

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063926.D
 Acq On : 7 Oct 2020 5:30
 Operator : JC/MD
 Sample : L4260-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B21-100220-0-1

Quant Time: Oct 07 06:29:30 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	231624	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	426515	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	449569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	181668	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	204904	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
35) Dibromofluoromethane	7.55	113	146639	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
50) Toluene-d8	10.06	98	562198	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	12.38	95	215341	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	

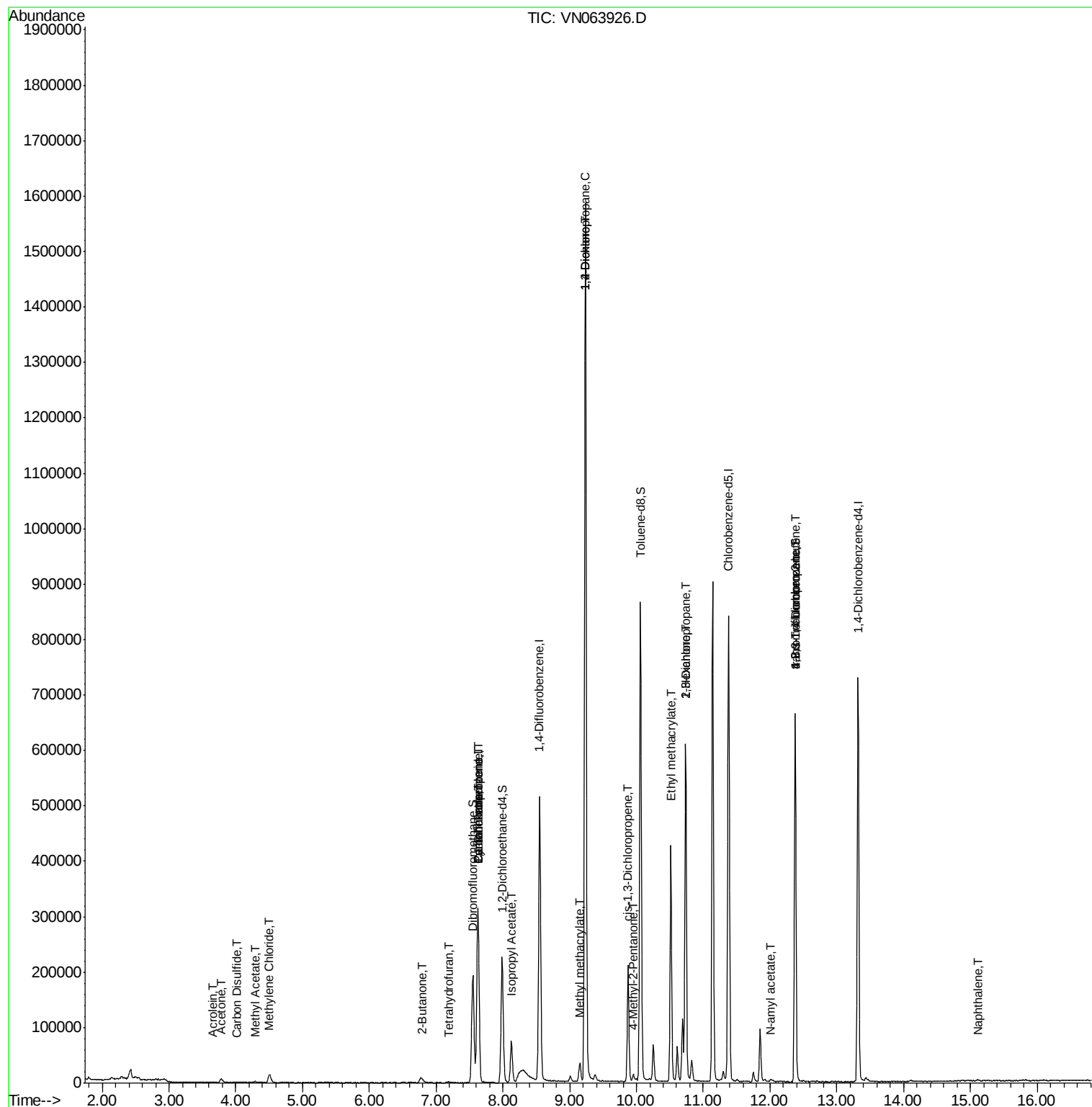
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.65	56	59	0.228	ug/l #	14
16) Acetone	3.78	43	13313	11.302	ug/l	92
17) Carbon Disulfide	4.01	76	607	0.796	ug/l #	76
18) Methyl Acetate	4.28	43	3544	1.159	ug/l #	77
20) Methylene Chloride	4.50	84	4444	1.742	ug/l	96
25) 2-Butanone	6.80	43	1741	1.042	ug/l	95
29) Tetrahydrofuran	7.19	42	1212	1.082	ug/l #	63
31) Cyclohexane	7.62	56	6453	1.453	ug/l #	6
36) 1,1-Dichloropropene	7.63	75	20906	4.838	ug/l #	51
38) Carbon Tetrachloride	7.63	117	25884	5.342	ug/l #	15
43) Isopropyl Acetate	8.13	43	88303	12.470	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1834	0.550	ug/l #	44
48) Methyl methacrylate	9.15	41	5841	1.670	ug/l #	12
49) 1,4-Dioxane	9.25	88	29	0.583	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	8905	2.143	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	33666	6.337	ug/l #	68
56) Ethyl methacrylate	10.52	69	2278	0.525	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5907	1.140	ug/l #	43
59) 2-Hexanone	10.74	43	97429	31.561	ug/l #	55
74) N-amyl acetate	12.01	43	3564	2.769	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	120682	30.135	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	120682	86.794	ug/l #	6
95) Naphthalene	15.11	128	1854	2.106	ug/l #	90

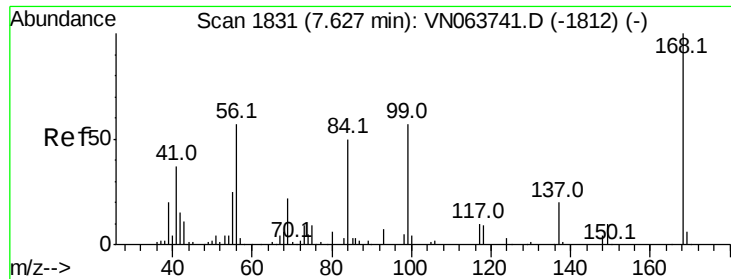
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

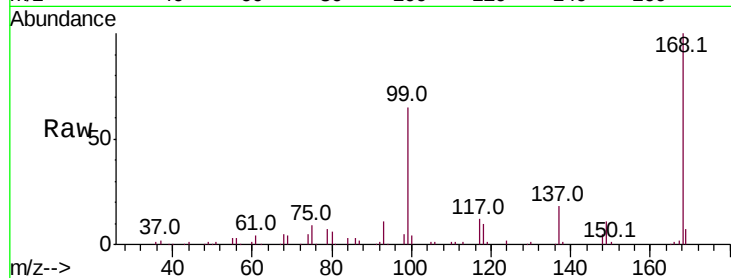
PAV-B21-100220-0-1

Tot Ion:168 Resp: 231624

Ion Ratio Lower Upper

168 100

99 64.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

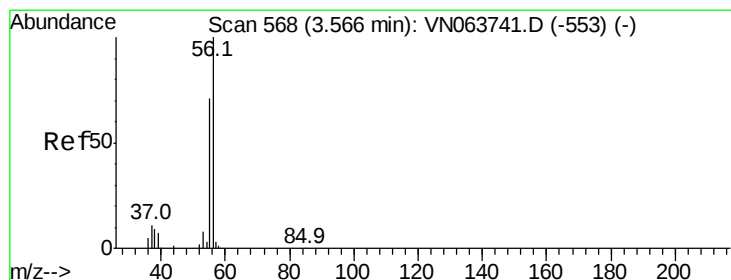
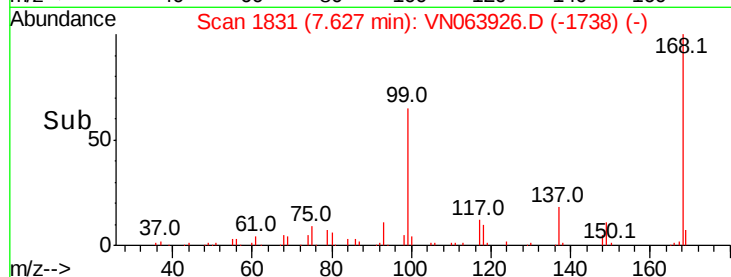
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#13

