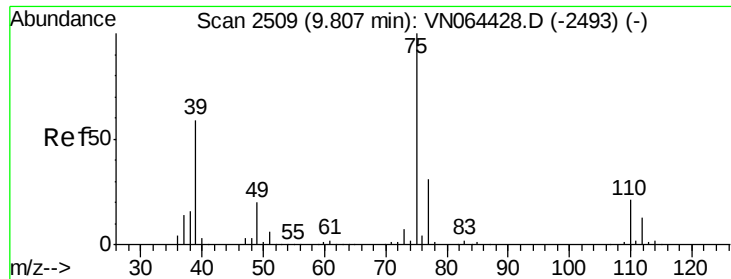
Tgt Ion: 43 Resp: 10091

Ion Ratio Lower Upper

43 100

58 28.4 28.4 42.6#



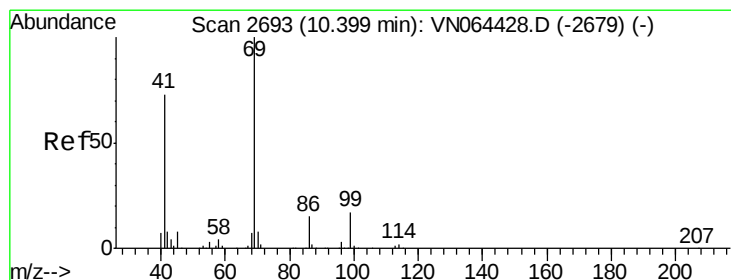
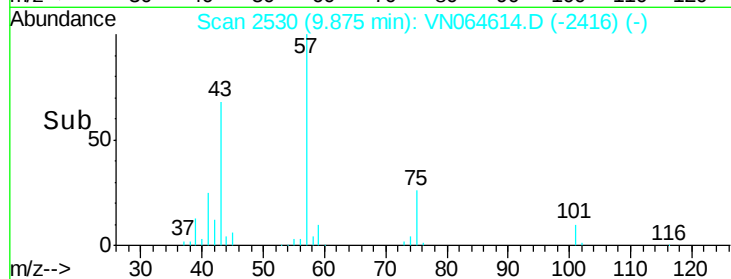
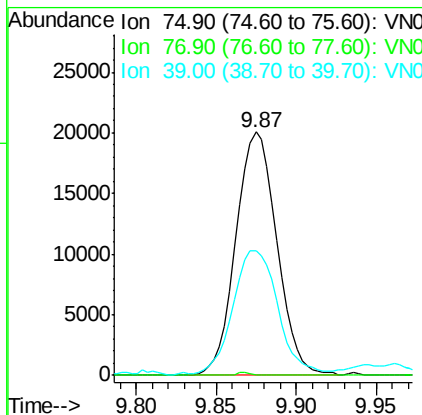
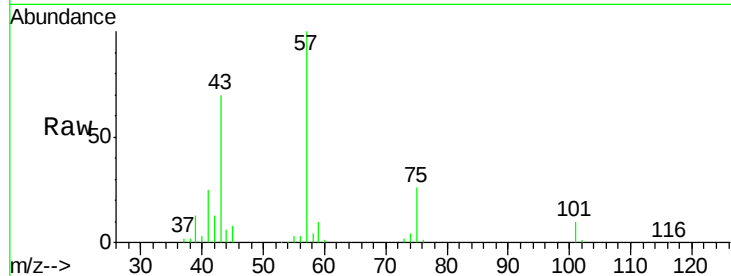


#54

cis-1,3-Dichloropropene
 Concen: 5.291 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064614.D
 Acq: 13 Nov 2020 5:46

