

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100820\
 Data File : VN064027.D
 Acq On : 9 Oct 2020 7:40
 Operator : JC/MD
 Sample : L4311-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B10-100720-16-17

Quant Time: Oct 09 12:07:28 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	253777	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	487085	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	497632	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	189072	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	211006	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
35) Dibromofluoromethane	7.55	113	156536	46.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.64%	
50) Toluene-d8	10.06	98	614025	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
62) 4-Bromofluorobenzene	12.38	95	229902	47.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	15607	12.093	ug/l	96
17) Carbon Disulfide	4.01	76	230	0.733	ug/l #	76
18) Methyl Acetate	4.28	43	3242	0.967	ug/l #	83
20) Methylene Chloride	4.51	84	10604	3.678	ug/l	93
25) 2-Butanone	6.79	43	1432	0.783	ug/l #	51
29) Tetrahydrofuran	7.16	42	483	0.394	ug/l #	47
31) Cyclohexane	7.62	56	5965	1.226	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	21715	4.401	ug/l #	50
38) Carbon Tetrachloride	7.62	117	26945	4.869	ug/l #	15
43) Isopropyl Acetate	8.13	43	86330	10.676	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1966	0.516	ug/l #	44
48) Methyl methacrylate	9.24	41	165009	41.301	ug/l #	44
49) 1,4-Dioxane	9.22	88	78	1.374	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8715	1.836	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	33348	5.497	ug/l #	64
56) Ethyl methacrylate	10.52	69	2823	0.570	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6154	1.040	ug/l #	43
59) 2-Hexanone	10.74	43	101137	28.688	ug/l #	54
74) N-amyl acetate	12.01	43	2325	2.563	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	123099	29.535	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123099	85.066	ug/l #	6
95) Naphthalene	15.11	128	165	1.940	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: VN064027.D

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MSVOA_N

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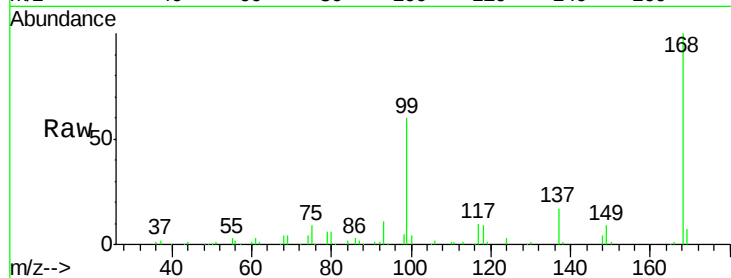
PAV-B10-100720-16-17

Tgt Ion:168 Resp: 253777

Ion Ratio Lower Upper

168 100

99 59.9 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

120000

100000

80000

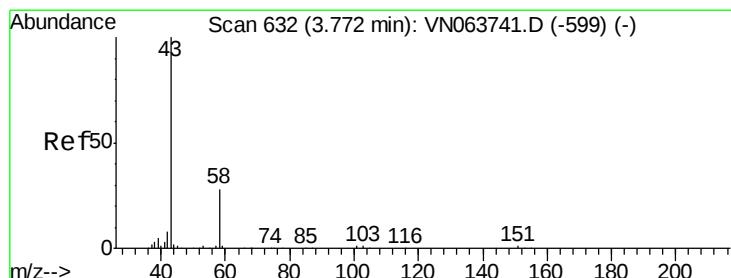
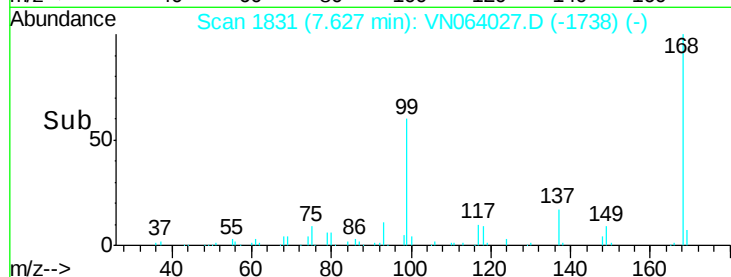
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 12.093 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064027.D

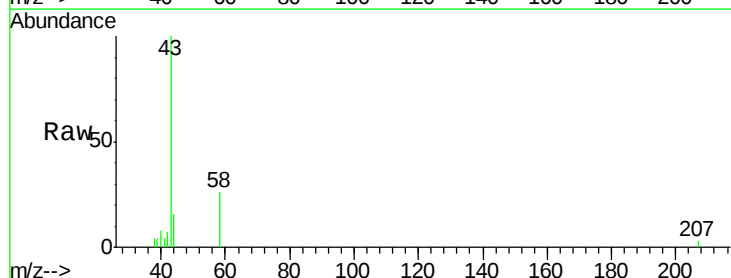
Acq: 9 Oct 2020 7:40

Tgt Ion: 43 Resp: 15607

Ion Ratio Lower Upper

43 100

58 26.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.79

6000

5000

4000

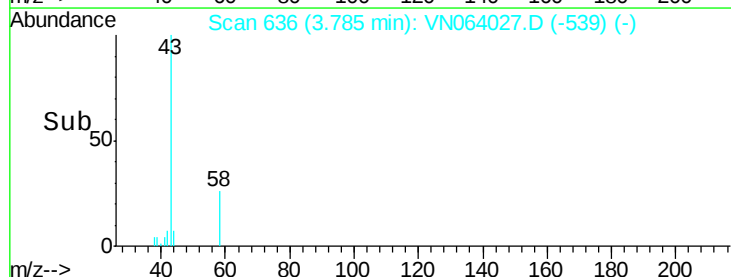
3000

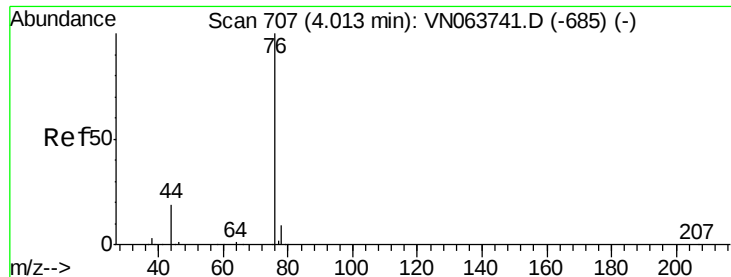
2000

1000

0

Time--> 3.70 3.80 3.90





#17

Carbon Disulfide

Concen: 0.733 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

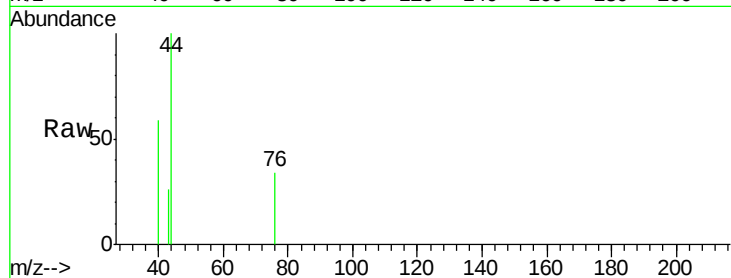
PAV-B10-100720-16-17

Tgt Ion: 76 Resp: 230

Ion Ratio Lower Upper

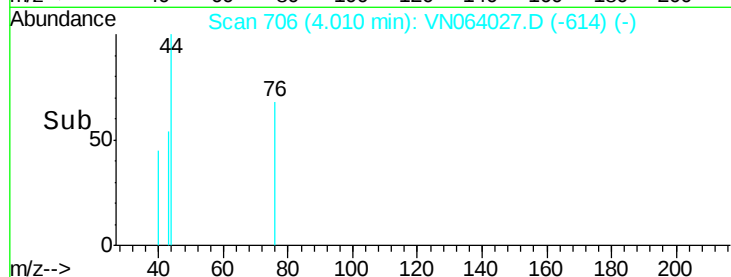
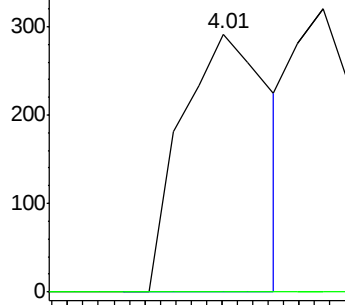
76 100

78 0.0 7.0 10.4#

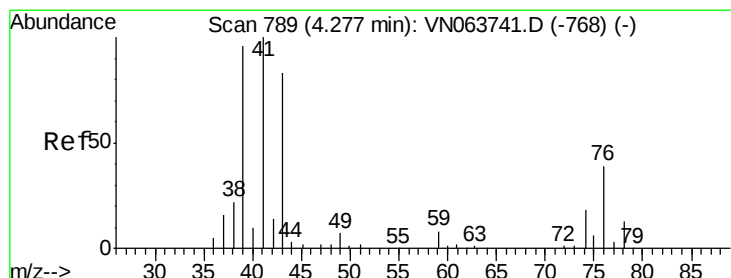


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#18

Methyl Acetate

Concen: 0.967 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN064027.D

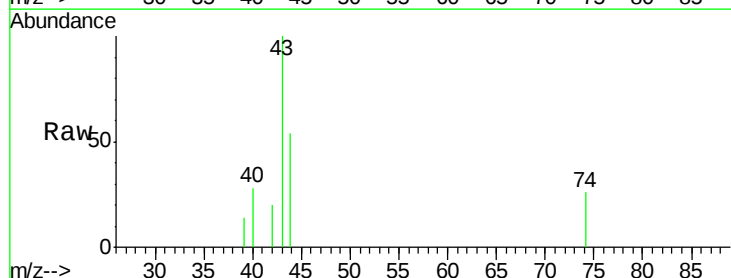
Acq: 9 Oct 2020 7:40

Tgt Ion: 43 Resp: 3242

Ion Ratio Lower Upper

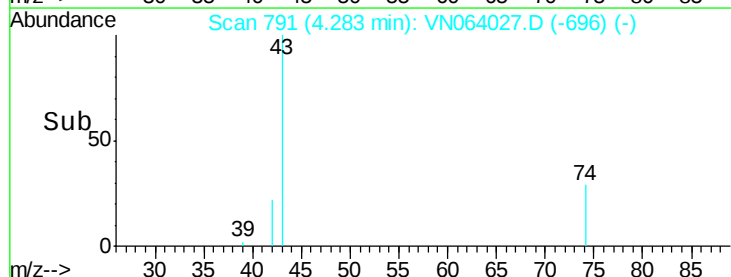
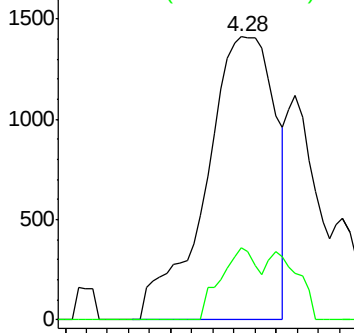
43 100

