

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063803.D
 Acq On : 2 Oct 2020 4:56
 Operator : JC/MD
 Sample : L4190-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B18-092920-DP

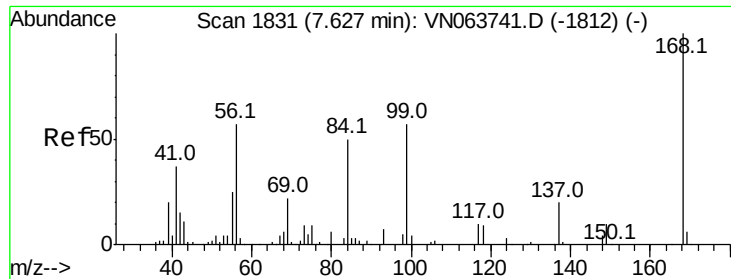
Quant Time: Oct 02 05:47:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	199869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	382132	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	397061	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161818	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	177746	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
35) Dibromofluoromethane	7.55	113	127440	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
50) Toluene-d8	10.06	98	493456	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
62) 4-Bromofluorobenzene	12.38	95	192414	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	102	0.280	ug/l #	71
16) Acetone	3.78	43	24523	24.126	ug/l	95
17) Carbon Disulfide	4.01	76	393	0.772	ug/l #	76
18) Methyl Acetate	4.28	43	4428	1.678	ug/l #	80
20) Methylene Chloride	4.50	84	9380	4.119	ug/l	91
25) 2-Butanone	6.81	43	3956	2.745	ug/l #	51
29) Tetrahydrofuran	7.16	42	276	0.286	ug/l #	36
31) Cyclohexane	7.63	56	5948	1.552	ug/l #	31
36) 1,1-Dichloropropene	7.63	75	19023	4.914	ug/l #	51
37) Ethyl Acetate	6.89	43	782	0.203	ug/l #	70
38) Carbon Tetrachloride	7.63	117	24269	5.590	ug/l #	15
43) Isopropyl Acetate	8.13	43	75466	11.895	ug/l	97
45) 1,2-Dichloropropane	9.24	63	1656	0.555	ug/l #	44
48) Methyl methacrylate	9.15	41	4648	1.483	ug/l #	12
49) 1,4-Dioxane	9.23	88	65	1.459	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7149	1.920	ug/l #	87
54) cis-1,3-Dichloropropene	9.87	75	27625	5.804	ug/l #	67
57) 1,3-Dichloropropane	10.73	76	5165	1.113	ug/l #	43
59) 2-Hexanone	10.74	43	79100	28.600	ug/l #	54
71) Bromoform	12.37	173	984	0.412	ug/l #	1
74) N-amyl acetate	12.01	43	2281	2.613	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	110262	30.911	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	110262	89.028	ug/l #	6
95) Naphthalene	15.12	128	106	1.936	ug/l #	69

(#) = 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: VN063803.D

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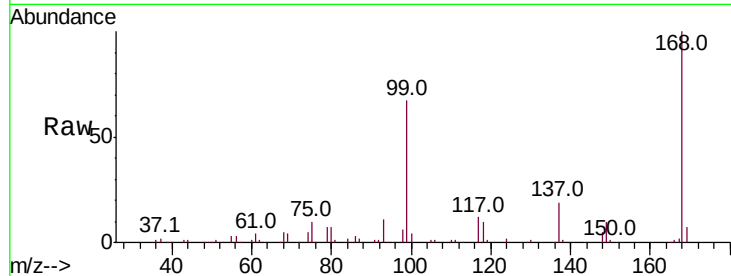
PAV-B18-092920-DP

Tot Ion:168 Resp: 199869

Ion Ratio Lower Upper

168 100

99 67.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

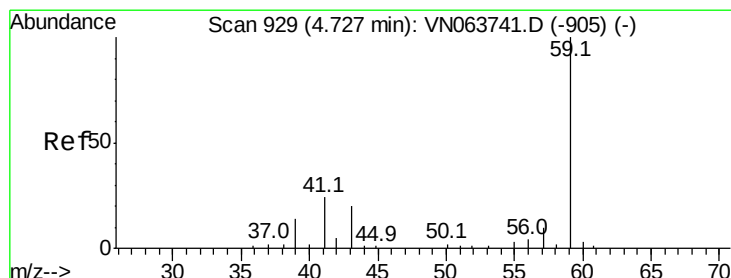
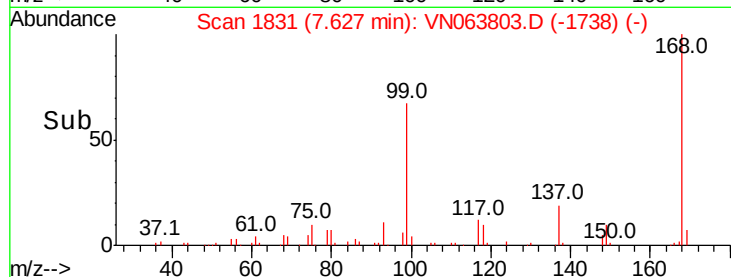
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.280 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN063803.D

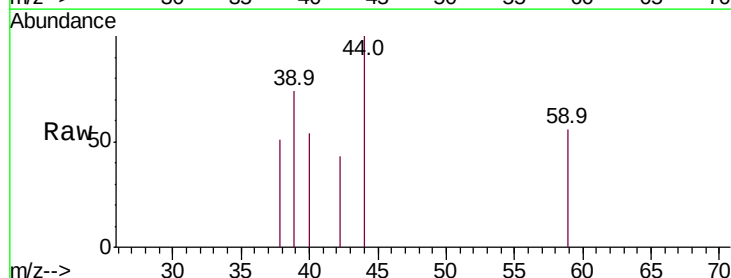
Acq: 2 Oct 2020 4:56

Tgt Ion: 59 Resp: 102

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

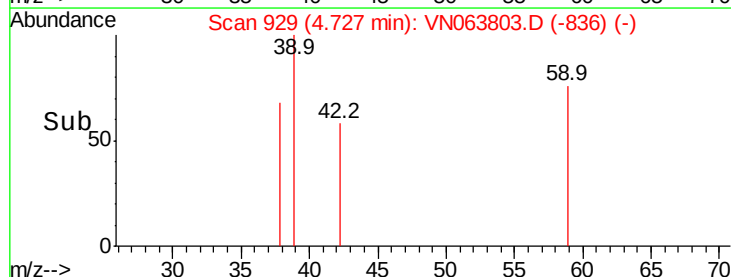
300

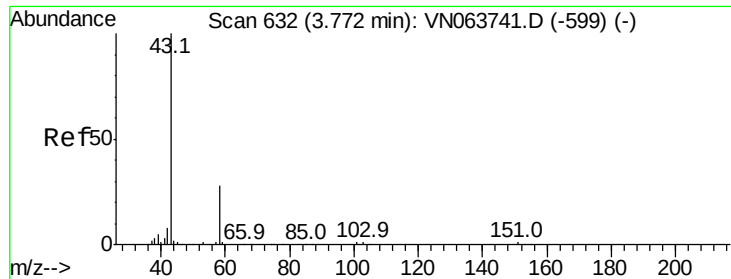
200

100

0

Time--> 4.71 4.72 4.73 4.74





#16

Acetone

Concen: 24.126 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

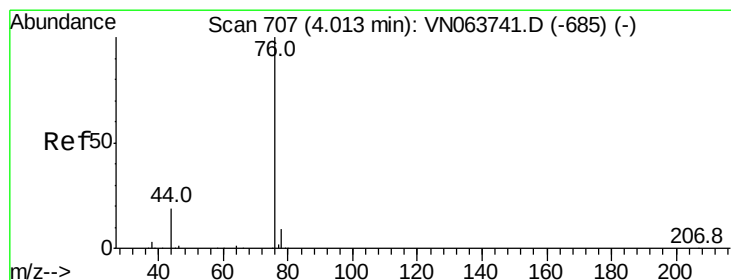
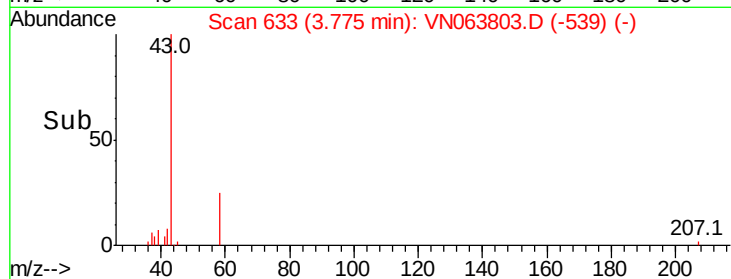
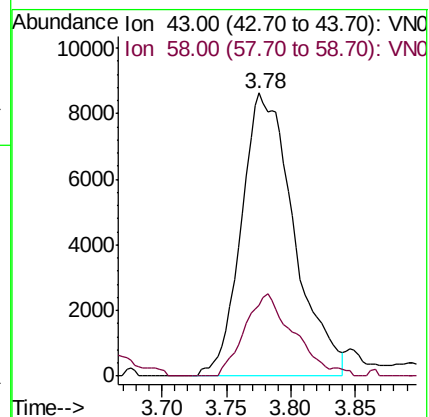
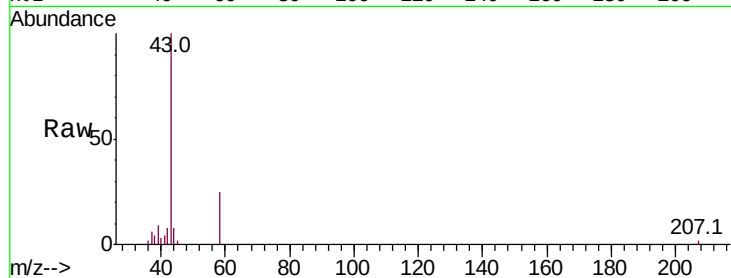
PAV-B18-092920-DP