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B12-110220-0-1

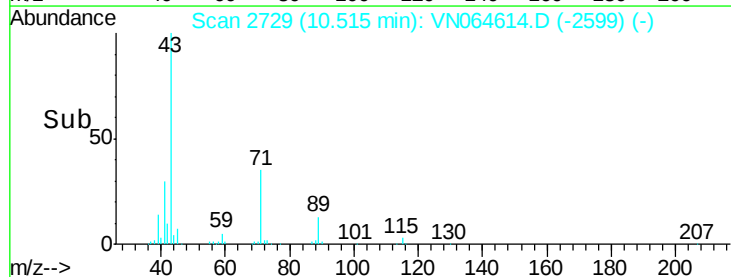
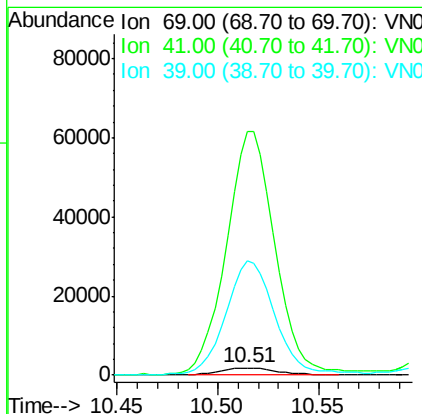
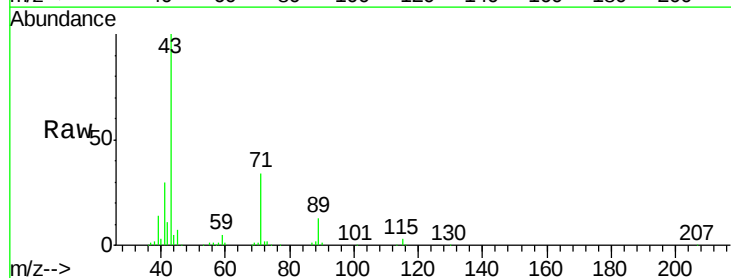
Tot Ion: 75 Resp: 35030
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 50.3 47.1 70.7

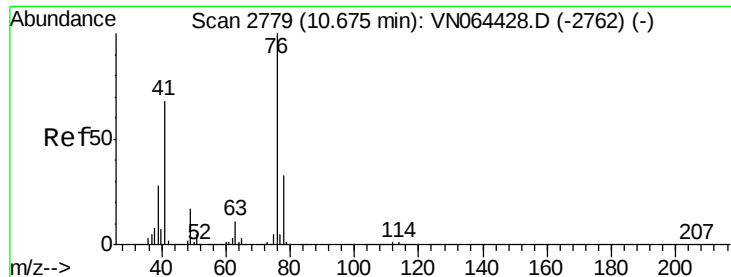


#56

Ethyl methacrylate
 Concen: 2.415 ug/l
 RT: 10.51 min Scan# 2729
 Delta R.T. 0.12 min
 Lab File: VN064614.D
 Acq: 13 Nov 2020 5:46

Tgt Ion: 69 Resp: 3604
 Ion Ratio Lower Upper
 69 100
 41 2862.2 59.3 88.9#
 39 1384.3 35.4 53.0#