Acrolein

Concen: 0.228 ug/l

RT: 3.65 min Scan# 593

Delta R.T. 0.08 min

Lab File: VN063926.D

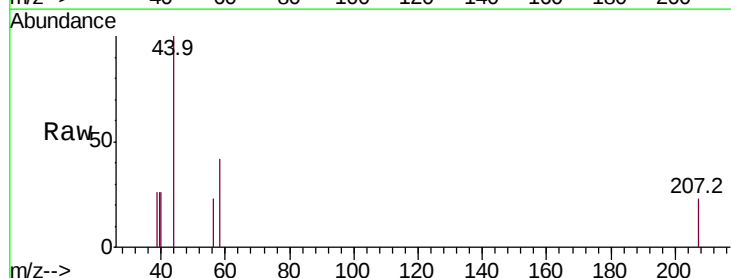
Acq: 7 Oct 2020 5:30

Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.65

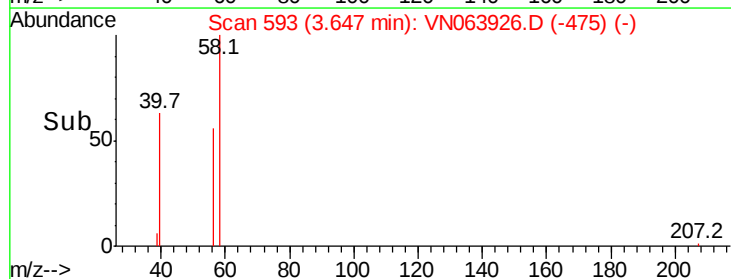
150

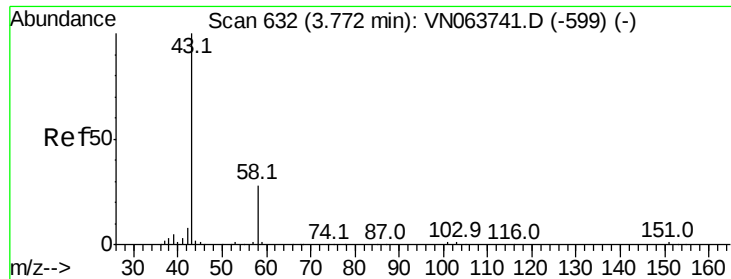
100

50

0

Time--> 3.64 3.65 3.66





#16

Acetone

Concen: 11.302 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

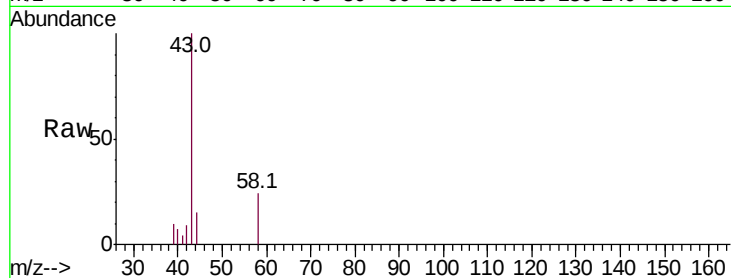
PAV-B21-100220-0-1

Tot Ion: 43 Resp: 13313

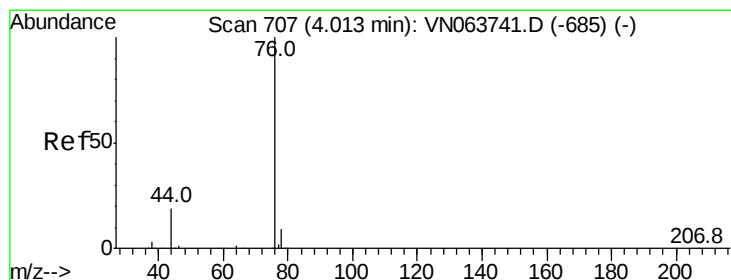
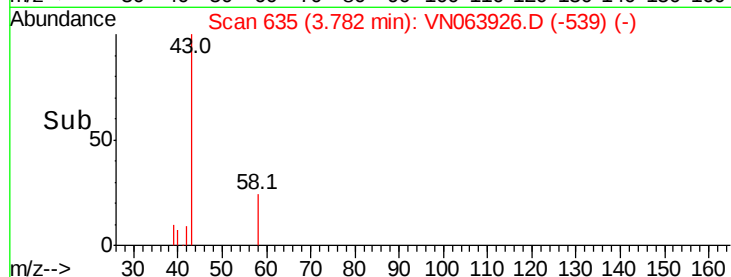
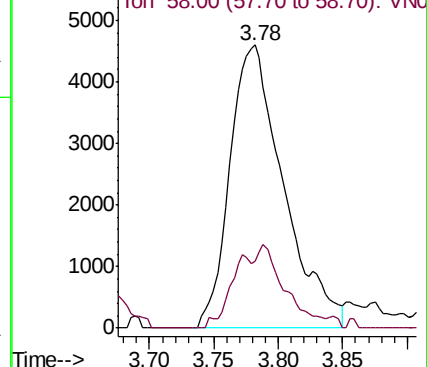
Ion Ratio Lower Upper

43 100

58 23.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063926.D (-635) (-)



#17

Carbon Disulfide

Concen: 0.796 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063926.D

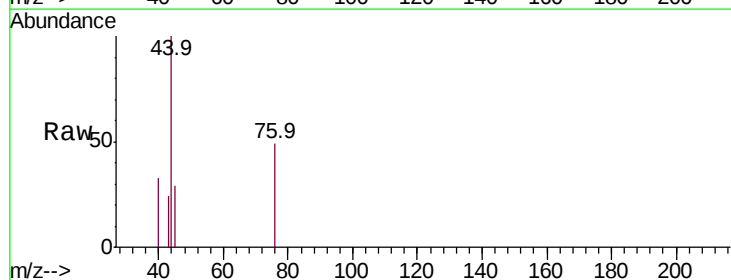
Acq: 7 Oct 2020 5:30

Tgt Ion: 76 Resp: 607

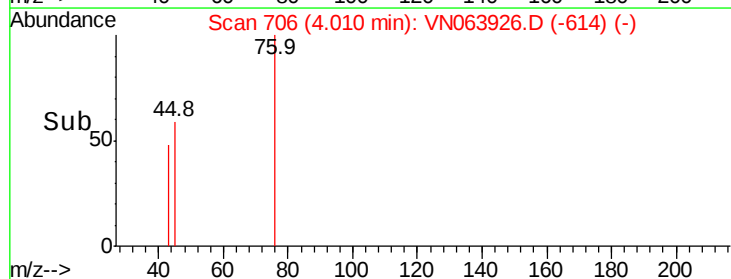
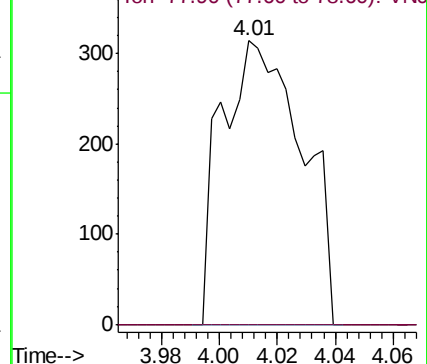
Ion Ratio Lower Upper

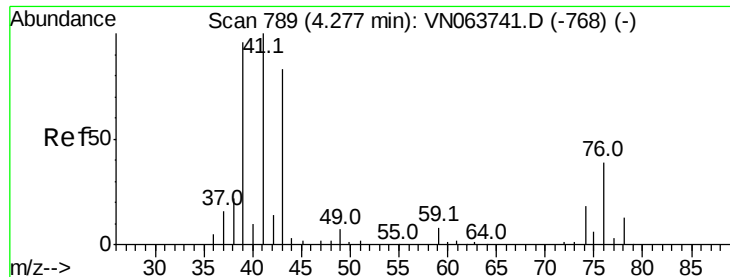
76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063926.D (-706) (-)

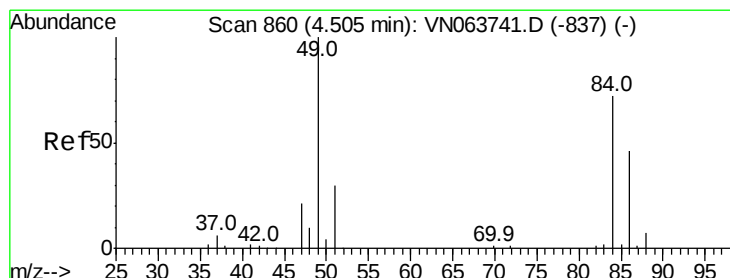
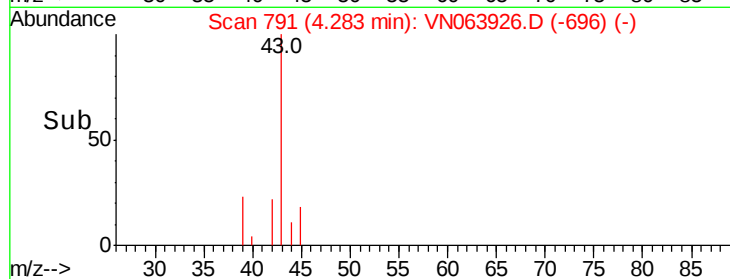
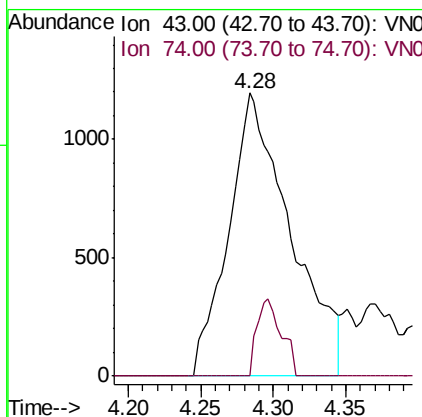
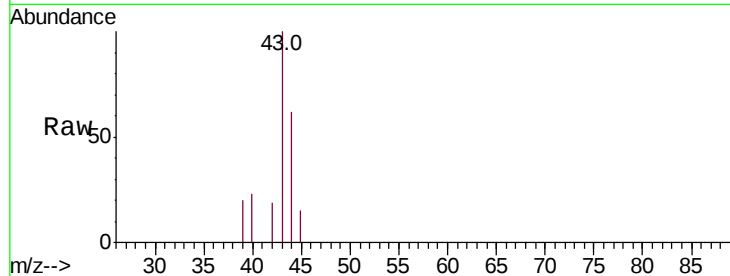




#18
Methvl Acetate
Concen: 1.159 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063926.D
Acq: 7 Oct 2020 5:30

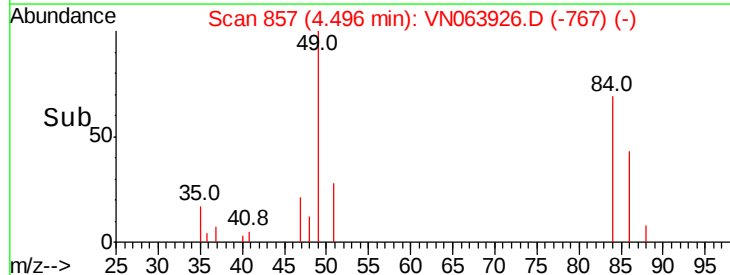
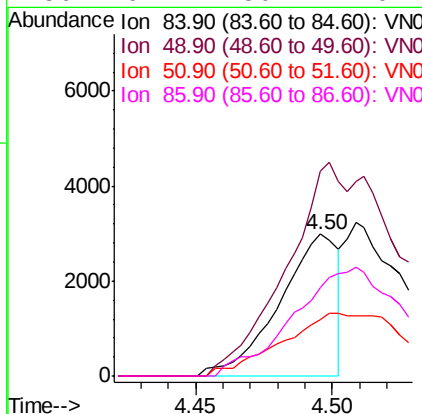
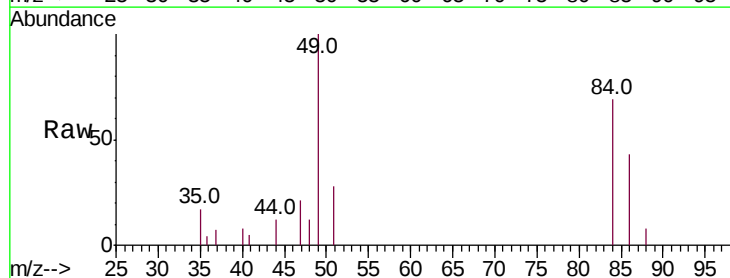
Instrument :
MSVOA_N
ClientSampleId :
PAV-B21-100220-0-1

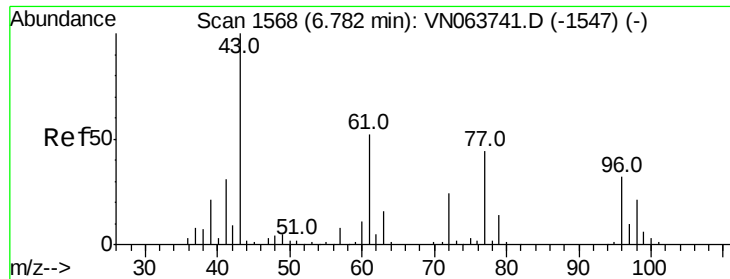
Tot Ion: 43 Resp: 3544
Ion Ratio Lower Upper
43 100
74 10.8 17.4 26.2#



#20
Methylene Chloride
Concen: 1.742 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN063926.D
Acq: 7 Oct 2020 5:30

Tgt Ion: 84 Resp: 4444
Ion Ratio Lower Upper
84 100
49 144.1 110.4 165.6
51 39.8 33.3 49.9
86 62.2 50.7 76.1