Tot Ion: 43 Resp: 24523

Ion Ratio Lower Upper

43 100

58 25.1 22.3 33.5



#17

Carbon Disulfide

Concen: 0.772 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063803.D

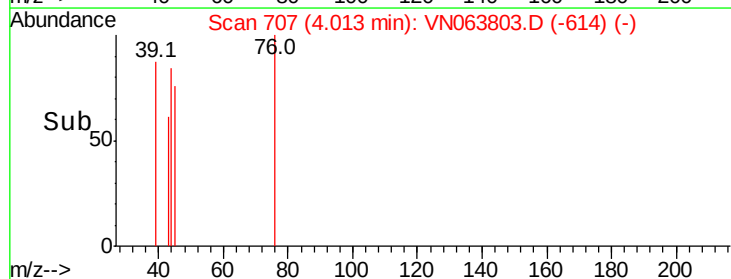
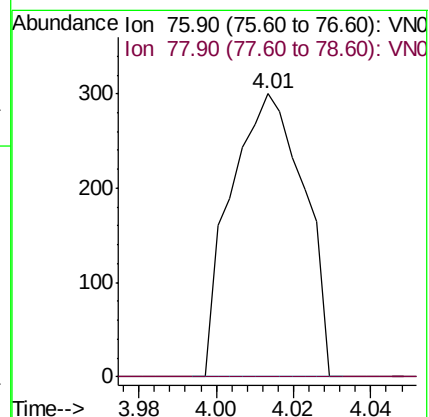
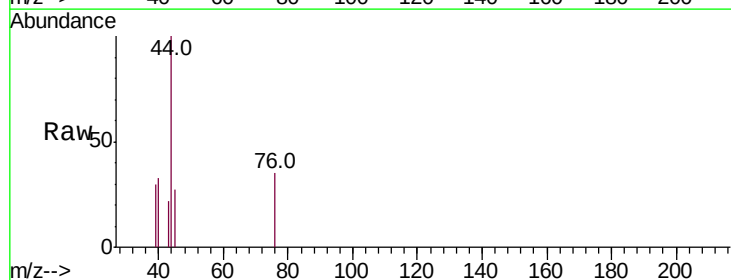
Acq: 2 Oct 2020 4:56

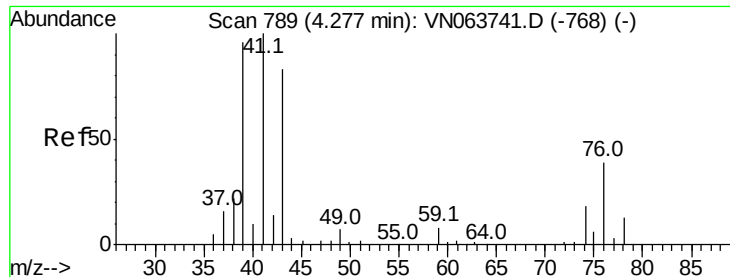
Tgt Ion: 76 Resp: 393

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

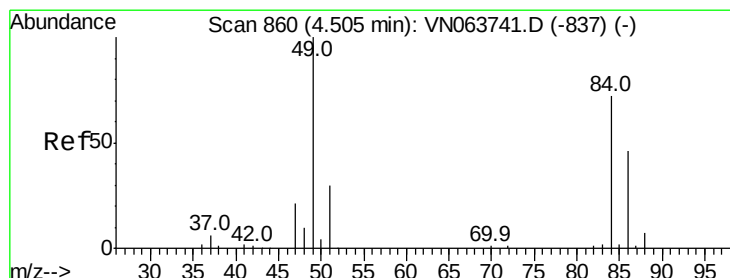
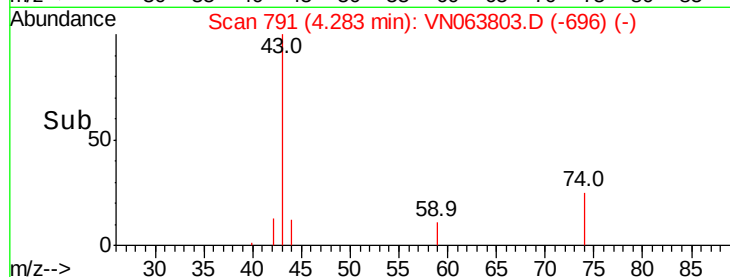
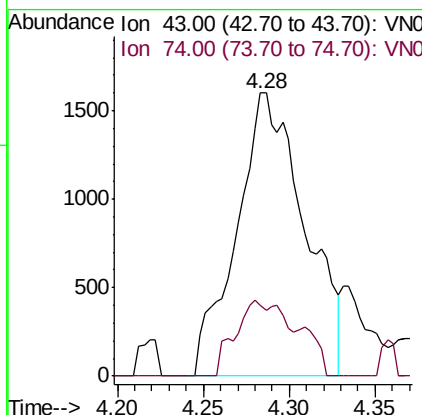
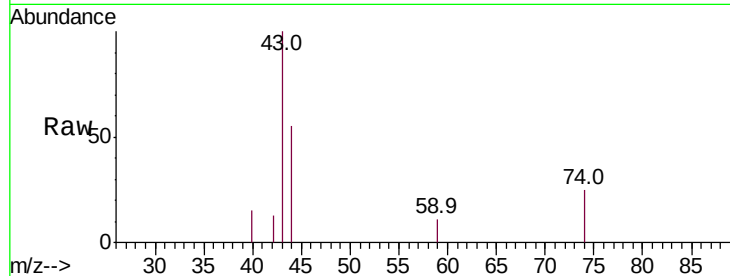




#18
Methyl Acetate
Concen: 1.678 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

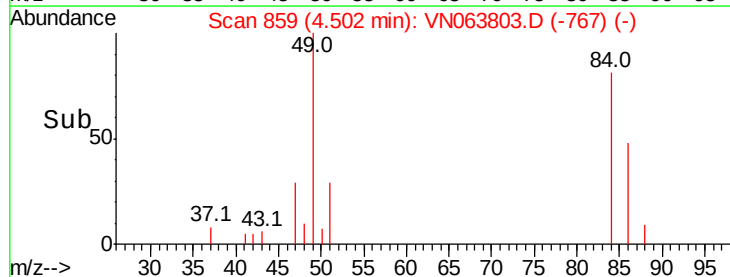
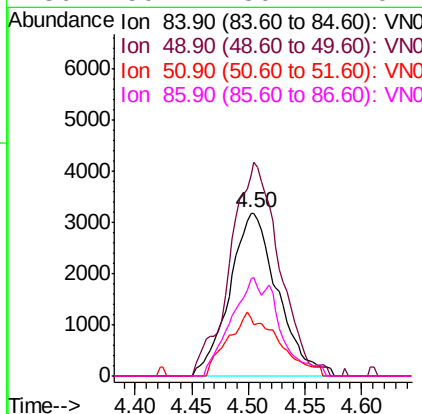
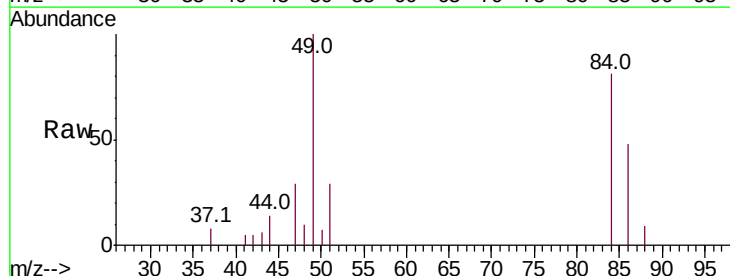
Instrument :
MSVOA_N
ClientSampleId :
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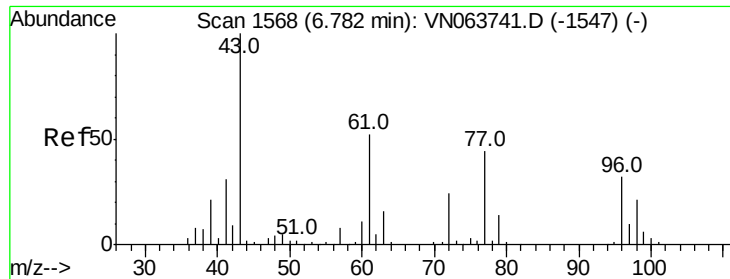
Tot Ion: 43 Resp: 4428
Ion Ratio Lower Upper
43 100
74 12.1 17.4 26.2#



#20
Methylene Chloride
Concen: 4.119 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

Tgt Ion: 84 Resp: 9380
Ion Ratio Lower Upper
84 100
49 123.9 110.4 165.6
51 35.7 33.3 49.9
86 59.7 50.7 76.1

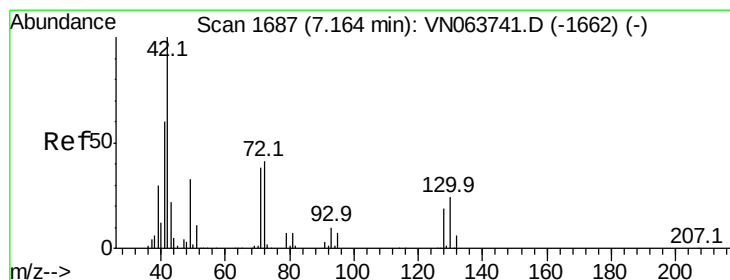
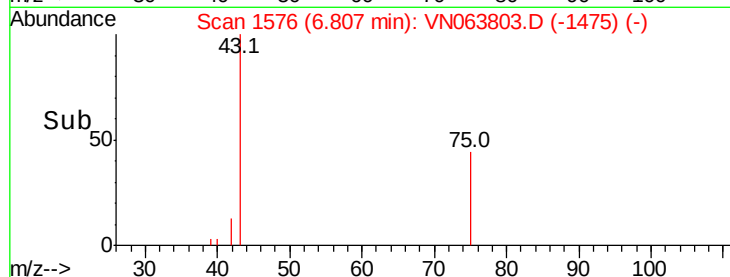
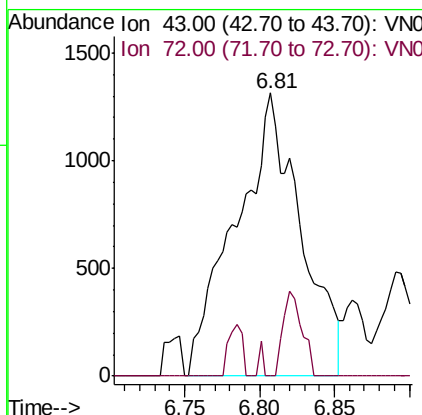
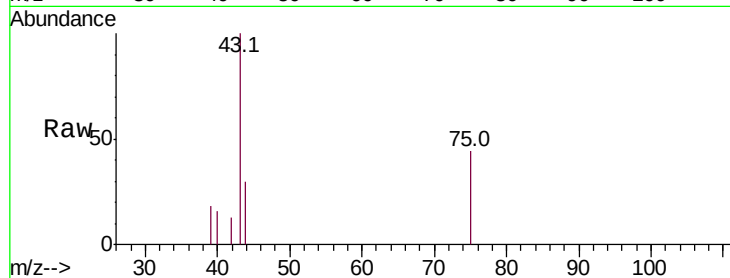




#25
2-Butanone
Concen: 2.745 ug/l
RT: 6.81 min Scan# 1576
Delta R.T. 0.03 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