74 13.6 17.4 26.2#

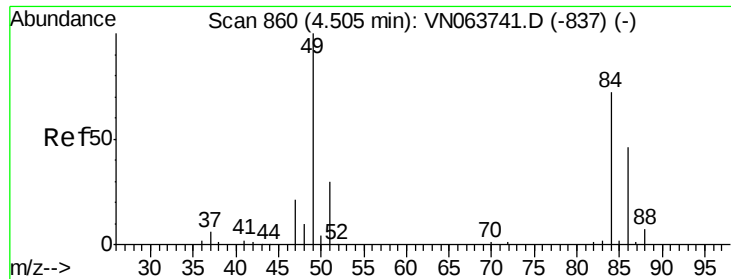


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



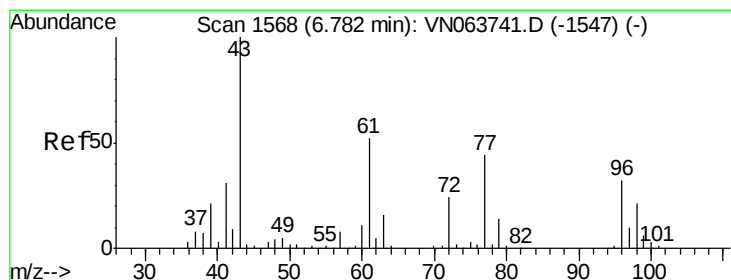
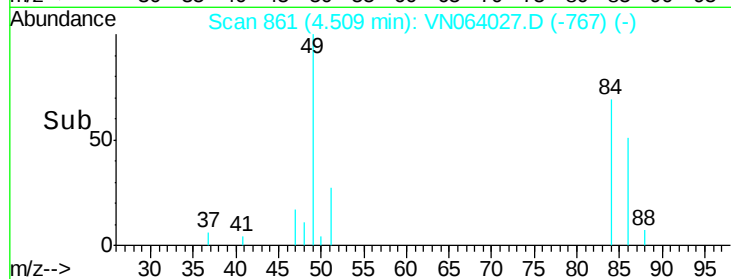
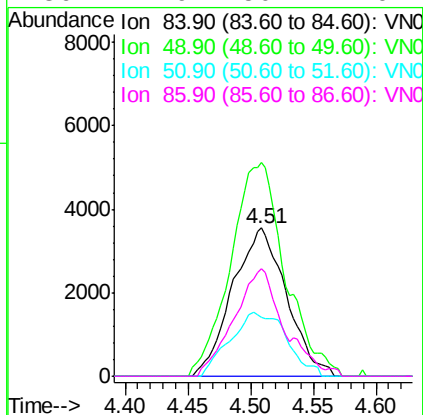
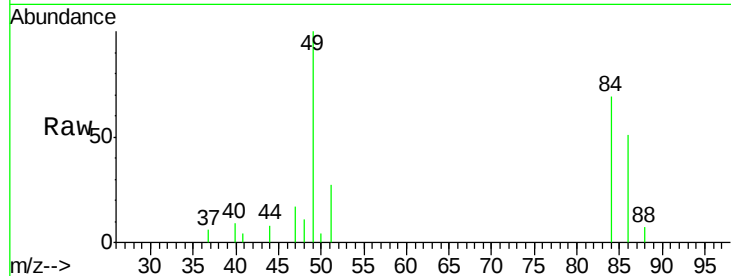
Time-->



#20
Methylene Chloride
Concen: 3.678 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN064027.D
Acq: 9 Oct 2020 7:40

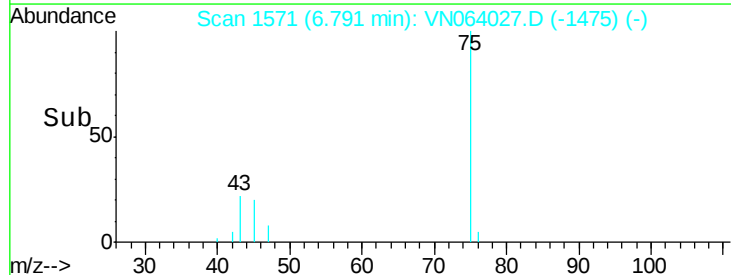
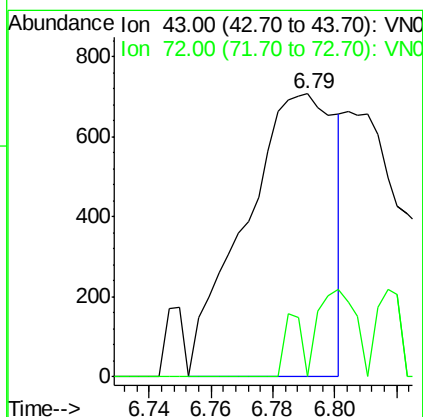
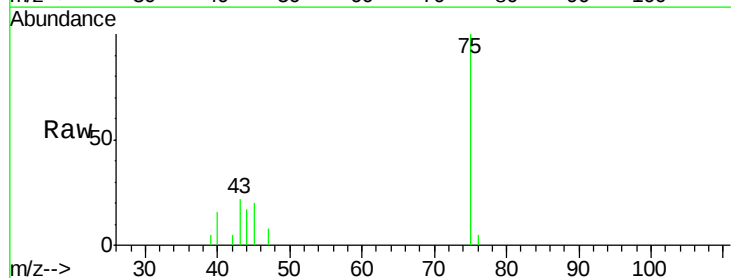
Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-16-17

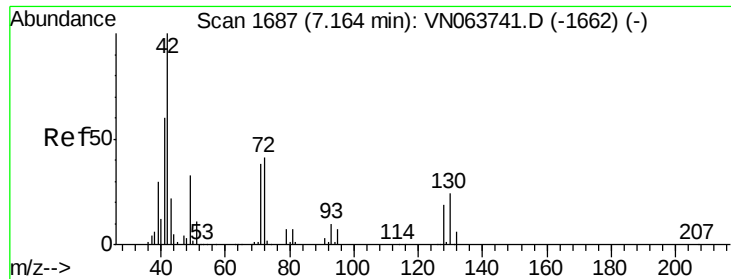
Tgt Ion:	84	Resp:	10604
Ion	Ratio	Lower	Upper
84	100		
49	144.4	110.4	165.6
51	39.4	33.3	49.9
86	72.9	50.7	76.1



#25
2-Butanone
Concen: 0.783 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN064027.D
Acq: 9 Oct 2020 7:40

Tgt Ion:	43	Resp:	1432
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.3	28.9#

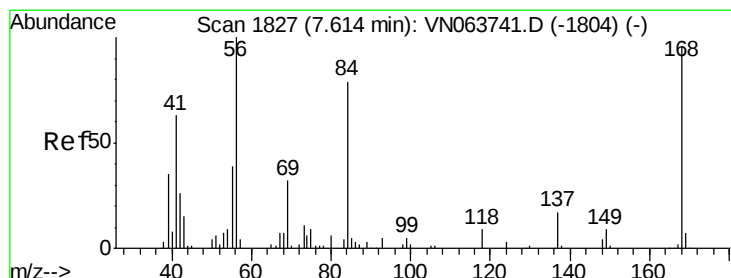
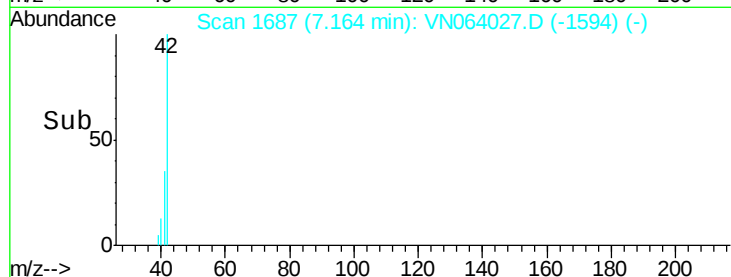
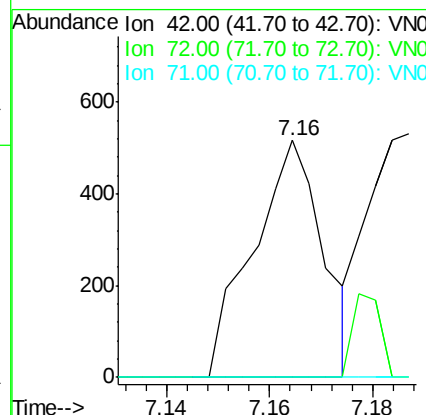
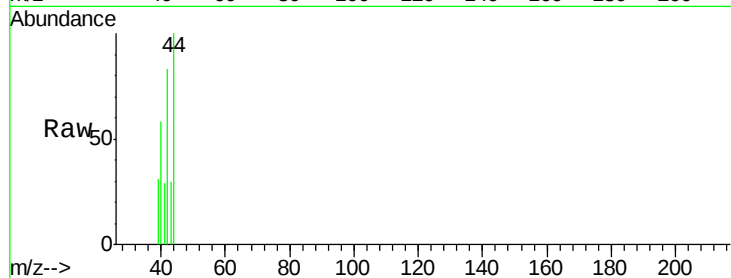




#29
Tetrahydrofuran
Concen: 0.394 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN064027.D
Acq: 9 Oct 2020 7:40

