

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063799.D
 Acq On : 2 Oct 2020 3:20
 Operator : JC/MD
 Sample : L4190-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B14-092920-0-1

Quant Time: Oct 02 04:25:53 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	214584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	416765	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	419399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171560	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	193881	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	
35) Dibromofluoromethane	7.55	113	137131	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	10.06	98	525458	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
62) 4-Bromofluorobenzene	12.38	95	202561	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	

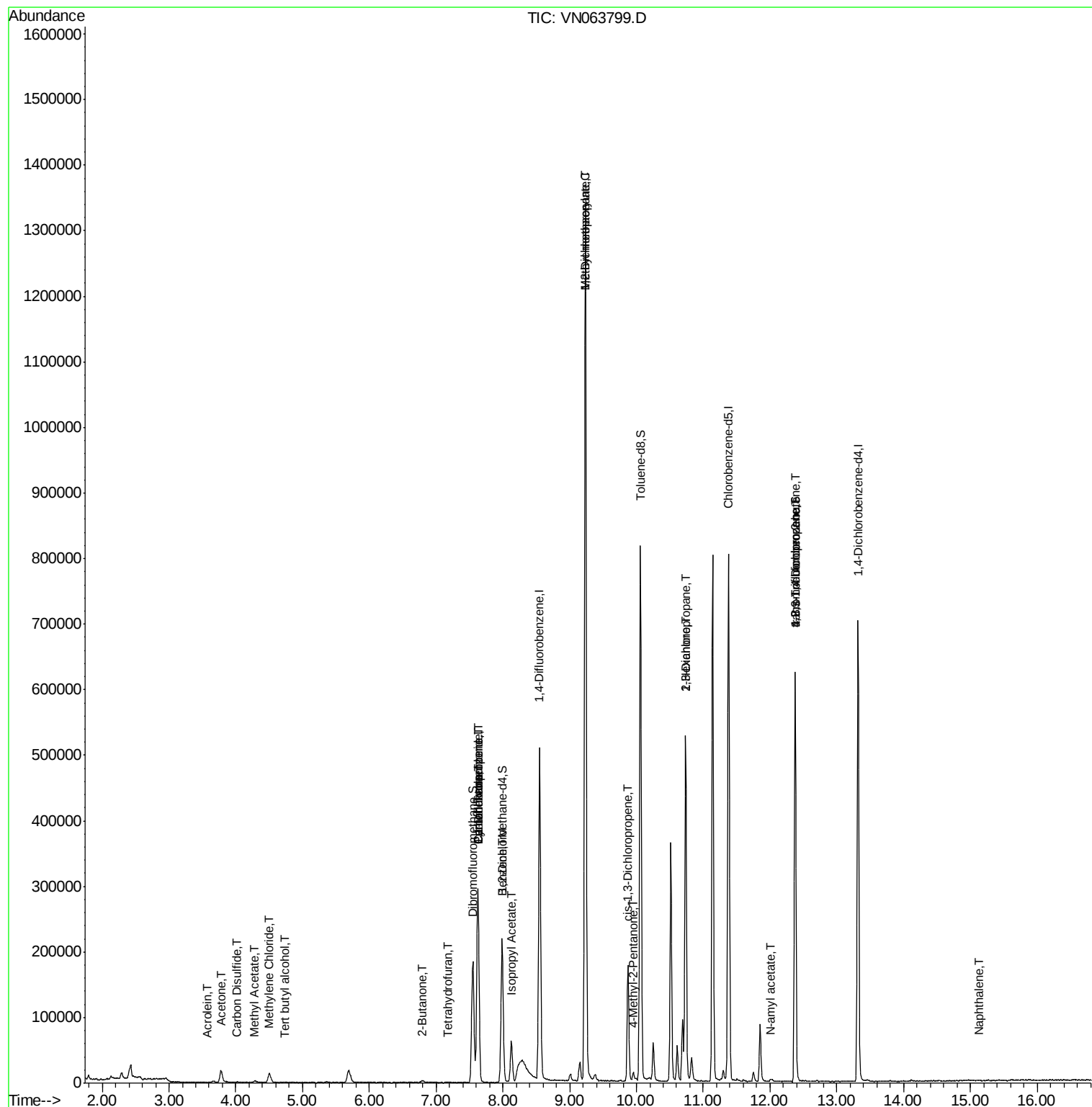
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	315	0.805	ug/l #	71
13) Acrolein	3.58	56	171	0.712	ug/l #	14
16) Acetone	3.78	43	32911	30.158	ug/l	99
17) Carbon Disulfide	4.01	76	486	0.783	ug/l #	76
18) Methyl Acetate	4.27	43	1682	0.594	ug/l #	91
20) Methylene Chloride	4.51	84	8866	3.638	ug/l	96
25) 2-Butanone	6.79	43	2271	1.468	ug/l #	78
29) Tetrahydrofuran	7.17	42	468	0.451	ug/l #	36
31) Cyclohexane	7.63	56	6318	1.535	ug/l #	42
36) 1,1-Dichloropropene	7.62	75	20287	4.805	ug/l #	50
38) Carbon Tetrachloride	7.63	117	23895	5.047	ug/l #	15
40) Benzene	8.00	78	3511	0.291	ug/l	99
43) Isopropyl Acetate	8.13	43	75939	10.975	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1137	0.349	ug/l #	44
48) Methyl methacrylate	9.23	41	138794	40.601	ug/l #	47
51) 4-Methyl-2-Pentanone	9.96	43	7596	1.871	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	27955	5.385	ug/l #	74
57) 1,3-Dichloropropane	10.74	76	5291	1.045	ug/l #	43
59) 2-Hexanone	10.74	43	83928	27.824	ug/l #	53
74) N-amyl acetate	12.00	43	2002	2.545	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	117309	31.019	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	117309	89.339	ug/l #	6
95) Naphthalene	15.12	128	620	1.989	ug/l #	69

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

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QLast Update : Thu Oct 01 01:46:38 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

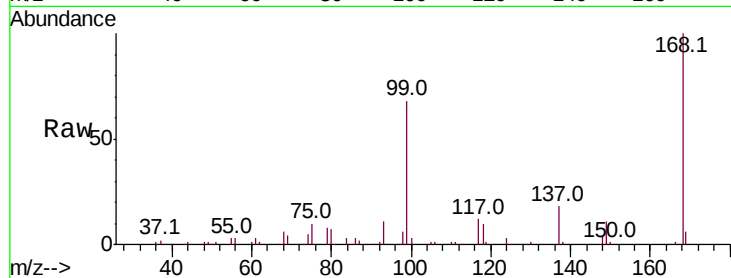
PAV-B14-092920-0-1

Tot Ion:168 Resp: 214584

Ion Ratio Lower Upper

168 100

99 68.3 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

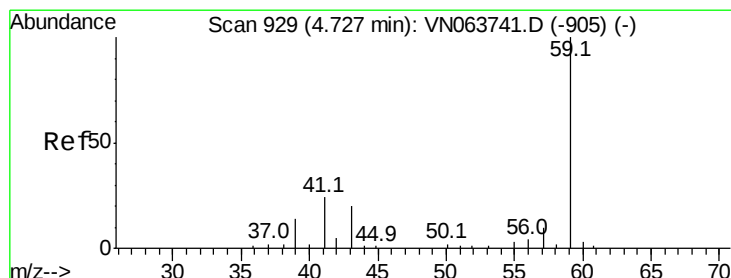
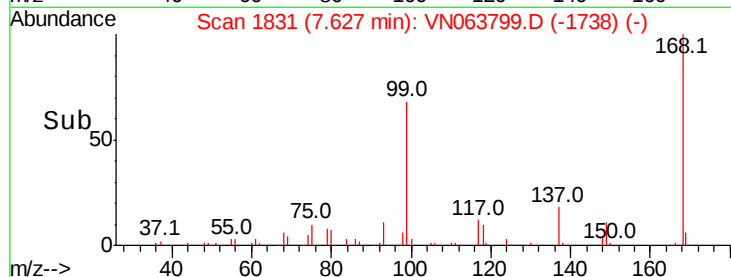
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.805 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN063799.D