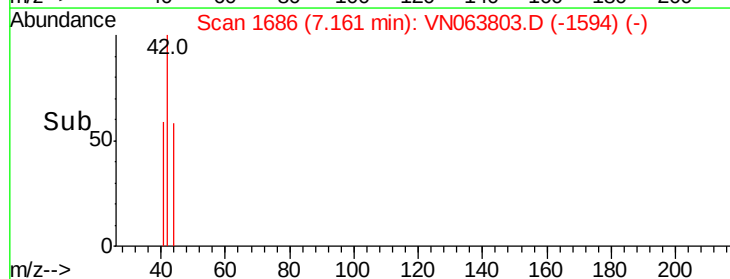
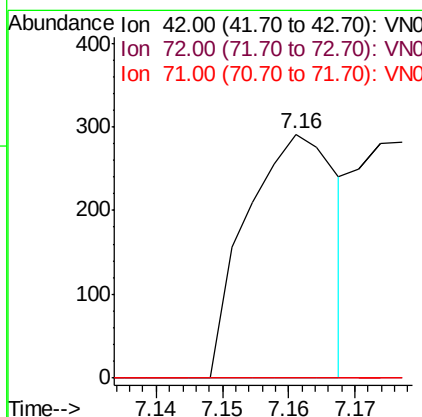
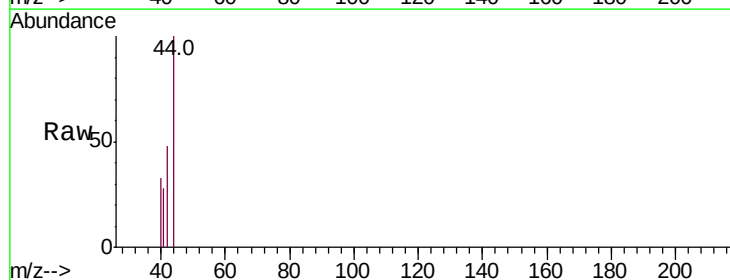
Instrument :
MSVOA_N
ClientSampleId :
PAV-B18-092920-DP

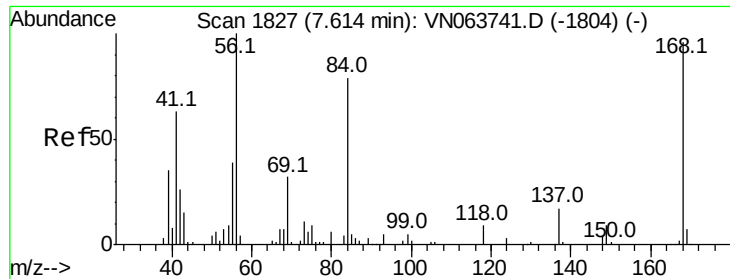
Tot Ion: 43 Resp: 3956
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.286 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

Tgt Ion: 42 Resp: 276
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 30.6 45.8#

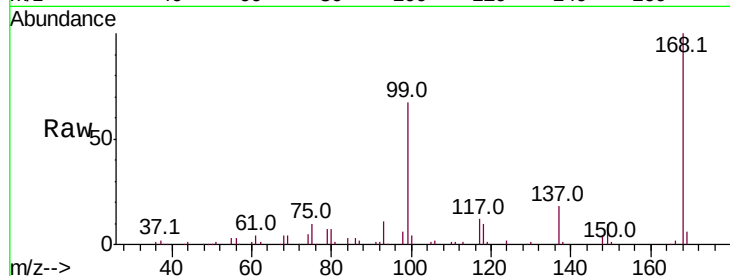




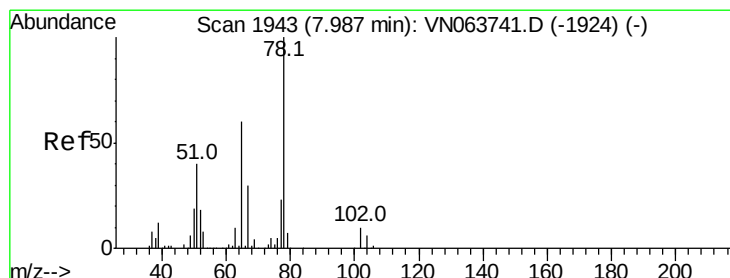
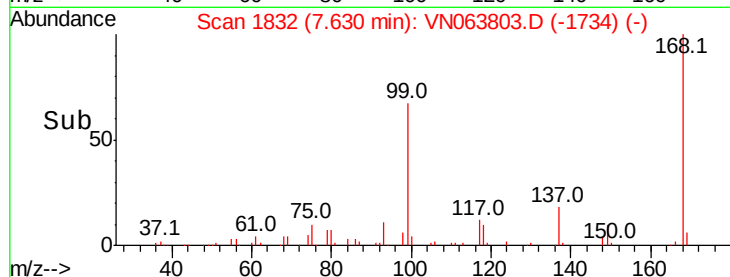
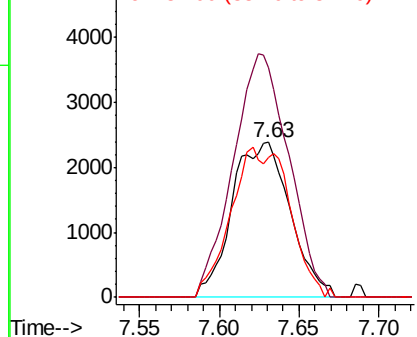
#31
Cyclohexane
Concen: 1.552 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion: 56 Resp: 5948
Ion Ratio Lower Upper
56 100
69 148.2 25.4 38.2#
84 90.5 63.3 94.9

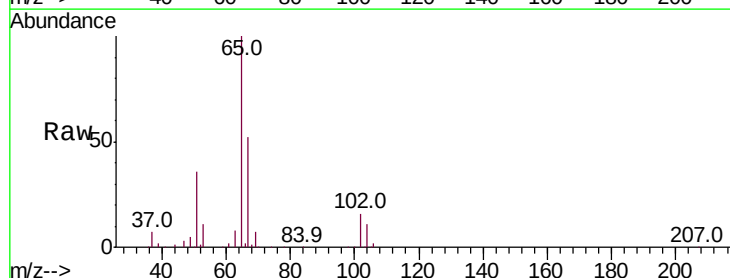


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

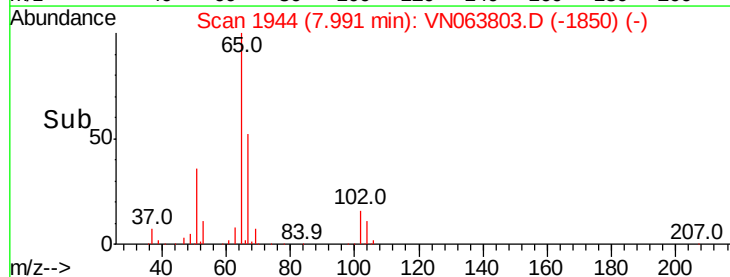
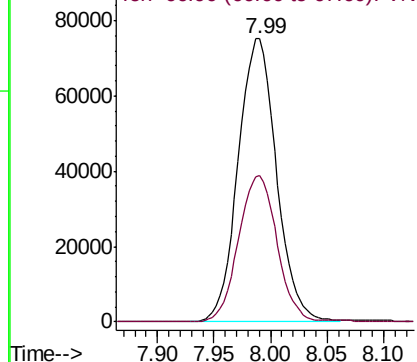


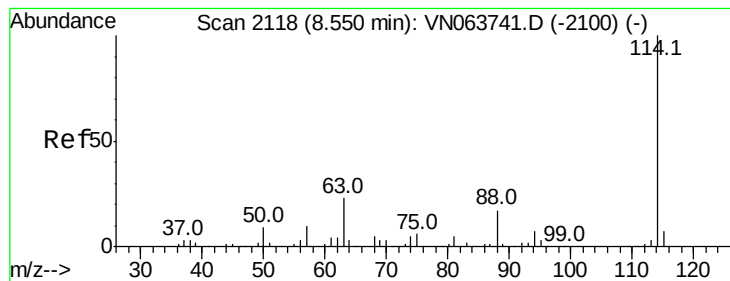
#33
1,2-Dichloroethane-d4
Concen: 53.830 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

Tgt Ion: 65 Resp: 177746
Ion Ratio Lower Upper
65 100
67 51.7 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-DP

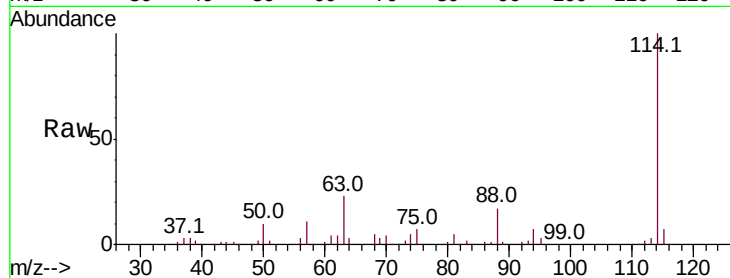
Tot Ion:114 Resp: 382132

Ion Ratio Lower Upper

114 100

63 23.1 0.0 45.0

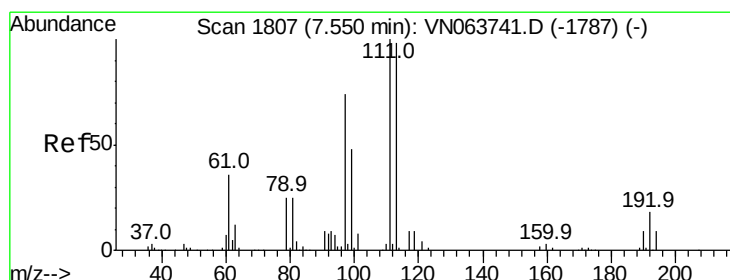
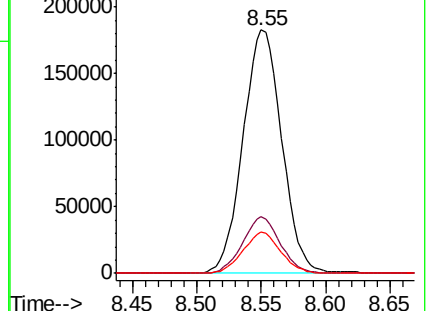
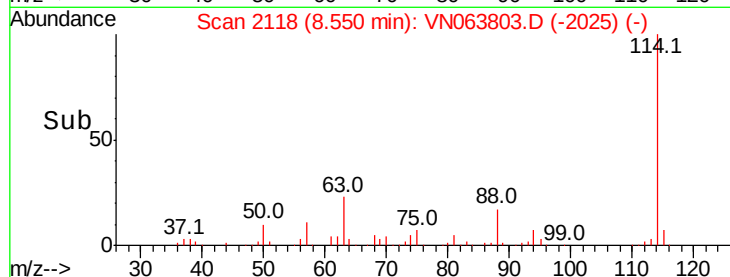
88 16.8 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 48.063 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

