

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110620\
 Data File : VN064495.D
 Acq On : 6 Nov 2020 20:04
 Operator : JC/MD
 Sample : L4657-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B49-110520-0-1

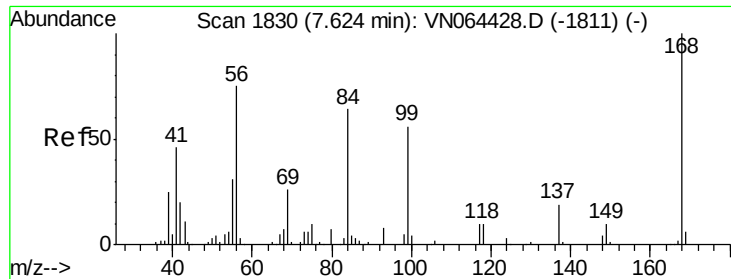
Quant Time: Nov 07 03:53:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	239462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	511438	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	548077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	195563	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	239532	57.43	ug/l	0.00
Spiked Amount			Recovery	=	114.86%	
35) Dibromofluoromethane	7.55	113	174601	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
50) Toluene-d8	10.06	98	669068	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.38	95	249764	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.56	56	62	0.217	ug/l #	1
16) Acetone	3.79	43	15980	10.058	ug/l #	88
18) Methyl Acetate	4.29	43	4799	1.536	ug/l	99
20) Methylene Chloride	4.51	84	14296	4.535	ug/l	94
25) 2-Butanone	6.78	43	686	0.339	ug/l #	52
29) Tetrahydrofuran	7.17	42	940	0.757	ug/l #	37
31) Cyclohexane	7.62	56	6481	1.278	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	23992	4.441	ug/l #	50
37) Ethyl Acetate	6.88	43	112	0.782	ug/l #	71
38) Carbon Tetrachloride	7.63	117	27563	4.773	ug/l #	19
43) Isopropyl Acetate	8.13	43	102573	11.715	ug/l	98
48) Methyl methacrylate	9.24	41	178382	40.373	ug/l #	49
51) 4-Methyl-2-Pentanone	9.96	43	9086	1.779	ug/l	94
54) cis-1,3-Dichloropropene	9.88	75	37299	5.488	ug/l #	67
56) Ethyl methacrylate	10.51	69	3116	2.324	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6112	0.927	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.87	63	61	21.557	ug/l #	51
59) 2-Hexanone	10.74	43	106806	29.266	ug/l #	55
71) Bromoform	12.37	173	992	1.562	ug/l #	1
74) N-amyl acetate	12.01	43	2844	1.582	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	143682	30.323	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	143682	84.666	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

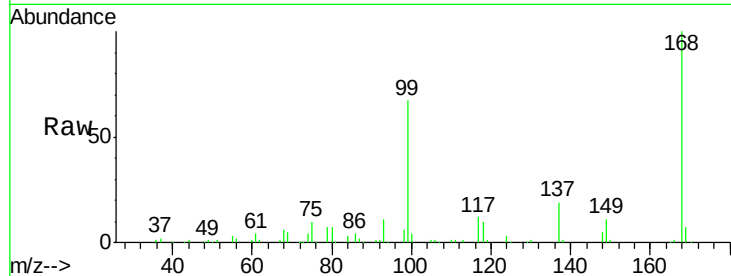
PAV-B49-110520-0-1

Tot Ion:168 Resp: 239462

Ion Ratio Lower Upper

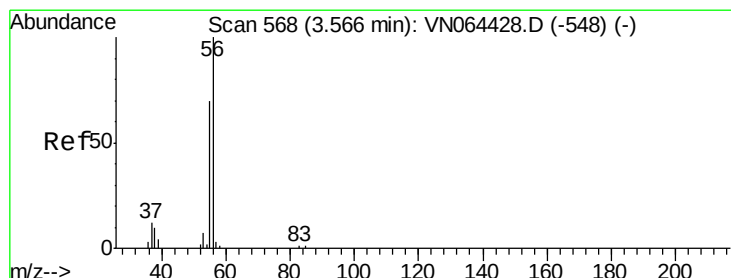
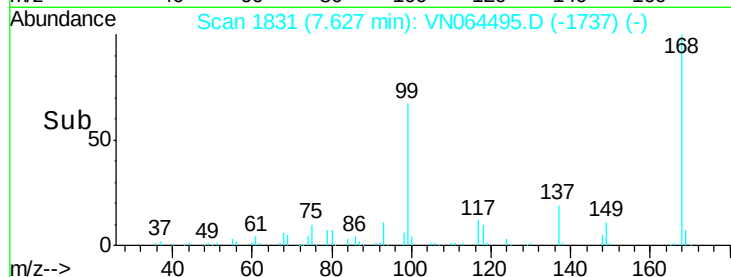
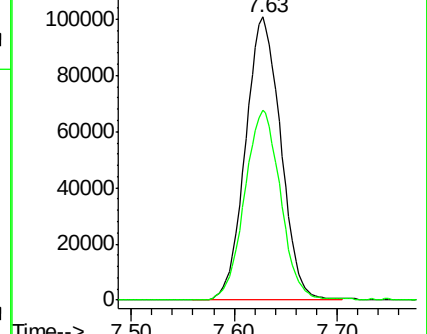
168 100

99 67.1 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 0.217 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN064495.D

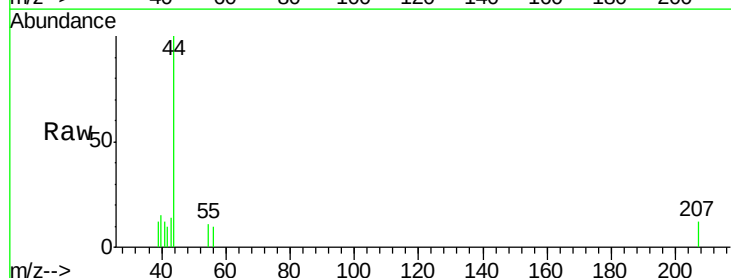
Acq: 6 Nov 2020 20:04

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

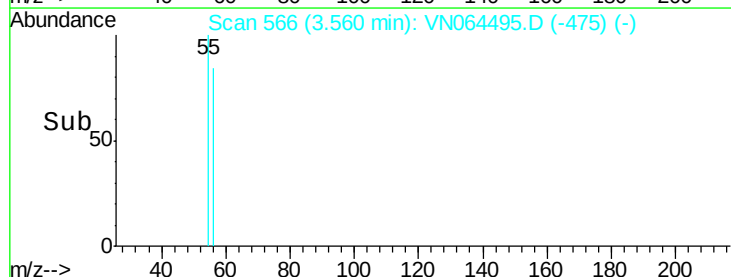
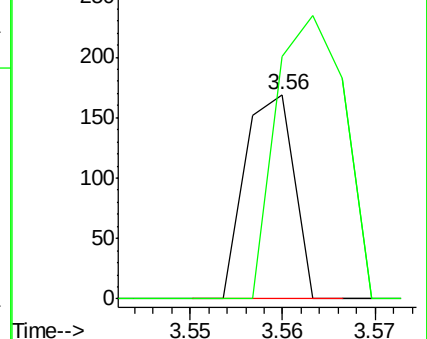
56 100

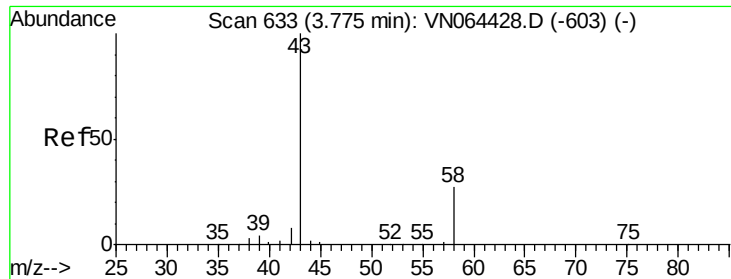
55 191.9 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

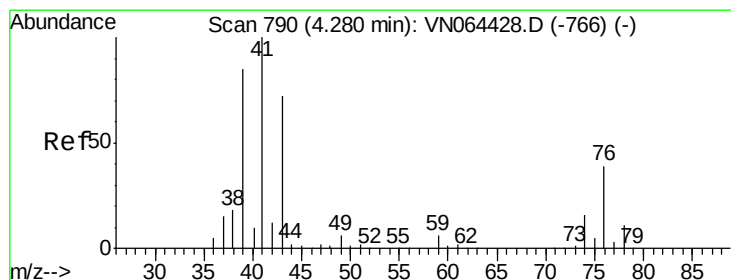
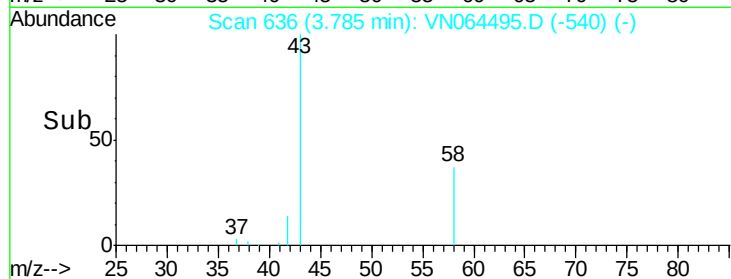
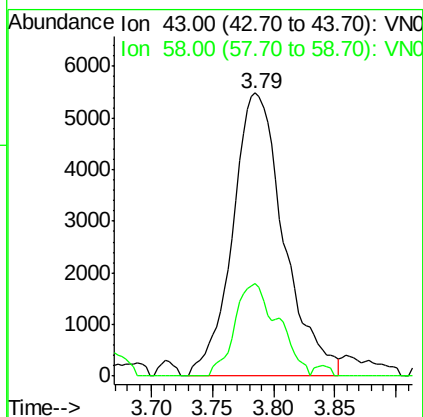
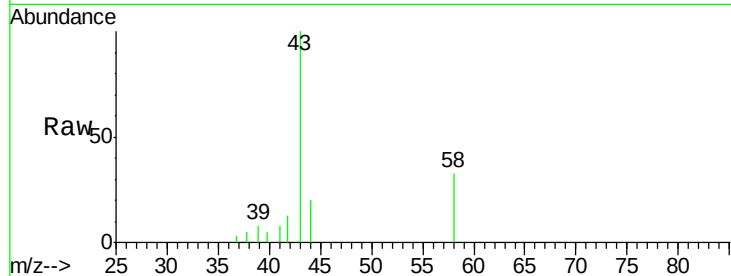