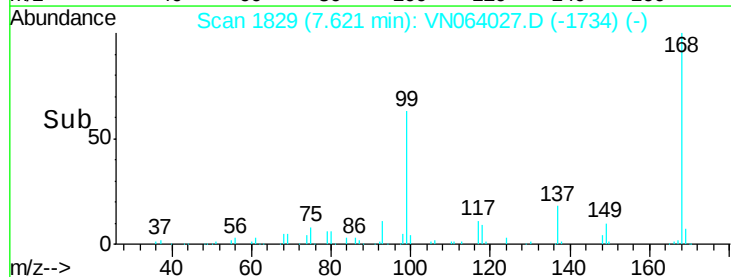
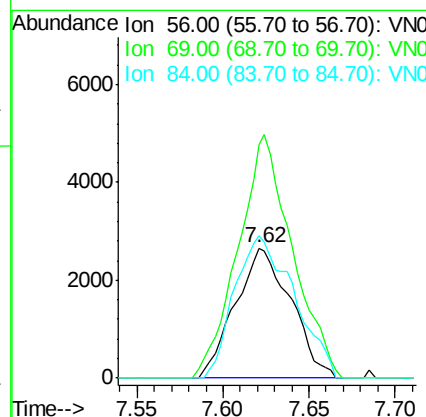
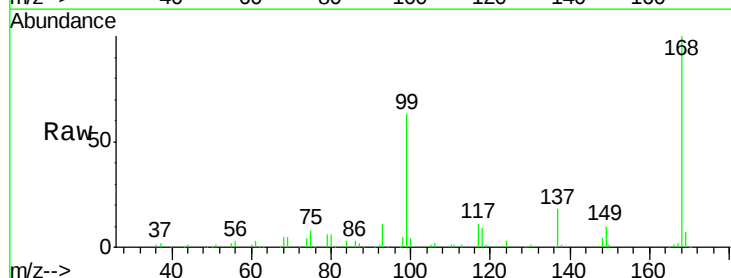
Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-16-17

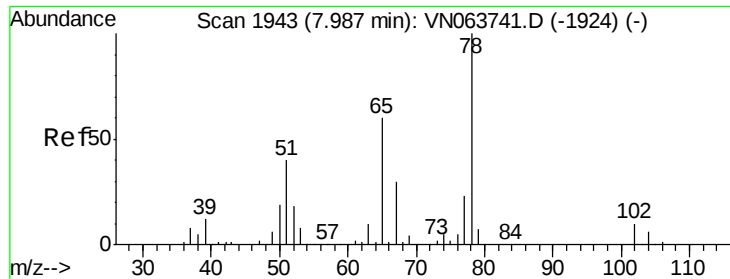
Tgt Ion: 42 Resp: 483
Ion Ratio Lower Upper
42 100
72 13.9 32.8 49.2#
71 0.0 30.6 45.8#



#31
Cyclohexane
Concen: 1.226 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064027.D
Acq: 9 Oct 2020 7:40

Tgt Ion: 56 Resp: 5965
Ion Ratio Lower Upper
56 100
69 179.4 25.4 38.2#
84 109.4 63.3 94.9#





#33

1,2-Dichloroethane-d4

Concen: 50.329 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

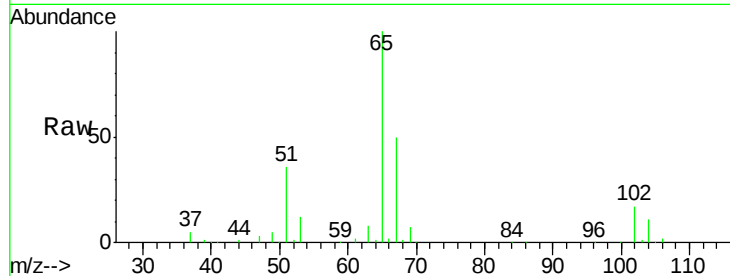
PAV-B10-100720-16-17

Tgt Ion: 65 Resp: 211006

Ion Ratio Lower Upper

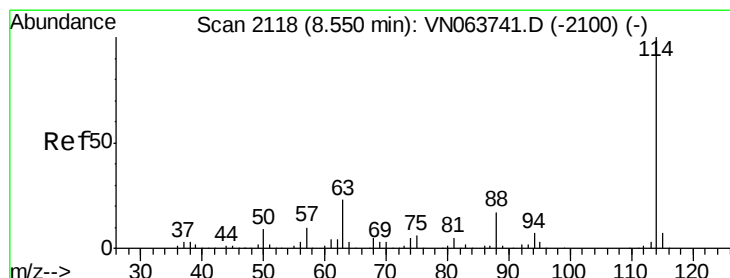
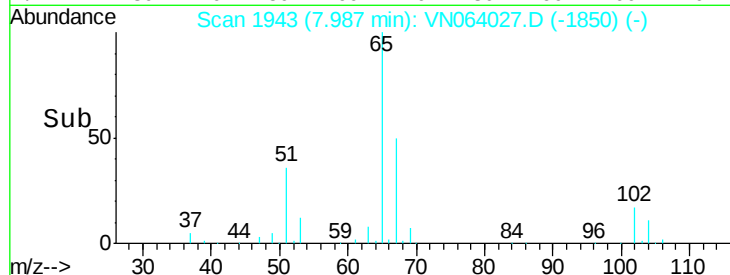
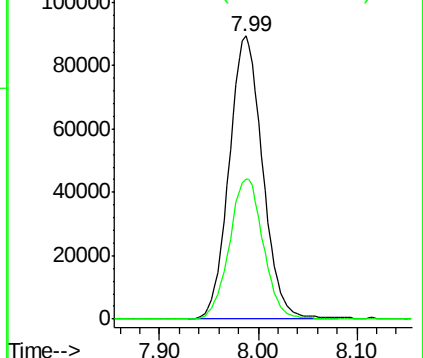
65 100

67 50.1 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: VN064027.D

Acq: 9 Oct 2020 7:40

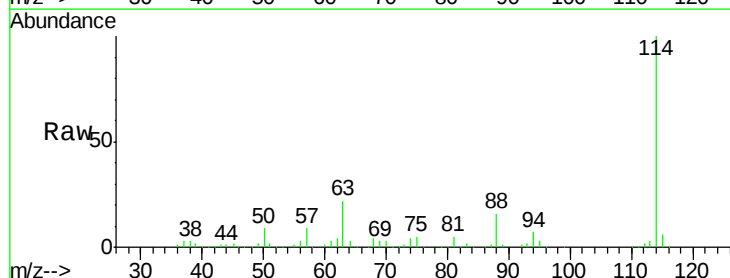
Tgt Ion: 114 Resp: 487085

Ion Ratio Lower Upper

114 100

63 21.7 0.0 45.0

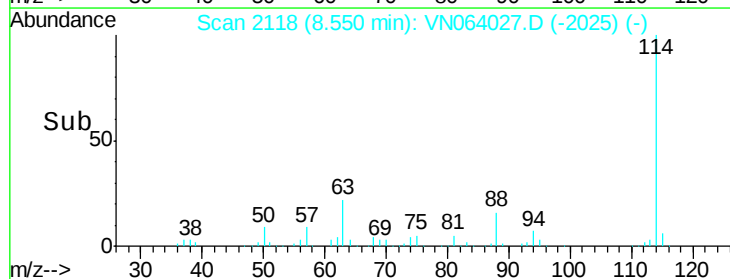
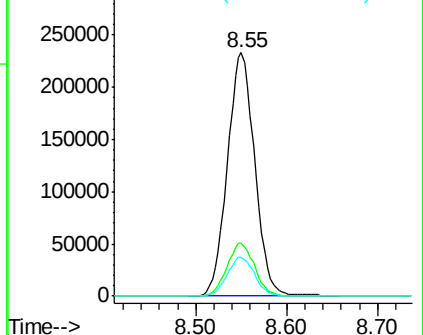
88 15.8 0.0 34.0

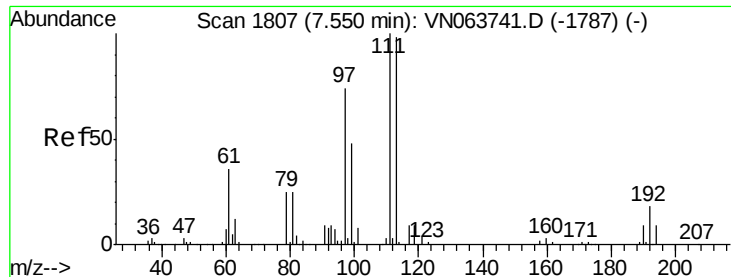


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

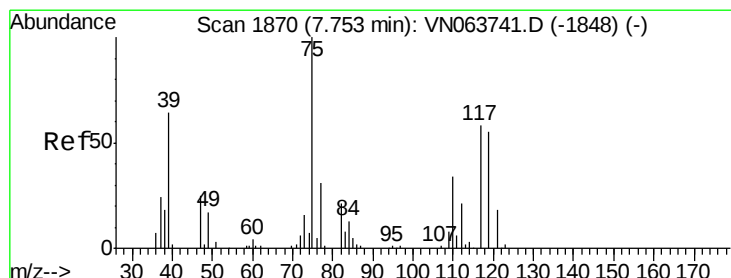
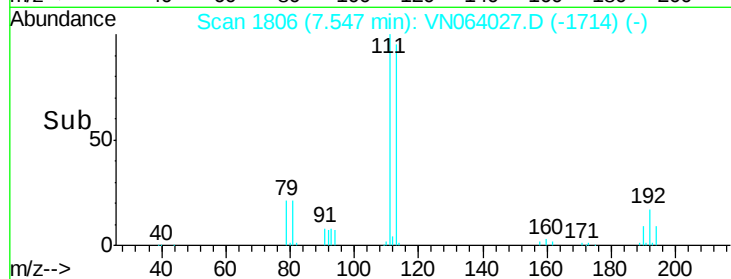
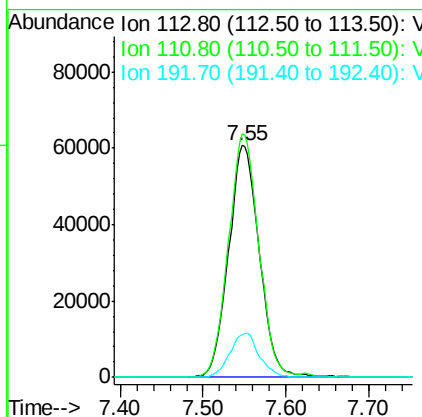
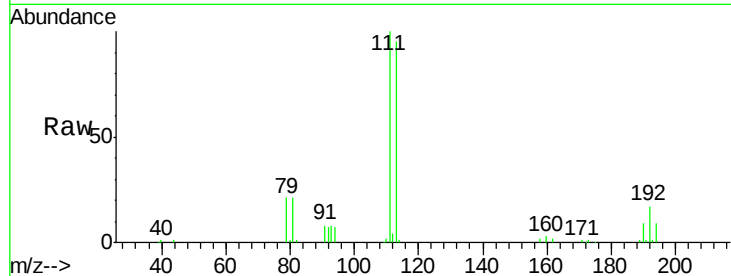