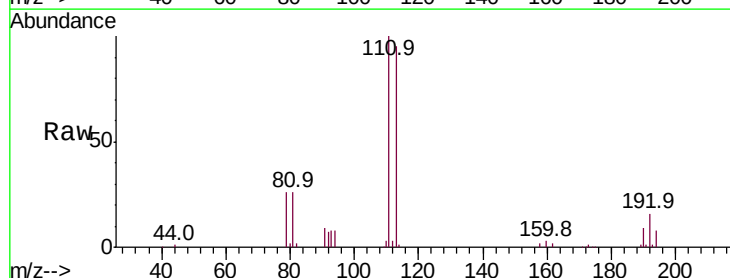
Tgt Ion:113 Resp: 127440

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

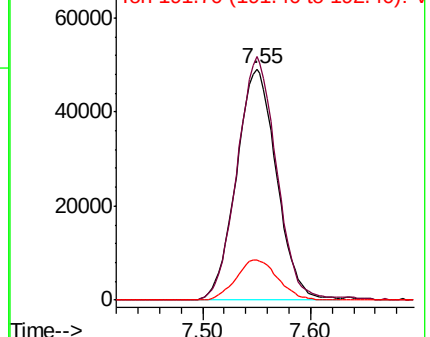
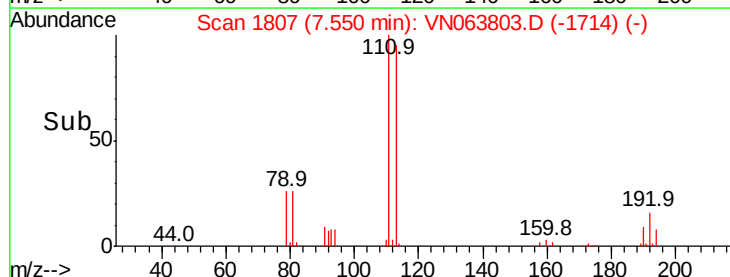
192 18.0 14.2 21.2

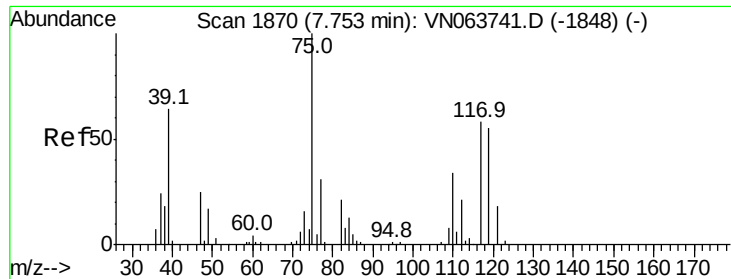


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.914 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

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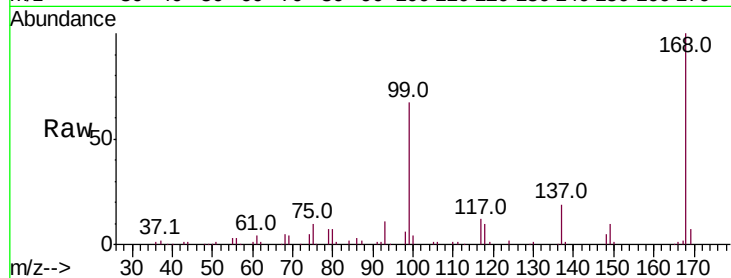
Tot Ion: 75 Resp: 19023

Ion Ratio Lower Upper

75 100

110 9.6 16.9 50.6#

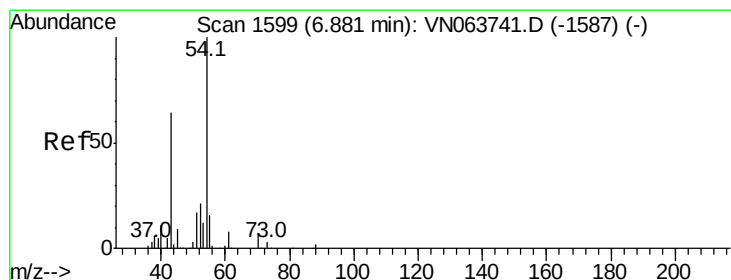
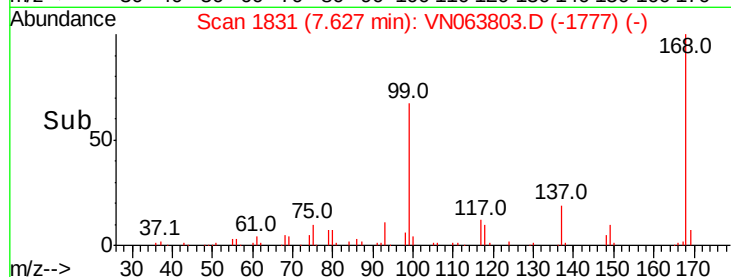
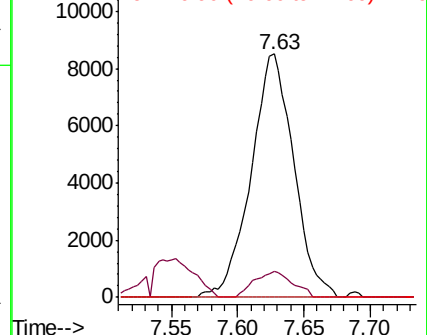
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.203 ug/l

RT: 6.89 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

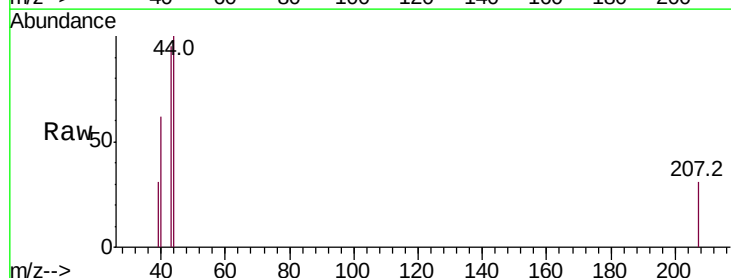
Tgt Ion: 43 Resp: 782

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

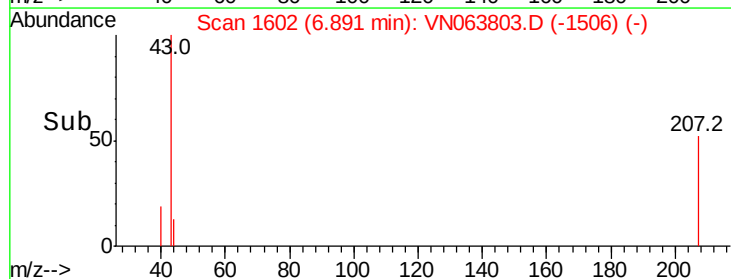
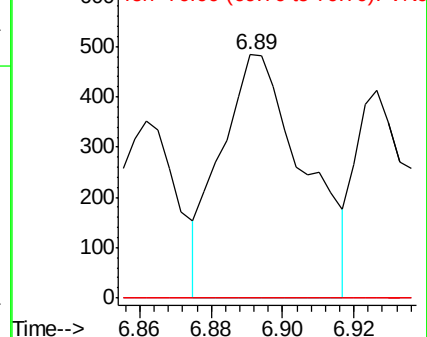
70 0.0 7.3 10.9#

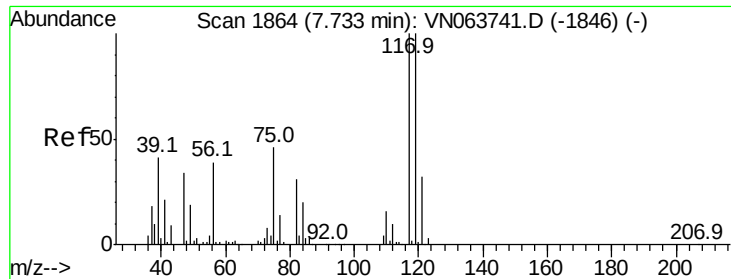


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

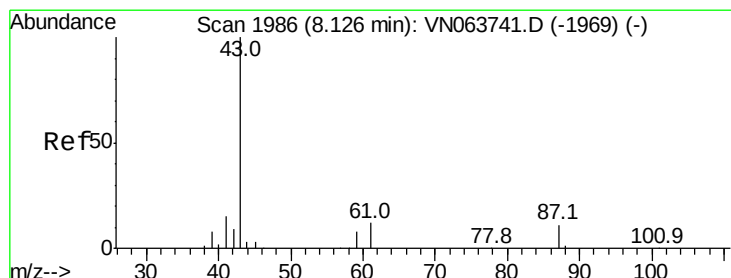
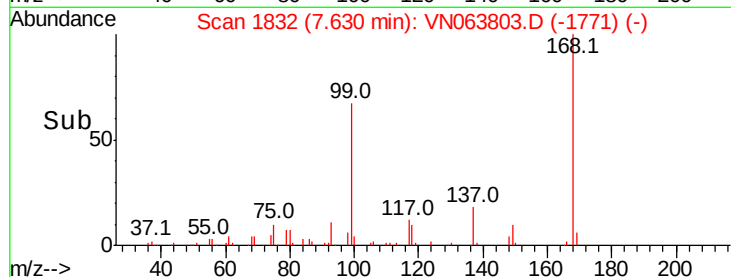
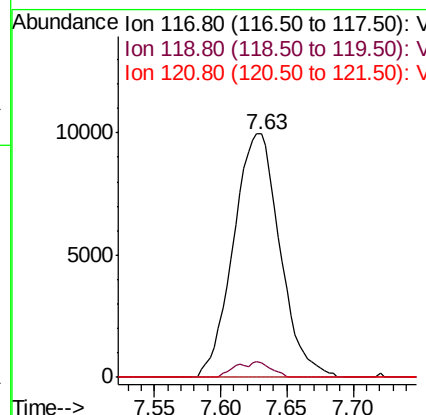
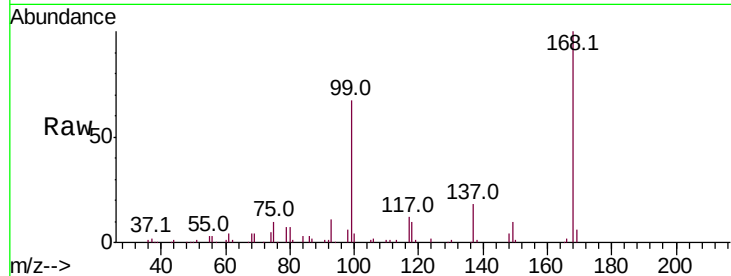




#38
Carbon Tetrachloride
Concen: 5.590 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