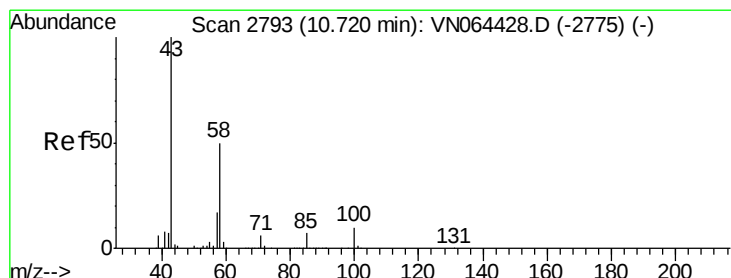
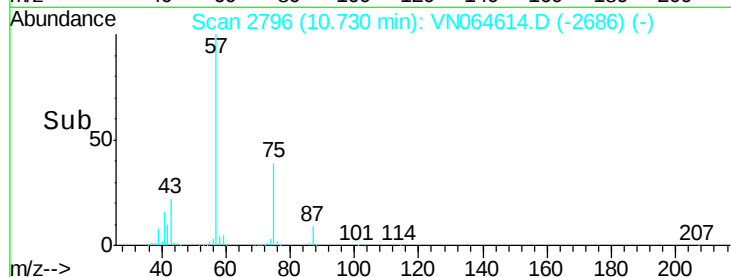
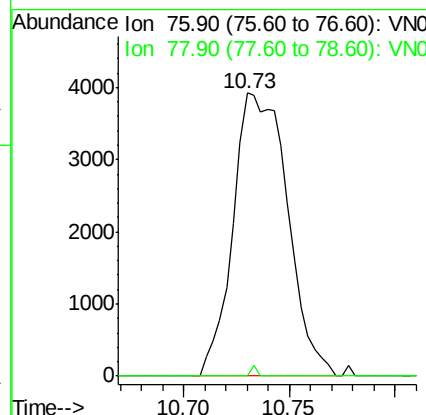
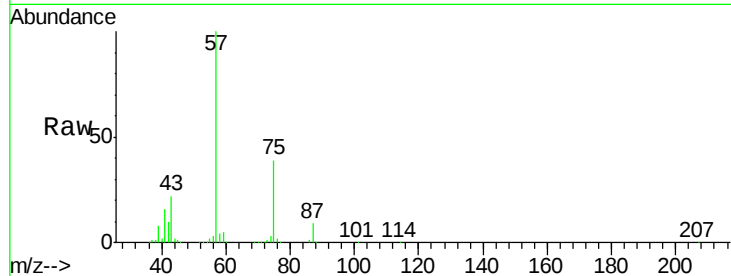




#57
 1,3-Dichloropropane
 Concen: 1.094 ug/l
 RT: 10.73 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN064614.D
 Acq: 13 Nov 2020 5:46

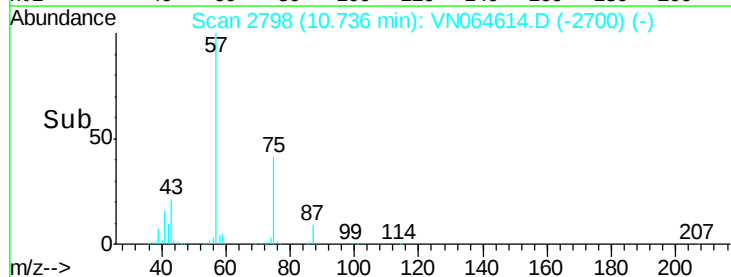
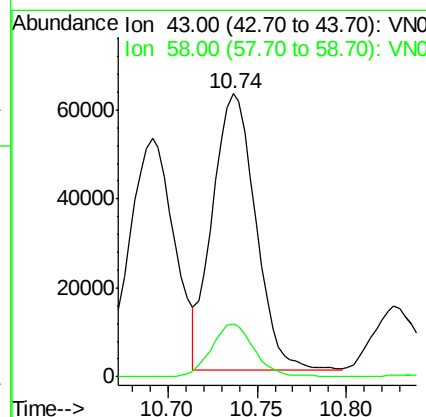
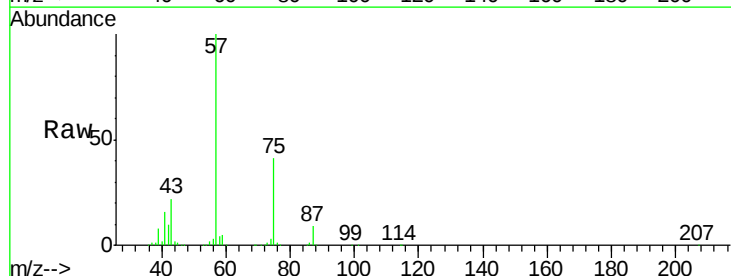
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B12-110220-0-1

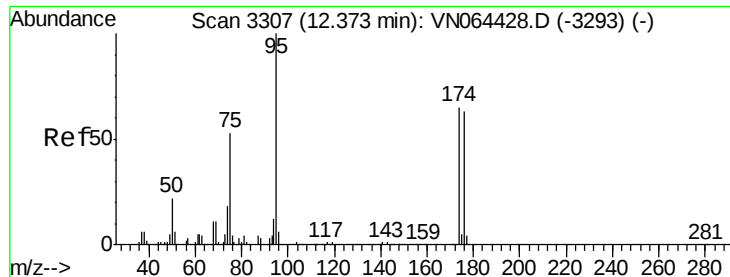
Tot Ion: 76 Resp: 7027
 Ion Ratio Lower Upper
 76 100
 78 0.4 25.8 38.6#