#35
 Dibromofluoromethane
 Concen: 46.316 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064027.D
 Acq: 9 Oct 2020 7:40

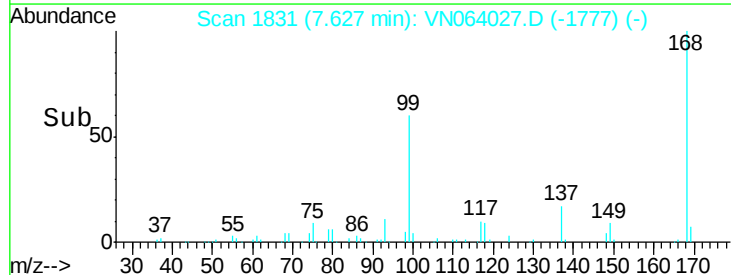
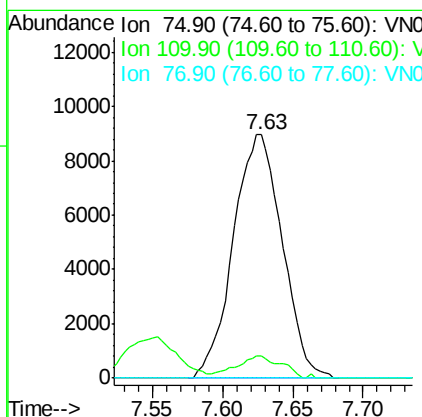
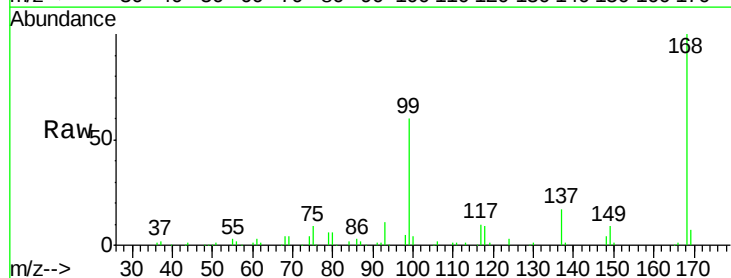
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 PAV-B10-100720-16-17

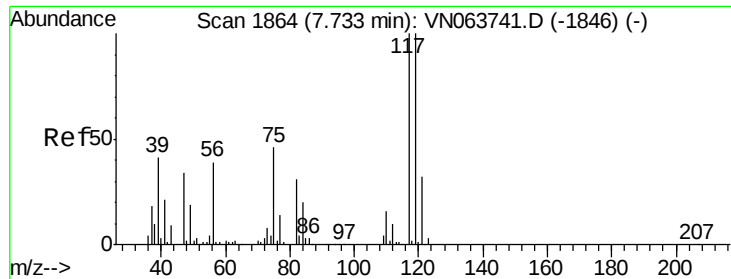
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.8
192	18.3	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 4.401 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064027.D
 Acq: 9 Oct 2020 7:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.9	50.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 4.869 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-16-17

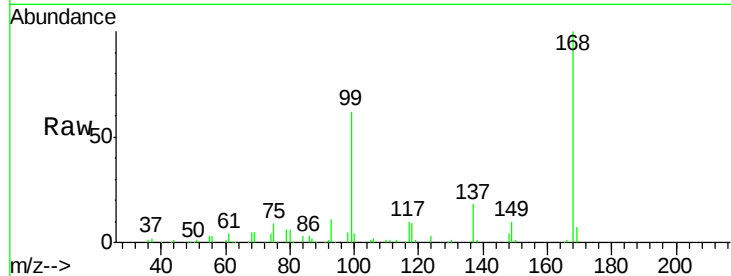
Tgt Ion:117 Resp: 26945

Ion Ratio Lower Upper

117 100

119 6.7 80.1 120.1#

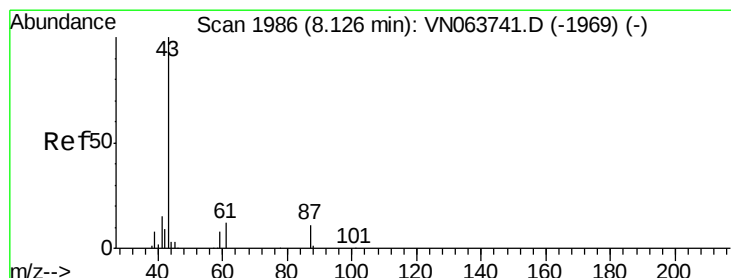
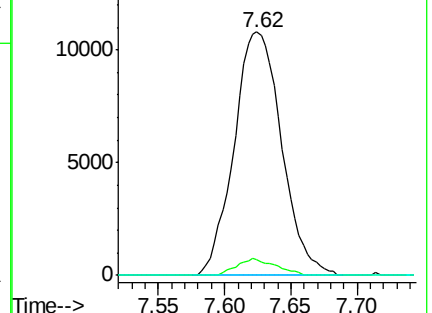
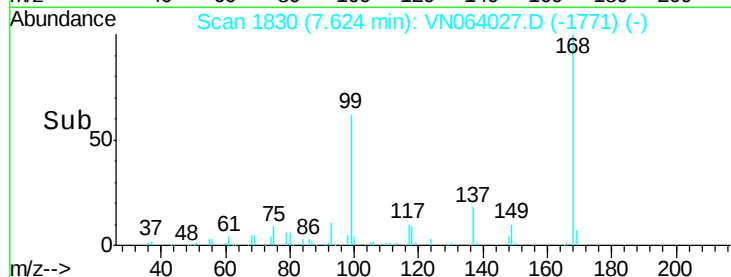
121 0.0 25.7 38.5#



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



#43

Isopropyl Acetate

Concen: 10.676 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

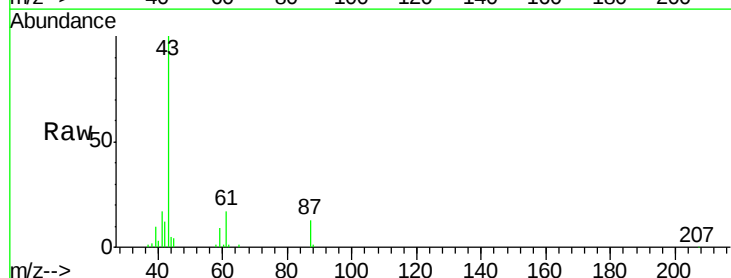
Tgt Ion: 43 Resp: 86330

Ion Ratio Lower Upper

43 100

61 17.5 14.2 21.4

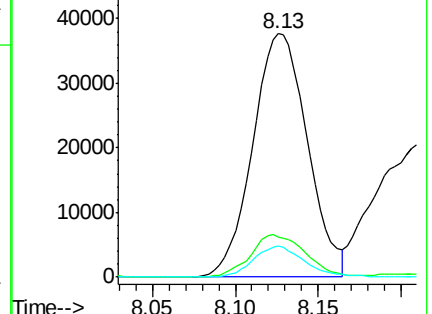
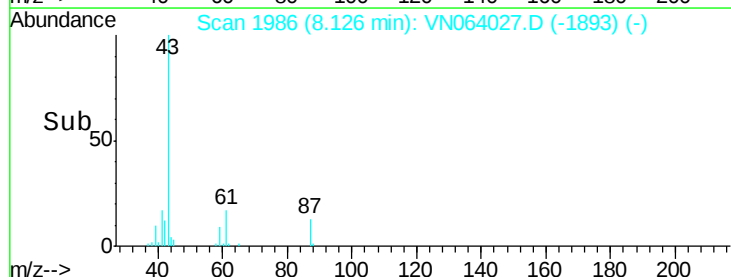
87 11.8 9.0 13.6

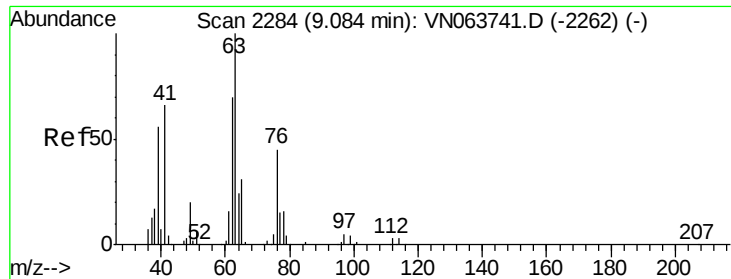


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.516 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