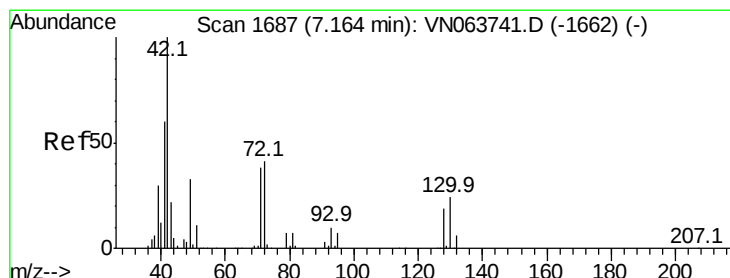
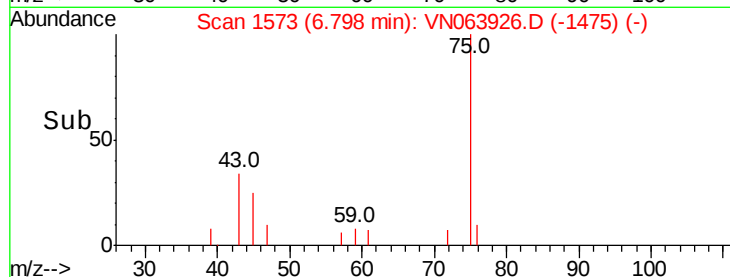
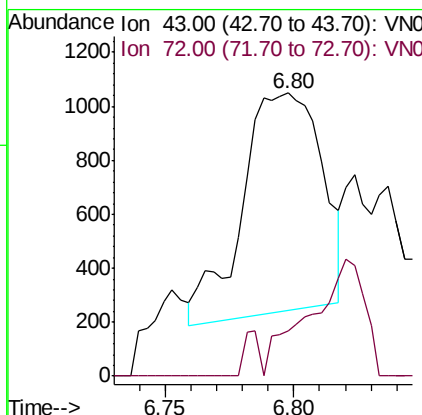
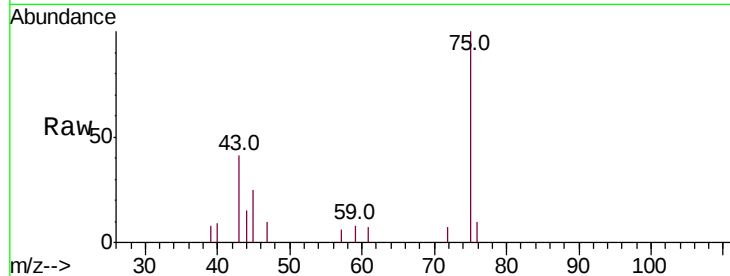




#25
2-Butanone
Concen: 1.042 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063926.D
Acq: 7 Oct 2020 5:30

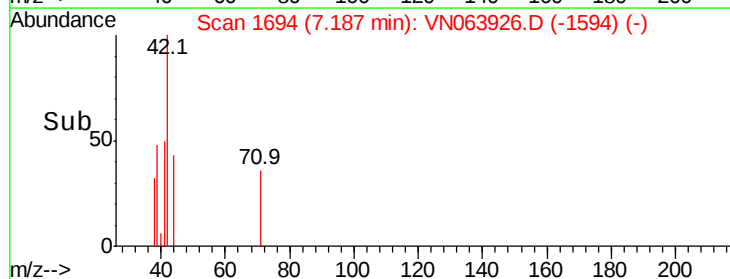
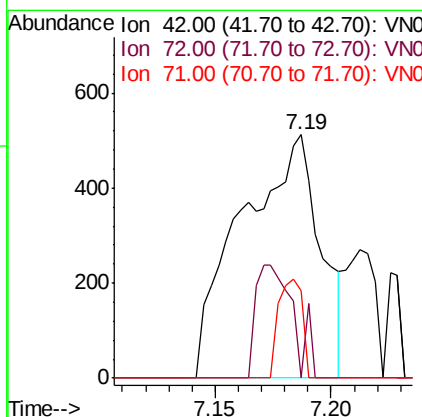
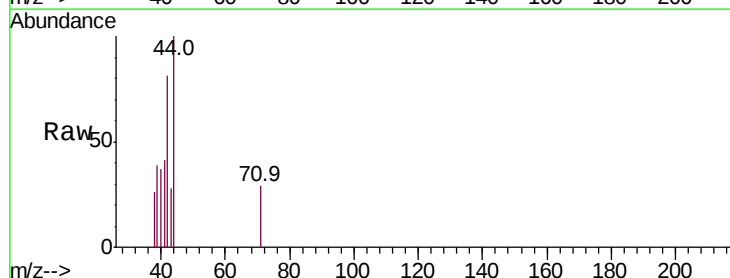
Instrument :
MSVOA_N
ClientSampleId :
PAV-B21-100220-0-1

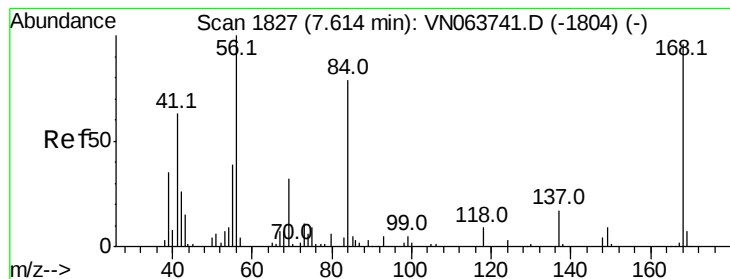
Tot Ion: 43 Resp: 1741
Ion Ratio Lower Upper
43 100
72 21.8 19.3 28.9



#29
Tetrahydrofuran
Concen: 1.082 ug/l
RT: 7.19 min Scan# 1694
Delta R.T. 0.02 min
Lab File: VN063926.D
Acq: 7 Oct 2020 5:30

Tgt Ion: 42 Resp: 1212
Ion Ratio Lower Upper
42 100
72 22.0 32.8 49.2#
71 11.9 30.6 45.8#





#31

Cyclohexane

Concen: 1.453 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

PAV-B21-100220-0-1

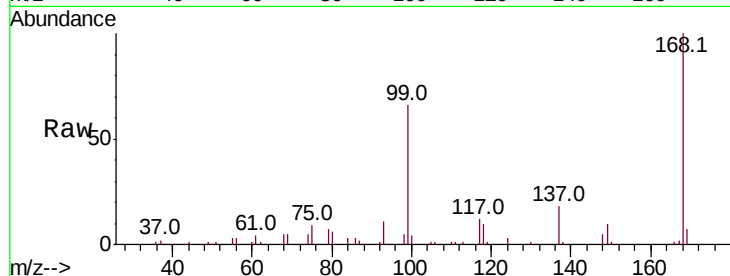
Tot Ion: 56 Resp: 6453

Ion Ratio Lower Upper

56 100

69 172.1 25.4 38.2#

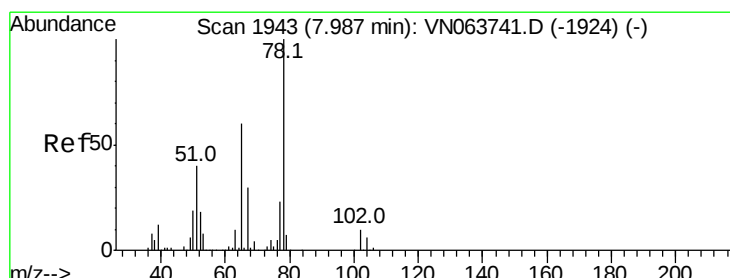
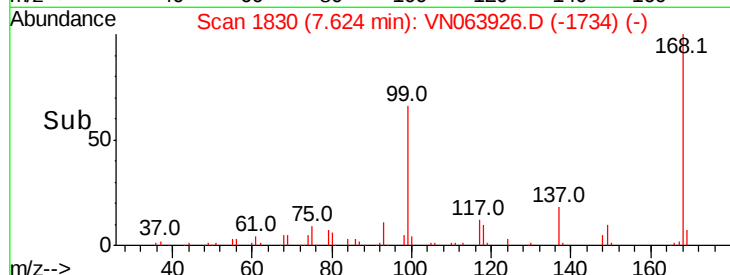
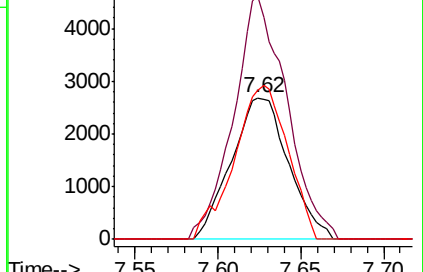
84 105.5 63.3 94.9#



Abundance Ion 56.00 (55.70 to 56.70): VN063926.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN063926.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN063926.D (-1734) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.547 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063926.D

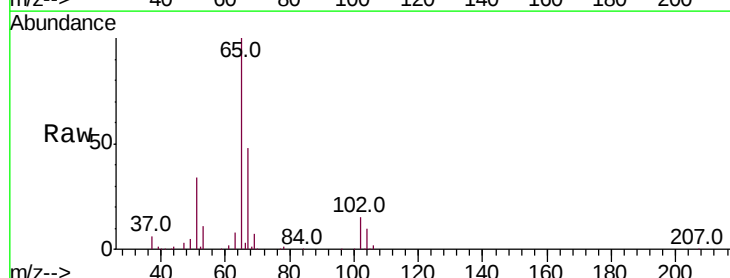
Acq: 7 Oct 2020 5:30

Tgt Ion: 65 Resp: 204904

Ion Ratio Lower Upper

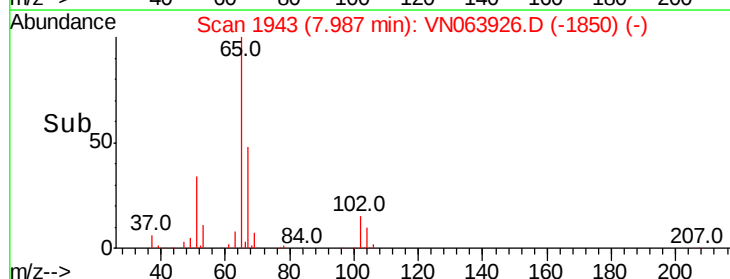
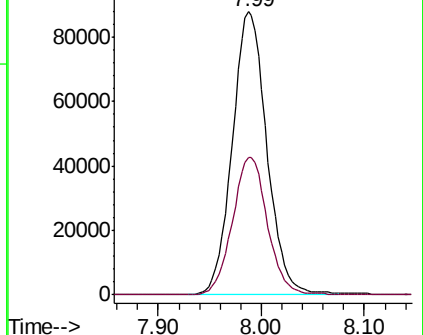
65 100

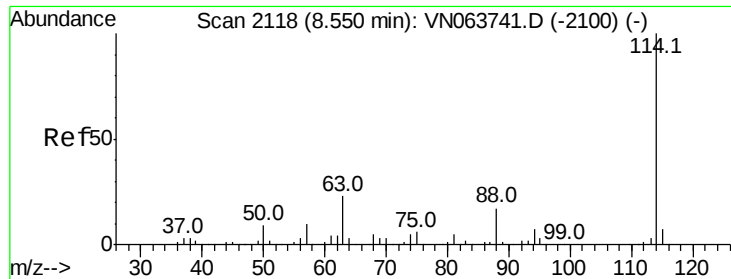
67 49.3 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063926.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063926.D (-1850) (-)