#59
 2-Hexanone
 Concen: 29.181 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064614.D
 Acq: 13 Nov 2020 5:46

Tgt Ion: 43 Resp: 103685
 Ion Ratio Lower Upper
 43 100
 58 19.2 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 47.791 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

Instrument :

MSVOA_N

ClientSampleId :

PAV-B12-110220-0-1

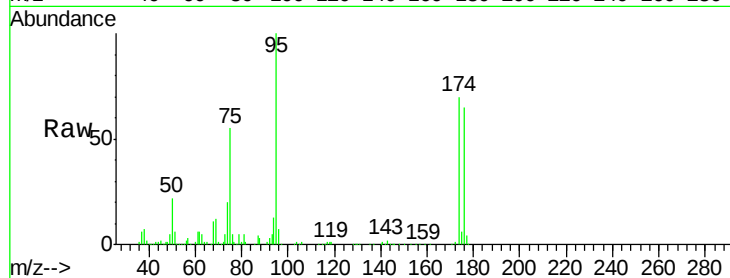
Tot Ion: 95 Resp: 236937

Ion Ratio Lower Upper

95 100

174 70.4 0.0 132.6

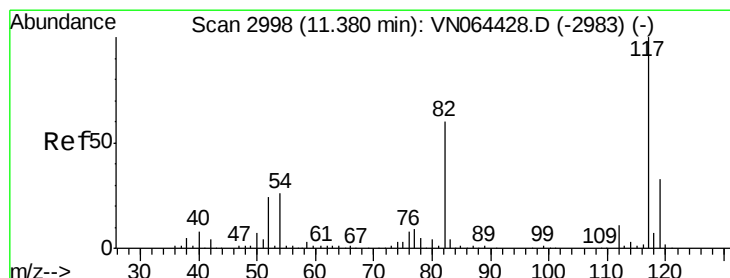
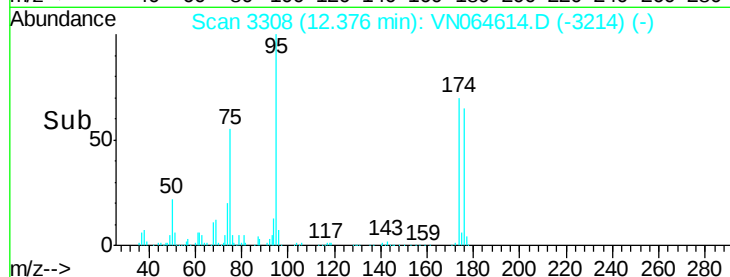
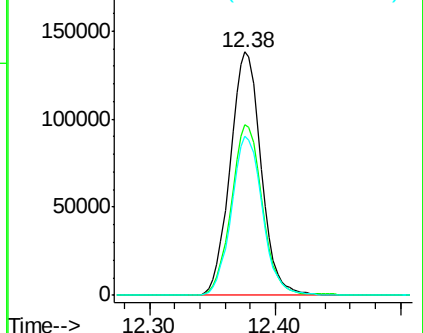
176 65.5 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064428.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064428.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