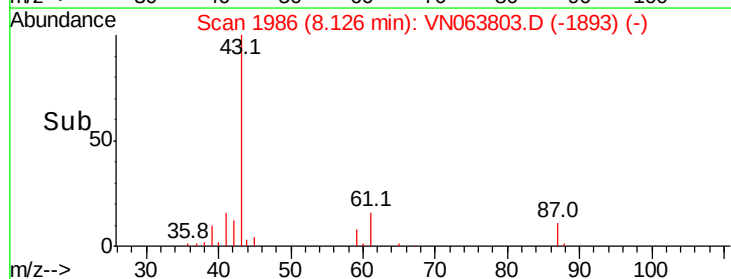
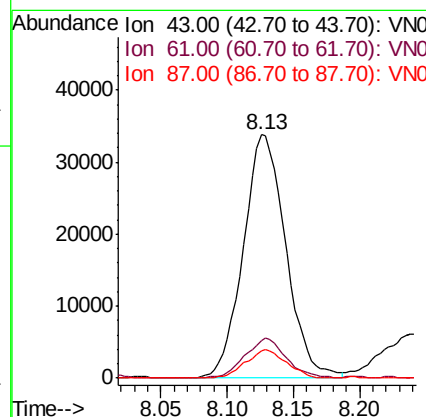
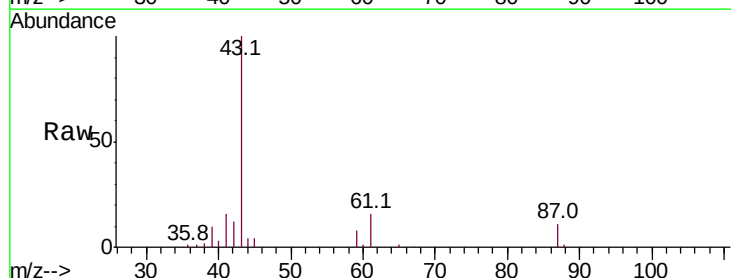
Instrument :
MSVOA_N
ClientSampleId :
PAV-B18-092920-DP

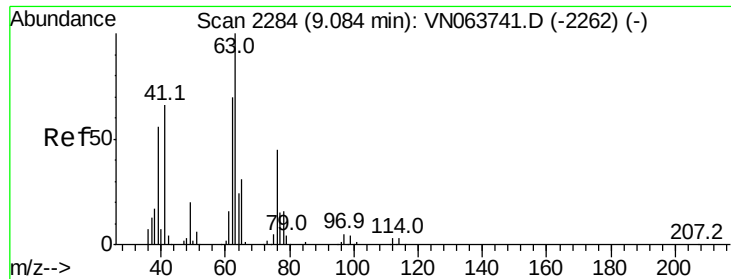
Tot Ion:117 Resp: 24269
Ion Ratio Lower Upper
117 100
119 6.1 80.1 120.1#
121 0.0 25.7 38.5#



#43
Isopropyl Acetate
Concen: 11.895 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN063803.D
Acq: 2 Oct 2020 4:56

Tgt Ion: 43 Resp: 75466
Ion Ratio Lower Upper
43 100
61 15.7 14.2 21.4
87 11.0 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.555 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

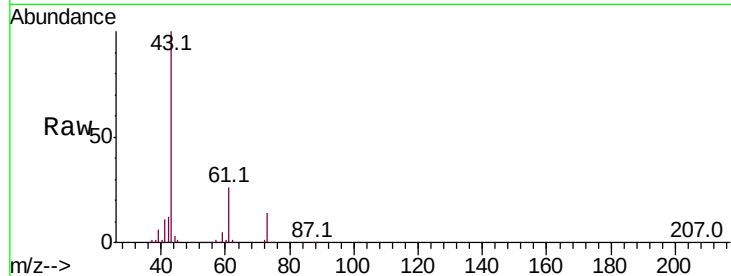
PAV-B18-092920-DP

Tot Ion: 63 Resp: 1656

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

800

600

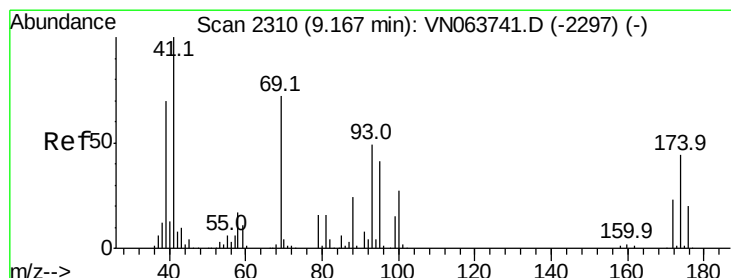
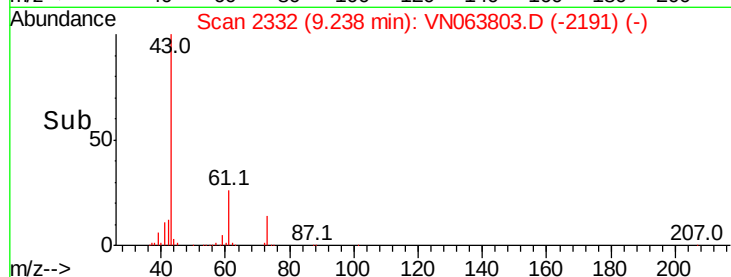
400

200

0

9.20 9.25

Time-->



#48

Methyl methacrylate

Concen: 1.483 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

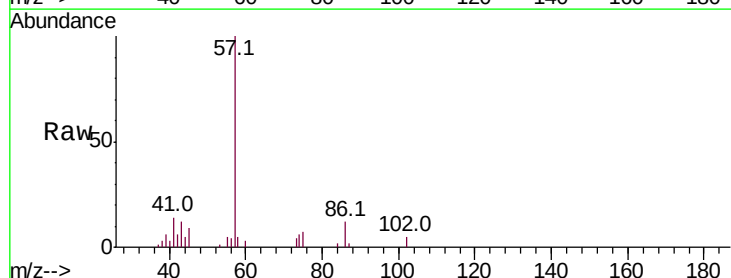
Tgt Ion: 41 Resp: 4648

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

39 0.0 57.5 86.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

50000

40000

30000

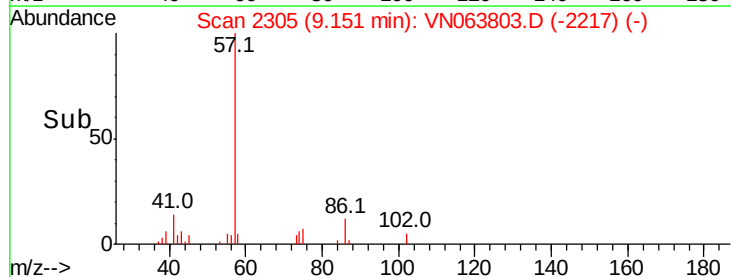
20000

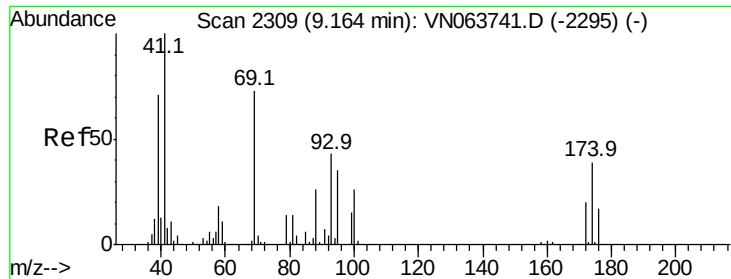
10000

0

9.10 9.15 9.20

Time-->





#49

1,4-Dioxane

Concen: 1.459 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-DP

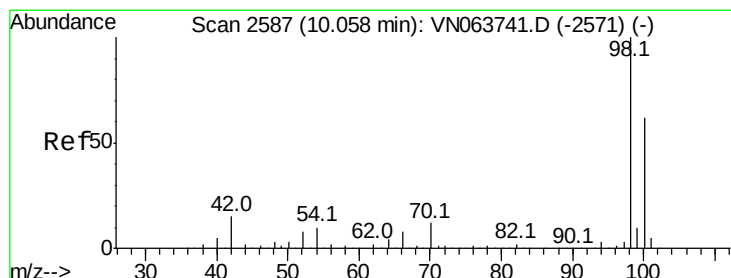
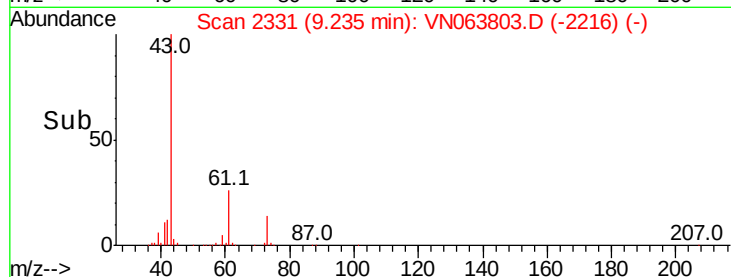
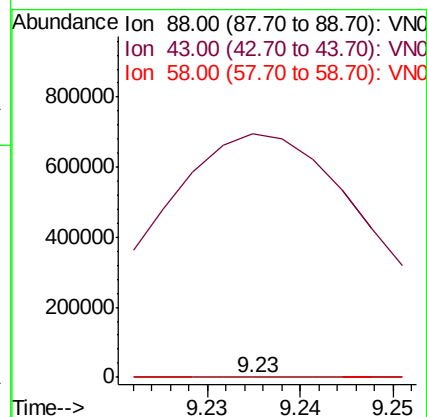
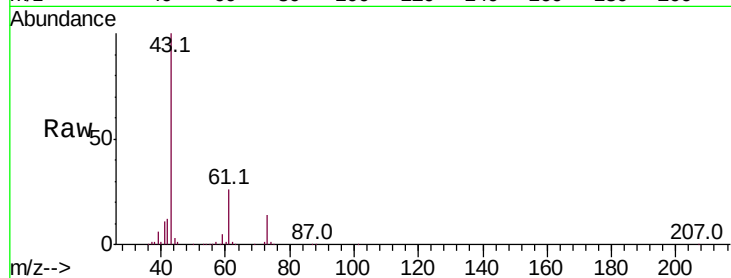
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 1976613.8 33.1 49.7#