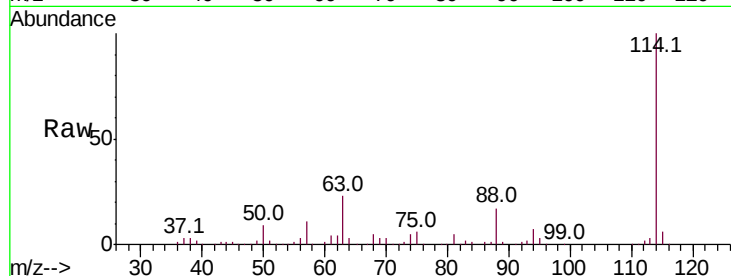




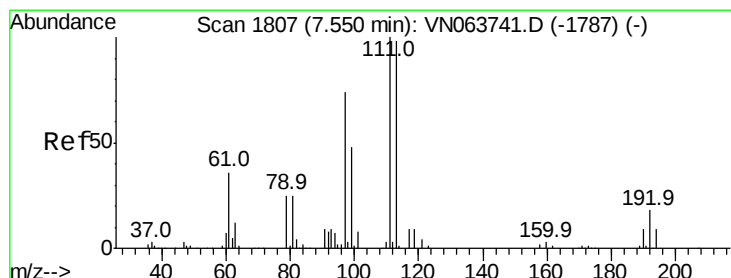
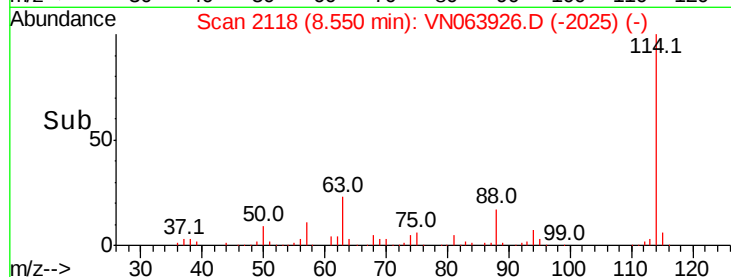
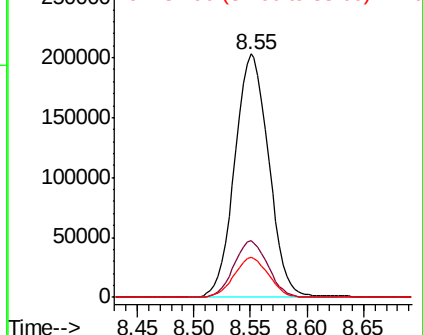
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

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 PAV-B21-100220-0-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	45.0
88	16.6	0.0	34.0

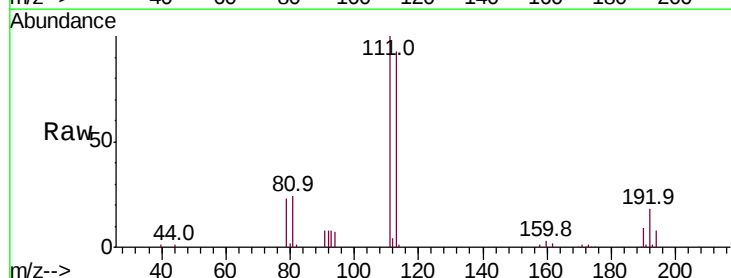


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

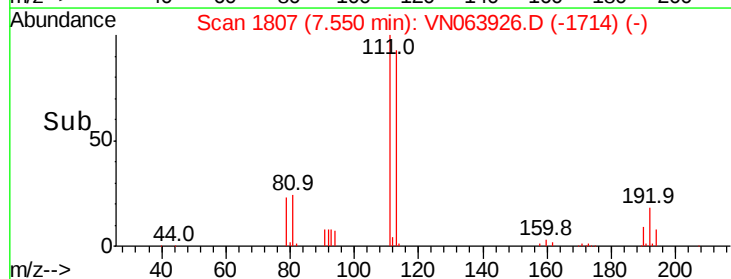
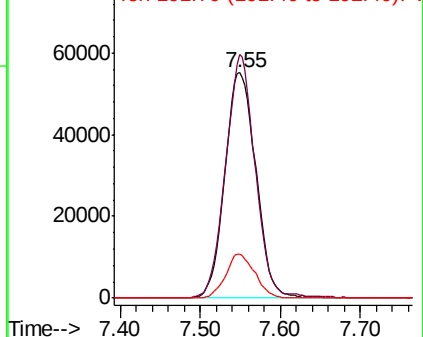


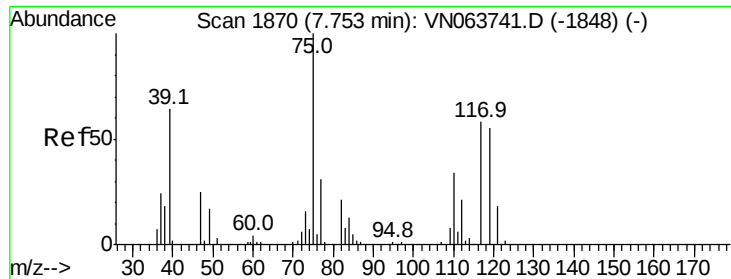
#35
 Dibromofluoromethane
 Concen: 49.549 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	18.3	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

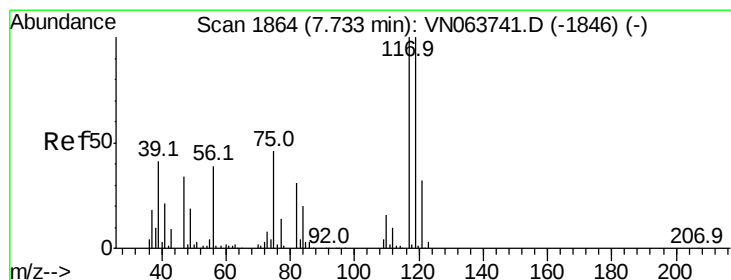
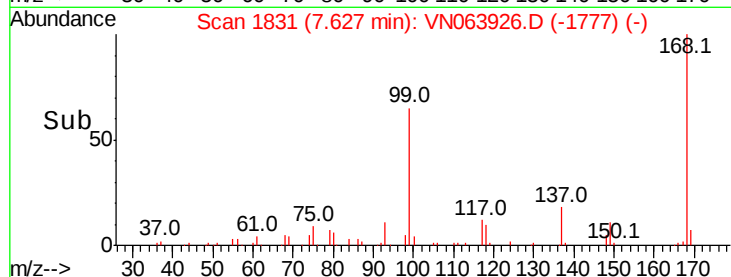
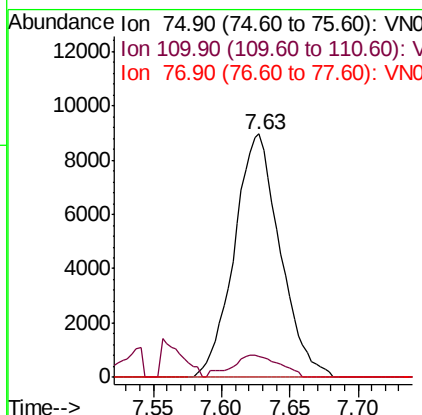
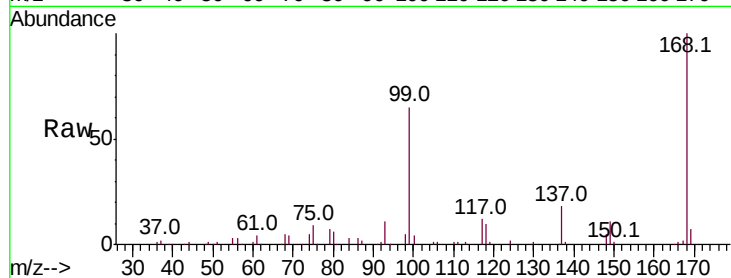




#36
 1,1-Dichloropropene
 Concen: 4.838 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

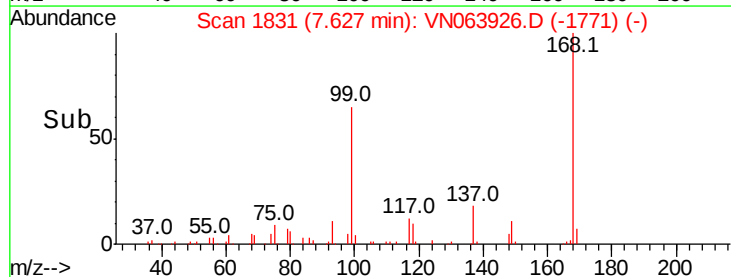
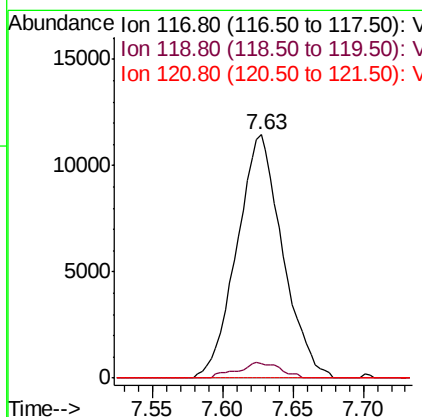
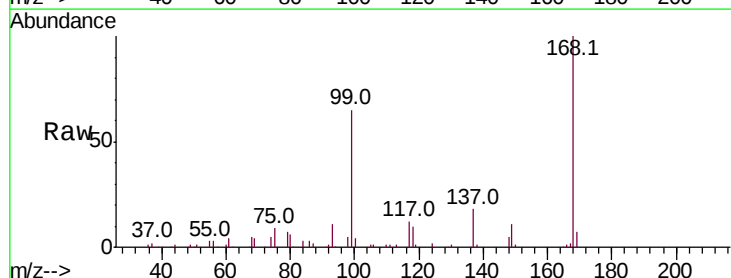
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B21-100220-0-1

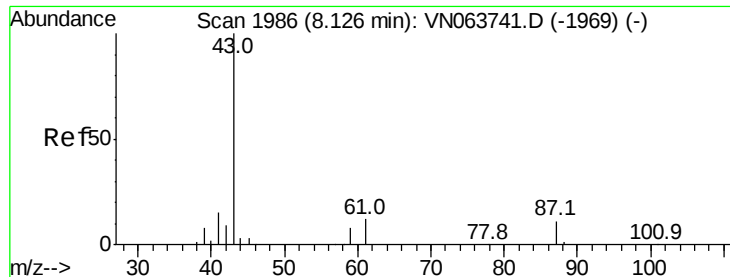
Tot Ion: 75 Resp: 20906
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.342 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

Tgt Ion: 117 Resp: 25884
 Ion Ratio Lower Upper
 117 100
 119 6.0 80.1 120.1#
 121 0.0 25.7 38.5#