#16
Acetone
Concen: 10.058 ug/l
RT: 3.79 min Scan# 636
Delta R.T. 0.01 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

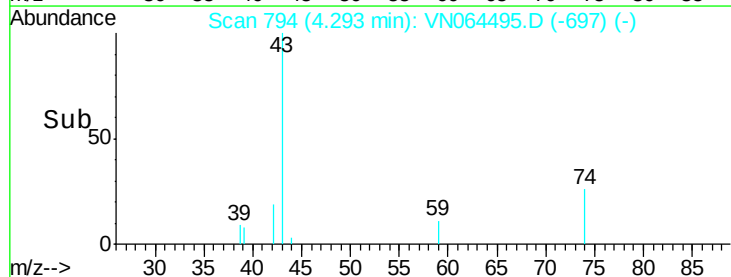
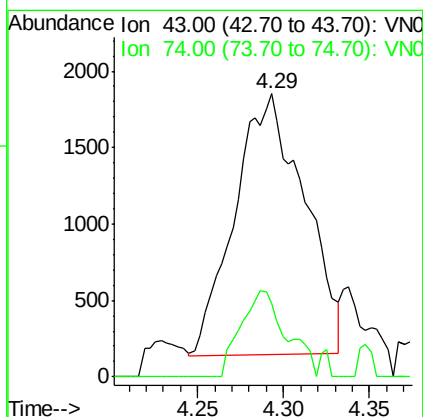
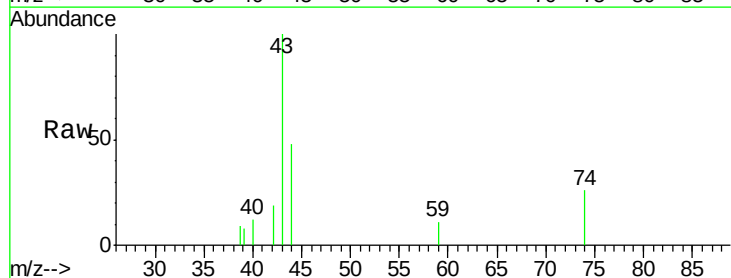
Instrument :
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ClientSampleId :
PAV-B49-110520-0-1

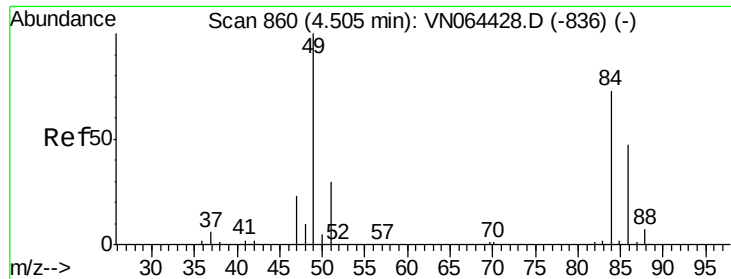
Tot Ion: 43 Resp: 15980
Ion Ratio Lower Upper
43 100
58 32.9 21.4 32.0#



#18
Methyl Acetate
Concen: 1.536 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.01 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

Tgt Ion: 43 Resp: 4799
Ion Ratio Lower Upper
43 100
74 21.6 17.0 25.4

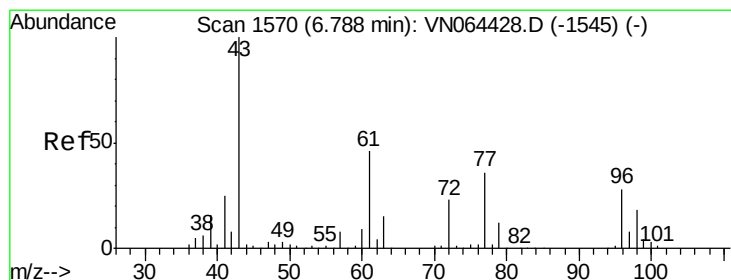
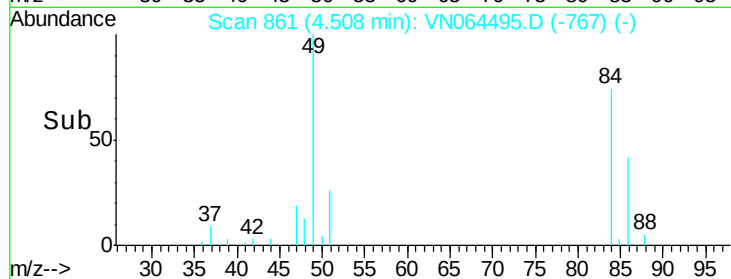
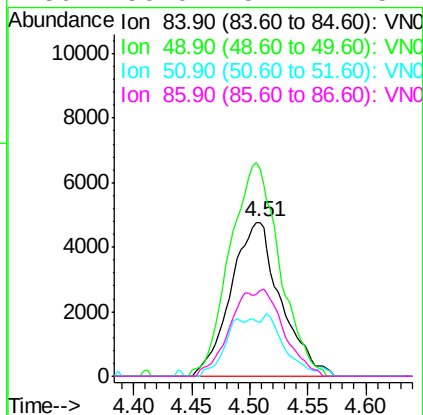
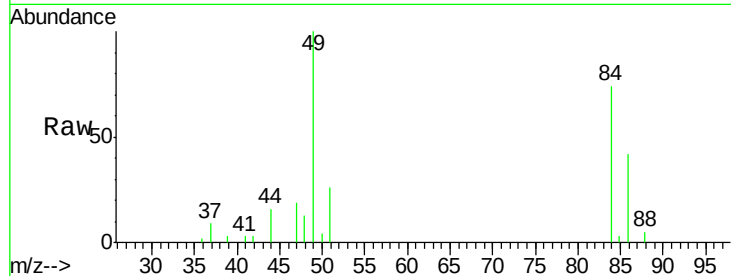




#20
Methvlene Chloride
Concen: 4.535 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

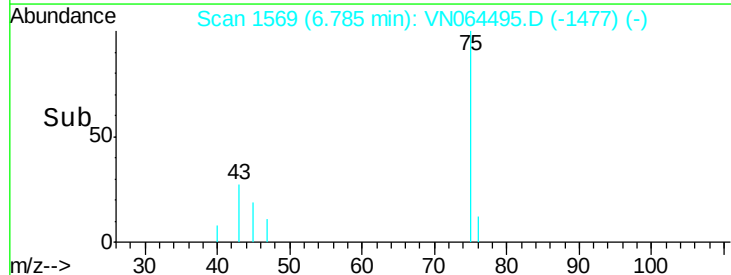
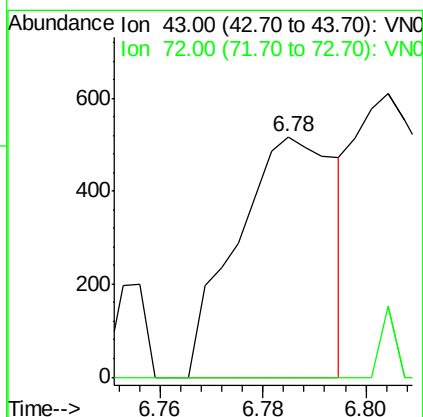
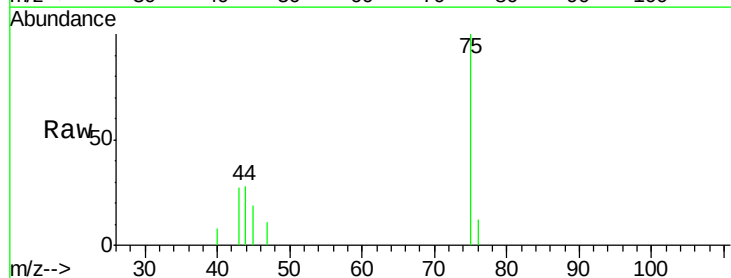
Instrument :
MSVOA_N
ClientSampleId :
PAV-B49-110520-0-1

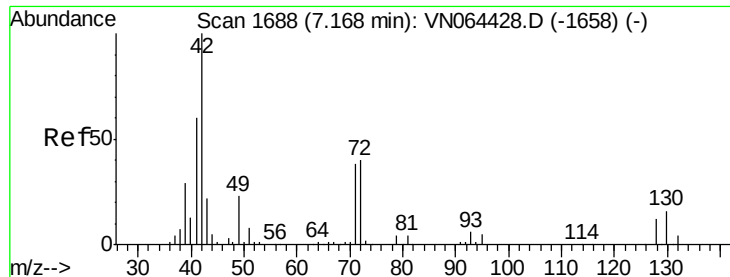
Tot Ion:	84	Resp:	14296
Ion	Ratio	Lower	Upper
84	100		
49	134.4	110.1	165.1
51	35.2	33.6	50.4
86	56.0	52.1	78.1



#25
2-Butanone
Concen: 0.339 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. -0.00 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

Tgt Ion:	43	Resp:	686
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.5	27.7#





#29

Tetrahydrofuran

Concen: 0.757 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

PAV-B49-110520-0-1

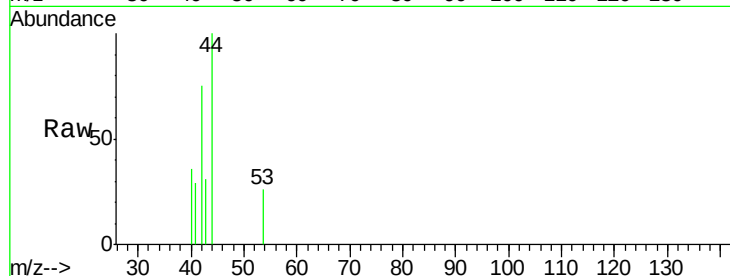
Tot Ion: 42 Resp: 940

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

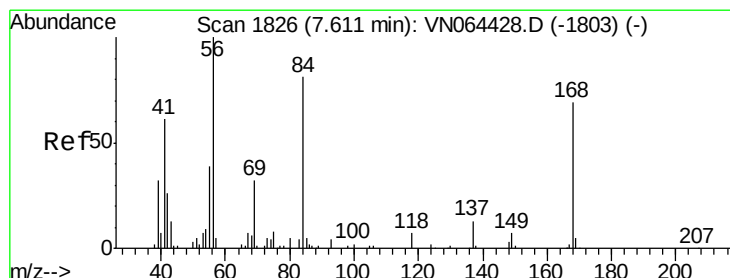
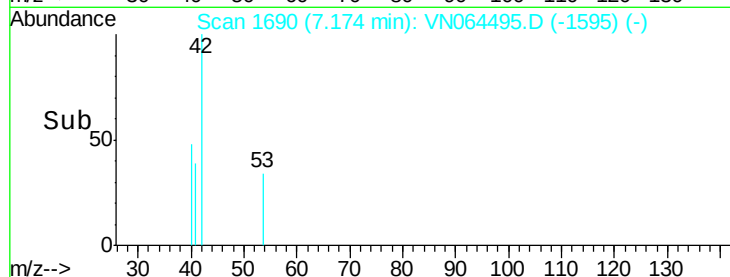
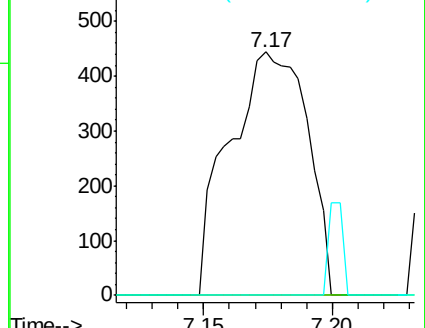
71 0.0 29.8 44.6#