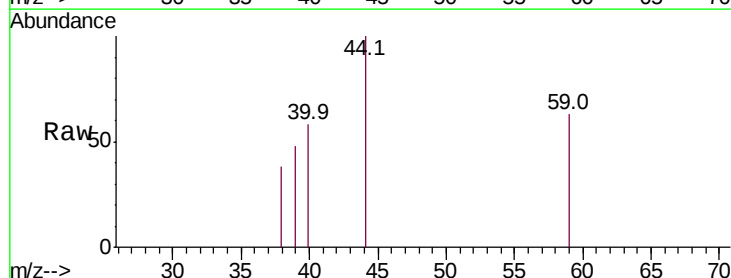
Acq: 2 Oct 2020 3:20

Tgt Ion: 59 Resp: 315

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

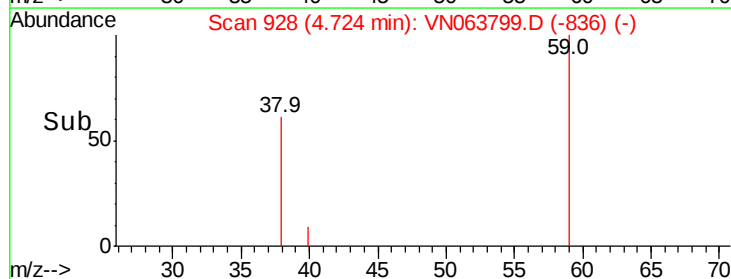
300

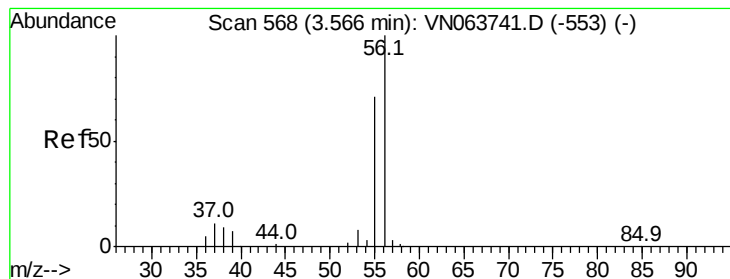
200

100

0

Time--> 4.70 4.72 4.74





#13

Acrolein

Concen: 0.712 ug/l

RT: 3.58 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

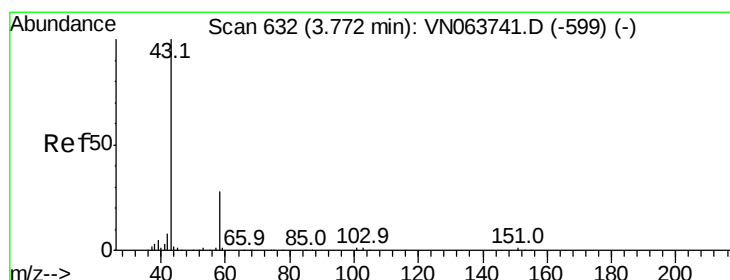
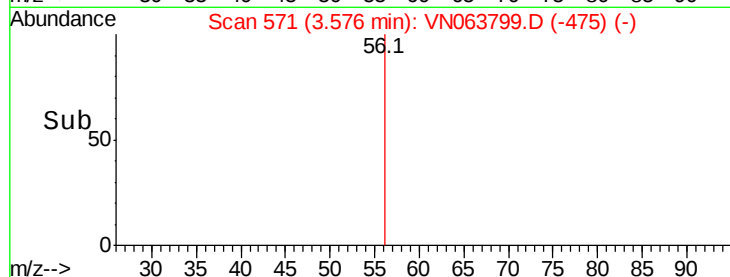
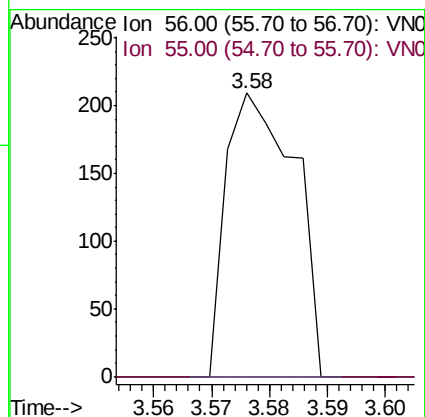
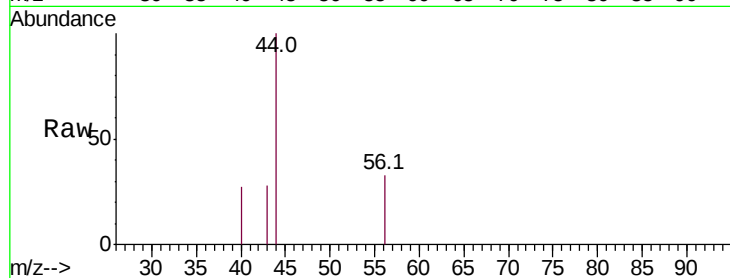
PAV-B14-092920-0-1

Tot Ion: 56 Resp: 171

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 30.158 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063799.D

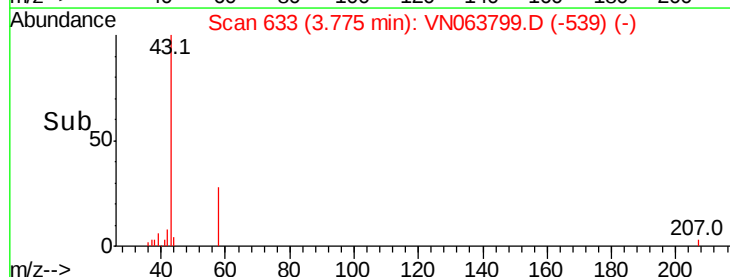
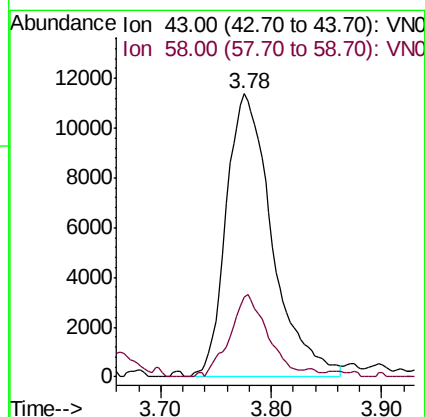
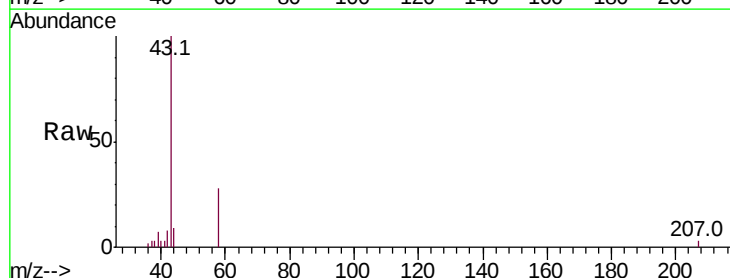
Acq: 2 Oct 2020 3:20

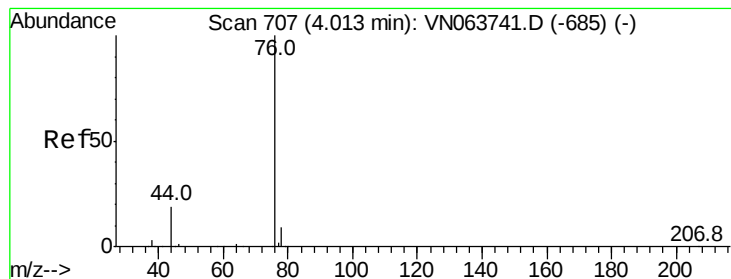
Tgt Ion: 43 Resp: 32911

Ion Ratio Lower Upper

43 100

58 28.3 22.3 33.5





#17

Carbon Disulfide

Concen: 0.783 ug/l

RT: 4.01 min Scan# 705

Delta R.T. -0.01 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

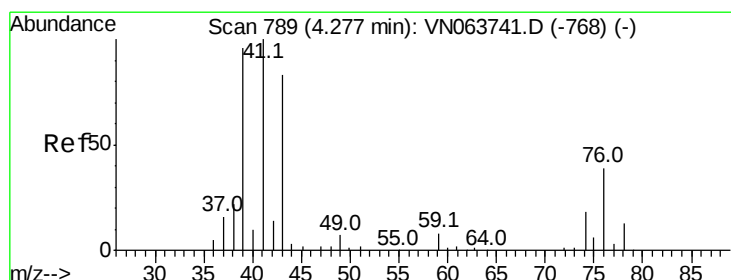
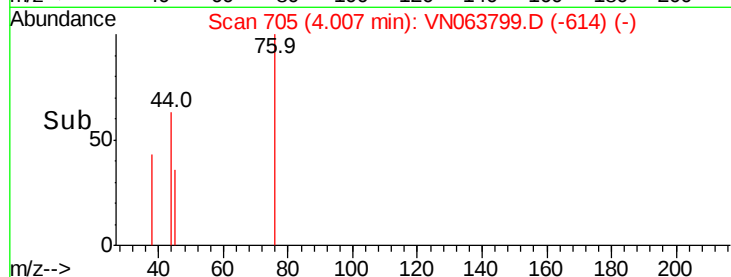
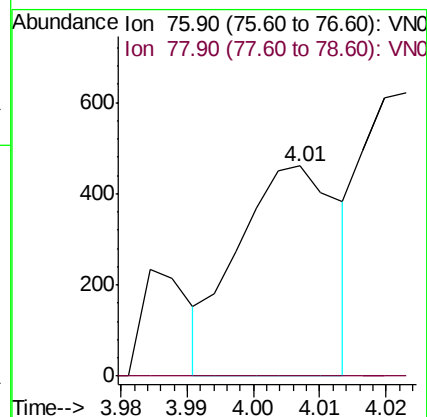
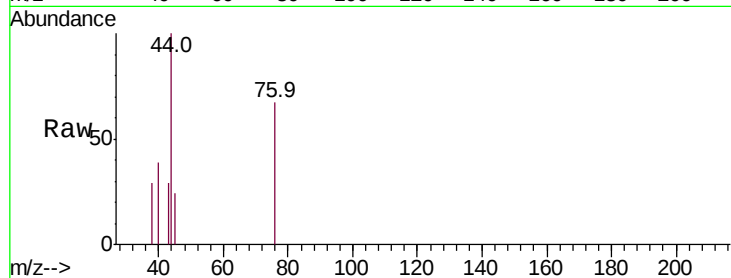
PAV-B14-092920-0-1

Tot Ion: 76 Resp: 486

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#18

Methyl Acetate

Concen: 0.594 ug/l

RT: 4.27 min Scan# 787

Delta R.T. -0.01 min

Lab File: VN063799.D

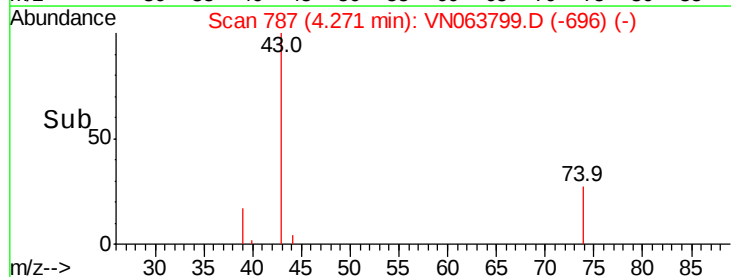
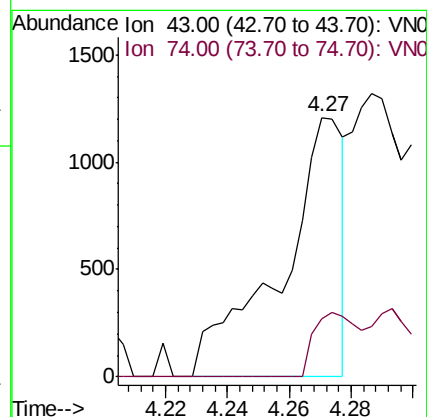
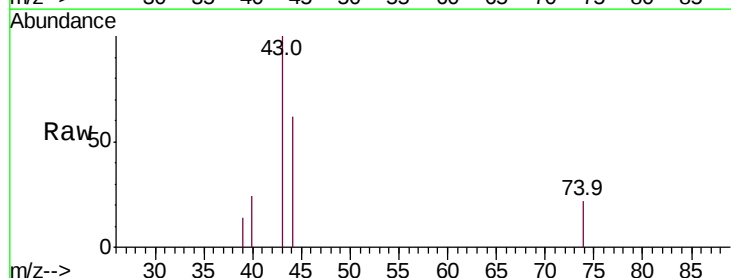
Acq: 2 Oct 2020 3:20

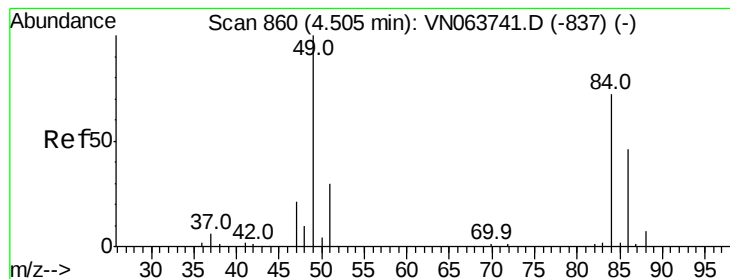
Tgt Ion: 43 Resp: 1682

Ion Ratio Lower Upper

43 100

74 17.4 17.4 26.2#





#20

Methvlene Chloride

Concen: 3.638 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

PAV-B14-092920-0-1

Tot Ion: 84 Resp: 8866

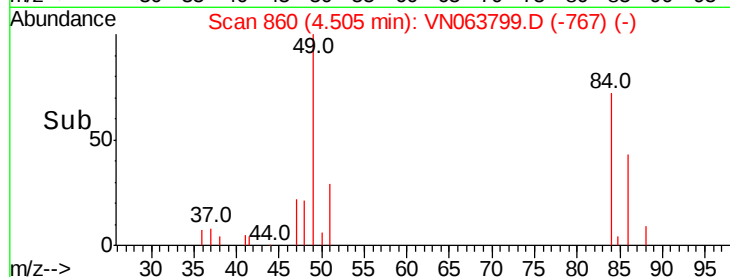
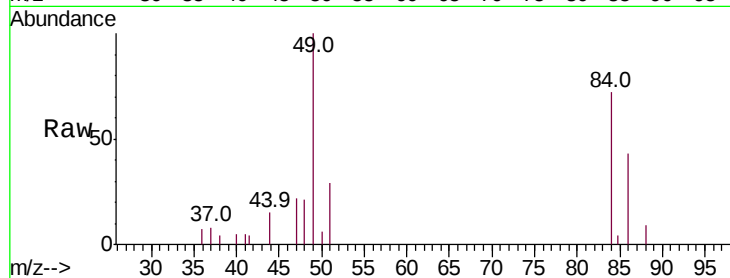
Ion Ratio Lower Upper