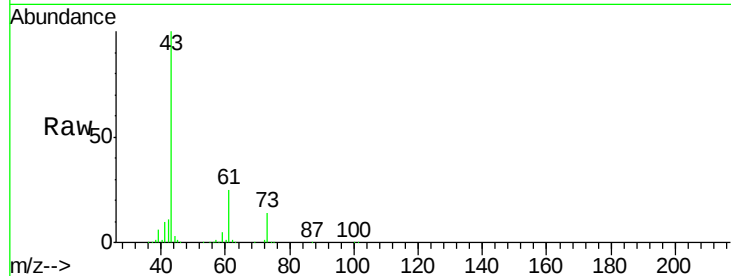
PAV-B10-100720-16-17

Tgt Ion: 63 Resp: 1966

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

9.23

1500

1000

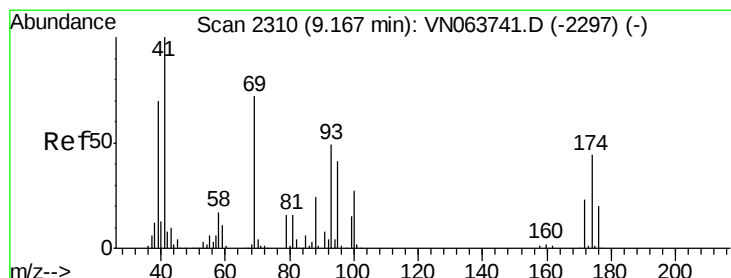
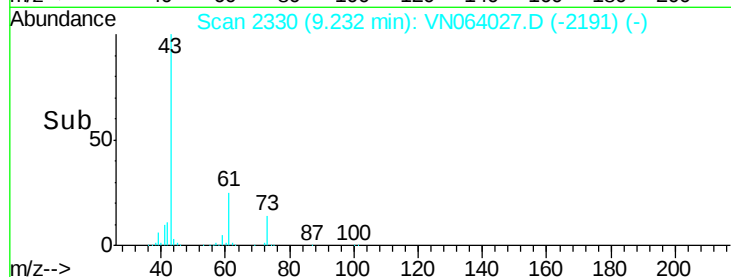
500

0

Time-->

9.20

9.25



#48

Methyl methacrylate

Concen: 41.301 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

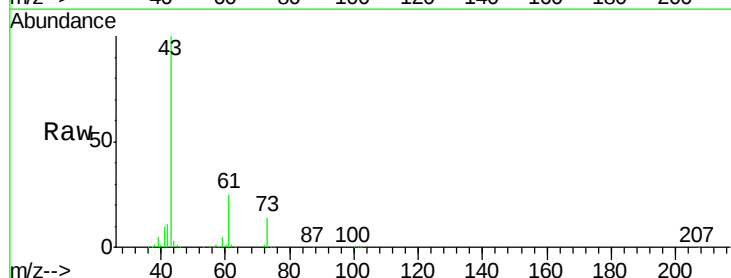
Tgt Ion: 41 Resp: 165009

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

39 54.4 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

120000

100000

80000

60000

40000

20000

0

Time-->

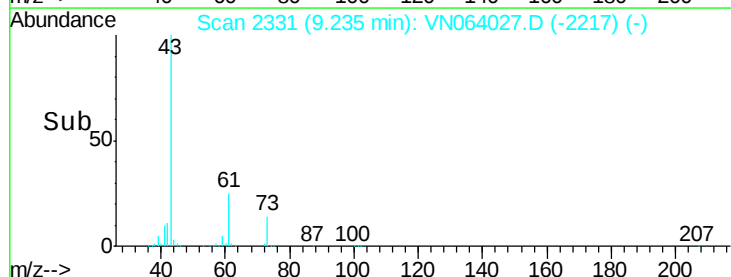
9.15

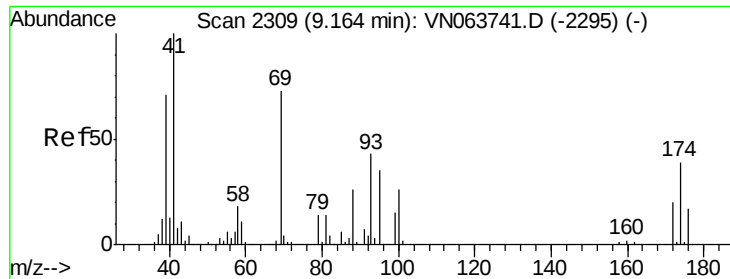
9.20

9.25

9.30

9.35





#49

1,4-Dioxane

Concen: 1.374 ug/l

RT: 9.22 min Scan# 2326

Delta R.T. 0.05 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-16-17

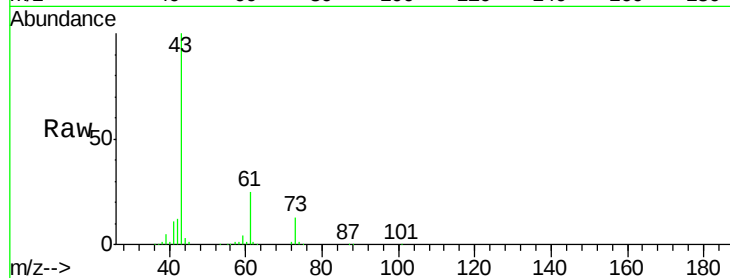
Tgt Ion: 88 Resp: 78

Ion Ratio Lower Upper

88 100

43 2142432.1 33.1 49.7#

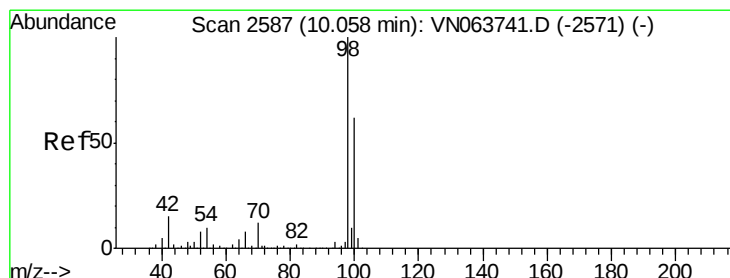
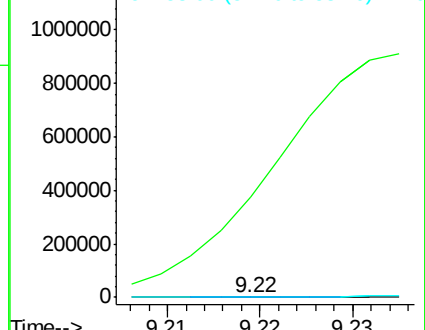
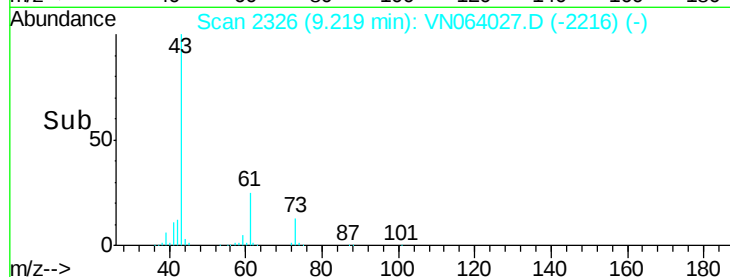
58 10401.3 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN064027.D (-2326) (-)

Ion 43.00 (42.70 to 43.70): VN064027.D (-2326) (-)

Ion 58.00 (57.70 to 58.70): VN064027.D (-2326) (-)



#50

Toluene-d8

Concen: 47.925 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064027.D

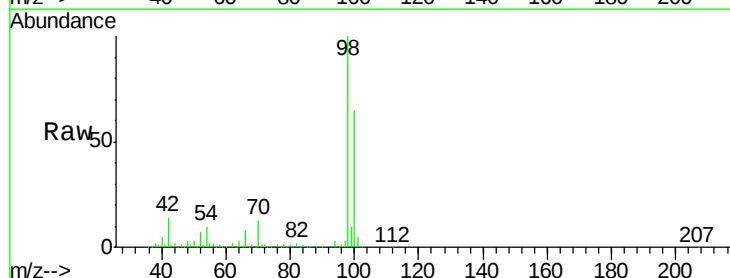
Acq: 9 Oct 2020 7:40

Tgt Ion: 98 Resp: 614025

Ion Ratio Lower Upper

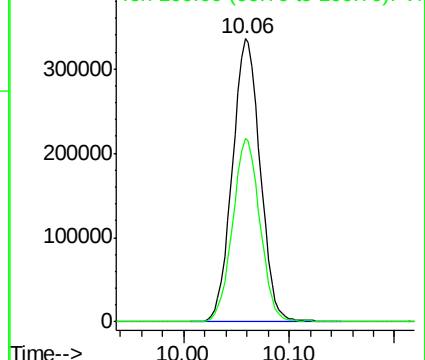
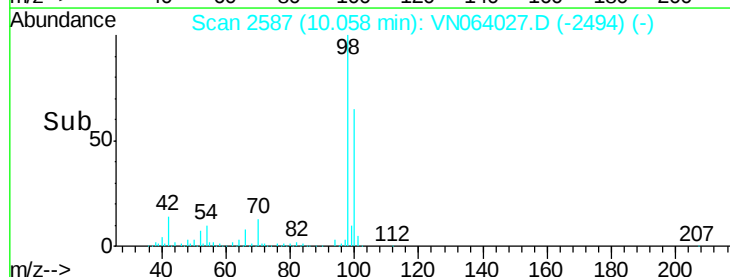
98 100

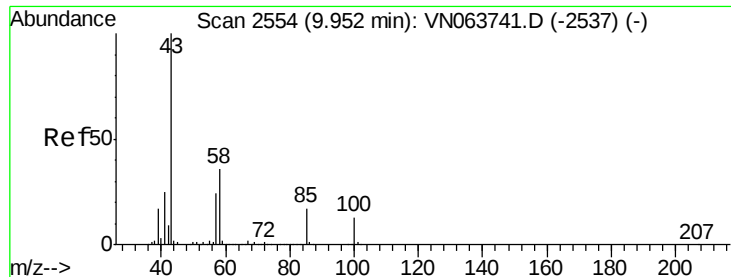
100 63.3 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN064027.D (-2587) (-)

Ion 100.00 (99.70 to 100.70): VN064027.D (-2587) (-)