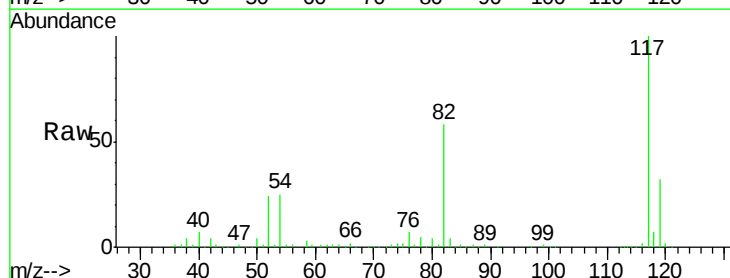
Tgt Ion: 117 Resp: 529139

Ion Ratio Lower Upper

117 100

82 57.9 48.1 72.1

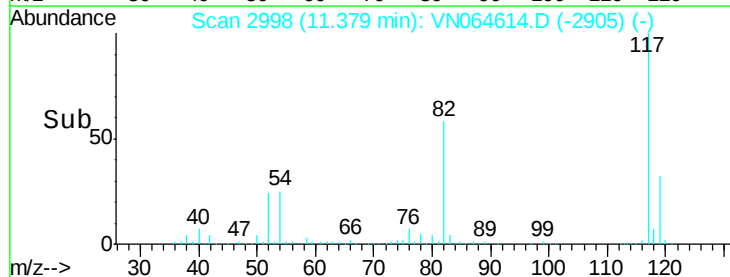
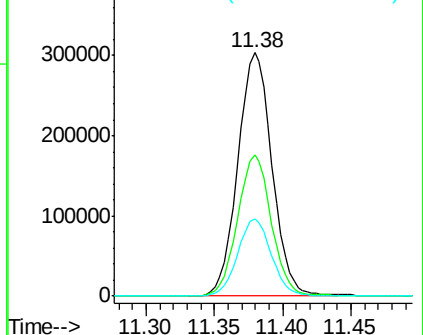
119 32.0 26.2 39.4

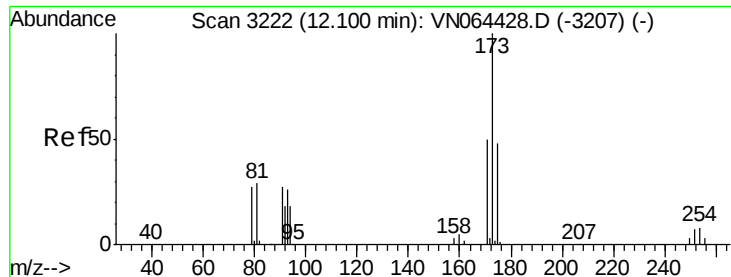


Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064428.D (-2983) (-)





#71

Bromoform

Concen: 1.613 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

Instrument :

MSVOA_N

ClientSampleId :

PAV-B12-110220-0-1

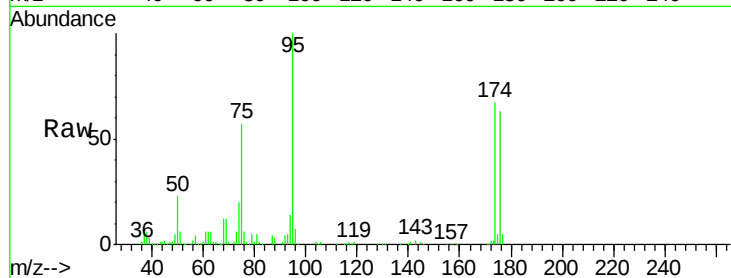
Tot Ion:173 Resp: 1128

Ion Ratio Lower Upper

173 100

175 971.2 23.7 71.1#

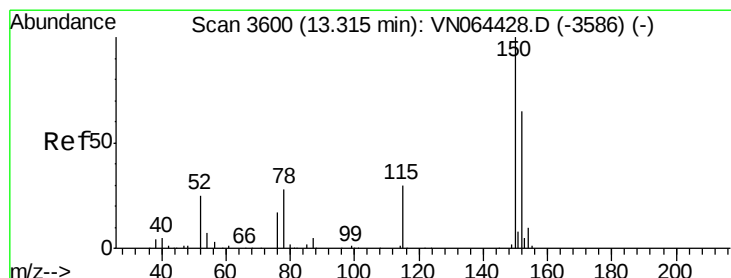
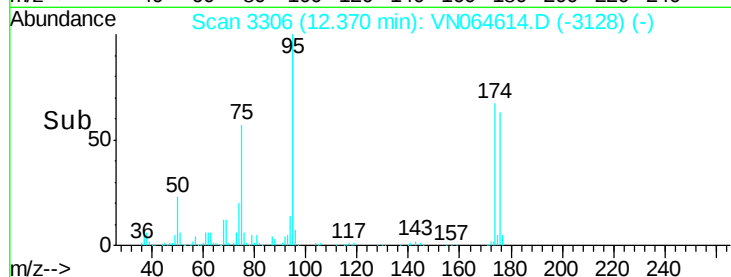
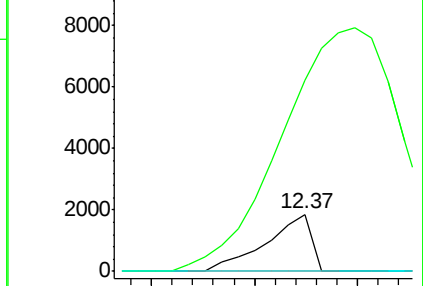
254 0.0 0.0 0.0