84 100

49 132.4 110.4 165.6

51 39.9 33.3 49.9

86 60.0 50.7 76.1

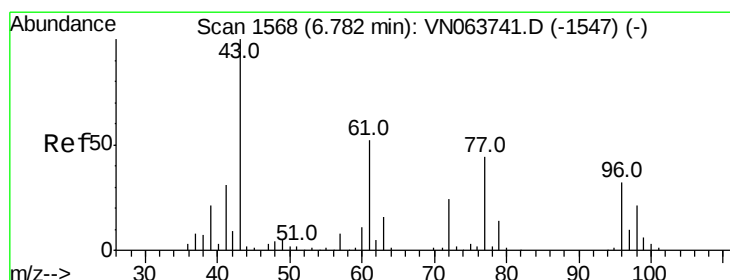
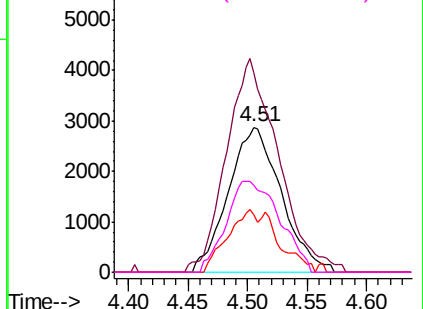


Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#25

2-Butanone

Concen: 1.468 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063799.D

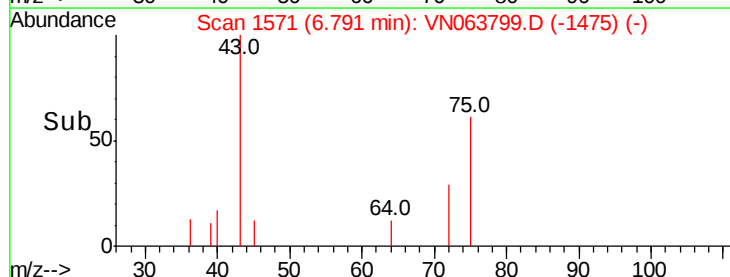
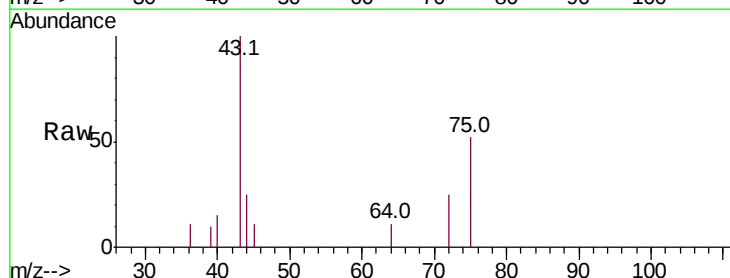
Acq: 2 Oct 2020 3:20

Tgt Ion: 43 Resp: 2271

Ion Ratio Lower Upper

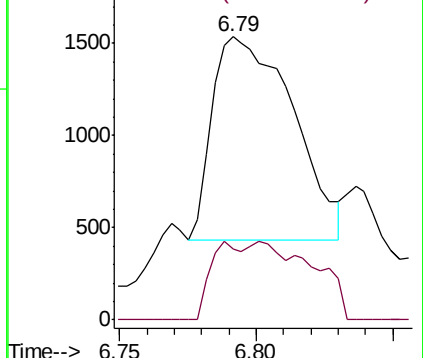
43 100

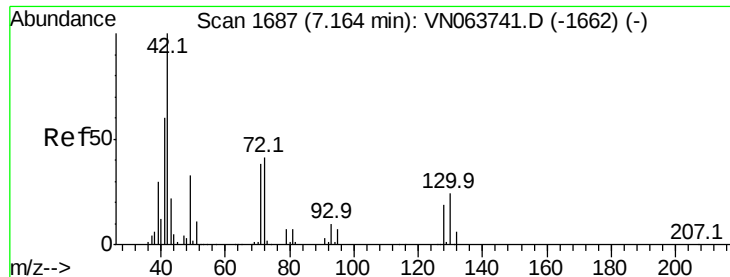
72 35.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.451 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

PAV-B14-092920-0-1

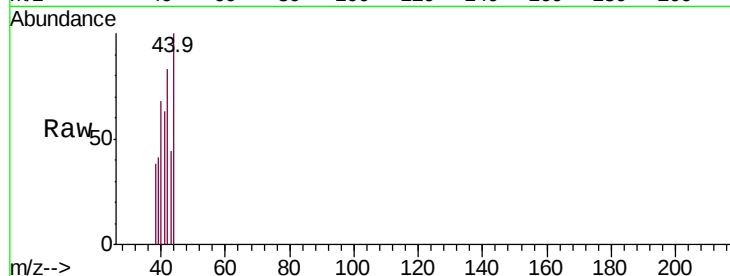
Tot Ion: 42 Resp: 468

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

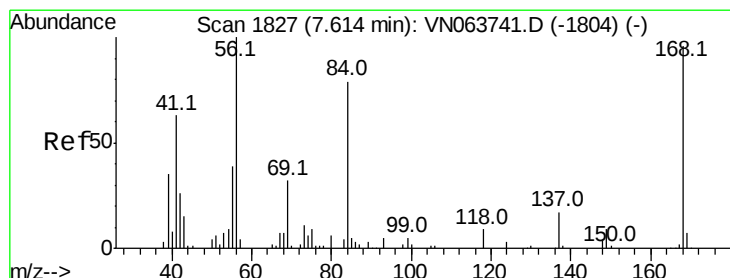
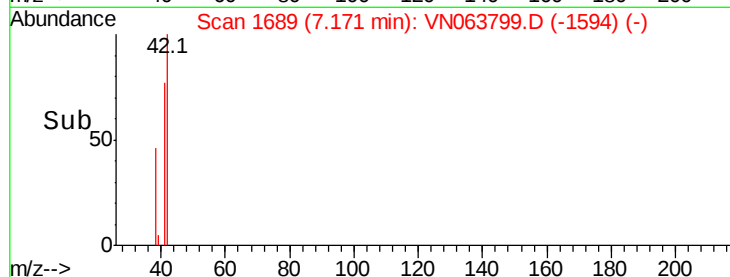
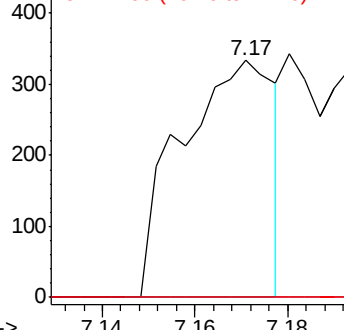
71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.535 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

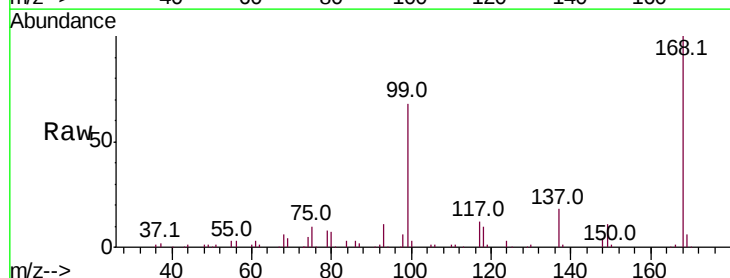
Tgt Ion: 56 Resp: 6318

Ion Ratio Lower Upper

56 100

69 137.4 25.4 38.2#

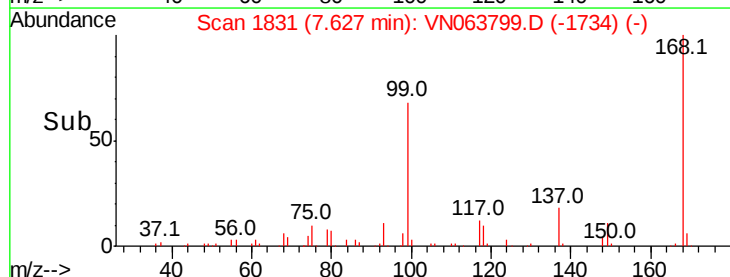
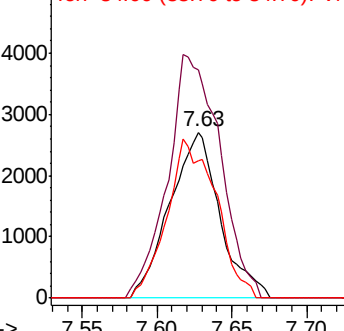
84 82.9 63.3 94.9

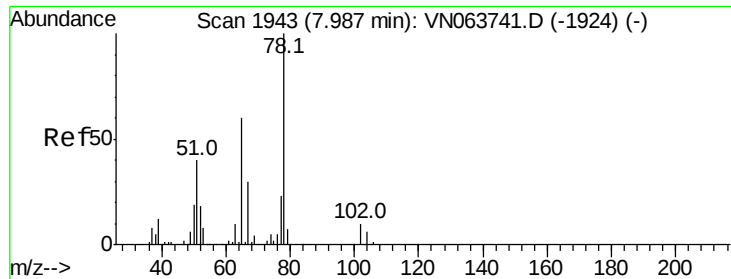


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 54.690 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

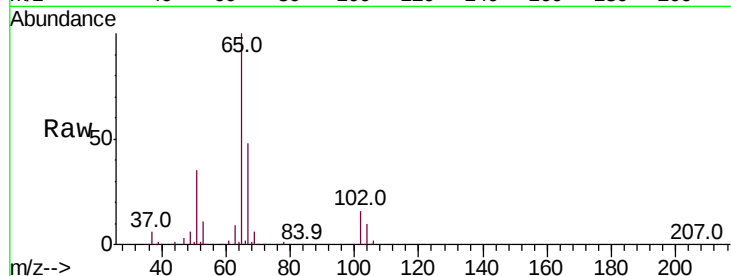
Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