58 9415.4 58.9 88.3#



#50

Toluene-d8

Concen: 49.092 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063803.D

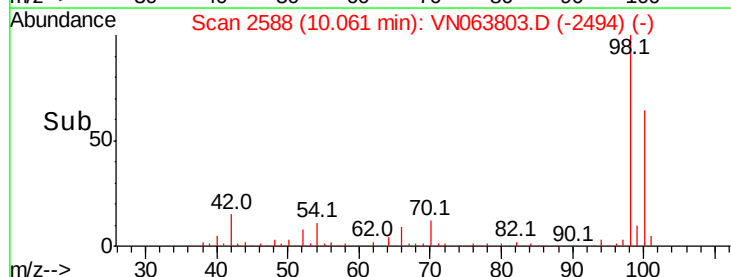
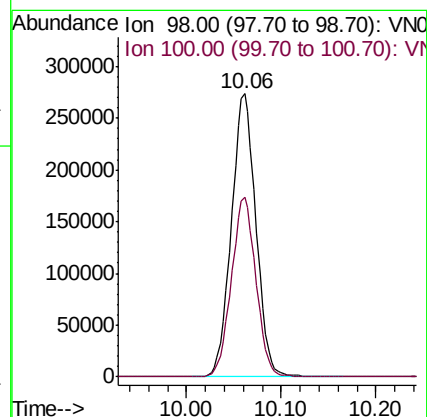
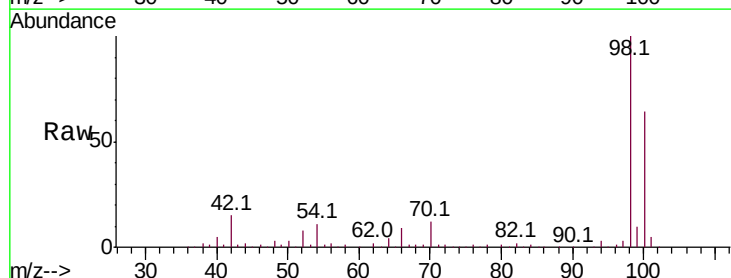
Acq: 2 Oct 2020 4:56

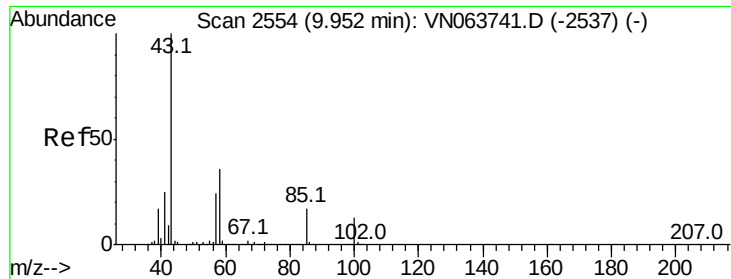
Tgt Ion: 98 Resp: 493456

Ion Ratio Lower Upper

98 100

100 63.4 49.8 74.6





#51

4-Methyl-2-Pentanone

Concen: 1.920 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

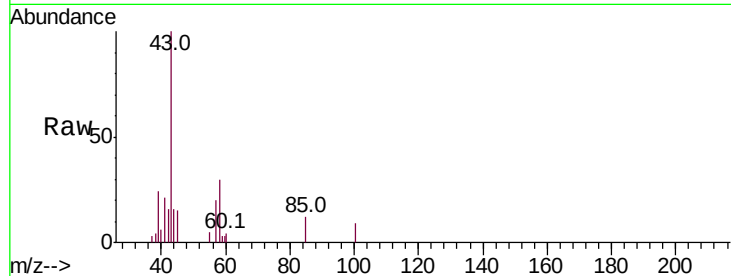
PAV-B18-092920-DP

Tot Ion: 43 Resp: 7149

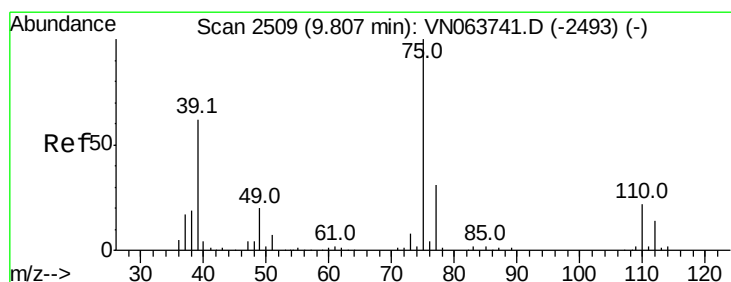
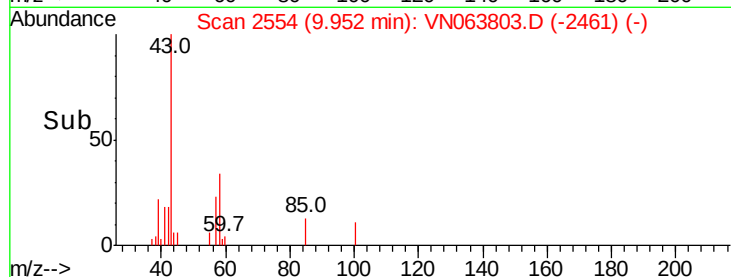
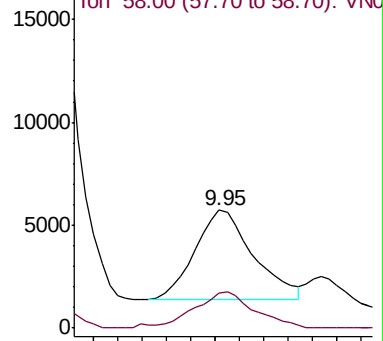
Ion Ratio Lower Upper

43 100

58 43.3 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063803.D (-2461) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.804 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

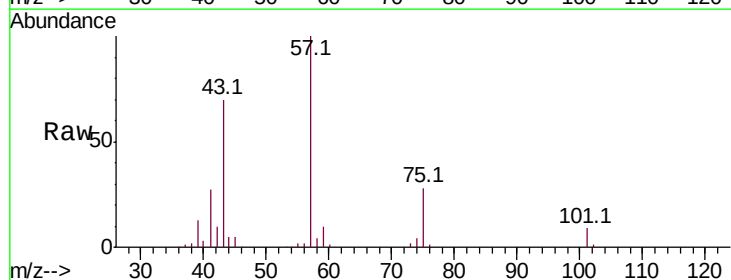
Tgt Ion: 75 Resp: 27625

Ion Ratio Lower Upper

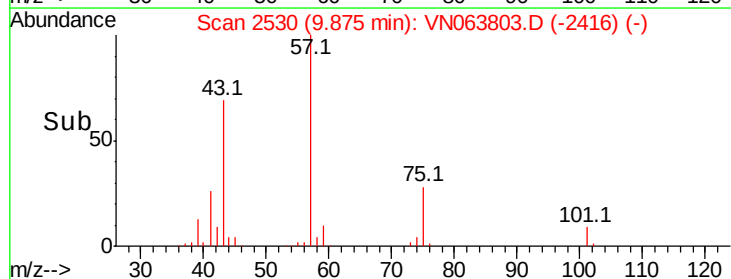
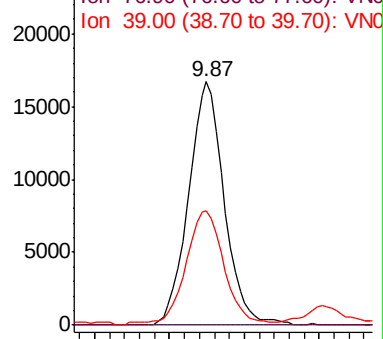
75 100

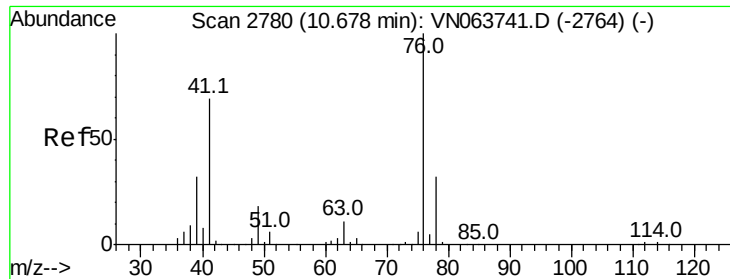
77 0.0 24.6 36.8#

39 45.7 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VN063803.D (-2416) (-)

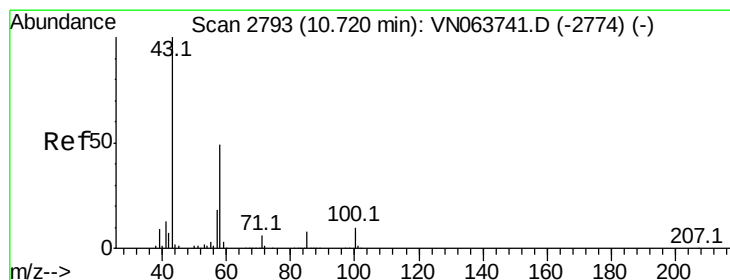
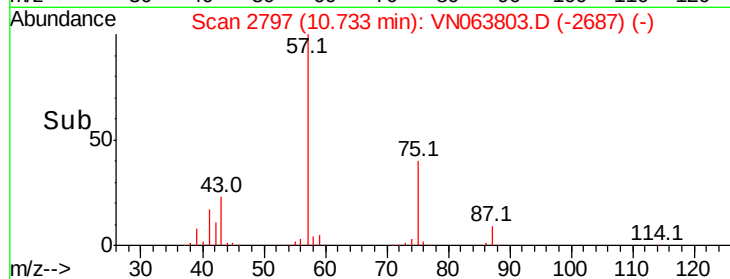
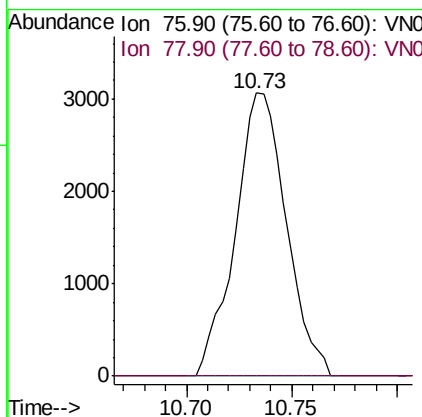
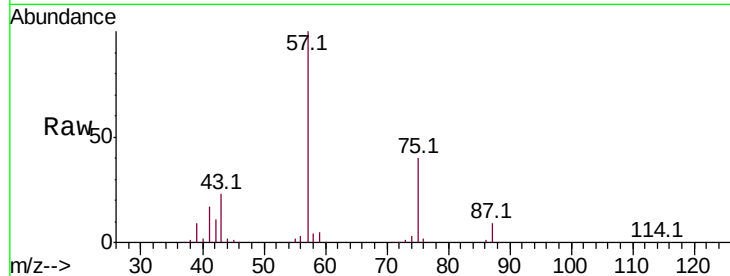




#57
 1,3-Dichloropropane
 Concen: 1.113 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN063803.D
 Acq: 2 Oct 2020 4:56