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



#31

Cyclohexane

Concen: 1.278 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

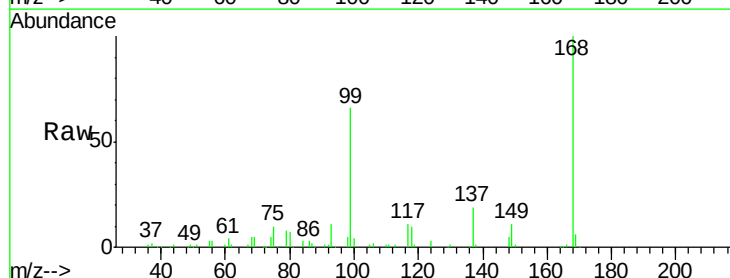
Tgt Ion: 56 Resp: 6481

Ion Ratio Lower Upper

56 100

69 198.0 25.6 38.4#

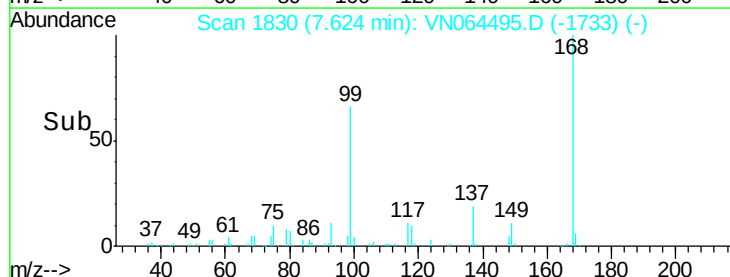
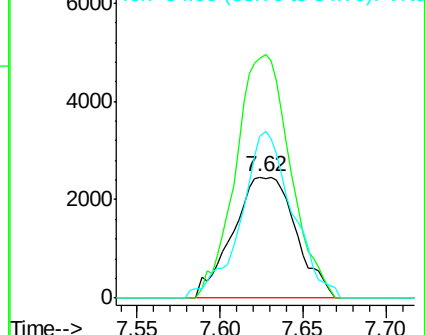
84 134.1 63.0 94.6#

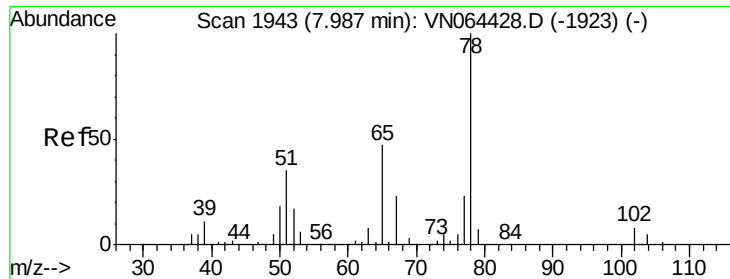


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

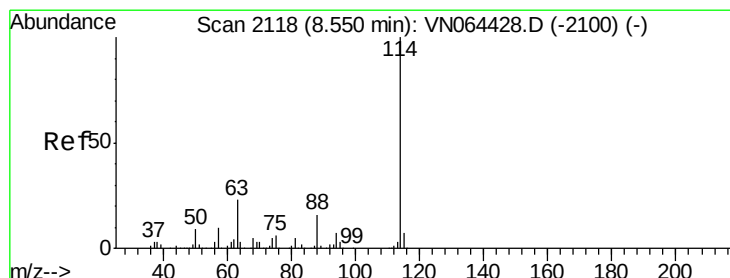
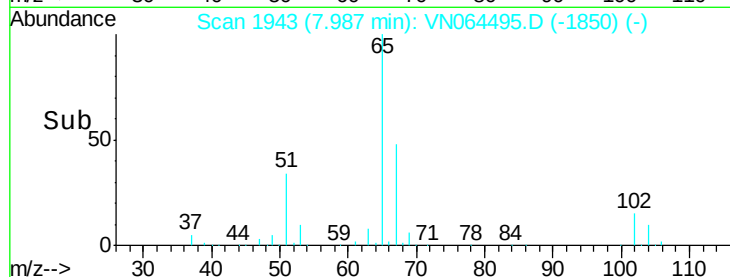
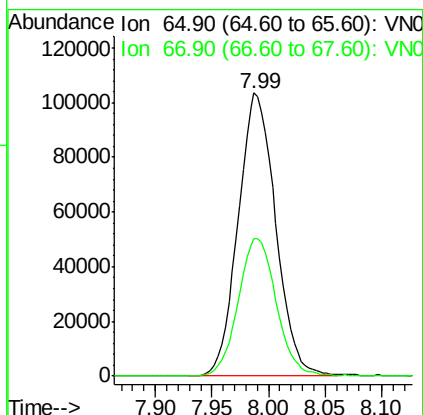
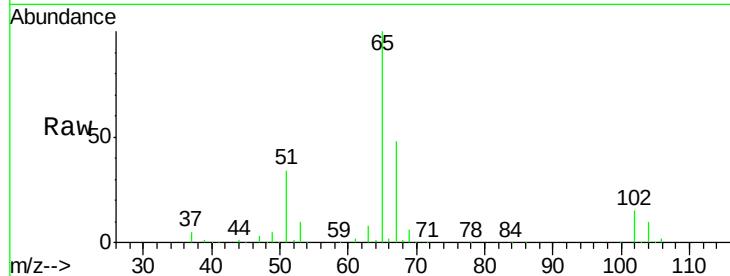




#33
 1,2-Dichloroethane-d4
 Concen: 57.427 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

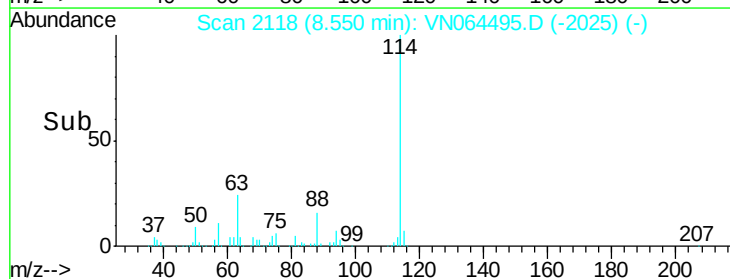
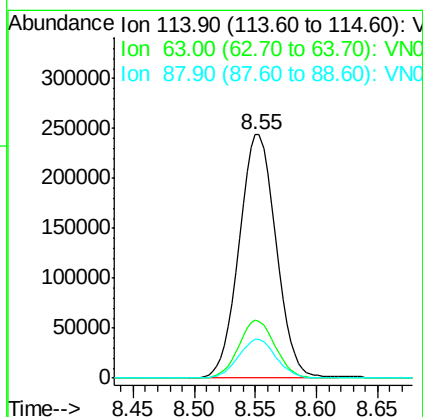
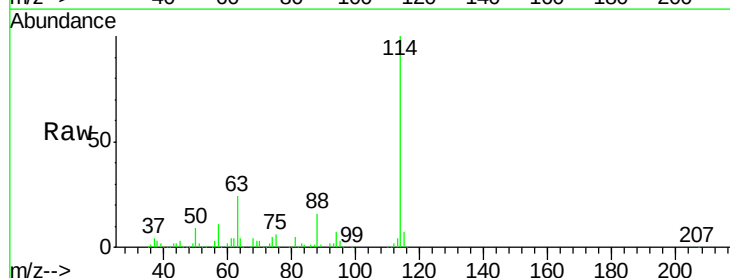
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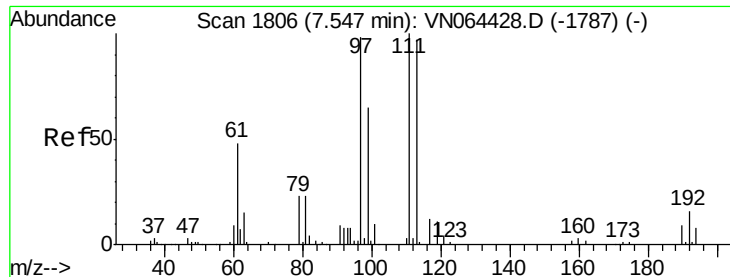
Tot Ion: 65 Resp: 239532
 Ion Ratio Lower Upper
 65 100
 67 49.3 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

Tgt Ion: 114 Resp: 511438
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 45.6
 88 16.0 0.0 32.8