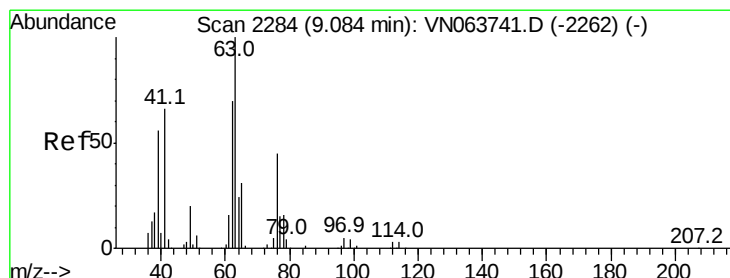
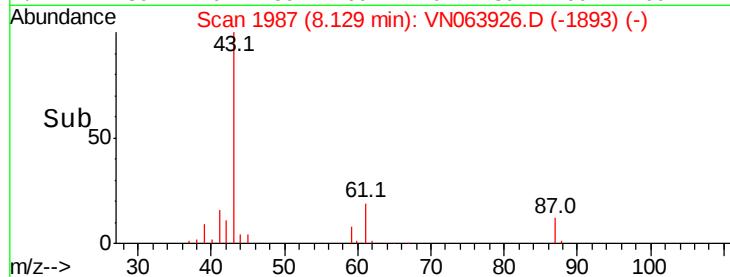
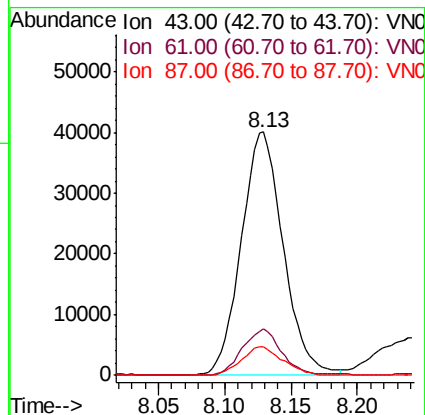
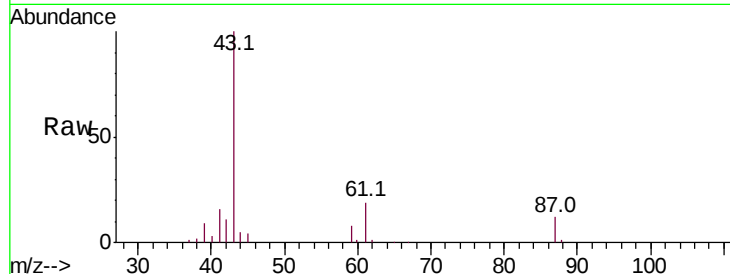


#43

Isopropyl Acetate
 Concen: 12.470 ug/l
 RT: 8.13 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B21-100220-0-1

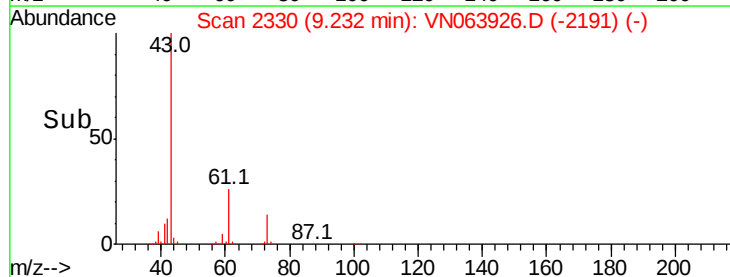
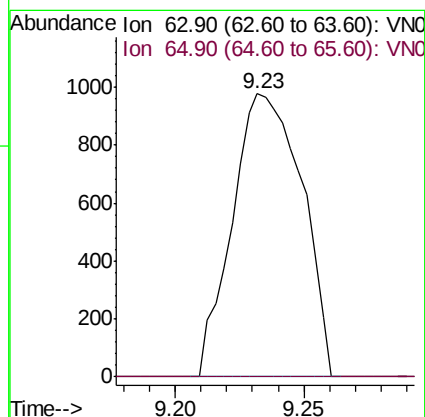
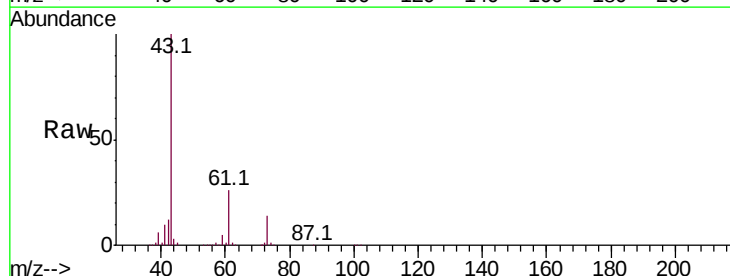
Tot Ion	43	Resp	88303
Ion Ratio	100		
Lower	14.2		
Upper	21.4		
61	17.6		
87	11.4		
	9.0		

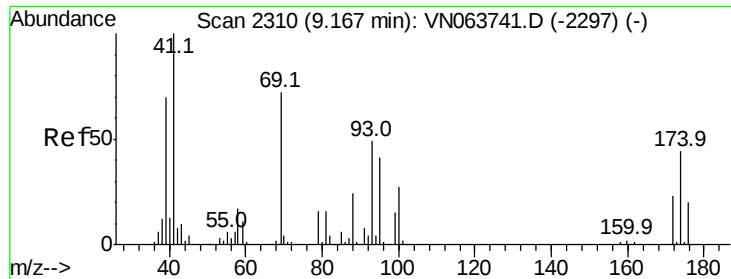


#45

1,2-Dichloropropane
 Concen: 0.550 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

Tgt Ion	63	Resp	1834
Ion Ratio	100		
Lower	24.7		
Upper	37.1		
65	0.0		

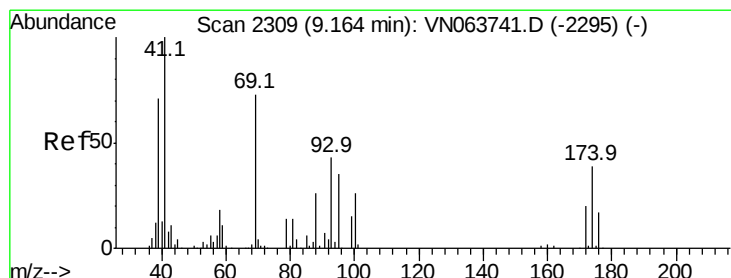
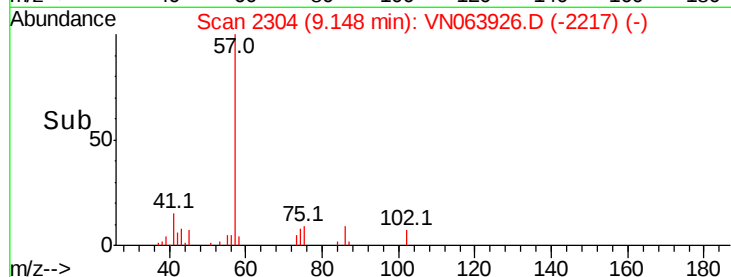
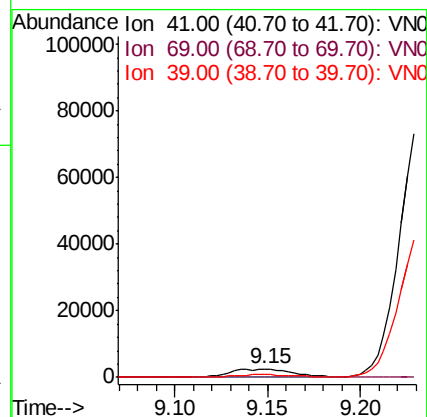
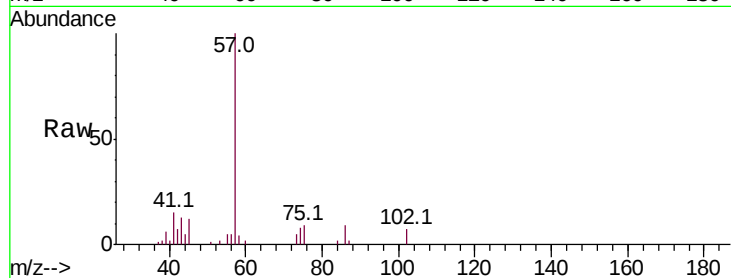




#48
Methyl methacrylate
Concen: 1.670 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063926.D
Acq: 7 Oct 2020 5:30

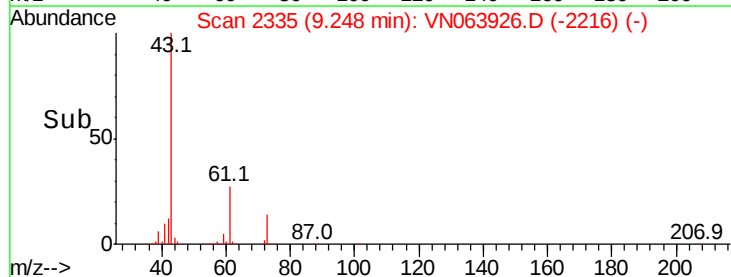
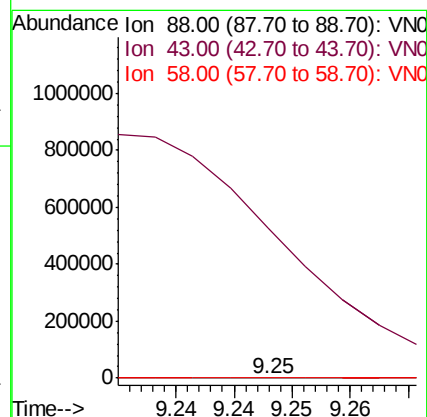
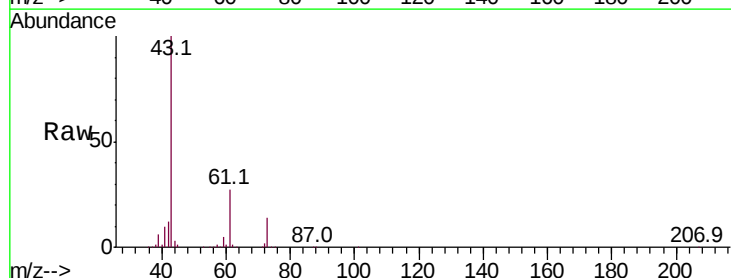
Instrument :
MSVOA_N
ClientSampleId :
PAV-B21-100220-0-1

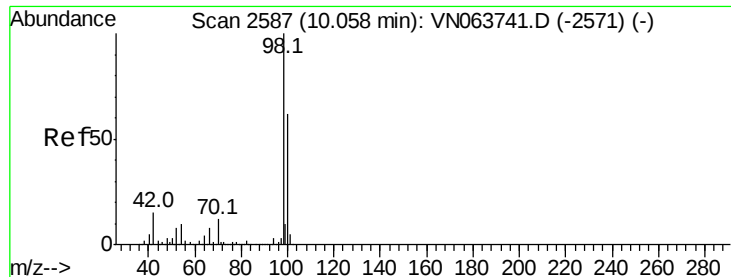
Tot Ion: 41 Resp: 5841
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#49
1,4-Dioxane
Concen: 0.583 ug/l
RT: 9.25 min Scan# 2335
Delta R.T. 0.08 min
Lab File: VN063926.D
Acq: 7 Oct 2020 5:30

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 5434586.2 33.1 49.7#
58 25575.9 58.9 88.3#