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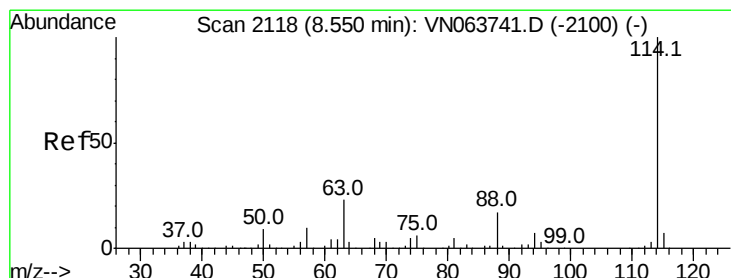
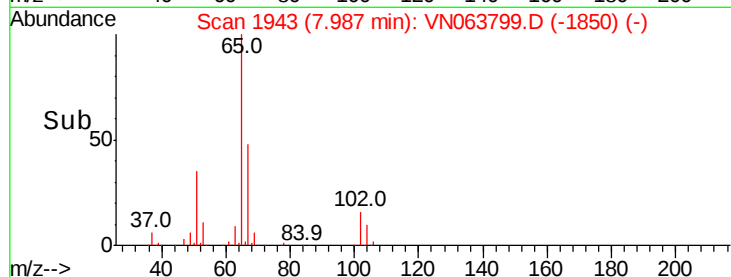
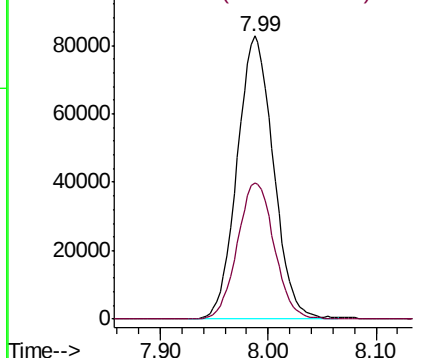
Tot Ion: 65 Resp: 193881

Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

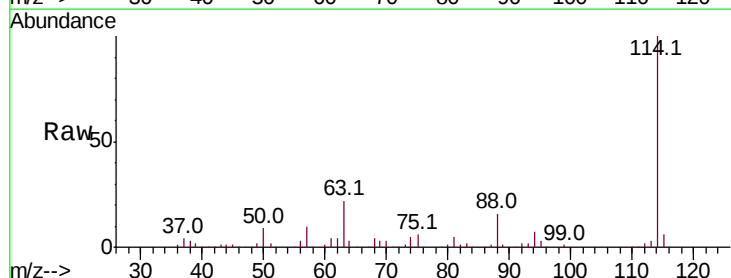
Delta R.T. 0.00 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Tgt Ion: 114 Resp: 416765

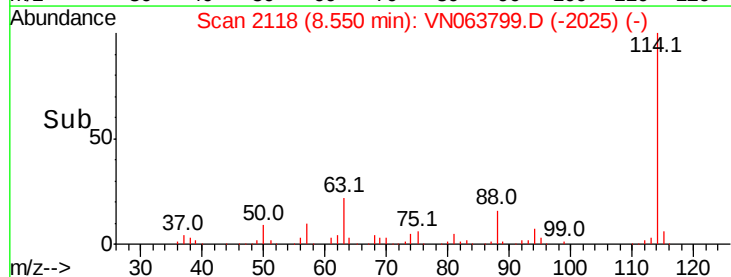
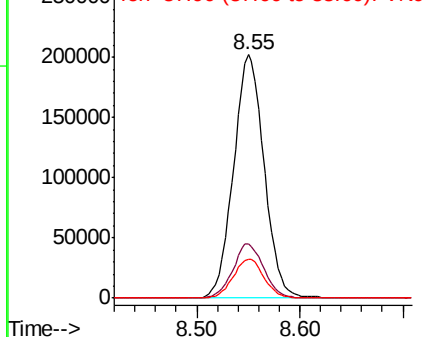
Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	45.0
88	16.1	0.0	34.0

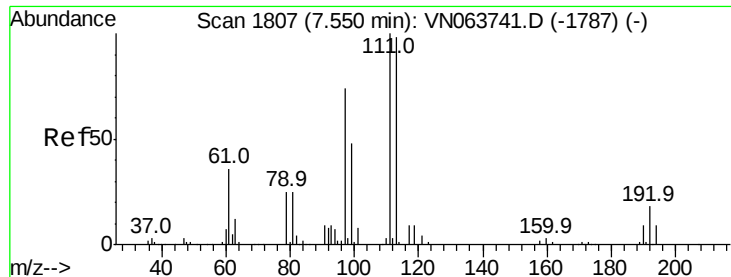


Abundance Ion 113.90 (113.60 to 114.60): VN063741.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063741.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063741.D (-2100) (-)

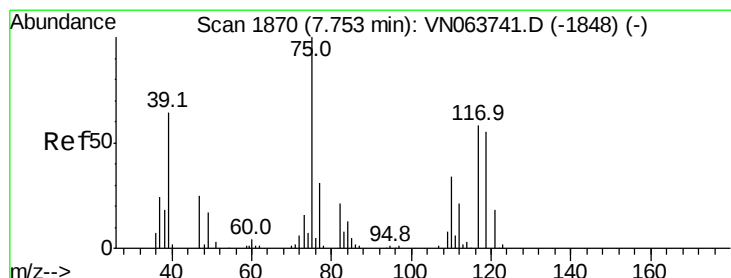
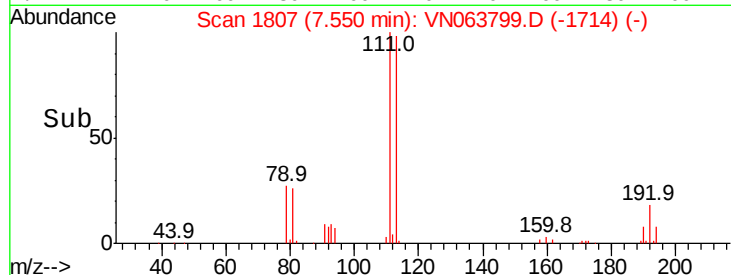
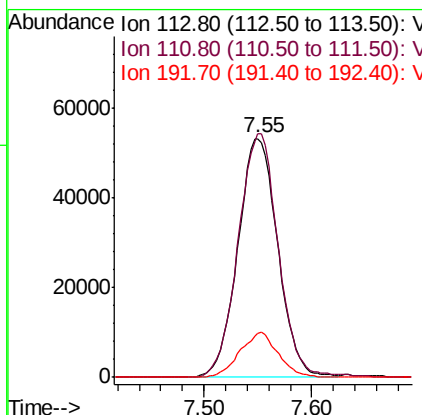
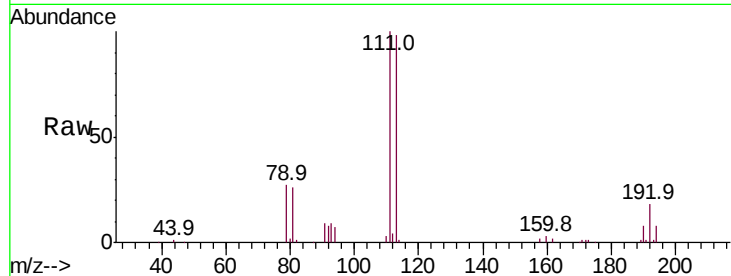




#35
 Dibromofluoromethane
 Concen: 47.420 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063799.D
 Acq: 2 Oct 2020 3:20

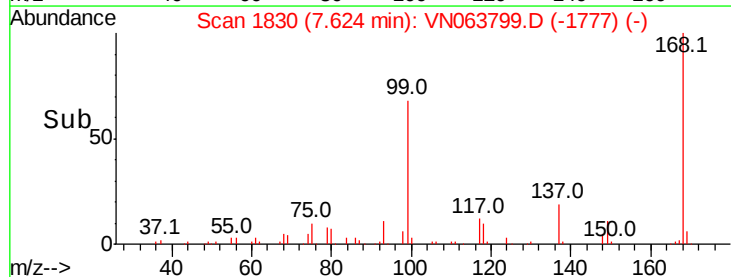
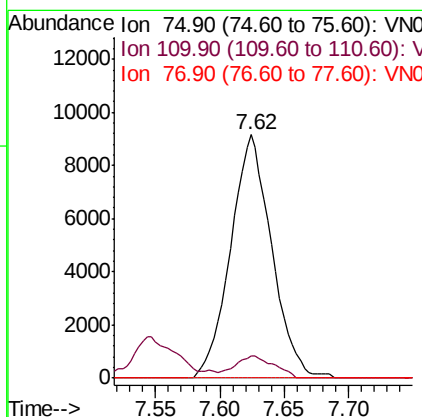
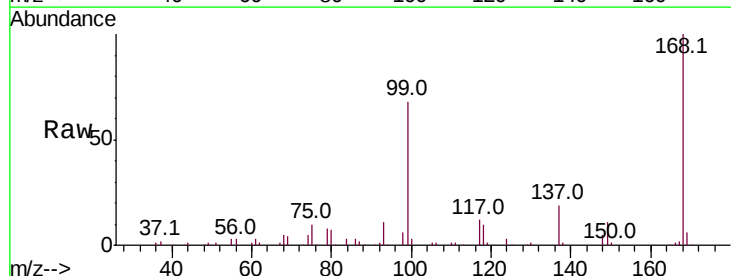
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B14-092920-0-1

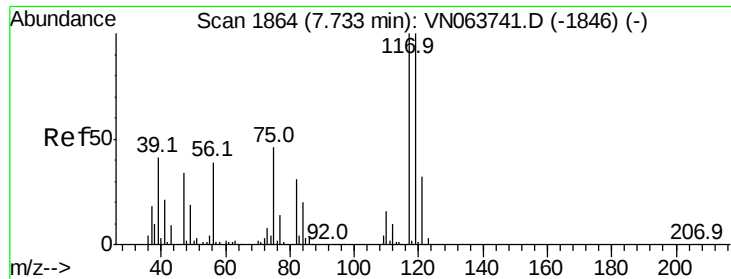
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.8
192	17.9	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 4.805 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063799.D
 Acq: 2 Oct 2020 3:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.9	50.6#
77	0.0	24.5	36.7#