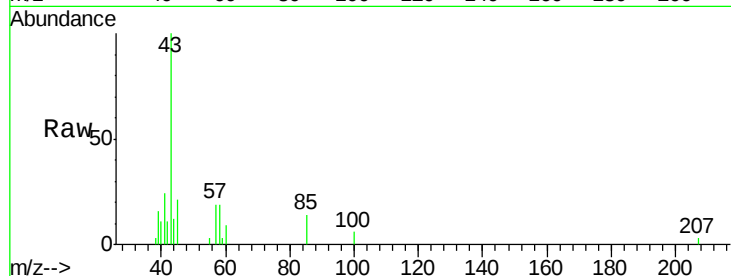




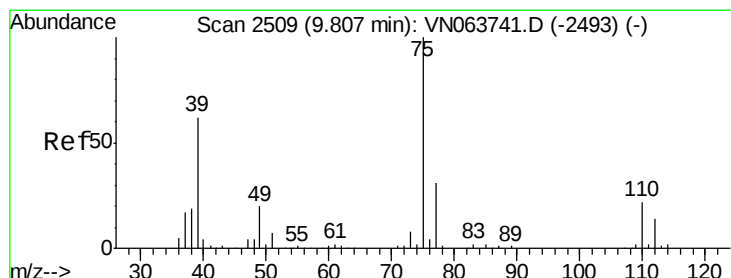
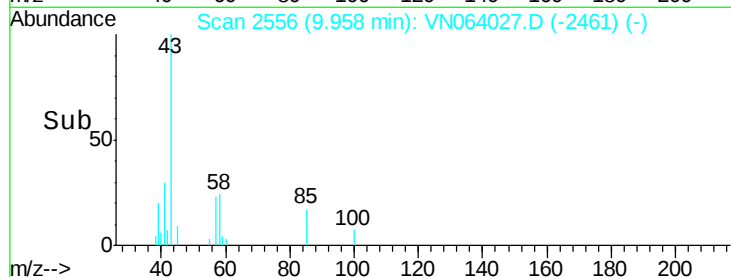
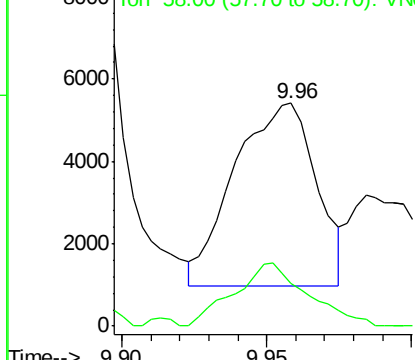
#51
 4-Methyl-2-Pentanone
 Concen: 1.836 ug/l
 RT: 9.96 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN064027.D
 Acq: 9 Oct 2020 7:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B10-100720-16-17

Tgt Ion: 43 Resp: 8715
 Ion Ratio Lower Upper
 43 100
 58 31.2 28.4 42.6

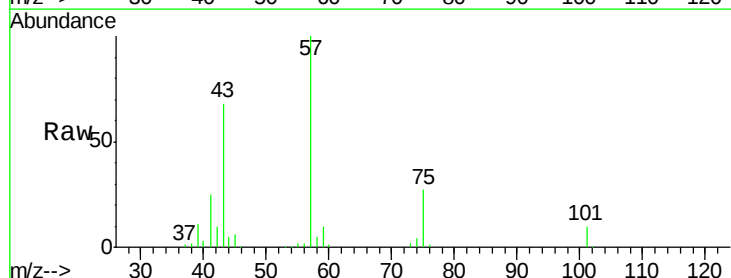


Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

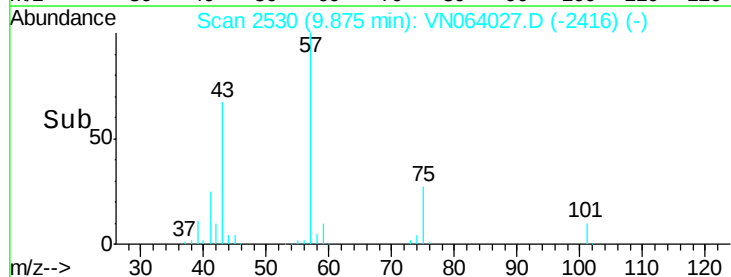
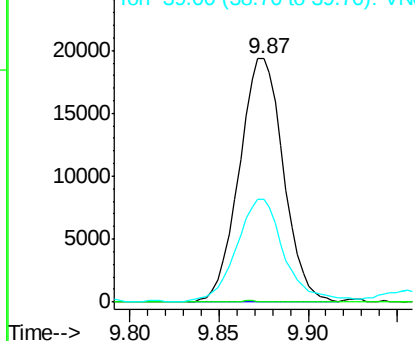


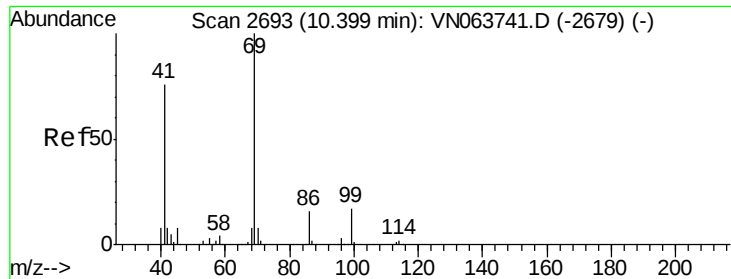
#54
 cis-1,3-Dichloropropene
 Concen: 5.497 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064027.D
 Acq: 9 Oct 2020 7:40

Tgt Ion: 75 Resp: 33348
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 41.5 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#56

Ethyl methacrylate

Concen: 0.570 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-16-17

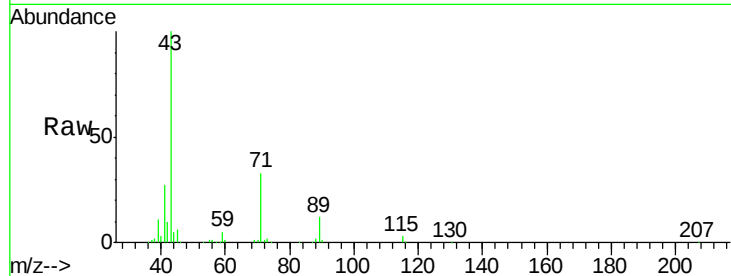
Tgt Ion: 69 Resp: 2823

Ion Ratio Lower Upper

69 100

41 3214.1 61.1 91.7#

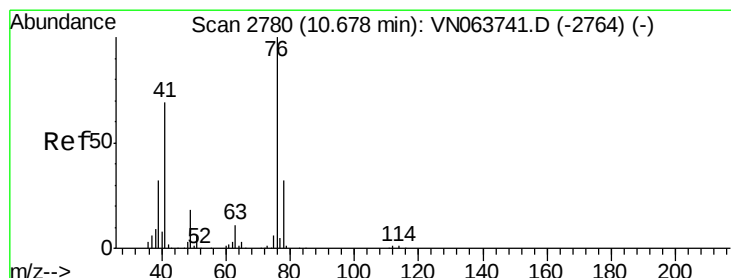
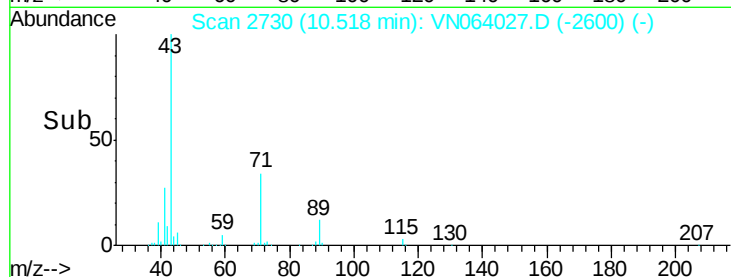
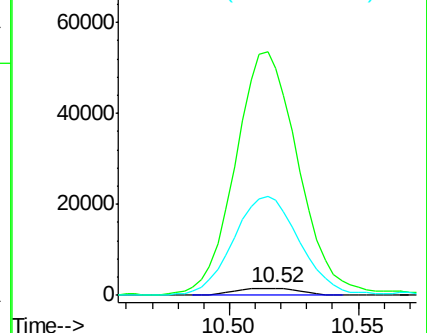
39 1399.4 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VN063741.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN063741.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN063741.D (-2679) (-)



#57

1,3-Dichloropropane

Concen: 1.040 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064027.D

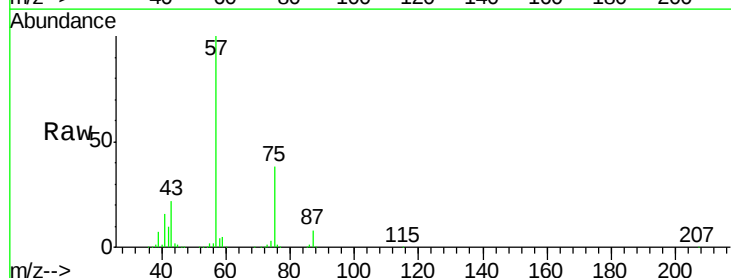
Acq: 9 Oct 2020 7:40

Tgt Ion: 76 Resp: 6154

Ion Ratio Lower Upper

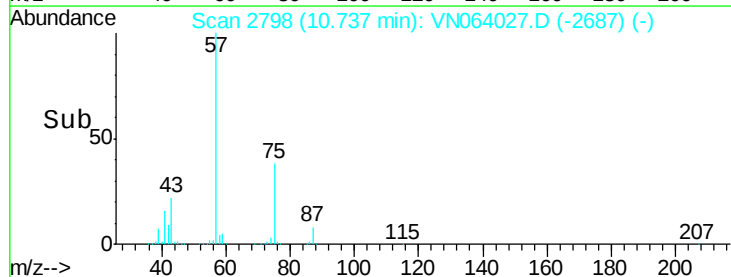
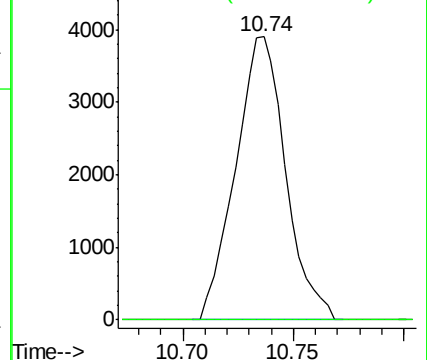
76 100

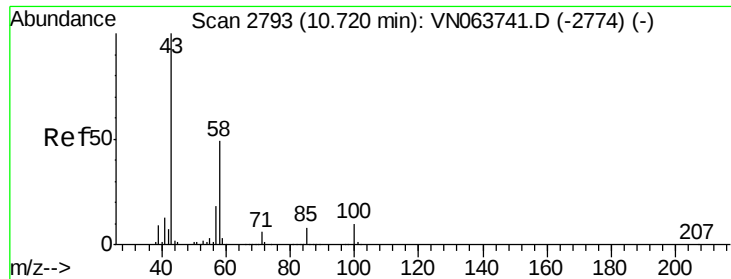
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN063741.D (-2764) (-)