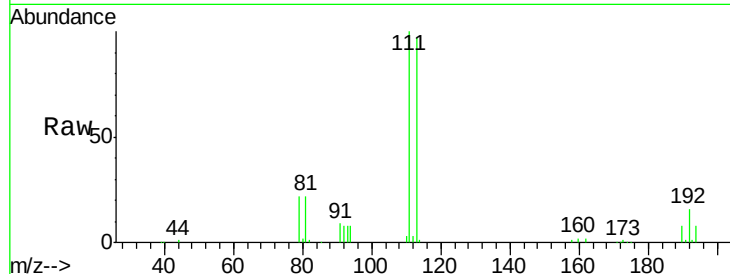




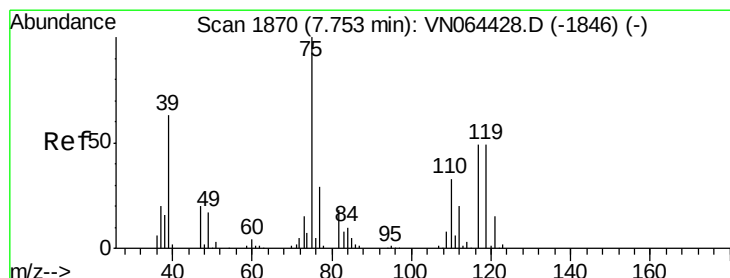
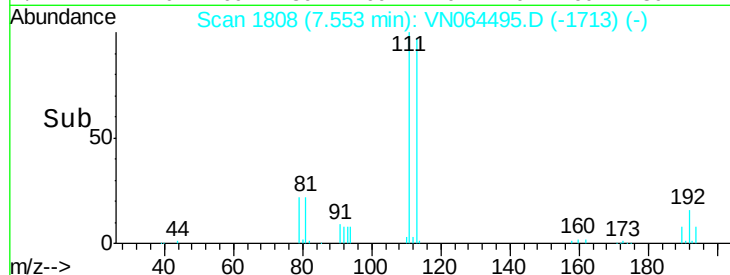
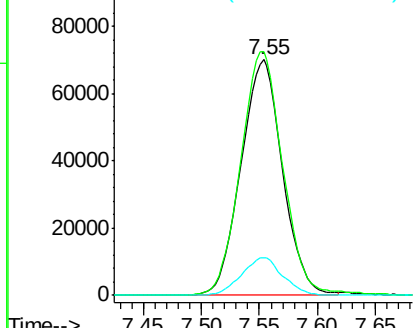
#35
 Dibromofluoromethane
 Concen: 50.141 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B49-110520-0-1

Tot Ion:113 Resp: 174601
 Ion Ratio Lower Upper
 113 100
 111 105.4 81.1 121.7
 192 16.0 12.8 19.2

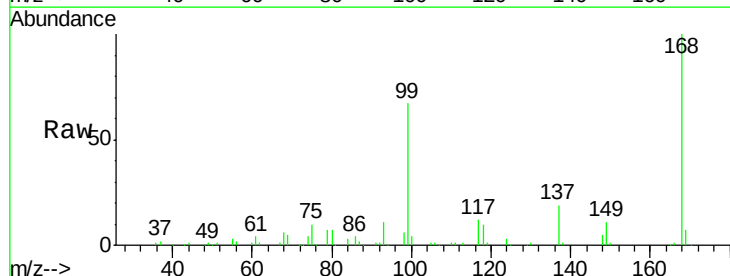


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

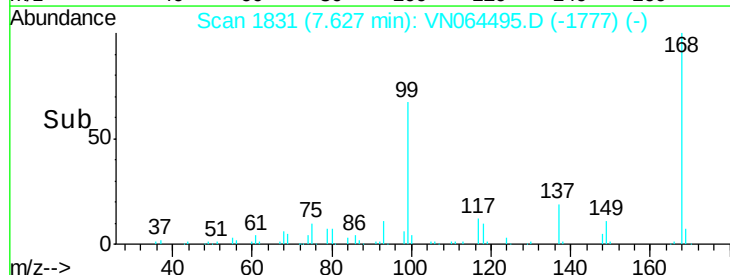
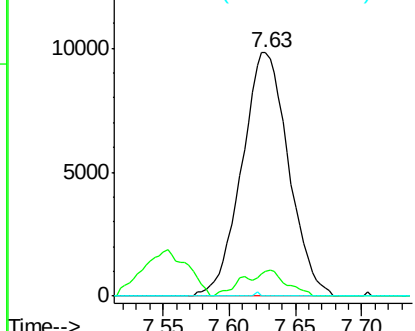


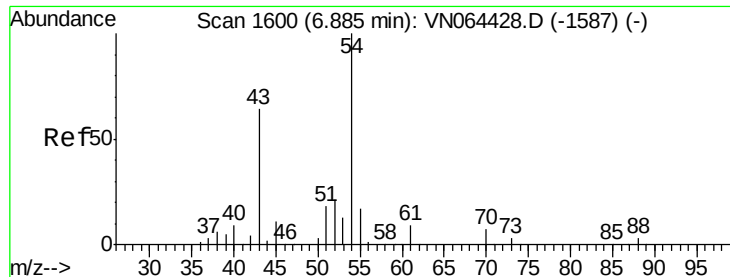
#36
 1,1-Dichloropropene
 Concen: 4.441 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

Tgt Ion: 75 Resp: 23992
 Ion Ratio Lower Upper
 75 100
 110 6.4 16.0 48.0#
 77 0.1 24.0 36.0#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

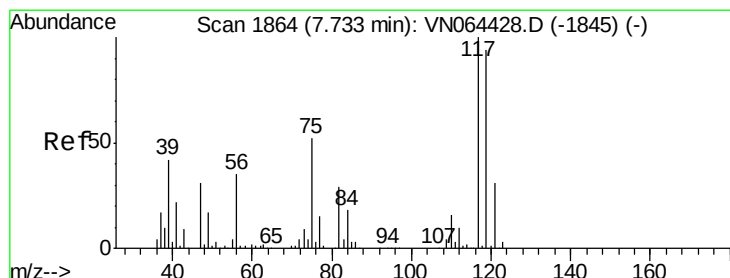
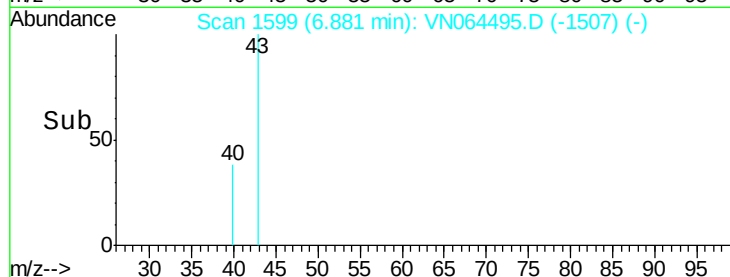
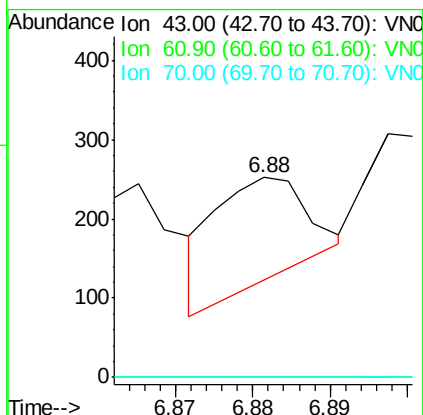
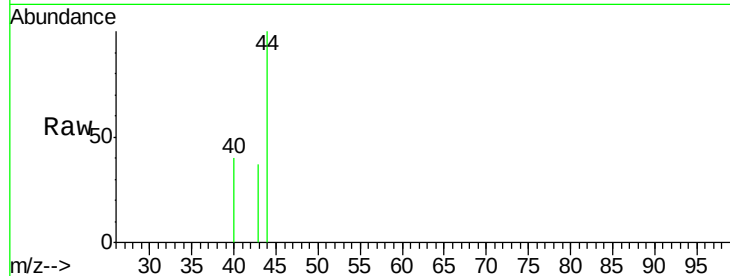




#37
Ethyl Acetate
Concen: 0.782 ug/l
RT: 6.88 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

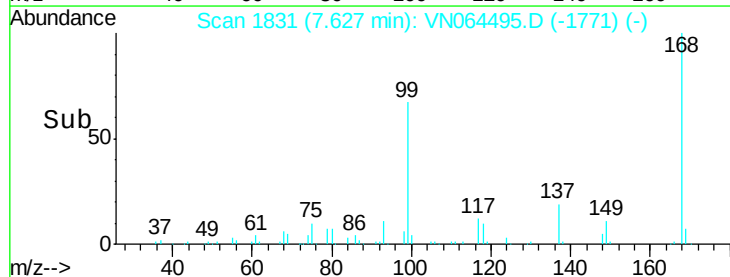
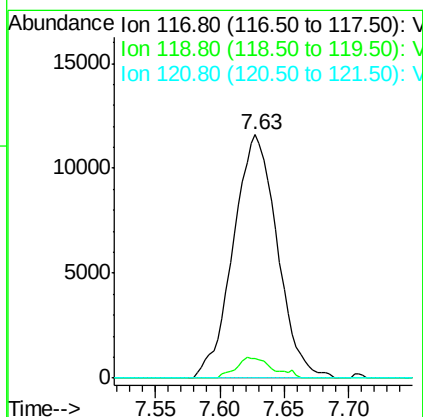
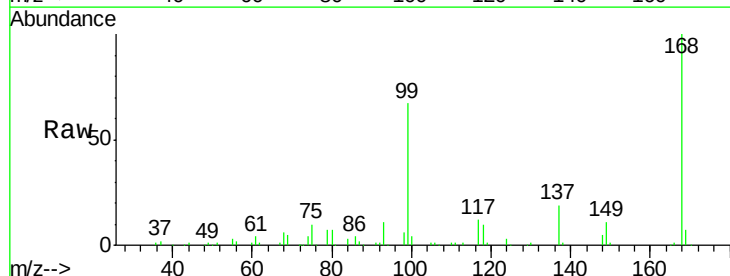
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PAV-B49-110520-0-1

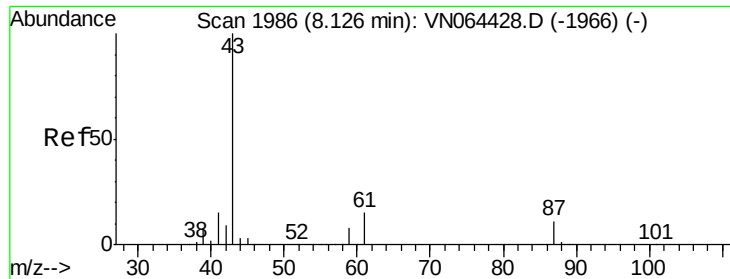
Tot Ion: 43 Resp: 112
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.773 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

Tgt Ion: 117 Resp: 27563
Ion Ratio Lower Upper
117 100
119 7.8 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 11.715 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