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: VN064614.D

Acq: 13 Nov 2020 5:46

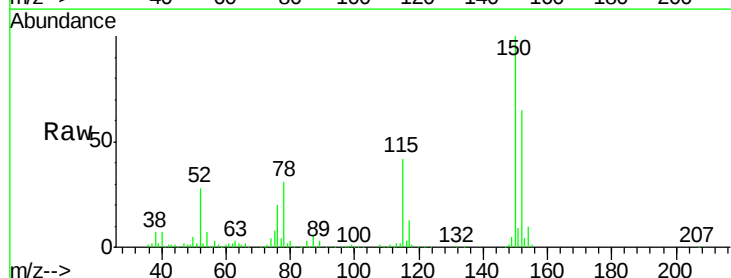
Tgt Ion:152 Resp: 188029

Ion Ratio Lower Upper

152 100

115 63.9 32.0 96.0

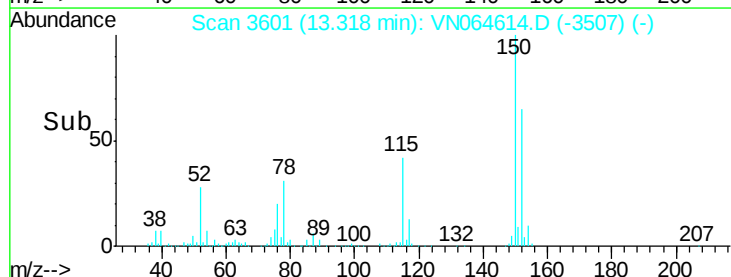
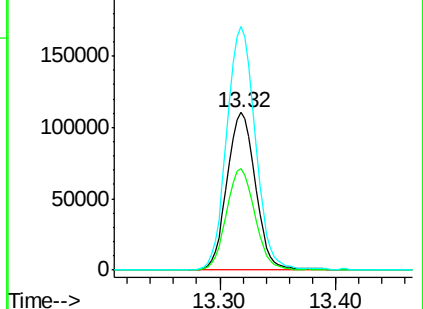
150 154.4 0.0 353.8

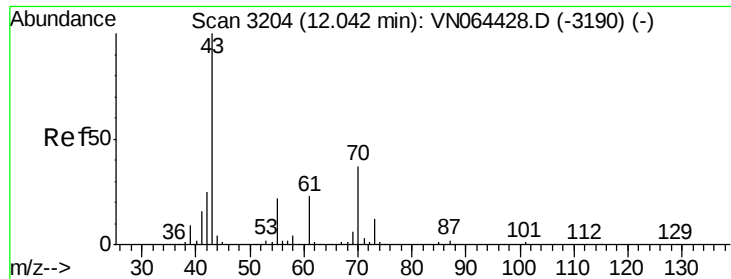


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.770 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN064614.D

Acq: 13 Nov 2020 5:46

Instrument :

MSVOA_N

ClientSampleId :