Ion 77.90 (77.60 to 78.60): VN063741.D (-2764) (-)





#59

2-Hexanone

Concen: 28.688 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

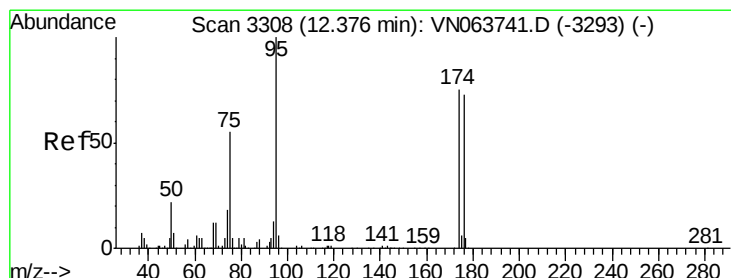
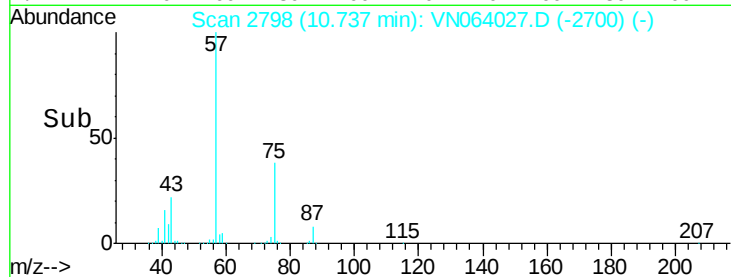
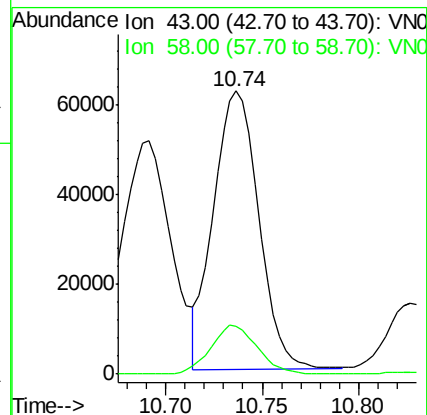
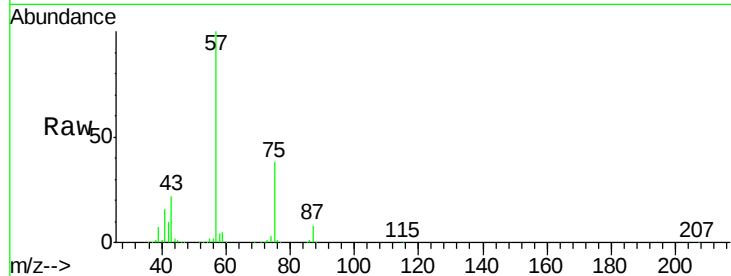
PAV-B10-100720-16-17

Tgt Ion: 43 Resp: 101137

Ion Ratio Lower Upper

43 100

58 18.0 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 47.734 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

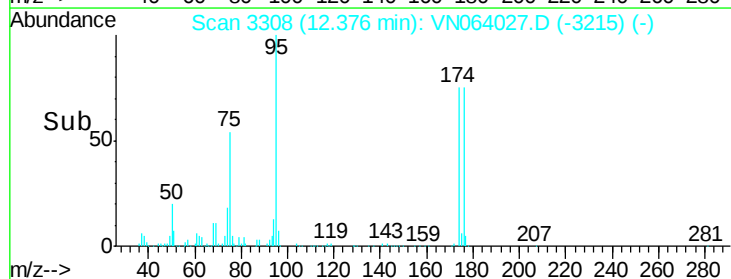
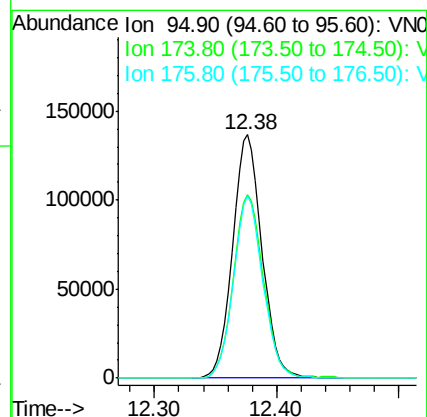
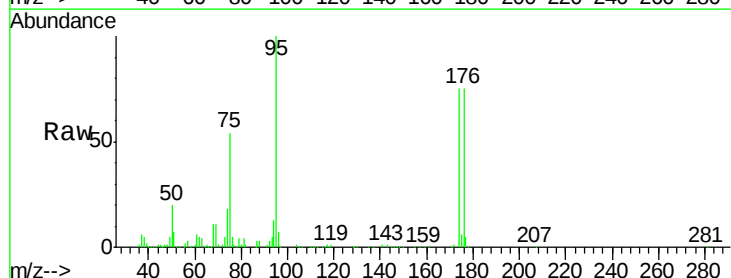
Tgt Ion: 95 Resp: 229902

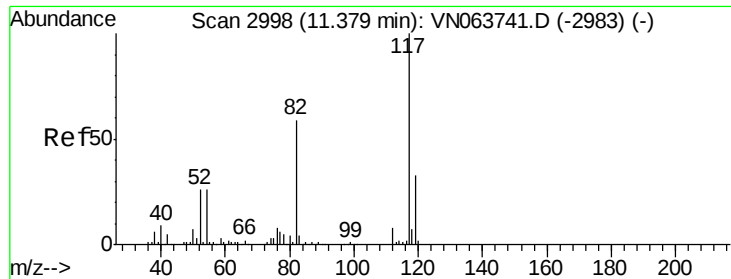
Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.6

176 74.9 0.0 145.4

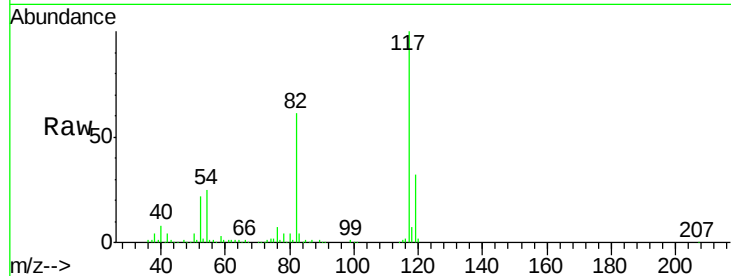




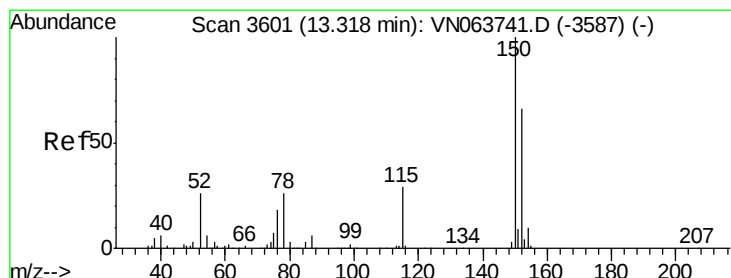
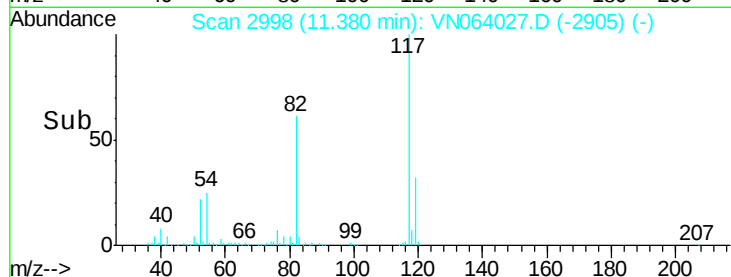
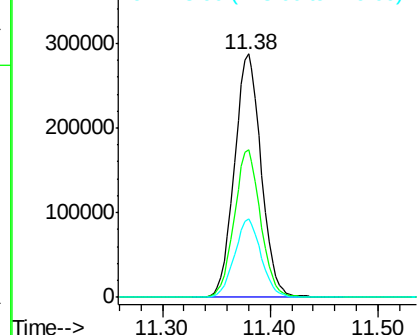
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064027.D
Acq: 9 Oct 2020 7:40

Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-16-17

Tgt Ion:117 Resp: 497632
Ion Ratio Lower Upper
117 100
82 60.8 47.4 71.2
119 32.2 26.4 39.6

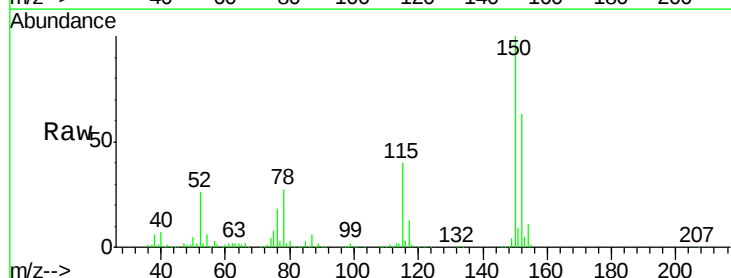


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

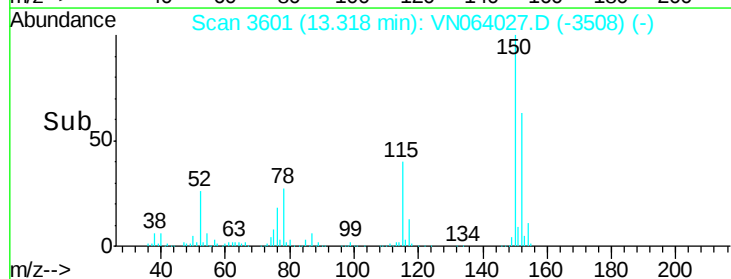
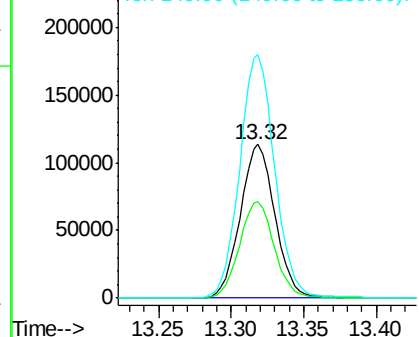