#50

Toluene-d8

Concen: 50.111 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

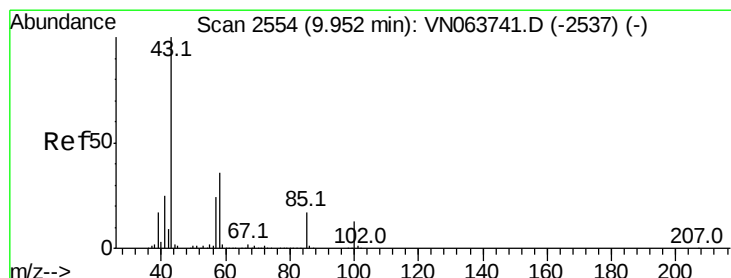
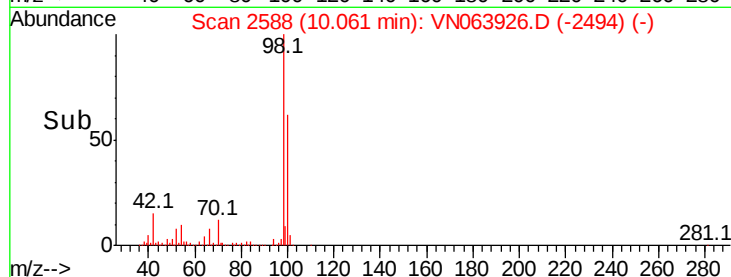
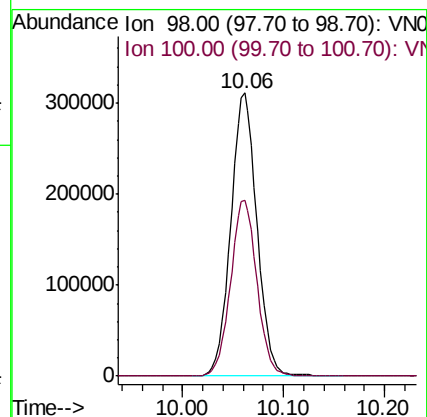
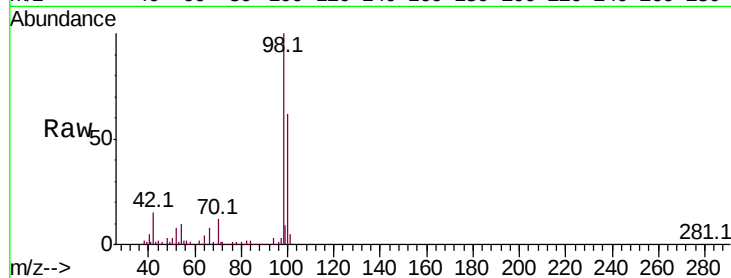
PAV-B21-100220-0-1

Tot Ion: 98 Resp: 562198

Ion Ratio Lower Upper

98 100

100 62.7 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 2.143 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063926.D

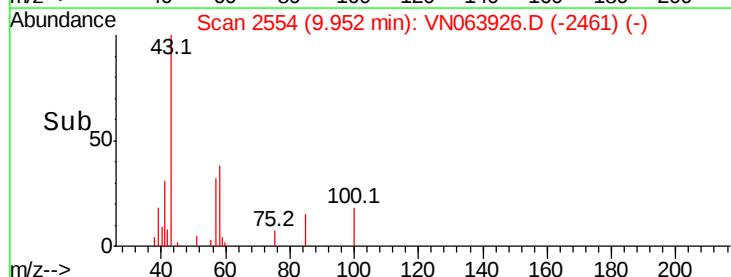
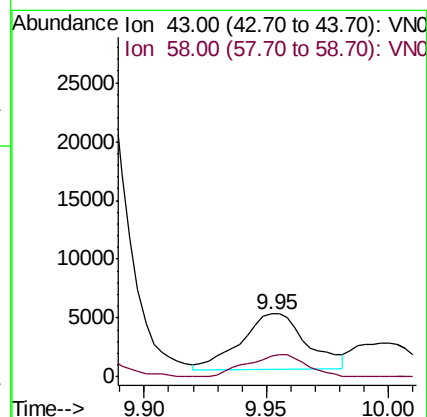
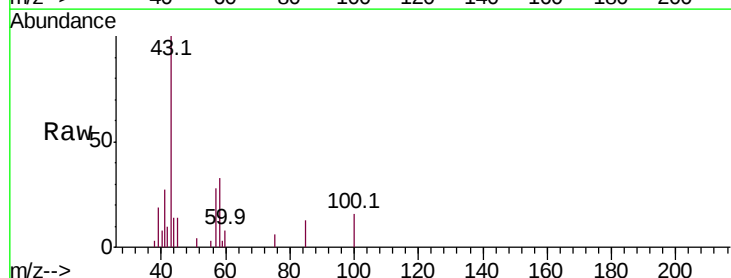
Acq: 7 Oct 2020 5:30

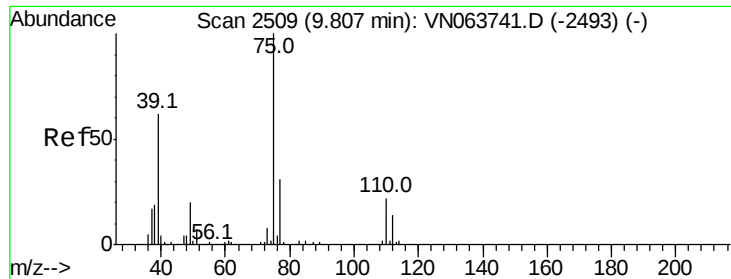
Tgt Ion: 43 Resp: 8905

Ion Ratio Lower Upper

43 100

58 35.9 28.4 42.6



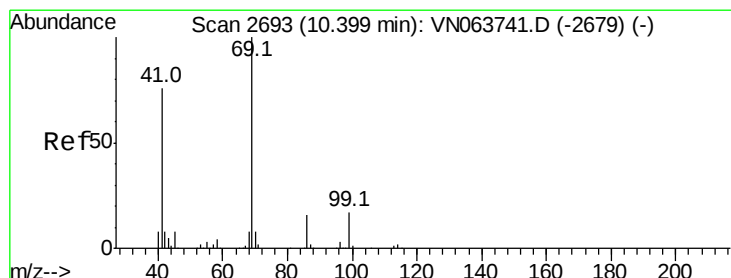
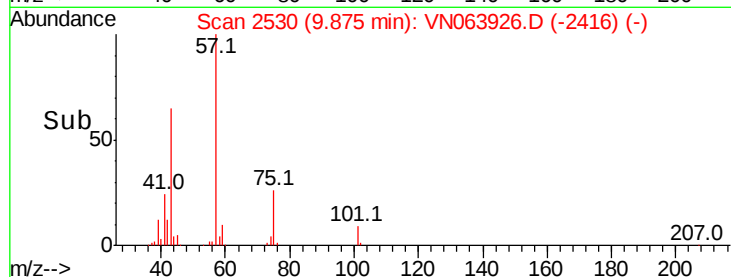
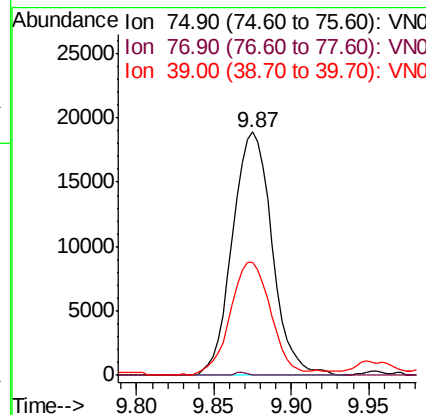
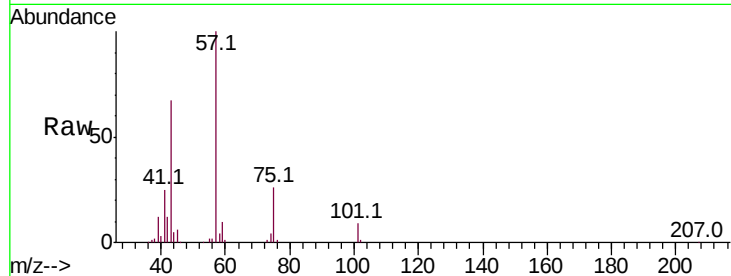


#54

cis-1,3-Dichloropropene
 Concen: 6.337 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B21-100220-0-1

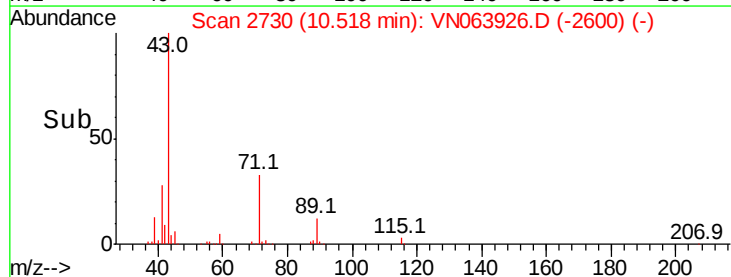
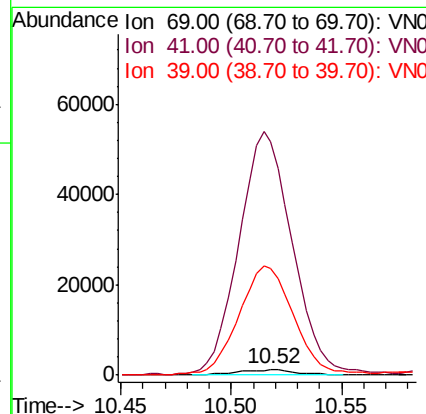
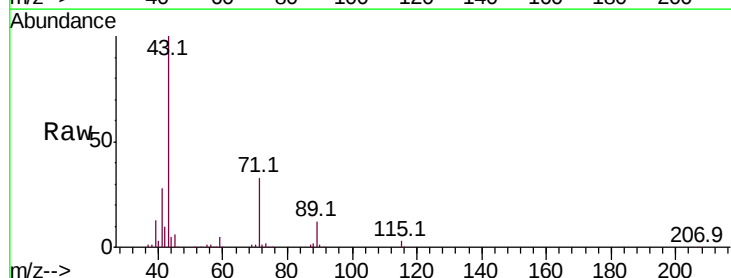
Tot Ion: 75 Resp: 33666
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 46.6 49.7 74.5#

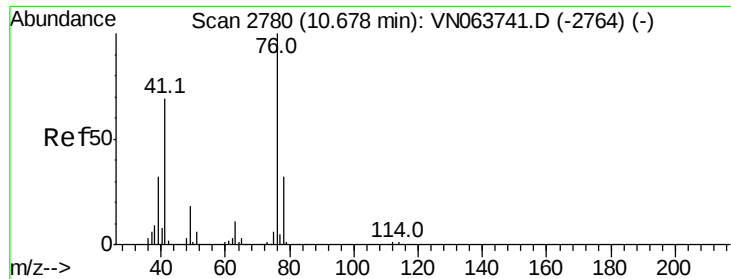


#56

Ethyl methacrylate
 Concen: 0.525 ug/l
 RT: 10.52 min Scan# 2730
 Delta R.T. 0.12 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

Tgt Ion: 69 Resp: 2278
 Ion Ratio Lower Upper
 69 100
 41 3953.7 61.1 91.7#
 39 1838.3 42.2 63.4#