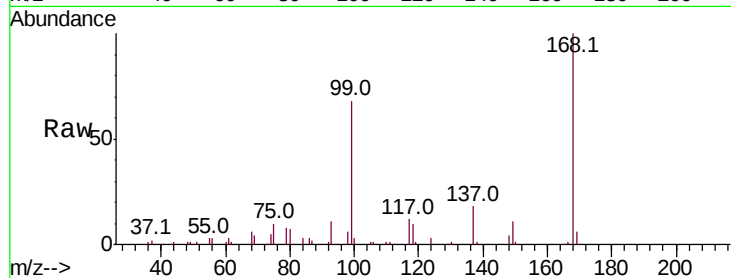




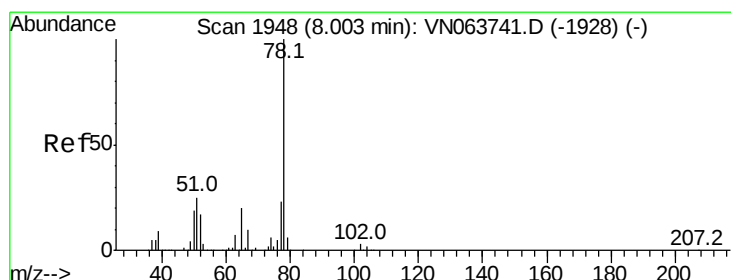
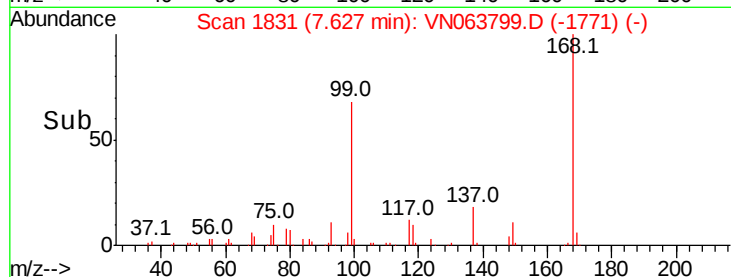
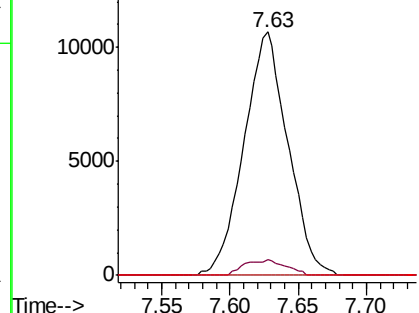
#38
Carbon Tetrachloride
Concen: 5.047 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063799.D
Acq: 2 Oct 2020 3:20

Instrument :
MSVOA_N
ClientSampleId :
PAV-B14-092920-0-1

Tot Ion:117 Resp: 23895
Ion Ratio Lower Upper
117 100
119 6.2 80.1 120.1#
121 0.0 25.7 38.5#

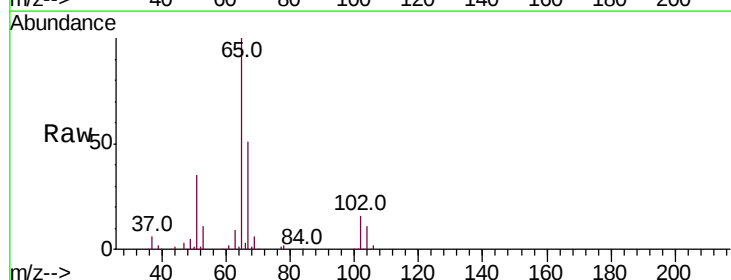


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

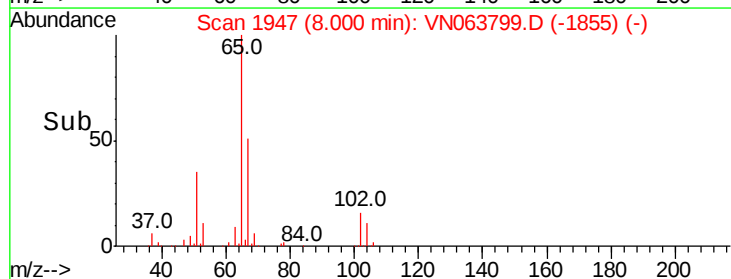
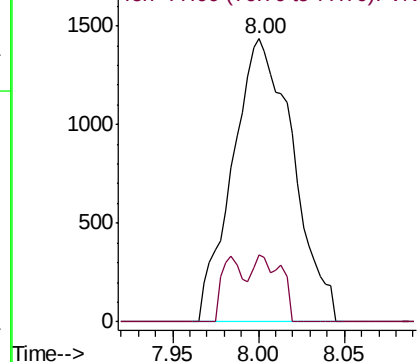


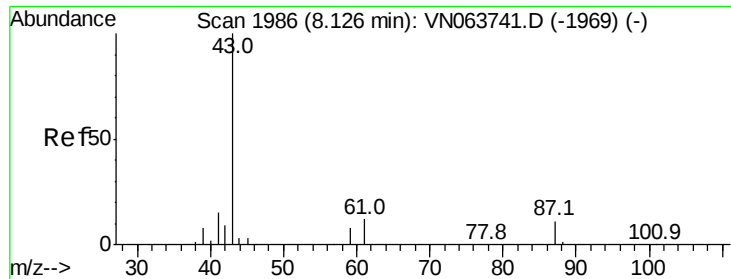
#40
Benzene
Concen: 0.291 ug/l
RT: 8.00 min Scan# 1947
Delta R.T. -0.00 min
Lab File: VN063799.D
Acq: 2 Oct 2020 3:20

Tgt Ion: 78 Resp: 3511
Ion Ratio Lower Upper
78 100
77 23.8 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 10.975 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

PAV-B14-092920-0-1

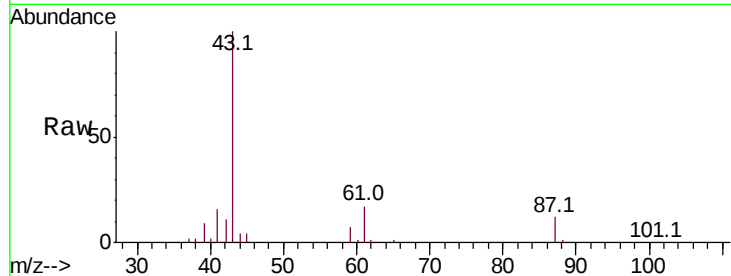
Tot Ion: 43 Resp: 75939

Ion Ratio Lower Upper

43 100

61 17.6 14.2 21.4

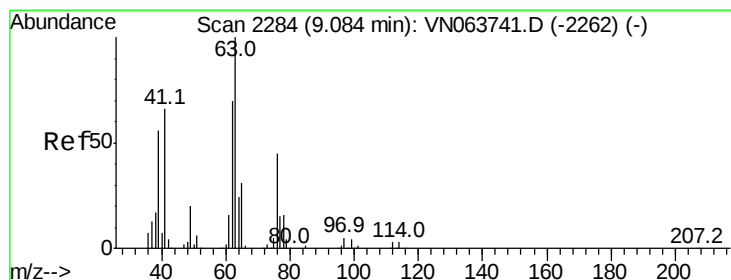
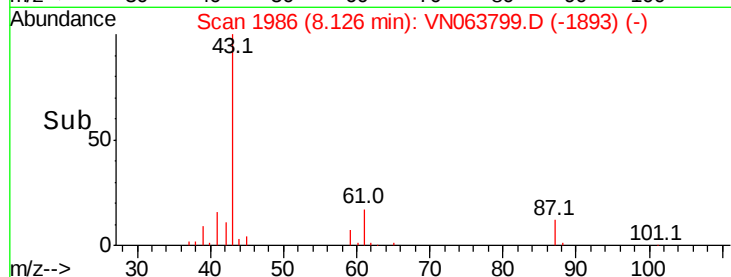
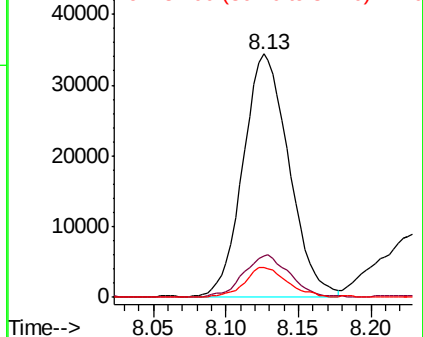
87 11.4 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.349 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063799.D

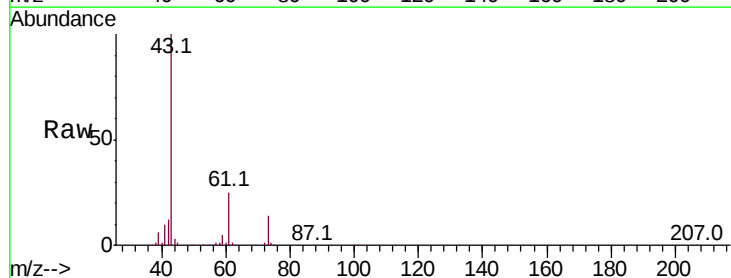
Acq: 2 Oct 2020 3:20

Tgt Ion: 63 Resp: 1137

Ion Ratio Lower Upper

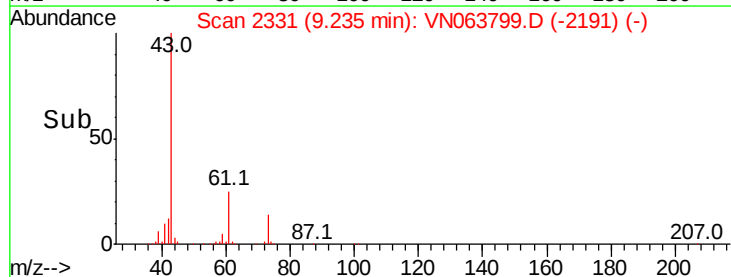
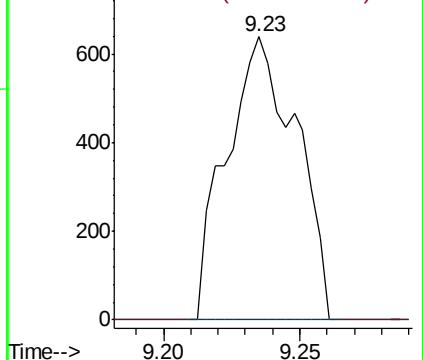
63 100

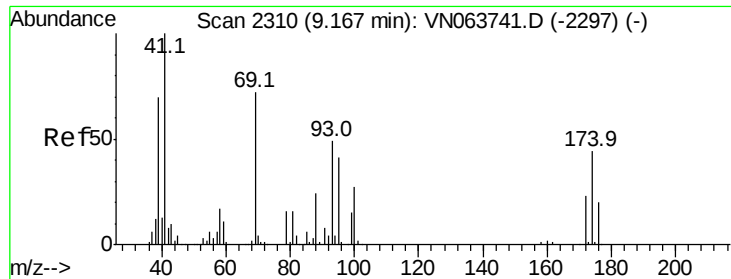
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