PAV-B12-110220-0-1

Tot Ion: 43 Resp: 4129

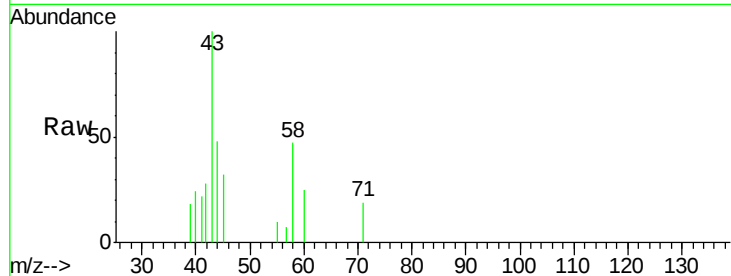
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 4.4 18.4 27.6#

61 0.0 17.8 26.6#

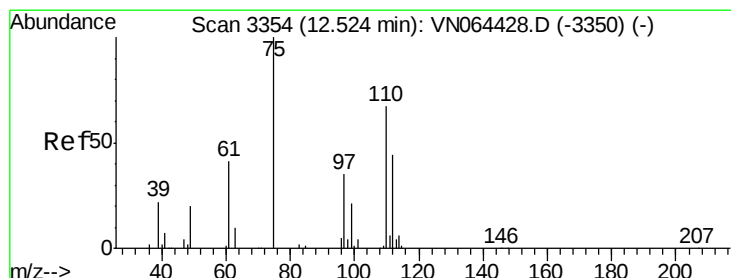
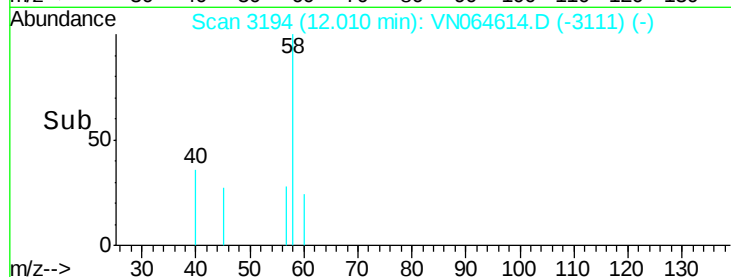
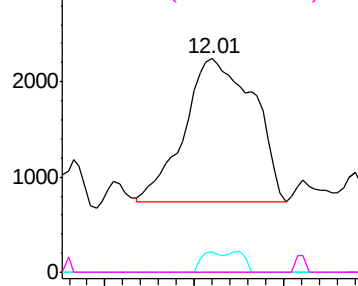


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.759 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064614.D

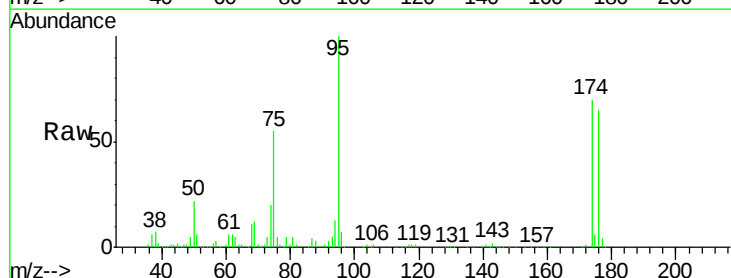
Acq: 13 Nov 2020 5:46

Tgt Ion: 75 Resp: 131020

Ion Ratio Lower Upper

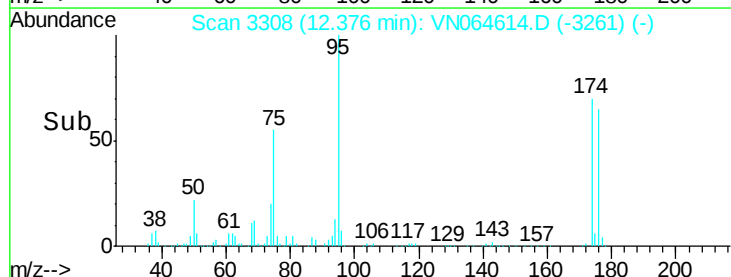
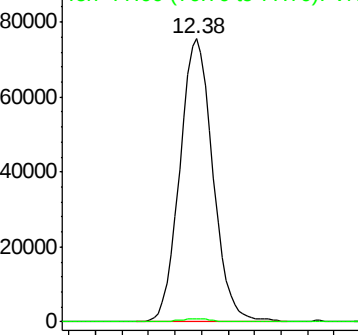
75 100