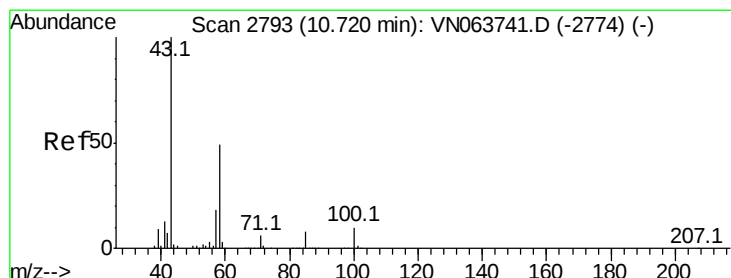
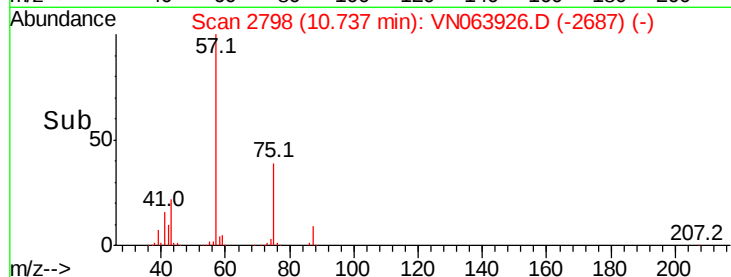
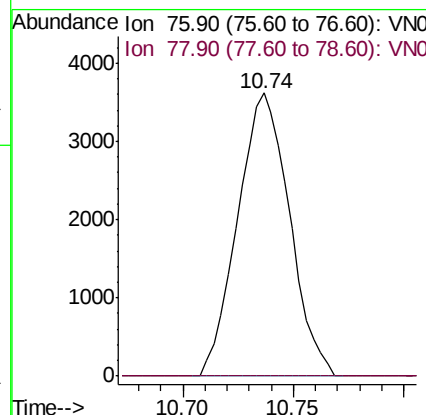
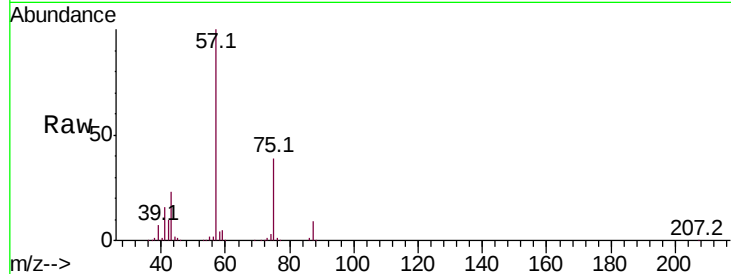




#57
 1,3-Dichloropropane
 Concen: 1.140 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

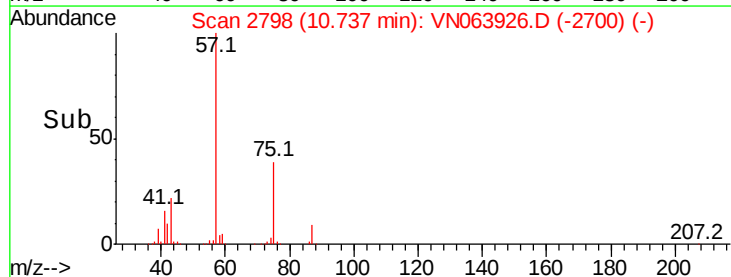
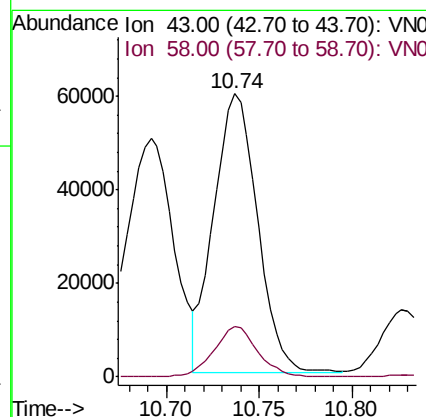
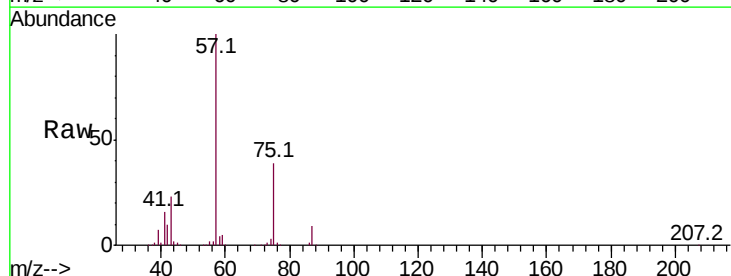
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B21-100220-0-1

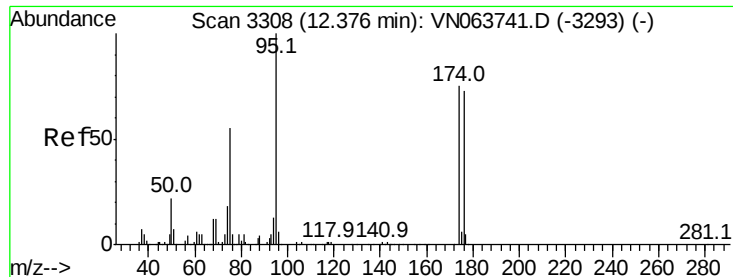
Tot Ion: 76 Resp: 5907
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 31.561 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063926.D
 Acq: 7 Oct 2020 5:30

Tgt Ion: 43 Resp: 97429
 Ion Ratio Lower Upper
 43 100
 58 18.2 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 51.060 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

PAV-B21-100220-0-1

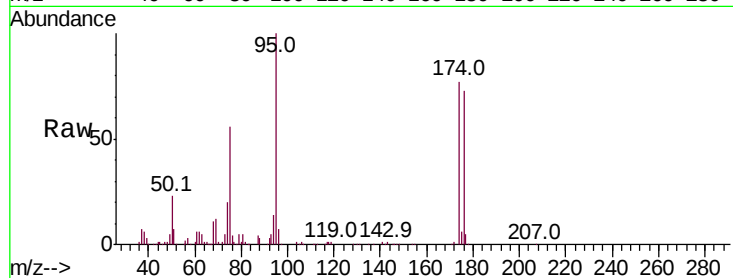
Tot Ion: 95 Resp: 215341

Ion Ratio Lower Upper

95 100

174 77.1 0.0 150.6

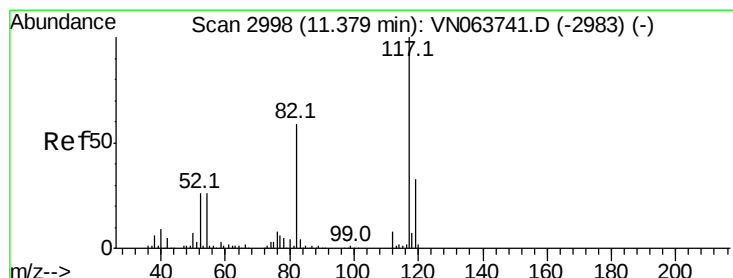
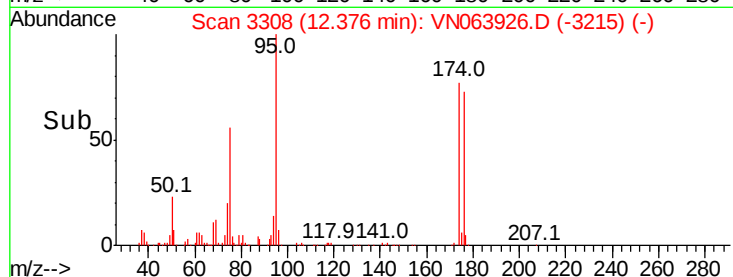
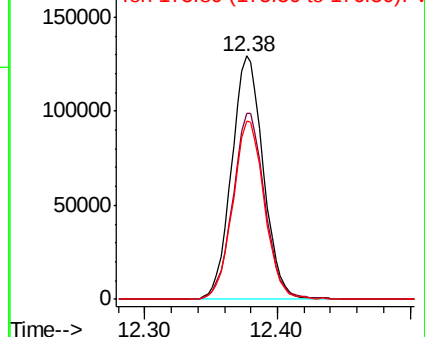
176 72.8 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063741.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN063741.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN063741.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

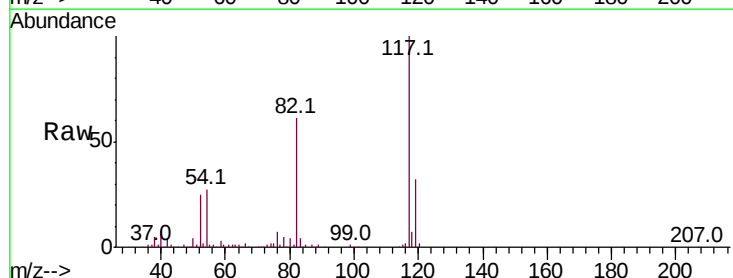
Tgt Ion: 117 Resp: 449569

Ion Ratio Lower Upper

117 100

82 60.9 47.4 71.2

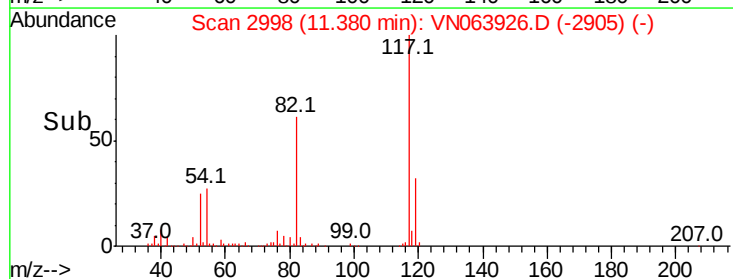
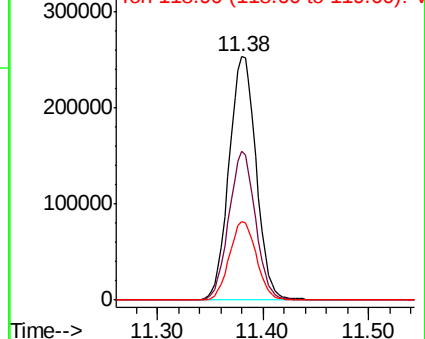
119 32.2 26.4 39.6

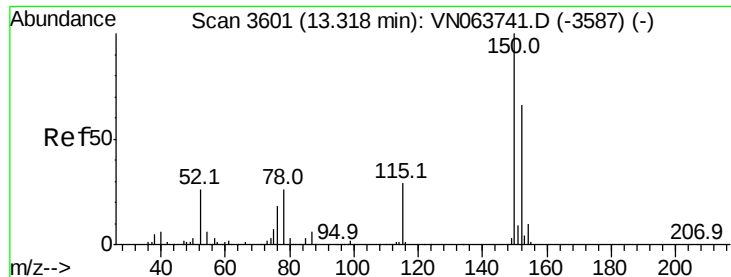


Abundance Ion 116.90 (116.60 to 117.60): VN063741.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063741.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063741.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