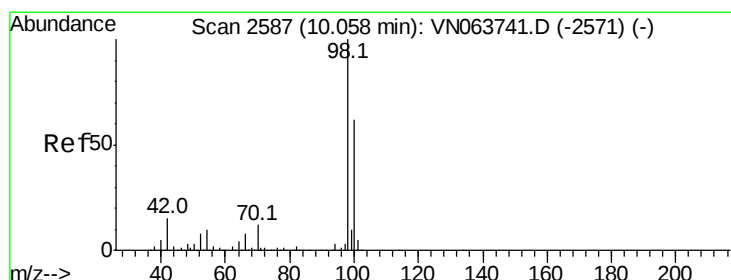
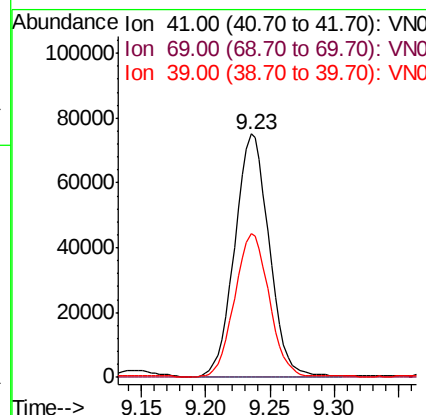
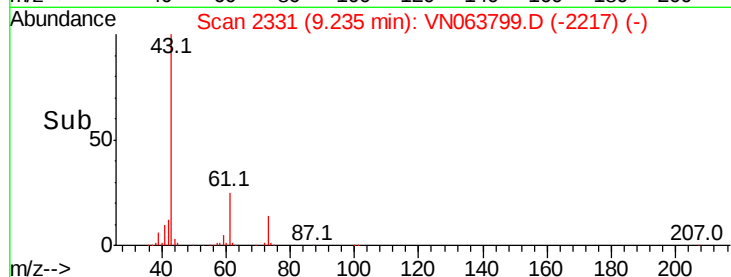
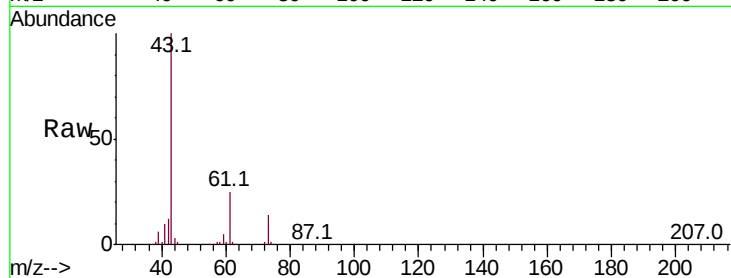




#48
Methyl methacrylate
Concen: 40.601 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063799.D
Acq: 2 Oct 2020 3:20

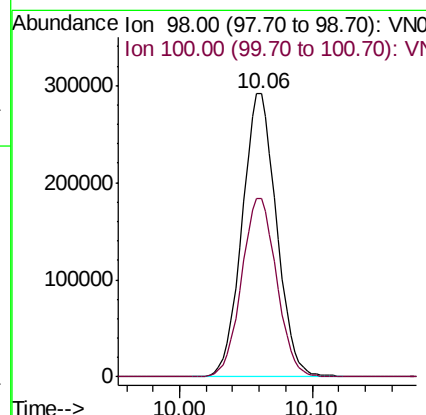
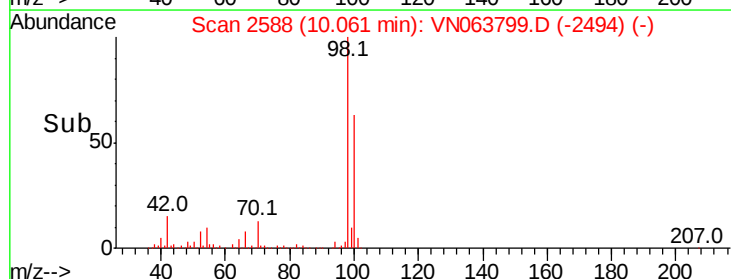
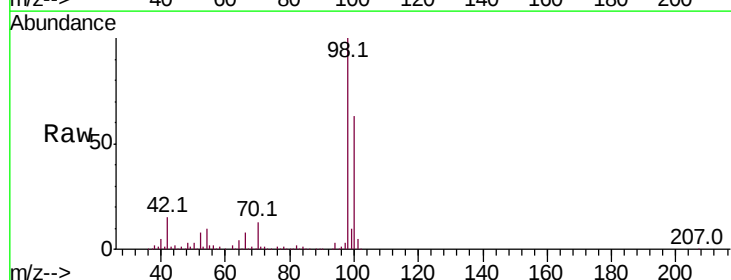
Instrument :
MSVOA_N
ClientSampleId :
PAV-B14-092920-0-1

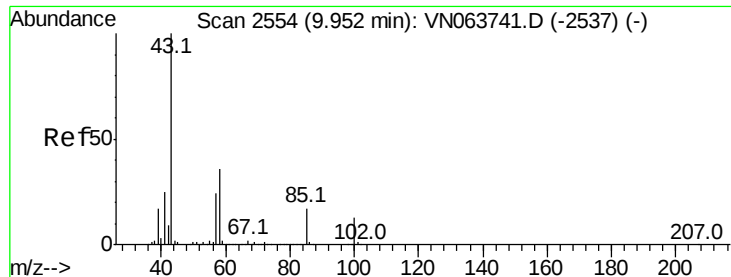
Tot Ion: 41 Resp: 138794
Ion Ratio Lower Upper
41 100
69 0.1 60.9 91.3#
39 58.9 57.5 86.3



#50
Toluene-d8
Concen: 47.932 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063799.D
Acq: 2 Oct 2020 3:20

Tgt Ion: 98 Resp: 525458
Ion Ratio Lower Upper
98 100
100 64.3 49.8 74.6





#51

4-Methyl-2-Pentanone

Concen: 1.871 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

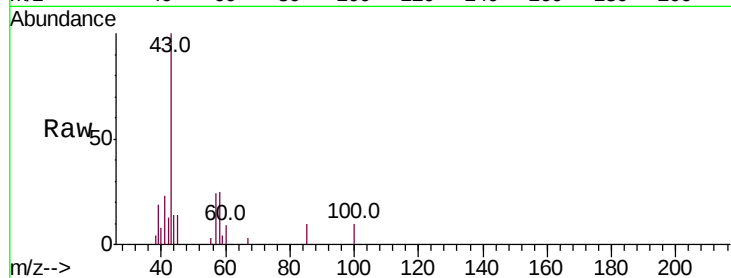
PAV-B14-092920-0-1

Tot Ion: 43 Resp: 7596

Ion Ratio Lower Upper

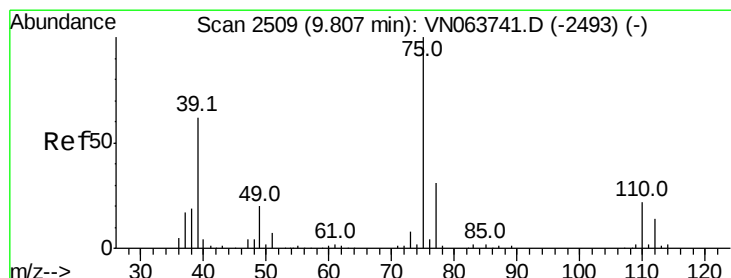
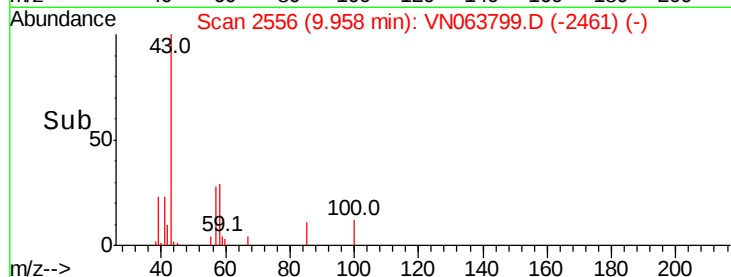
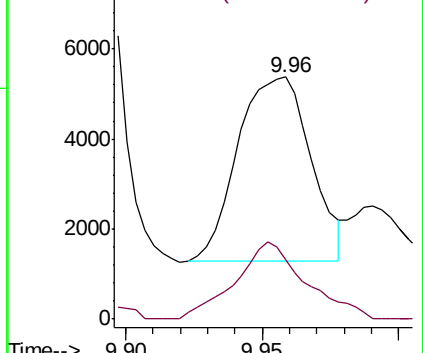
43 100

58 40.4 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.385 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

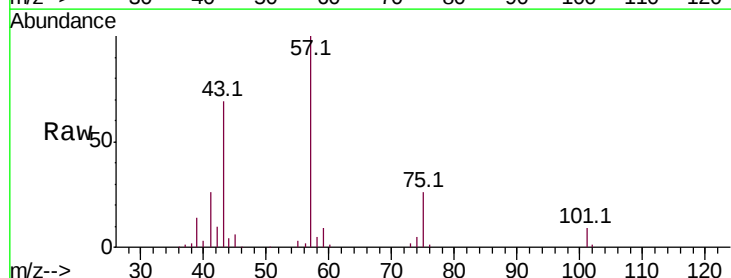
Tgt Ion: 75 Resp: 27955

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

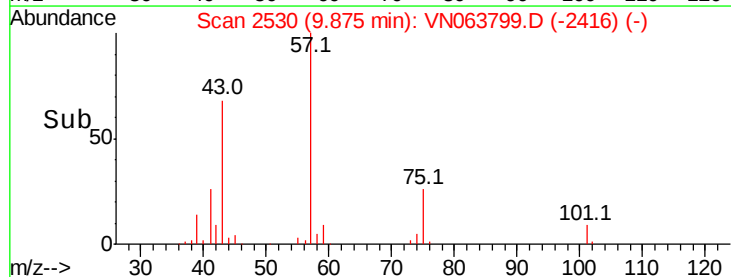
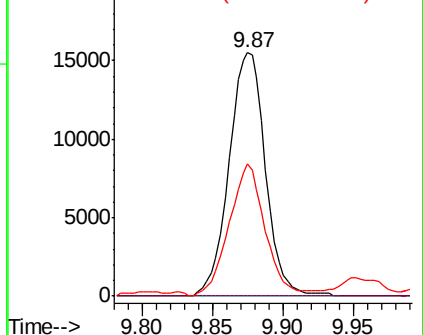
39 54.1 49.7 74.5

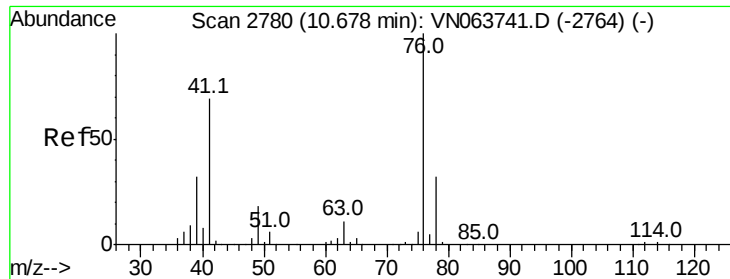


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.045 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