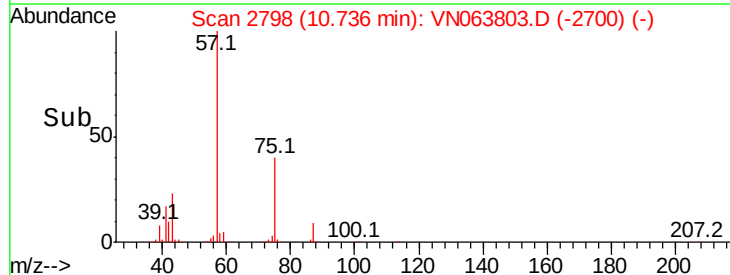
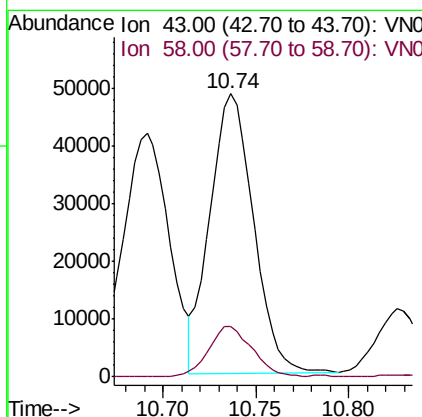
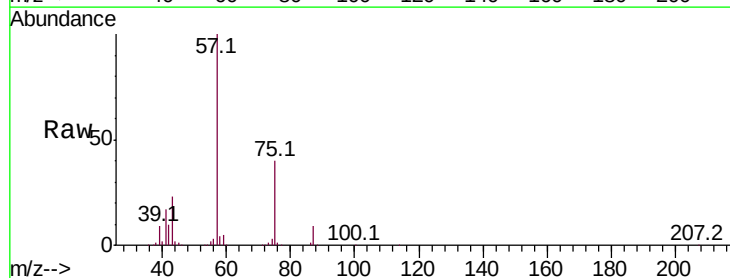
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B18-092920-DP

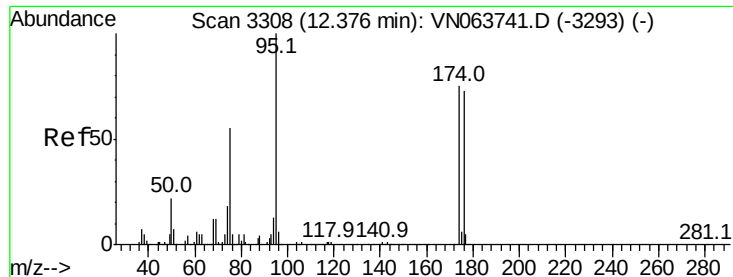
Tot Ion: 76 Resp: 5165
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 28.600 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063803.D
 Acq: 2 Oct 2020 4:56

Tgt Ion: 43 Resp: 79100
 Ion Ratio Lower Upper
 43 100
 58 18.0 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 50.923 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-DP

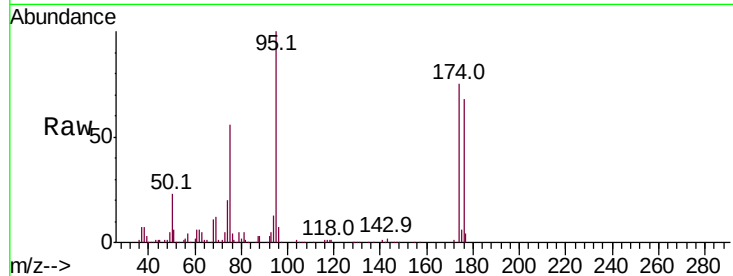
Tot Ion: 95 Resp: 192414

Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.6

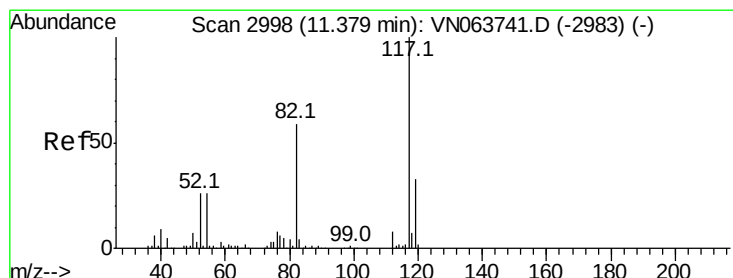
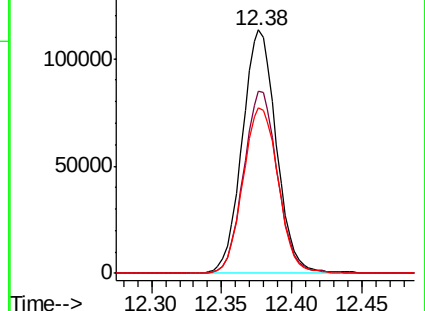
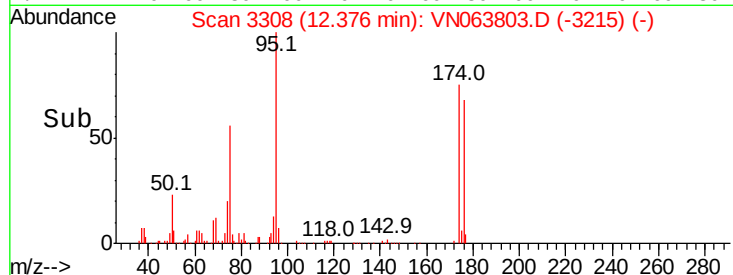
176 70.4 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063803.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063803.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063803.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

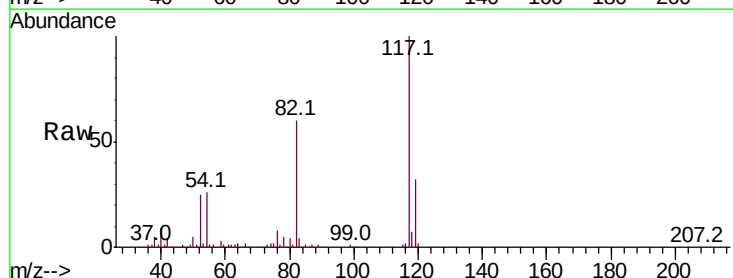
Tgt Ion: 117 Resp: 397061

Ion Ratio Lower Upper

117 100

82 59.5 47.4 71.2

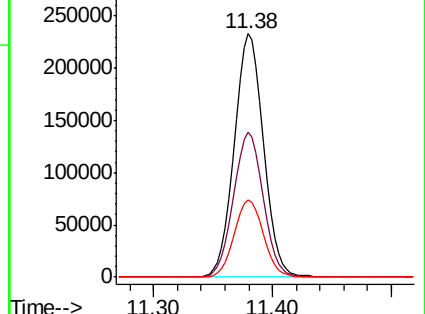
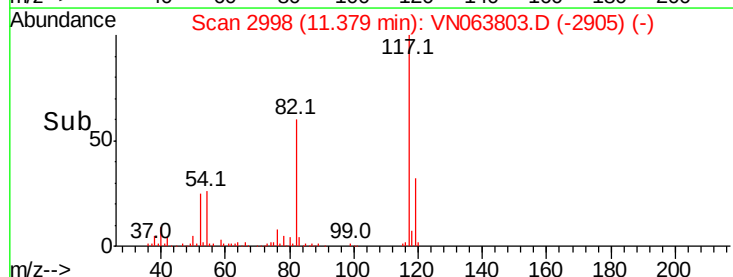
119 31.7 26.4 39.6

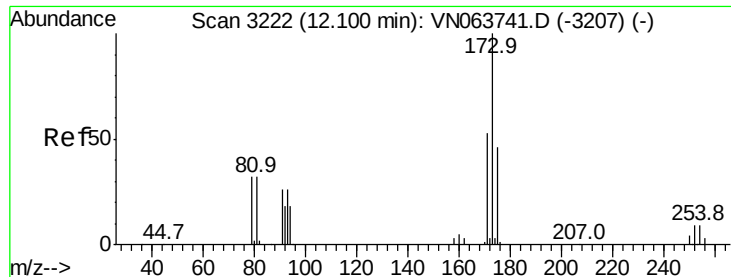


Abundance Ion 116.90 (116.60 to 117.60): VN063803.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063803.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063803.D (-2905) (-)





#71

Bromoform

Concen: 0.412 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-DP

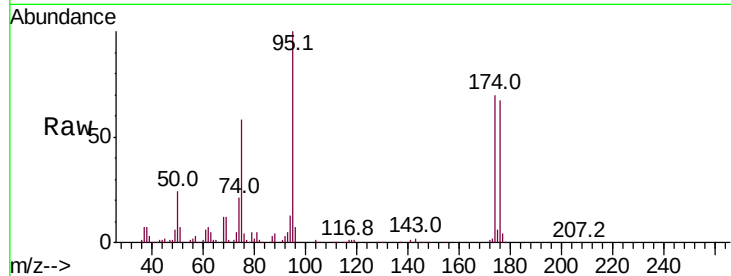
Tot Ion:173 Resp: 984

Ion Ratio Lower Upper

173 100

175 1026.1 23.5 70.5#

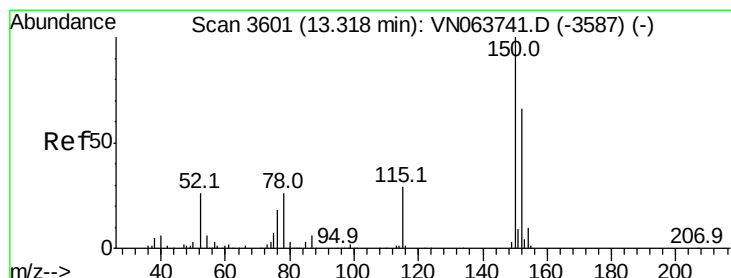
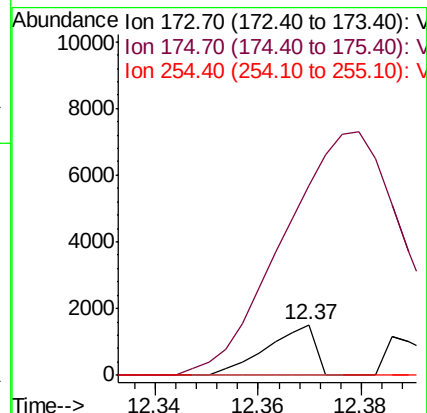
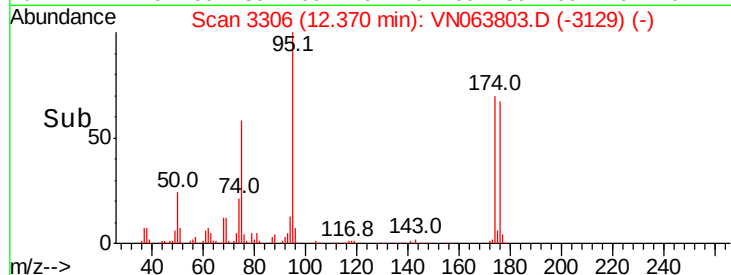
254 0.0 0.0 0.0