PAV-B49-110520-0-1

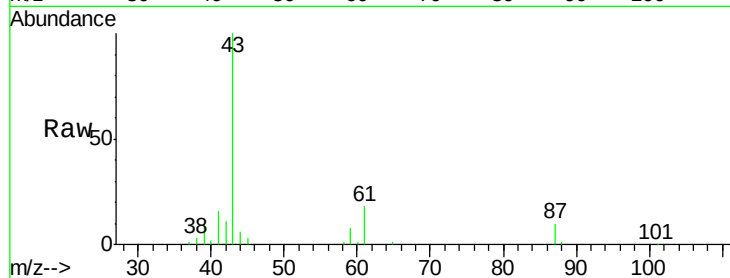
Tot Ion: 43 Resp: 102573

Ion Ratio Lower Upper

43 100

61 16.5 14.0 21.0

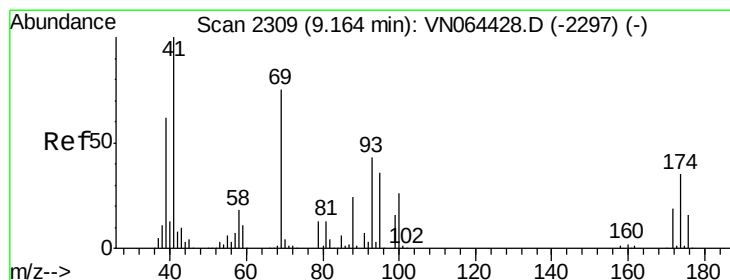
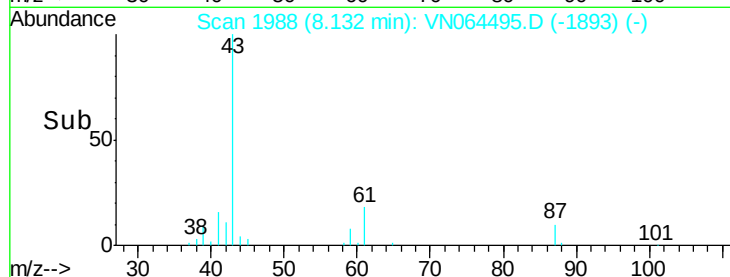
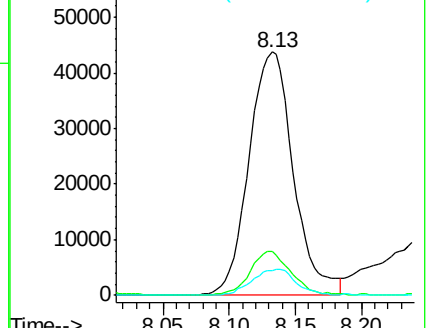
87 10.6 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN064428.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN064428.D (-1966) (-)



#48

Methyl methacrylate

Concen: 40.373 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

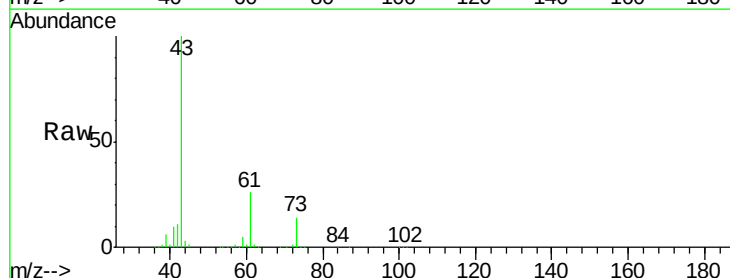
Tgt Ion: 41 Resp: 178382

Ion Ratio Lower Upper

41 100

69 0.1 60.4 90.6#

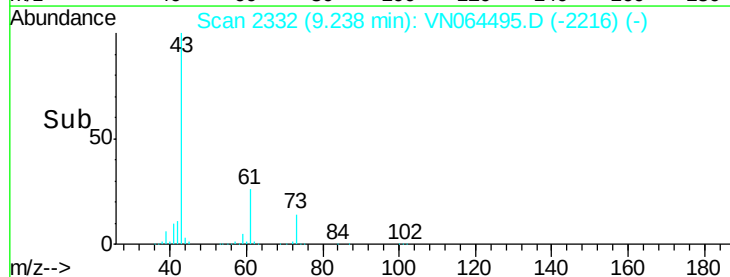
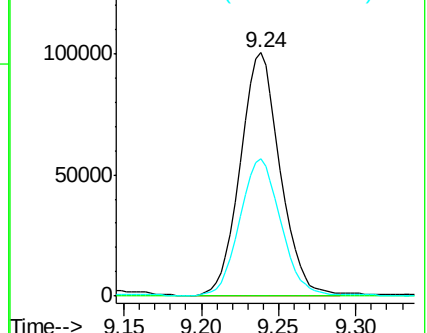
39 58.7 51.2 76.8

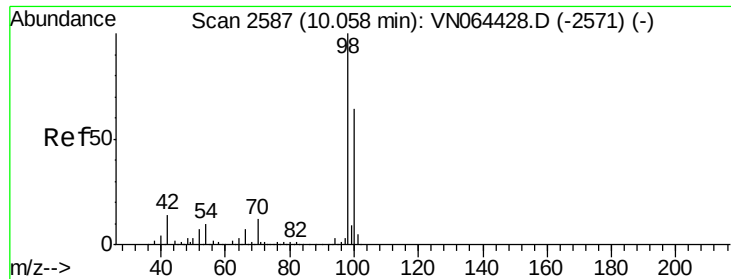


Abundance Ion 41.00 (40.70 to 41.70): VN064428.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN064428.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN064428.D (-2297) (-)





#50

Toluene-d8

Concen: 49.713 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

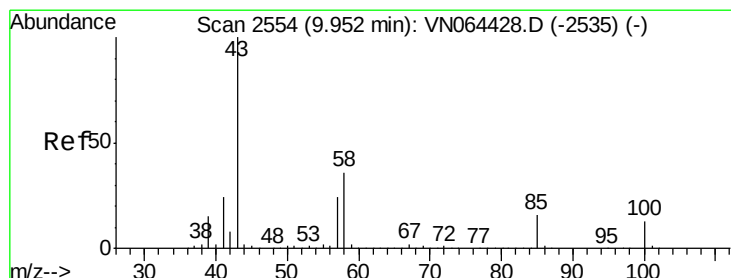
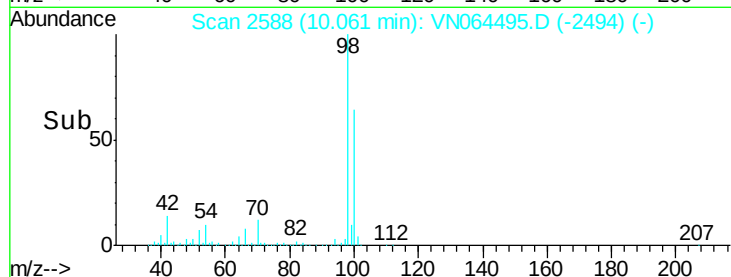
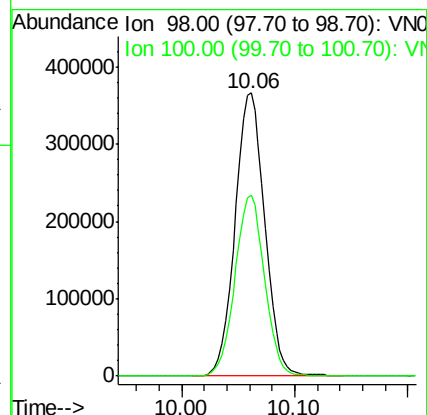
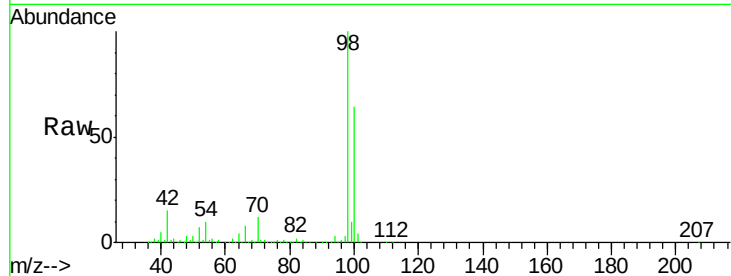
PAV-B49-110520-0-1

Tot Ion: 98 Resp: 669068

Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 1.779 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064495.D

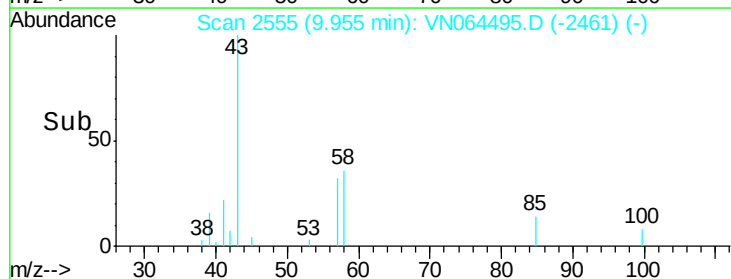
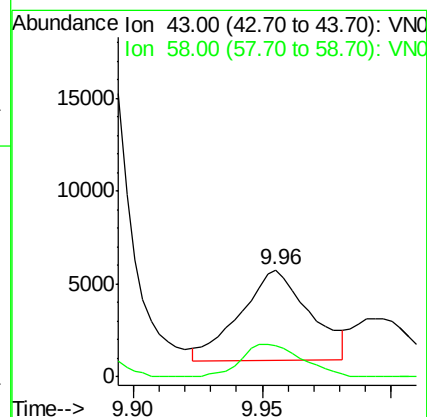
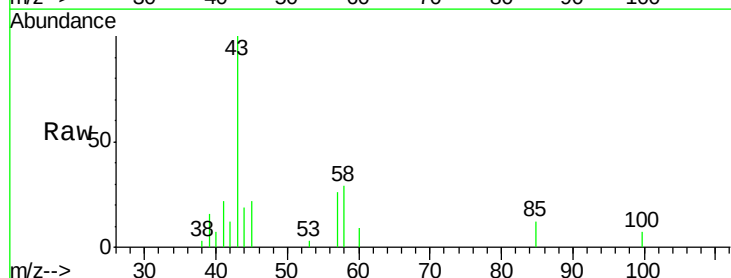
Acq: 6 Nov 2020 20:04