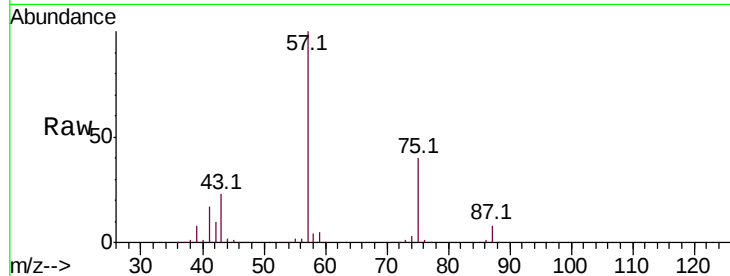
PAV-B14-092920-0-1

Tot Ion: 76 Resp: 5291

Ion Ratio Lower Upper

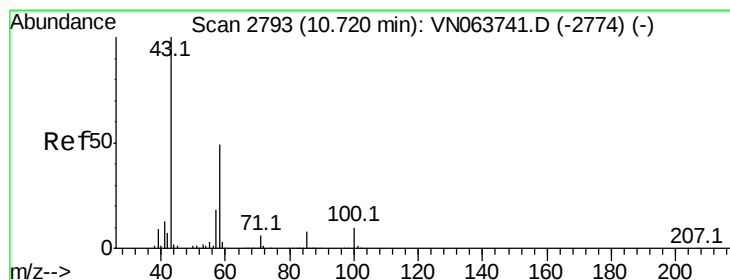
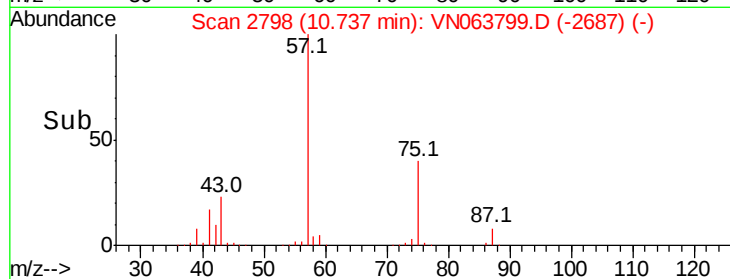
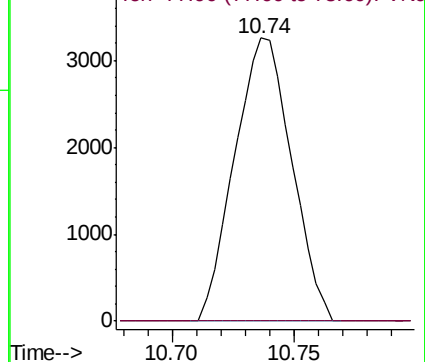
76 100

78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 27.824 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063799.D

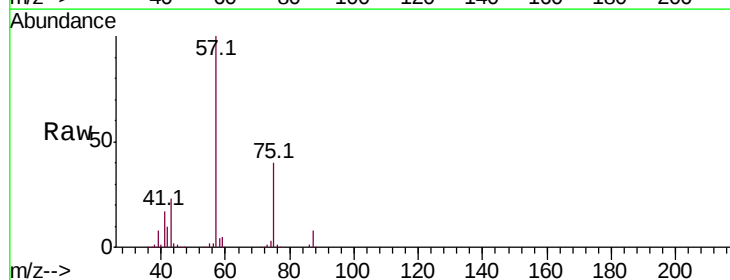
Acq: 2 Oct 2020 3:20

Tgt Ion: 43 Resp: 83928

Ion Ratio Lower Upper

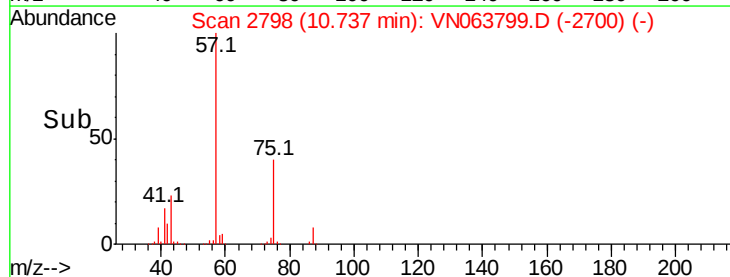
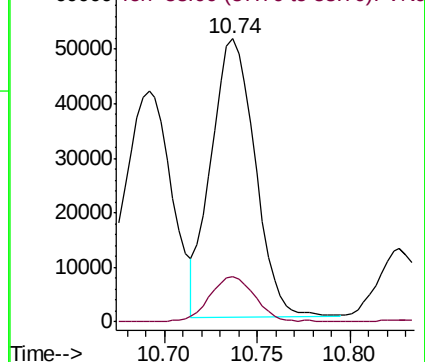
43 100

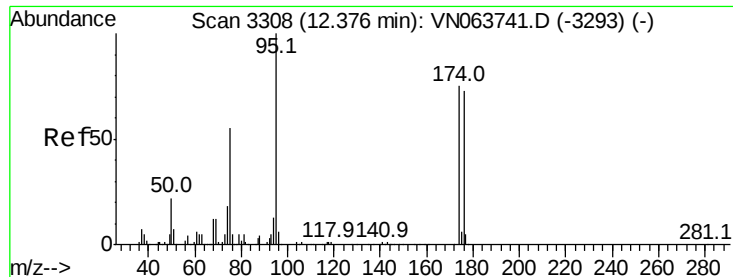
58 16.8 24.6 73.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

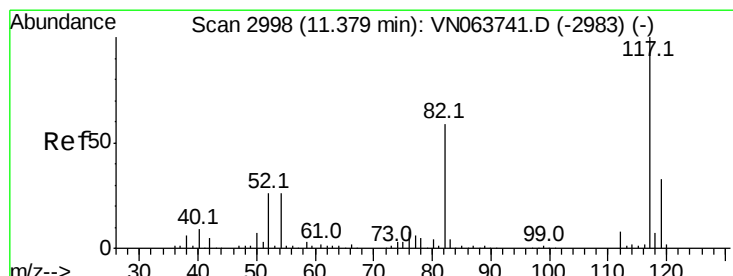
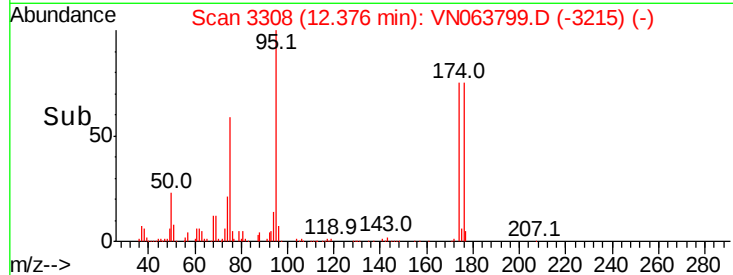
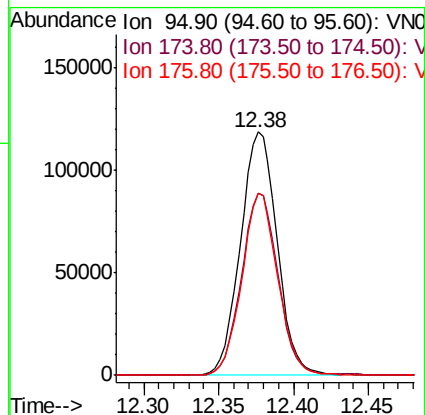
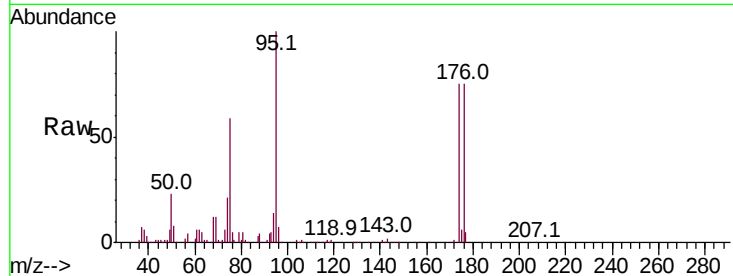




#62
4-Bromofluorobenzene
Concen: 49.154 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063799.D
Acq: 2 Oct 2020 3:20

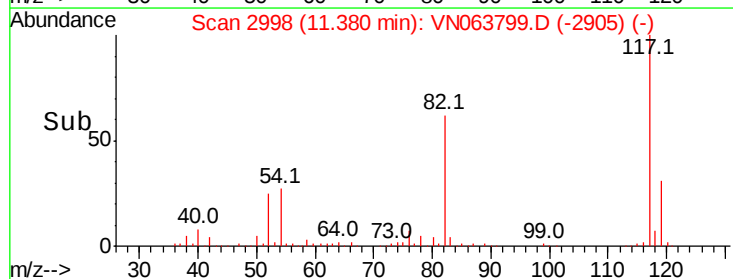
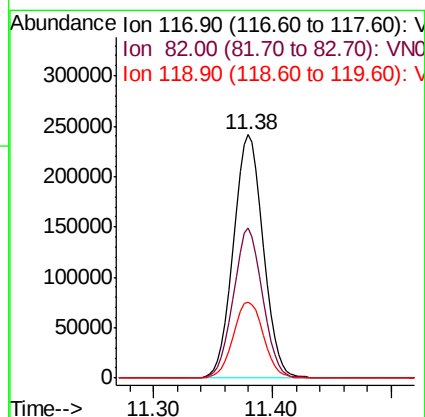
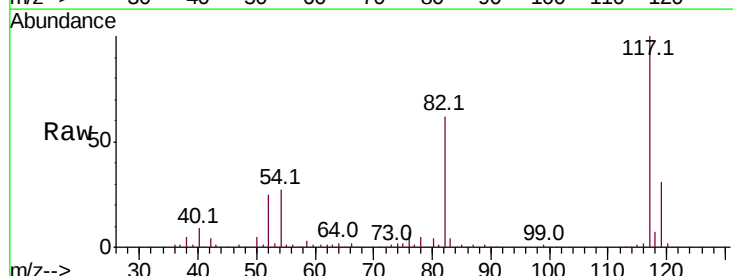
Instrument :
MSVOA_N
ClientSampleId :
PAV-B14-092920-0-1

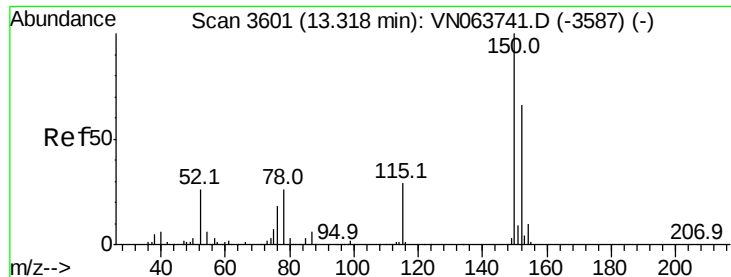
Tot Ion	95	Ratio	Lower	Upper
95	100			
174	74.9	0.0	150.6	
176	73.2	0.0	145.4	



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063799.D
Acq: 2 Oct 2020 3:20