PAV-B21-100220-0-1

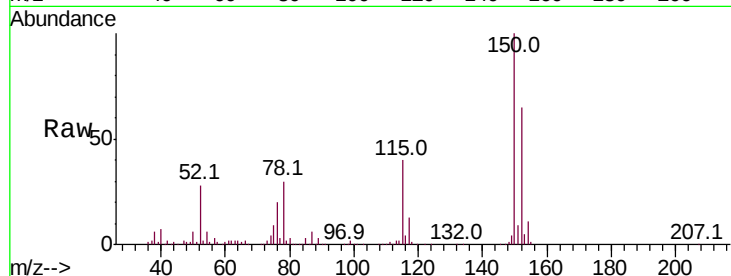
Tot Ion:152 Resp: 181668

Ion Ratio Lower Upper

152 100

115 62.7 31.3 93.8

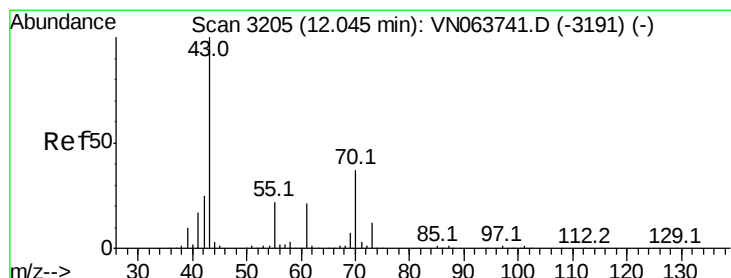
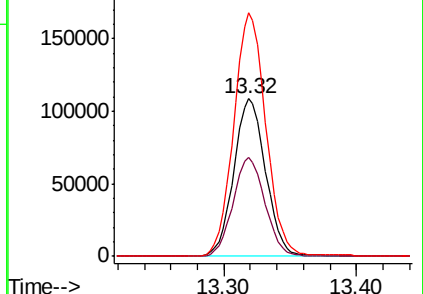
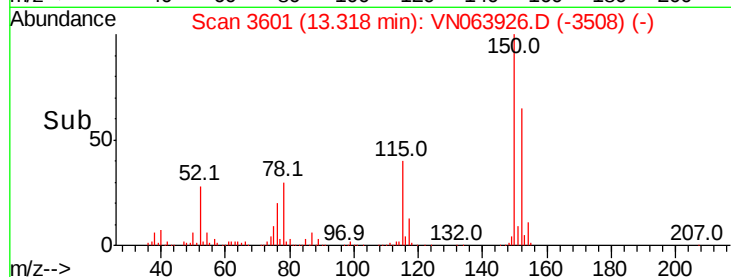
150 155.1 0.0 341.8



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-ethyl acetate

Concen: 2.769 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Tgt Ion: 43 Resp: 3564

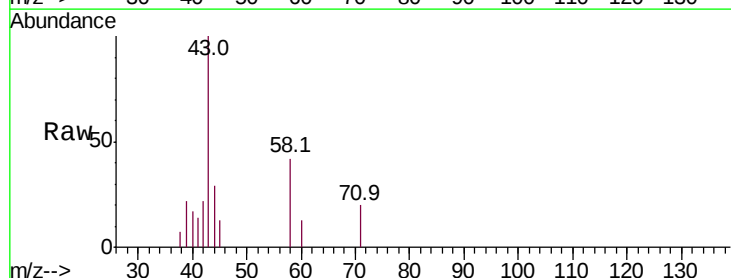
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 5.2 17.9 26.9#

61 0.0 17.0 25.4#

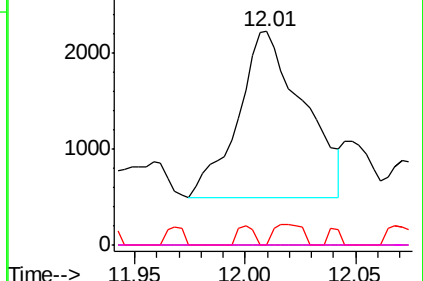
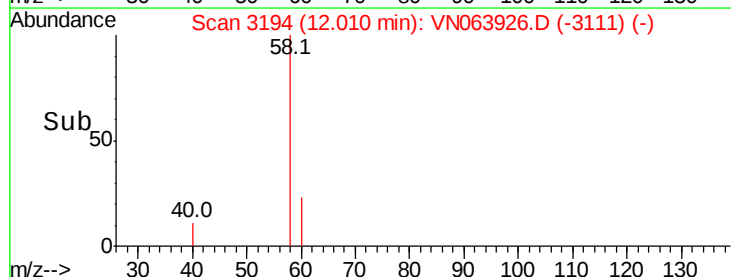


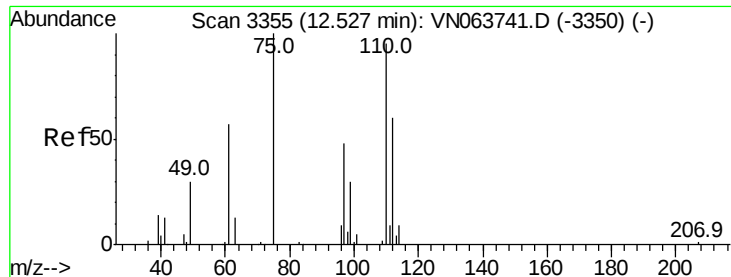
Abundance Ion 43.00 (42.70 to 43.70): V

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: 30.135 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

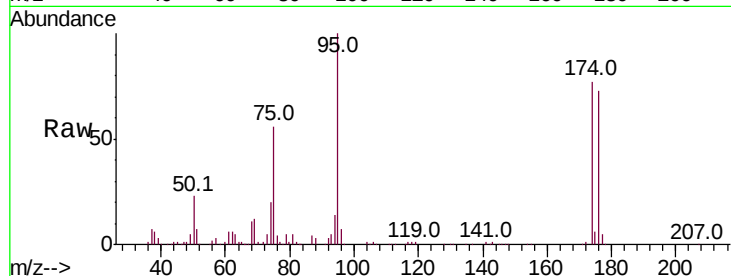
PAV-B21-100220-0-1

Tot Ion: 75 Resp: 120682

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

80000

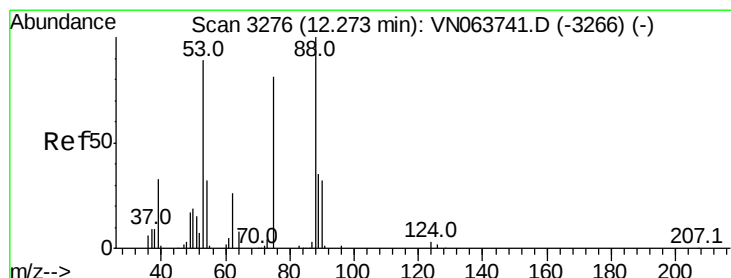
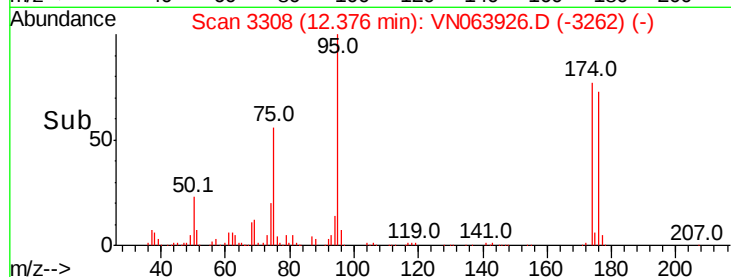
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 86.794 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063926.D

Acq: 7 Oct 2020 5:30

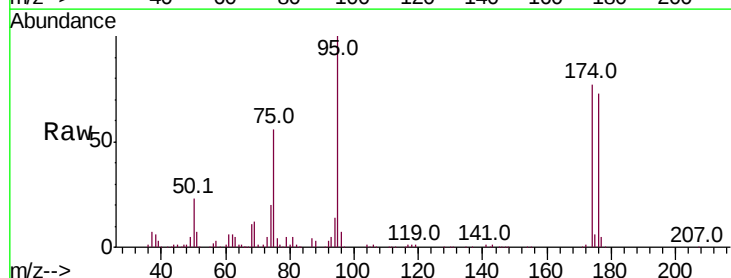
Tgt Ion: 75 Resp: 120682

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

100000

80000

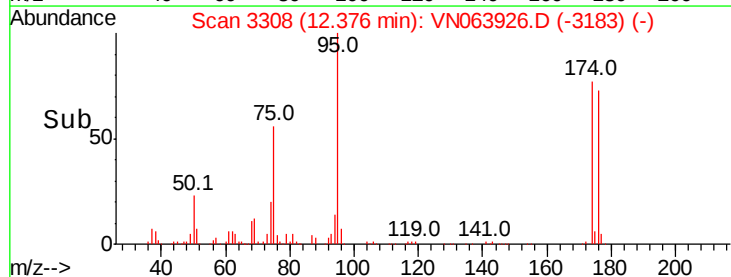
60000

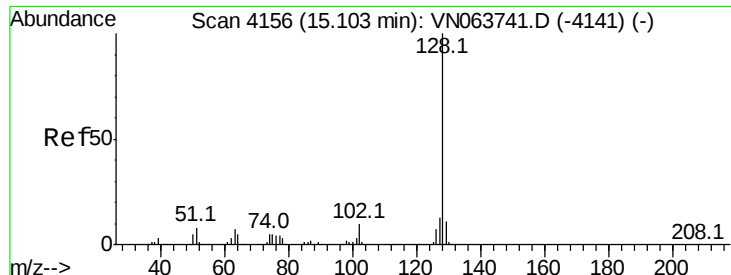
40000

20000

0

Time-->





#95

Naphthalene

Concen: 2.106 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN063926.D

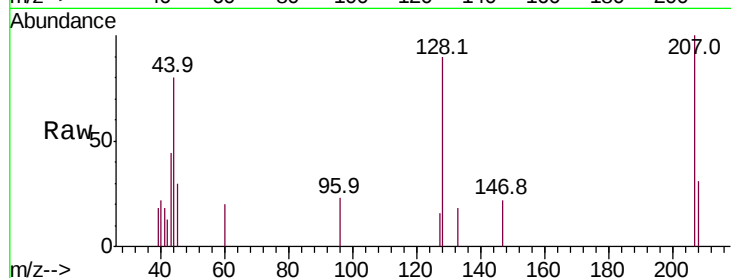
Acq: 7 Oct 2020 5:30

Instrument :

MSVOA_N

ClientSampleId :

PAV-B21-100220-0-1



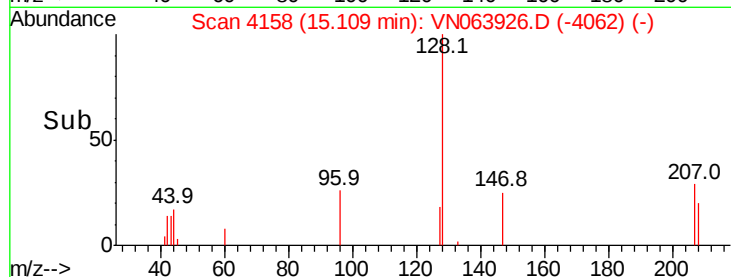
Tot Ion:128 Resp: 1854

Ion Ratio Lower Upper

128 100

127 7.6 10.5 15.7#

129 8.5 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