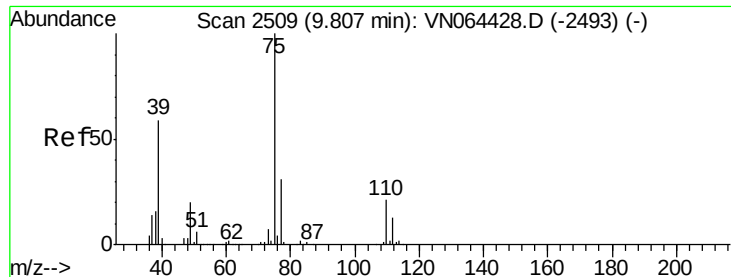
Tgt Ion: 43 Resp: 9086

Ion Ratio Lower Upper

43 100

58 32.3 28.4 42.6



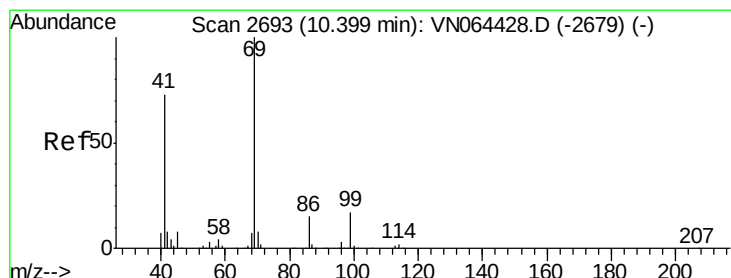
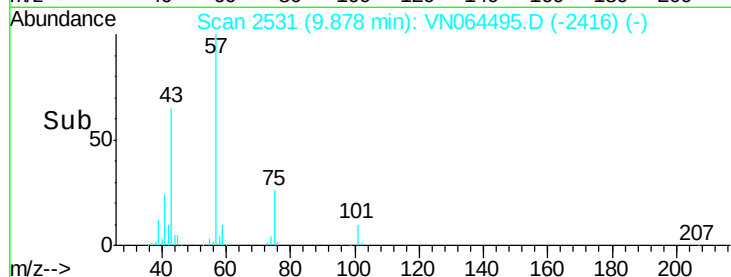
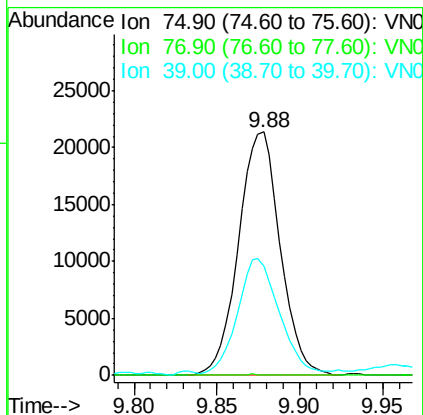
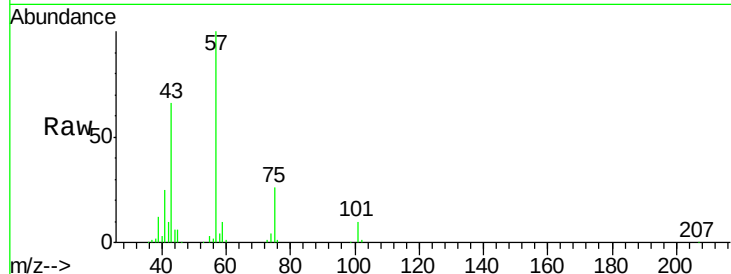


#54

cis-1,3-Dichloropropene
 Concen: 5.488 ug/l
 RT: 9.88 min Scan# 2531
 Delta R.T. 0.07 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B49-110520-0-1

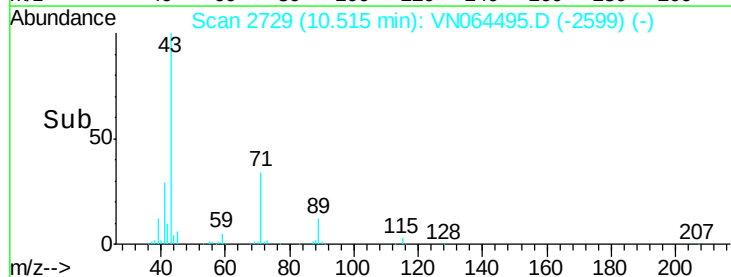
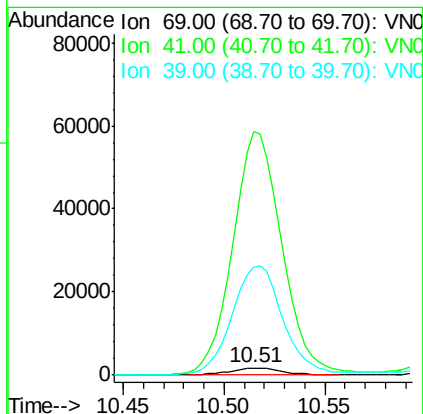
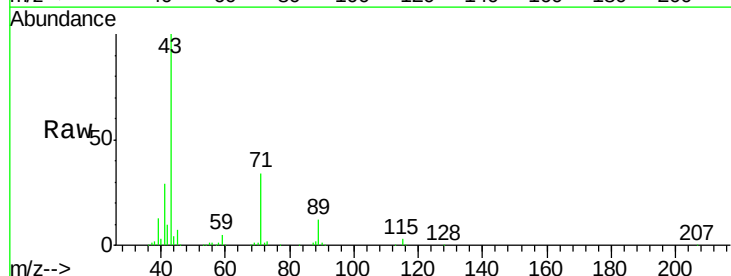
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.9	37.3#
39	43.0	47.1	70.7#

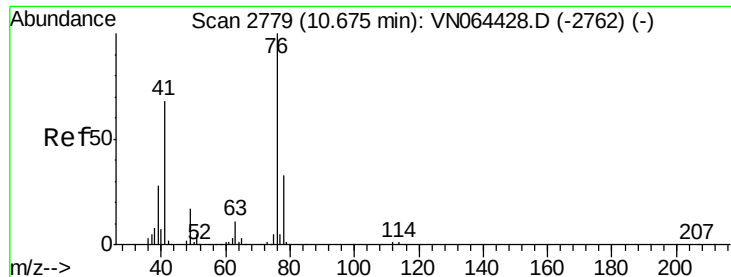


#56

Ethyl methacrylate
 Concen: 2.324 ug/l
 RT: 10.51 min Scan# 2729
 Delta R.T. 0.12 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3203.9	59.3	88.9#
39	1475.8	35.4	53.0#





#57

1,3-Dichloropropane

Concen: 0.927 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

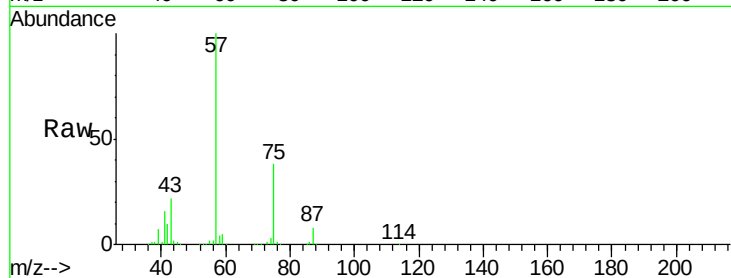
PAV-B49-110520-0-1

Tot Ion: 76 Resp: 6112

Ion Ratio Lower Upper

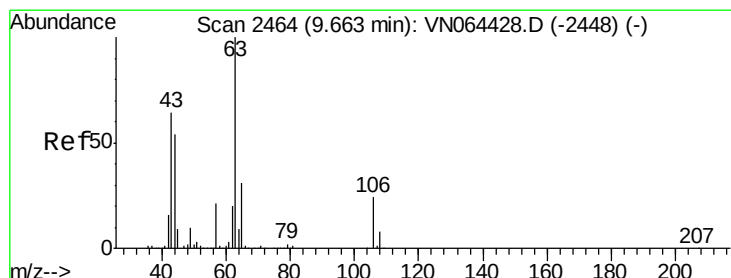
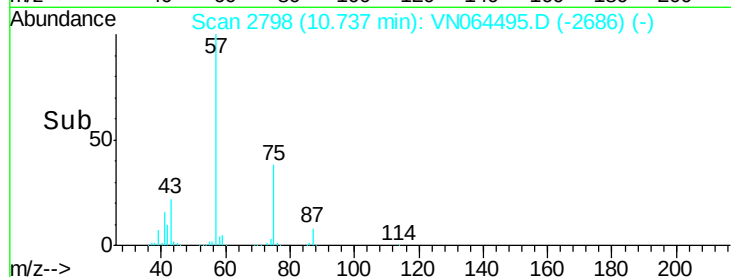
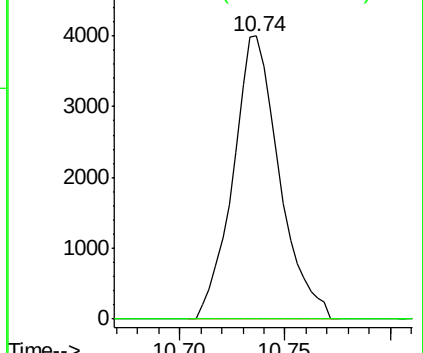
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 21.557 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.21 min

Lab File: VN064495.D

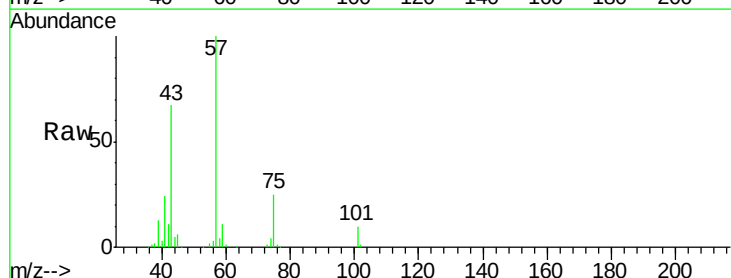
Acq: 6 Nov 2020 20:04

Tgt Ion: 63 Resp: 61

Ion Ratio Lower Upper

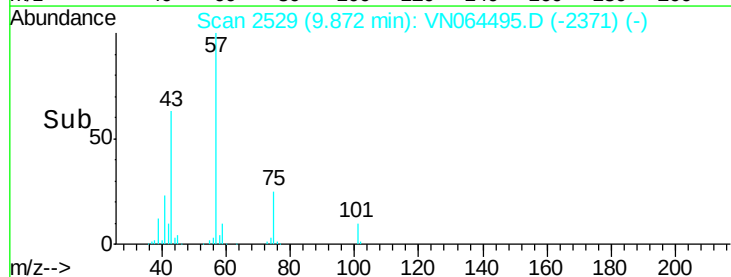
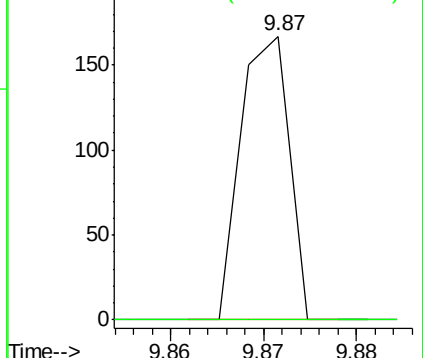
63 100