Tgt Ion	117	Ratio	Lower	Upper
117	100			
82	61.5	47.4	71.2	
119	31.2	26.4	39.6	





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

PAV-B14-092920-0-1

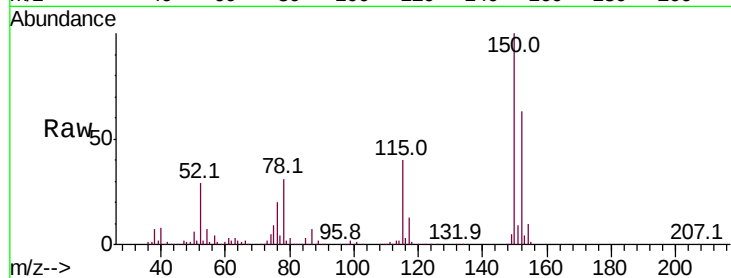
Tot Ion:152 Resp: 171560

Ion Ratio Lower Upper

152 100

115 62.9 31.3 93.8

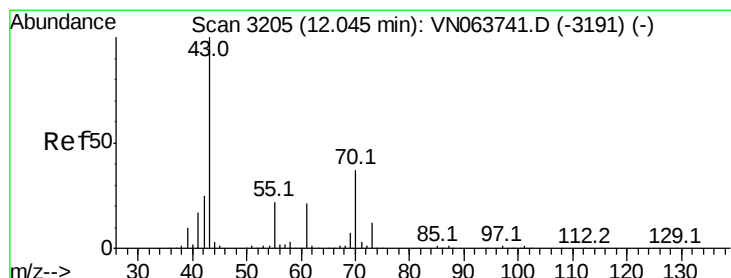
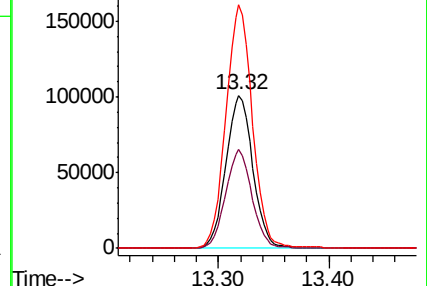
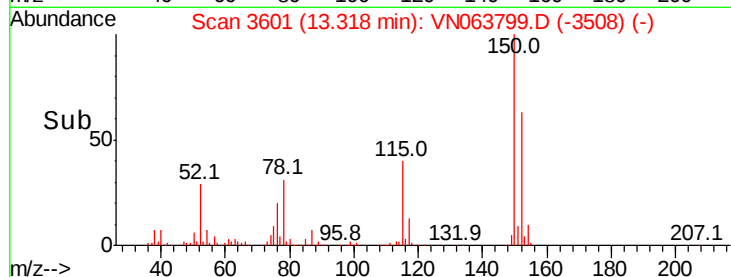
150 155.5 0.0 341.8



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: 2.545 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Tgt Ion: 43 Resp: 2002

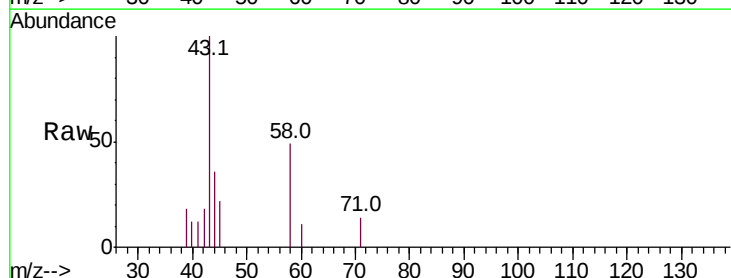
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 10.0 17.9 26.9#

61 0.0 17.0 25.4#

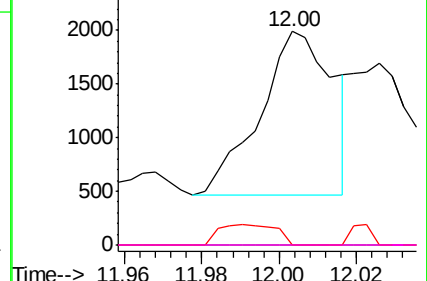
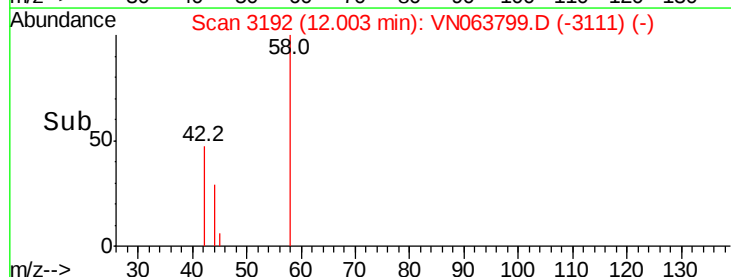


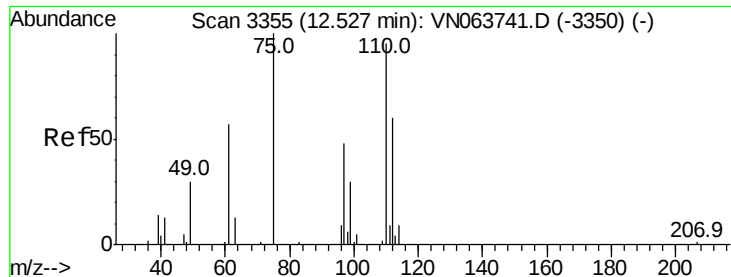
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.019 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

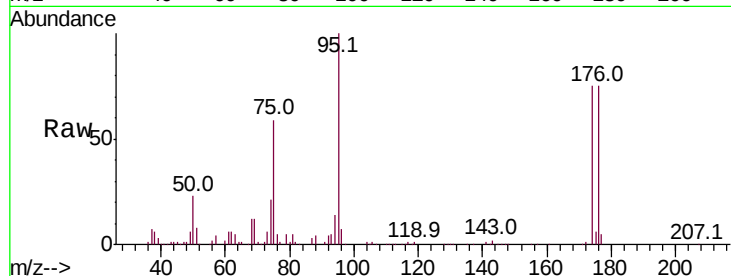
PAV-B14-092920-0-1

Tot Ion: 75 Resp: 117309

Ion Ratio Lower Upper

75 100

77 0.9 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

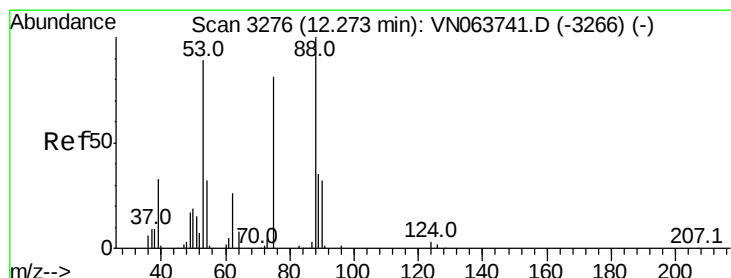
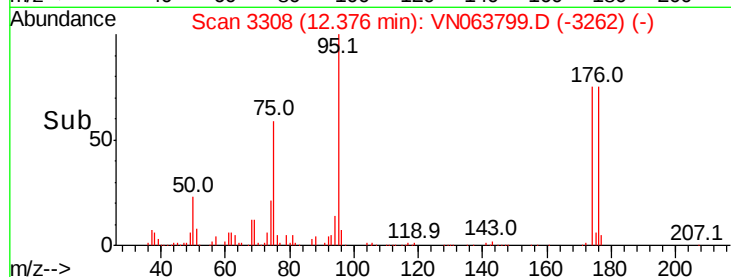
60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 89.339 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063799.D

Acq: 2 Oct 2020 3:20

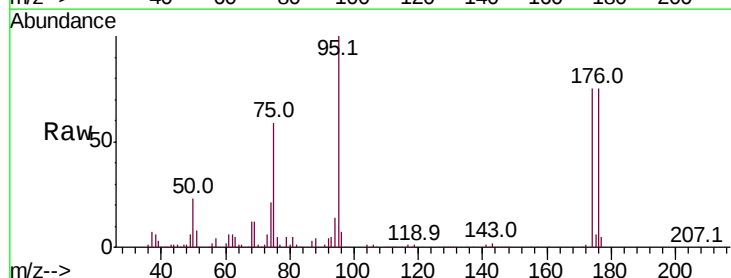
Tgt Ion: 75 Resp: 117309

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

12.38

80000

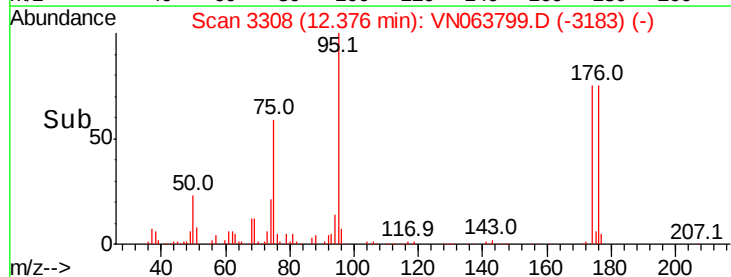
60000

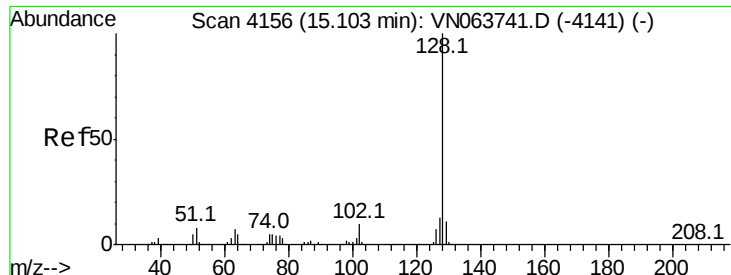
40000

20000

0

Time--> 12.30 12.35 12.40 12.45





#95

Naphthalene

Concen: 1.989 ug/l

RT: 15.12 min Scan# 4160

Delta R.T. 0.01 min

Lab File: VN063799.D

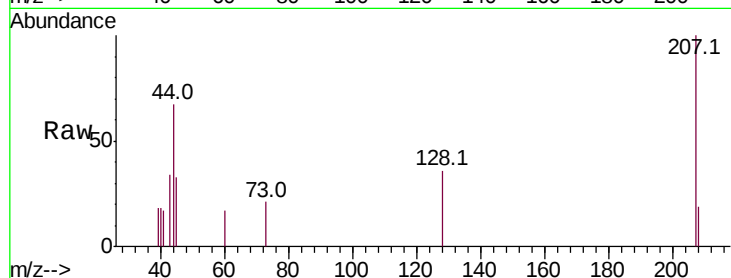
Acq: 2 Oct 2020 3:20

Instrument :

MSVOA_N

ClientSampleId :

PAV-B14-092920-0-1



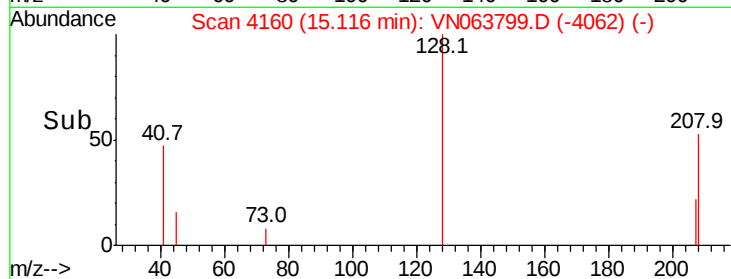
Tot Ion:128 Resp: 620

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 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