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: VN063803.D

Acq: 2 Oct 2020 4:56

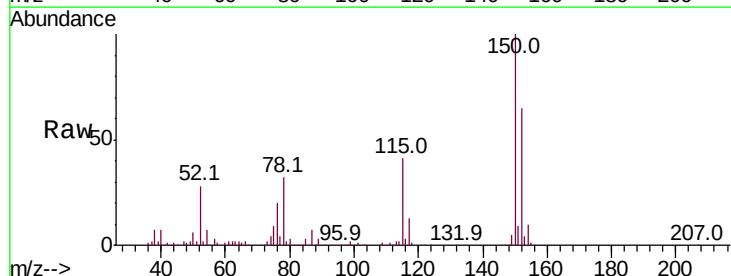
Tgt Ion:152 Resp: 161818

Ion Ratio Lower Upper

152 100

115 63.9 31.3 93.8

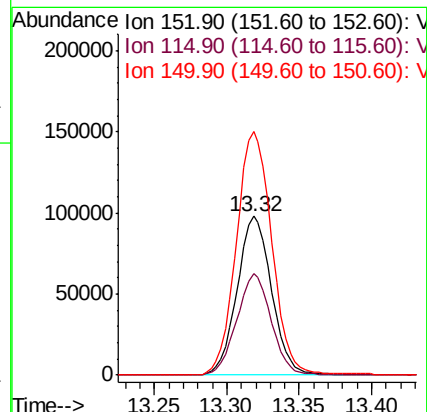
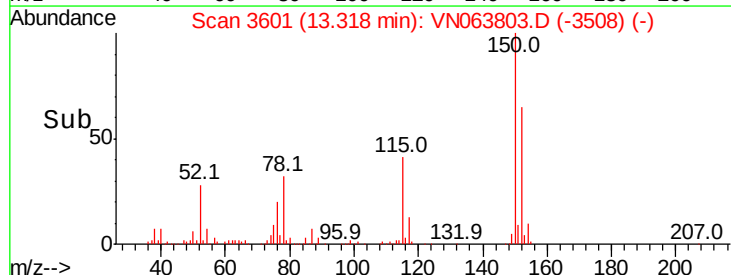
150 157.1 0.0 341.8

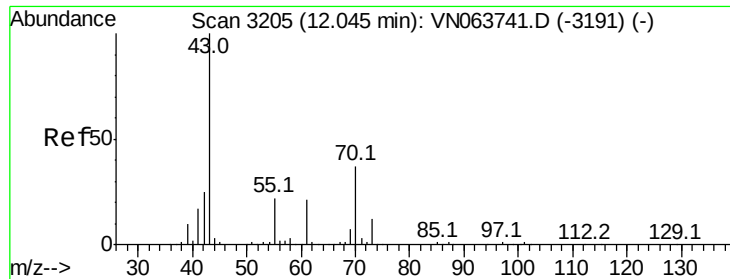


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 2.613 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-DP

Tot Ion: 43 Resp: 2281

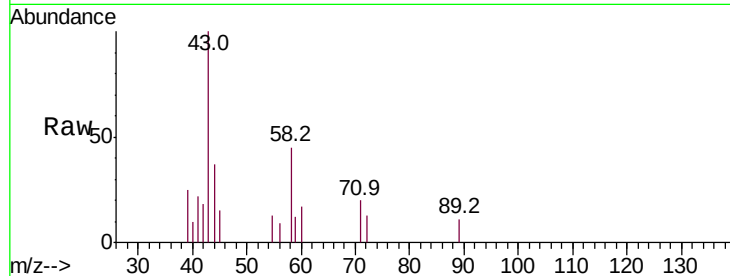
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 8.3 17.9 26.9#

61 0.0 17.0 25.4#

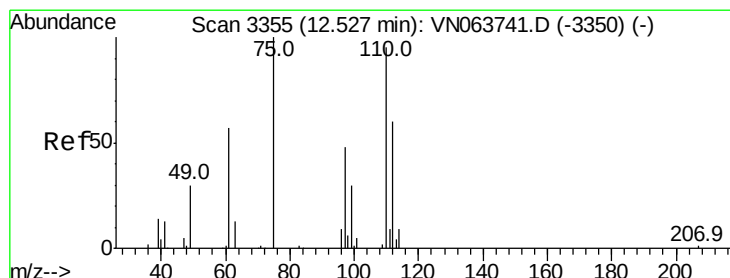
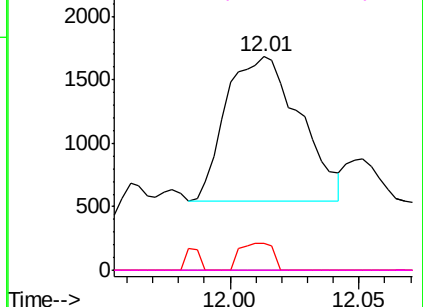
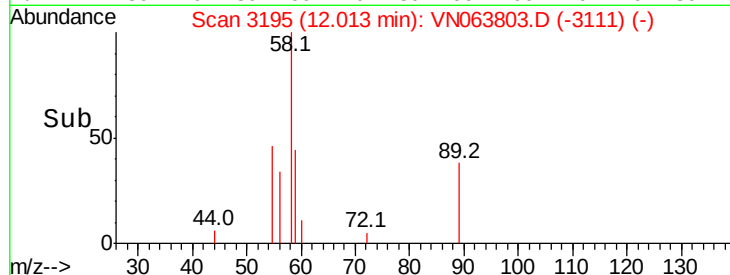


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.911 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063803.D

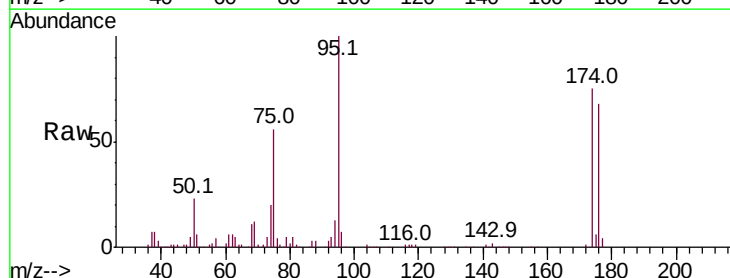
Acq: 2 Oct 2020 4:56

Tgt Ion: 75 Resp: 110262

Ion Ratio Lower Upper

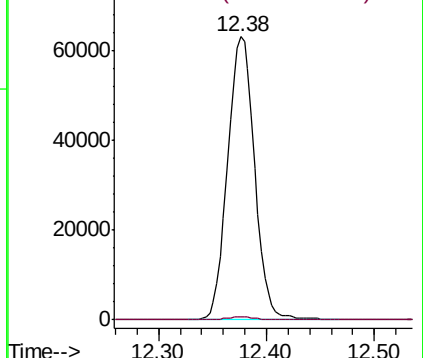
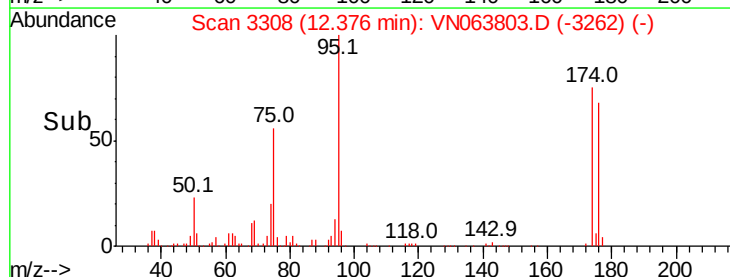
75 100

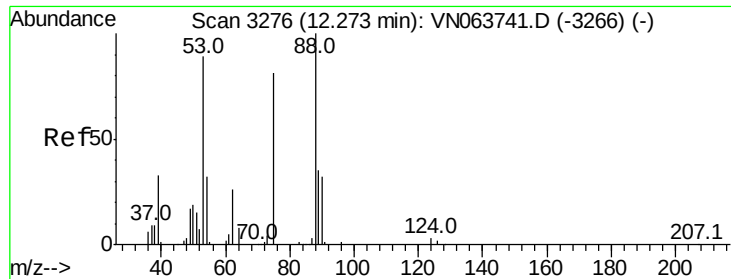
77 1.1 0.0 0.0#



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: 89.028 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-DP

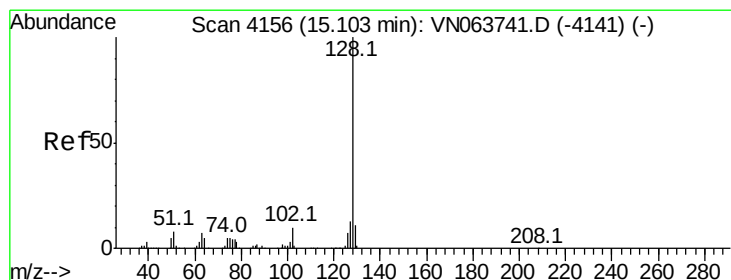
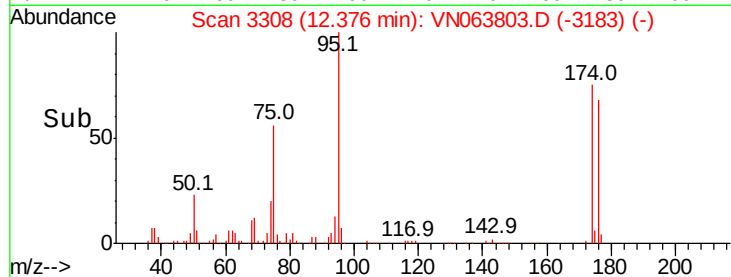
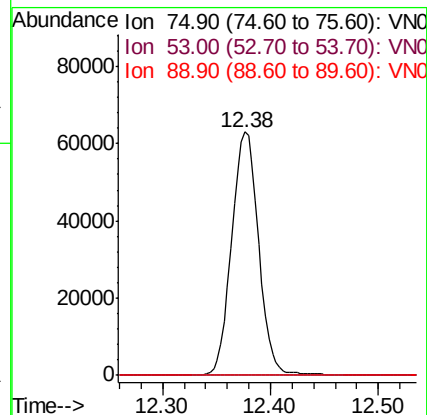
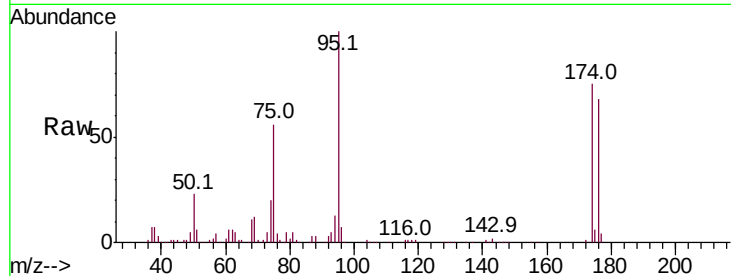
Tot Ion: 75 Resp: 110262

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#



#95

Naphthalene

Concen: 1.936 ug/l

RT: 15.12 min Scan# 4160

Delta R.T. 0.01 min

Lab File: VN063803.D

Acq: 2 Oct 2020 4:56

Tgt Ion: 128 Resp: 106

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#