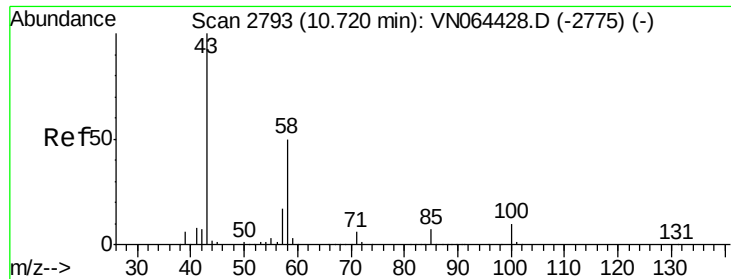
106 0.0 19.5 29.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

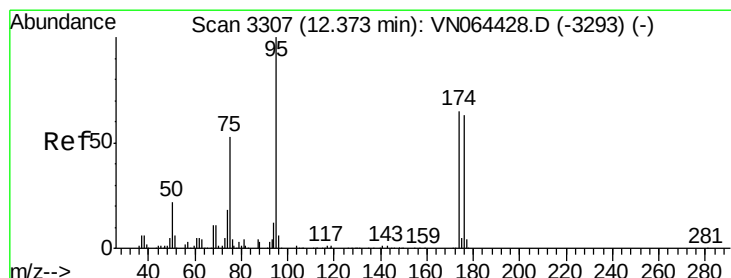
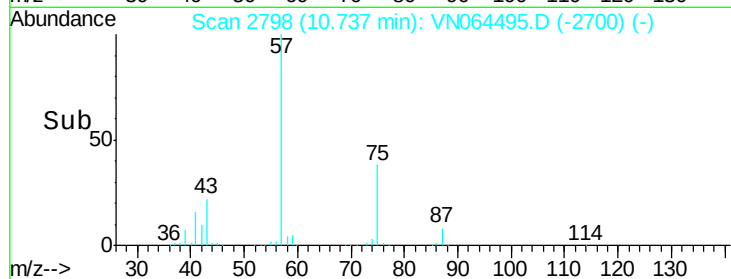
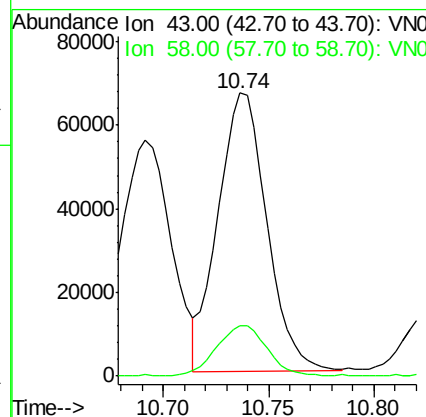
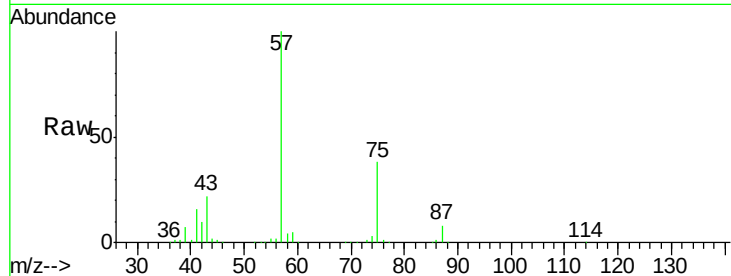




#59
2-Hexanone
Concen: 29.266 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

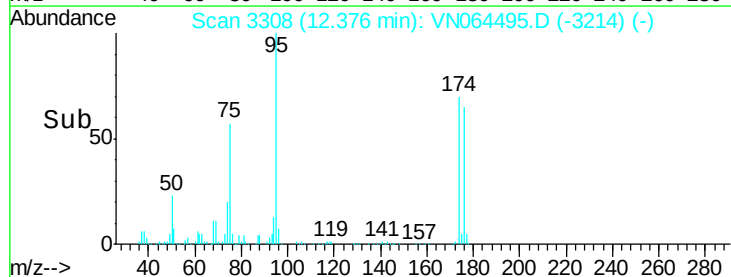
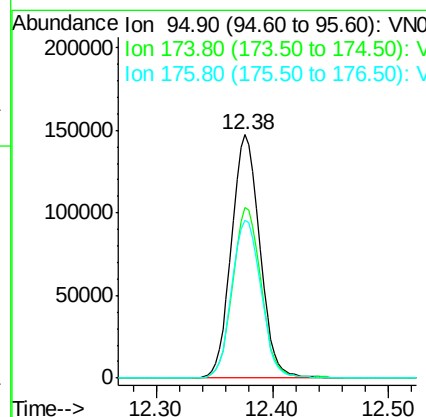
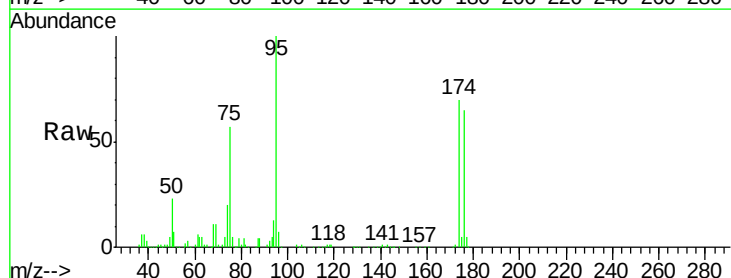
Instrument :
MSVOA_N
ClientSampleId :
PAV-B49-110520-0-1

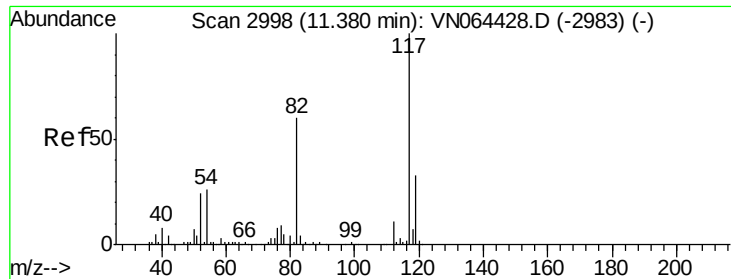
Tot Ion: 43 Resp: 106806
Ion Ratio Lower Upper
43 100
58 18.5 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 49.070 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

Tgt Ion: 95 Resp: 249764
Ion Ratio Lower Upper
95 100
174 69.8 0.0 132.6
176 66.8 0.0 129.2

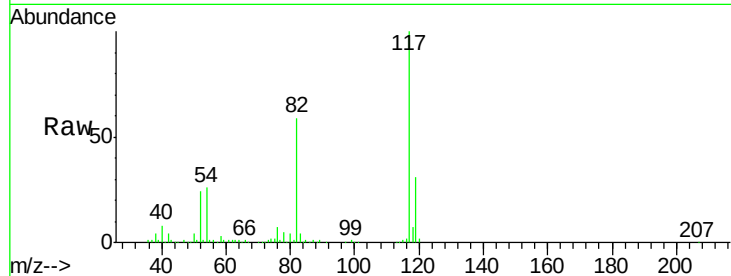




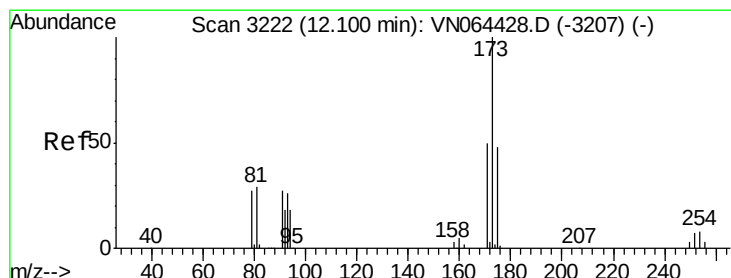
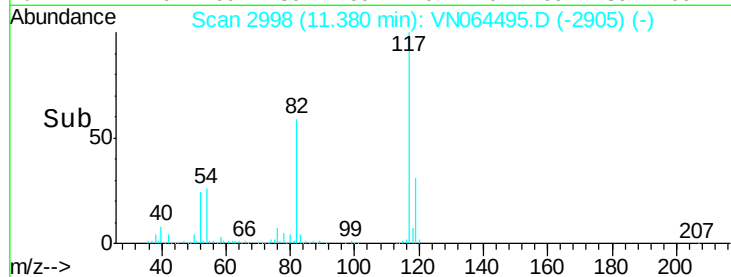
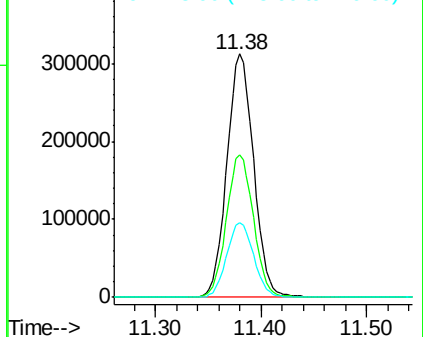
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

Instrument :
MSVOA_N
ClientSampleId :
PAV-B49-110520-0-1

Tot Ion:117 Resp: 548077
Ion Ratio Lower Upper
117 100
82 58.7 48.1 72.1
119 30.7 26.2 39.4

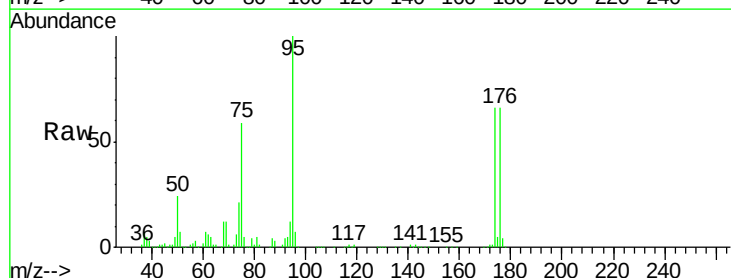


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

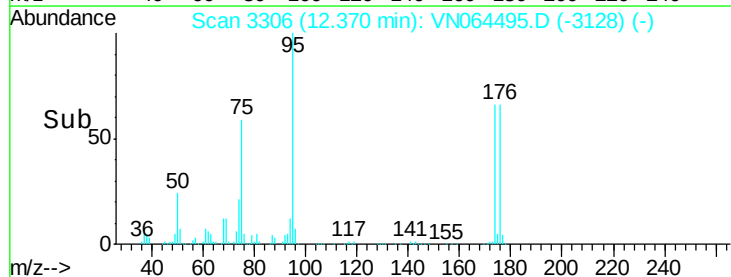
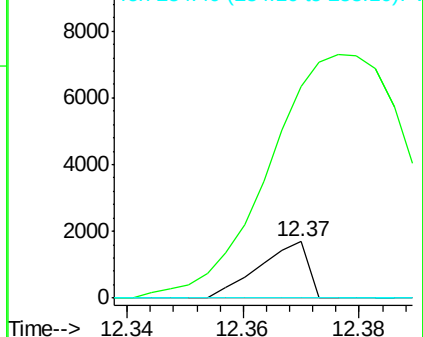