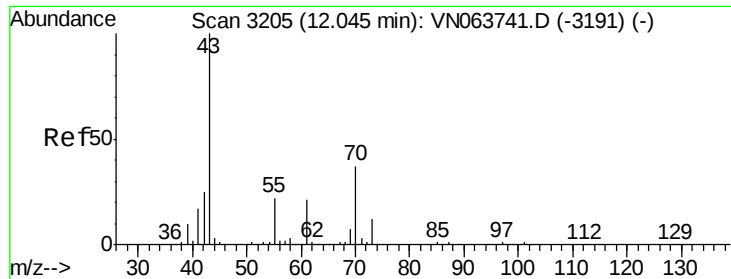
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064027.D
Acq: 9 Oct 2020 7:40

Tgt Ion:152 Resp: 189072
Ion Ratio Lower Upper
152 100
115 63.1 31.3 93.8
150 159.8 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: 2.563 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-16-17

Tgt Ion: 43 Resp: 2325

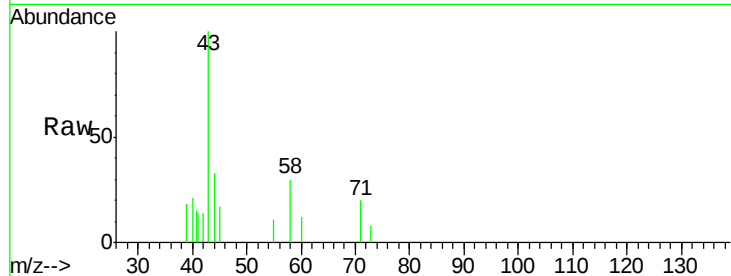
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 5.6 17.9 26.9#

61 0.0 17.0 25.4#

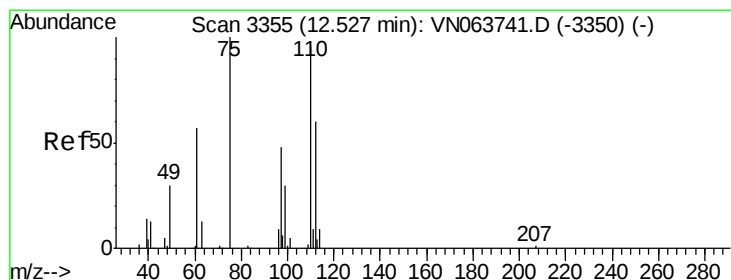
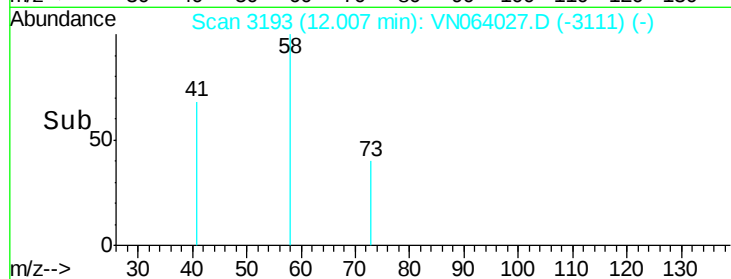
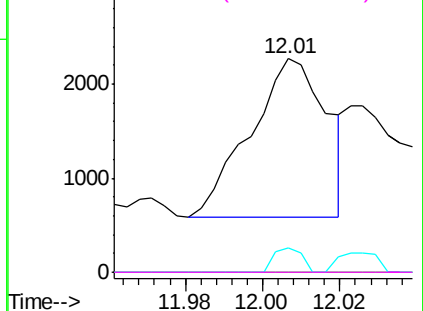


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.535 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064027.D

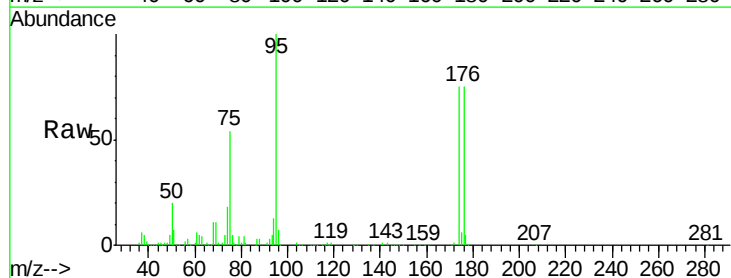
Acq: 9 Oct 2020 7:40

Tgt Ion: 75 Resp: 123099

Ion Ratio Lower Upper

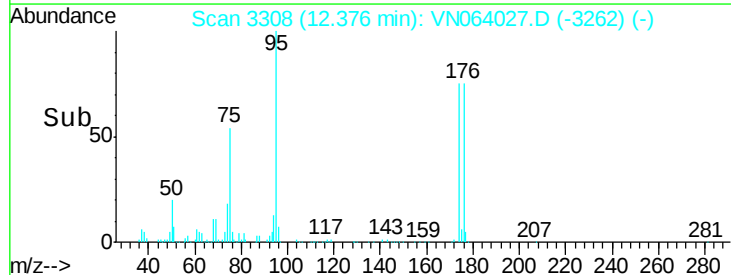
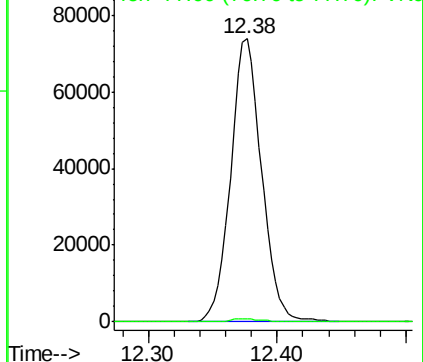
75 100

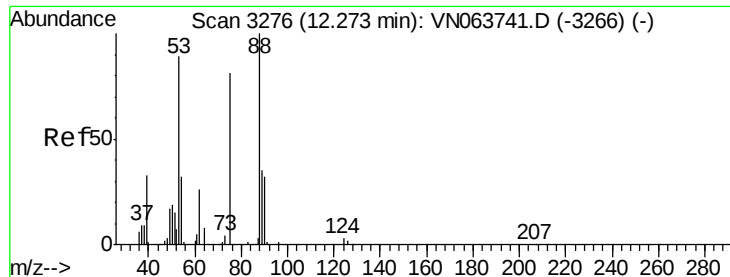
77 1.1 0.0 0.0#



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: 85.066 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-16-17

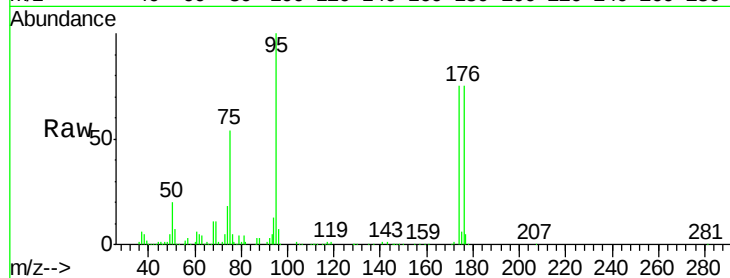
Tgt Ion: 75 Resp: 123099

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

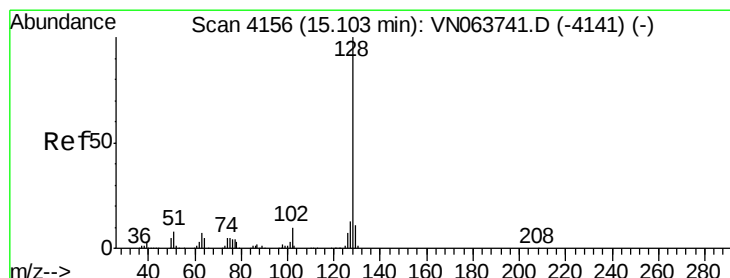
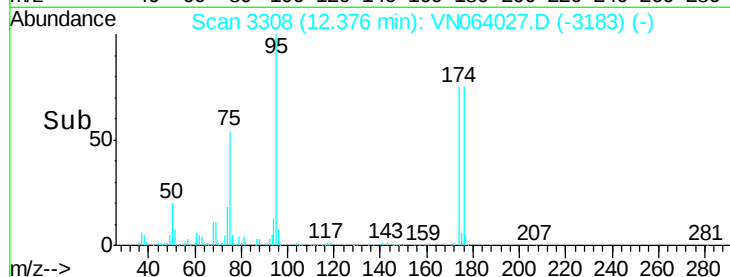
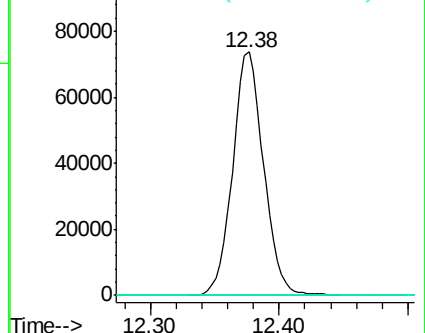
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN064027.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064027.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064027.D (-3183) (-)



#95

Naphthalene

Concen: 1.940 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064027.D

Acq: 9 Oct 2020 7:40

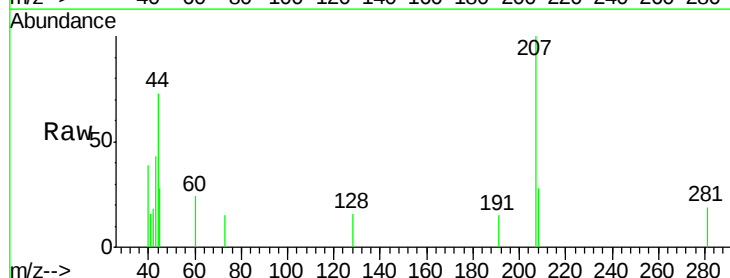
Tgt Ion: 128 Resp: 165

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): VN064027.D (-4062) (-)

Ion 127.00 (126.70 to 127.70): VN064027.D (-4062) (-)

Ion 129.00 (128.70 to 129.70): VN064027.D (-4062) (-)