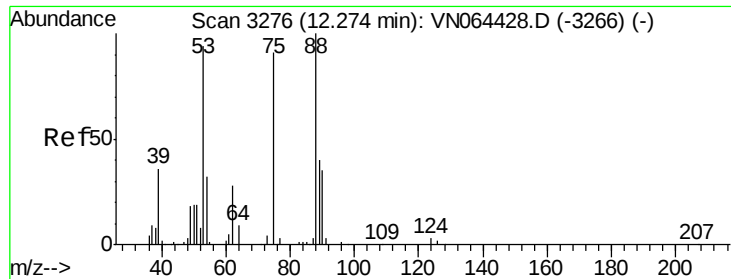
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

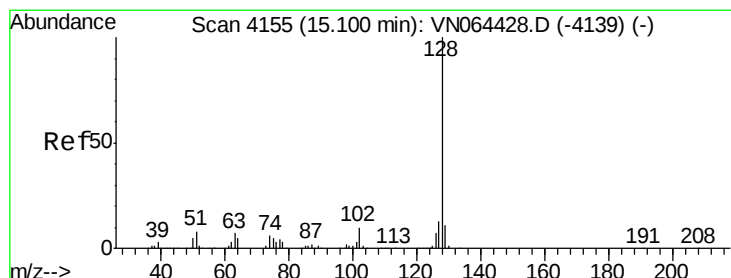
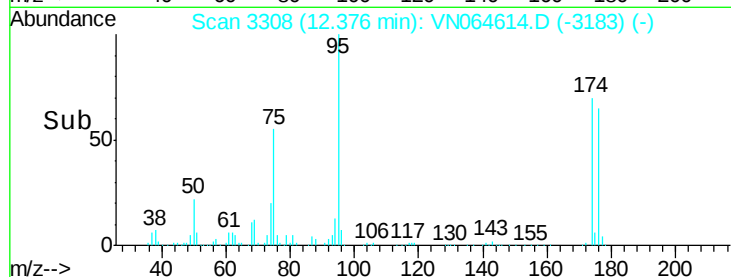
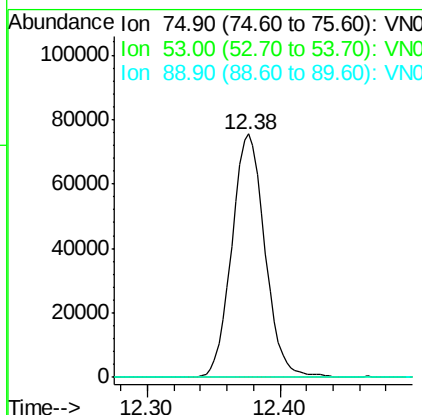
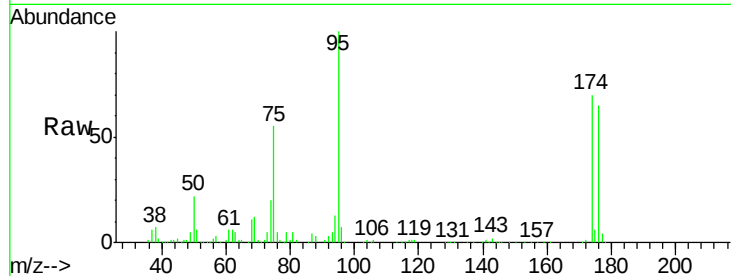




#81
trans-1,4-Dichloro-2-butene
Concen: 80.299 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Instrument :
MSVOA_N
ClientSampleId :
PAV-B12-110220-0-1

Tot Ion: 75 Resp: 131020
Ion Ratio Lower Upper
75 100
53 0.3 84.0 126.0#
89 0.0 36.3 54.5#



#95
Naphthalene
Concen: 3.958 ug/l
RT: 15.11 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN064614.D
Acq: 13 Nov 2020 5:46

Tgt Ion: 128 Resp: 3724
Ion Ratio Lower Upper
128 100
127 10.5 10.5 15.7
129 4.6 8.8 13.2#