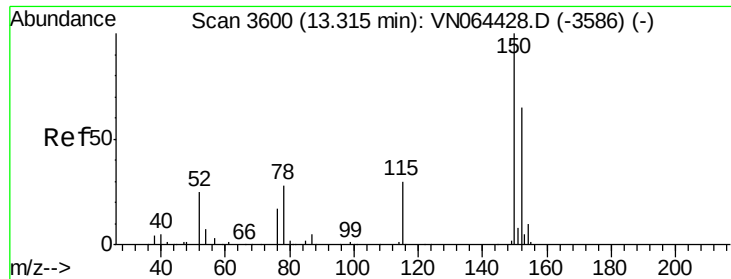
#71
Bromoform
Concen: 1.562 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN064495.D
Acq: 6 Nov 2020 20:04

Tgt Ion:173 Resp: 992
Ion Ratio Lower Upper
173 100
175 1055.0 23.7 71.1#
254 0.0 0.0 0.0



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

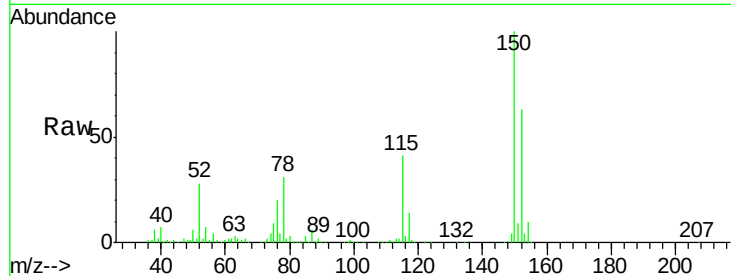




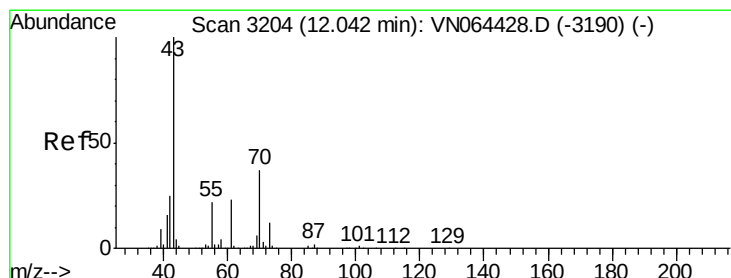
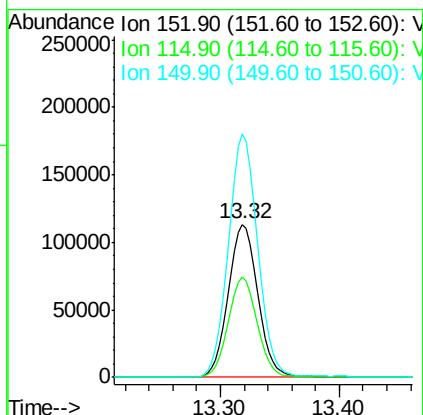
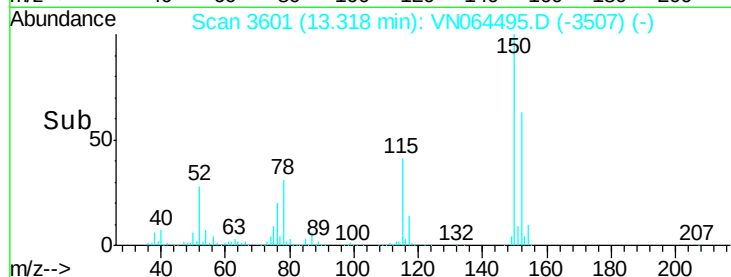
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B49-110520-0-1

Tot Ion:152 Resp: 195563
 Ion Ratio Lower Upper
 152 100
 115 64.2 32.0 96.0
 150 157.6 0.0 353.8

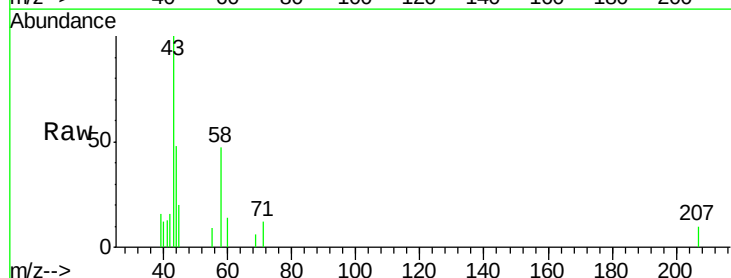


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

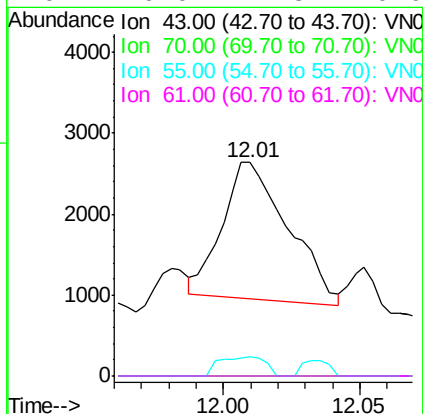
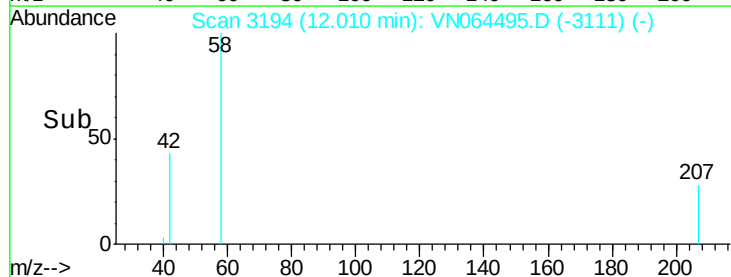


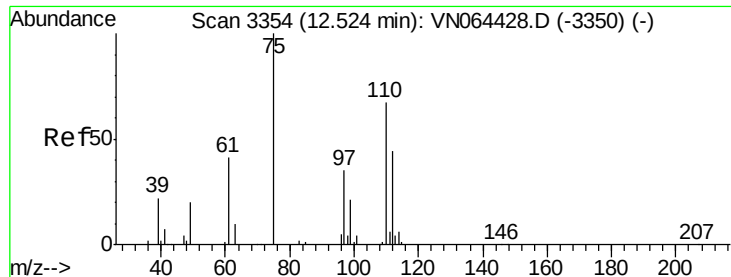
#74
 N-ethyl acetate
 Concen: 1.582 ug/l
 RT: 12.01 min Scan# 3194
 Delta R.T. -0.03 min
 Lab File: VN064495.D
 Acq: 6 Nov 2020 20:04

Tgt Ion: 43 Resp: 2844
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.6 44.4#
 55 9.8 18.4 27.6#
 61 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): V
 Ion 70.00 (69.70 to 70.70): V
 Ion 55.00 (54.70 to 55.70): V
 Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.323 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

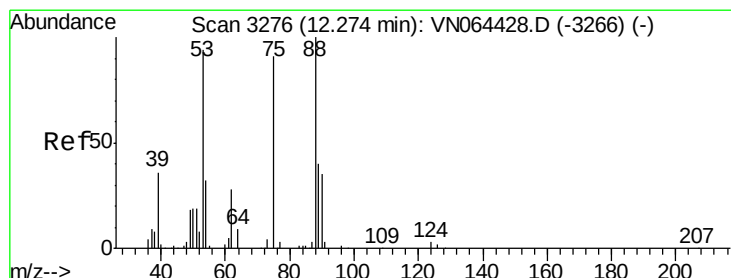
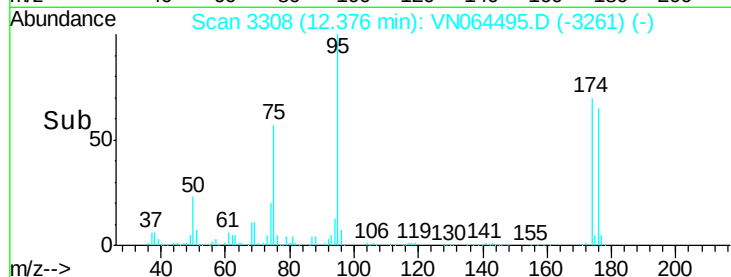
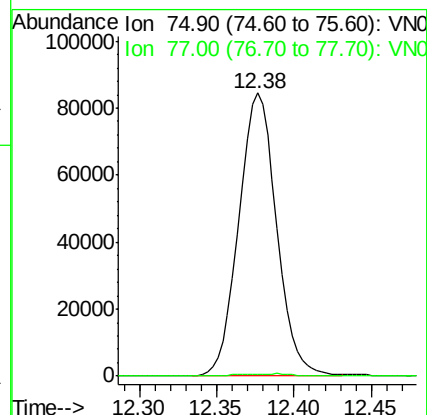
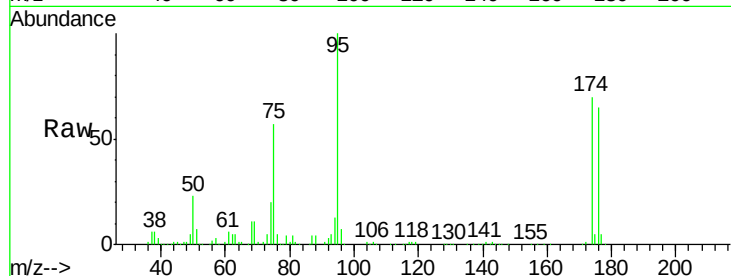
PAV-B49-110520-0-1

Tot Ion: 75 Resp: 143682

Ion Ratio Lower Upper

75 100

77 0.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.666 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064495.D

Acq: 6 Nov 2020 20:04

Tgt Ion: 75 Resp: 143682

Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#

