

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092220\
 Data File : VN063576.D
 Acq On : 23 Sep 2020 9:40
 Operator : JC/MD
 Sample : L4104-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B29-092120-16-17

Quant Time: Sep 23 10:19:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	212532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	407676	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	415006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	169681	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	181353	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
35) Dibromofluoromethane	7.55	113	130629	46.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.58%	
50) Toluene-d8	10.06	98	521873	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	12.38	95	200957	51.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.32%	

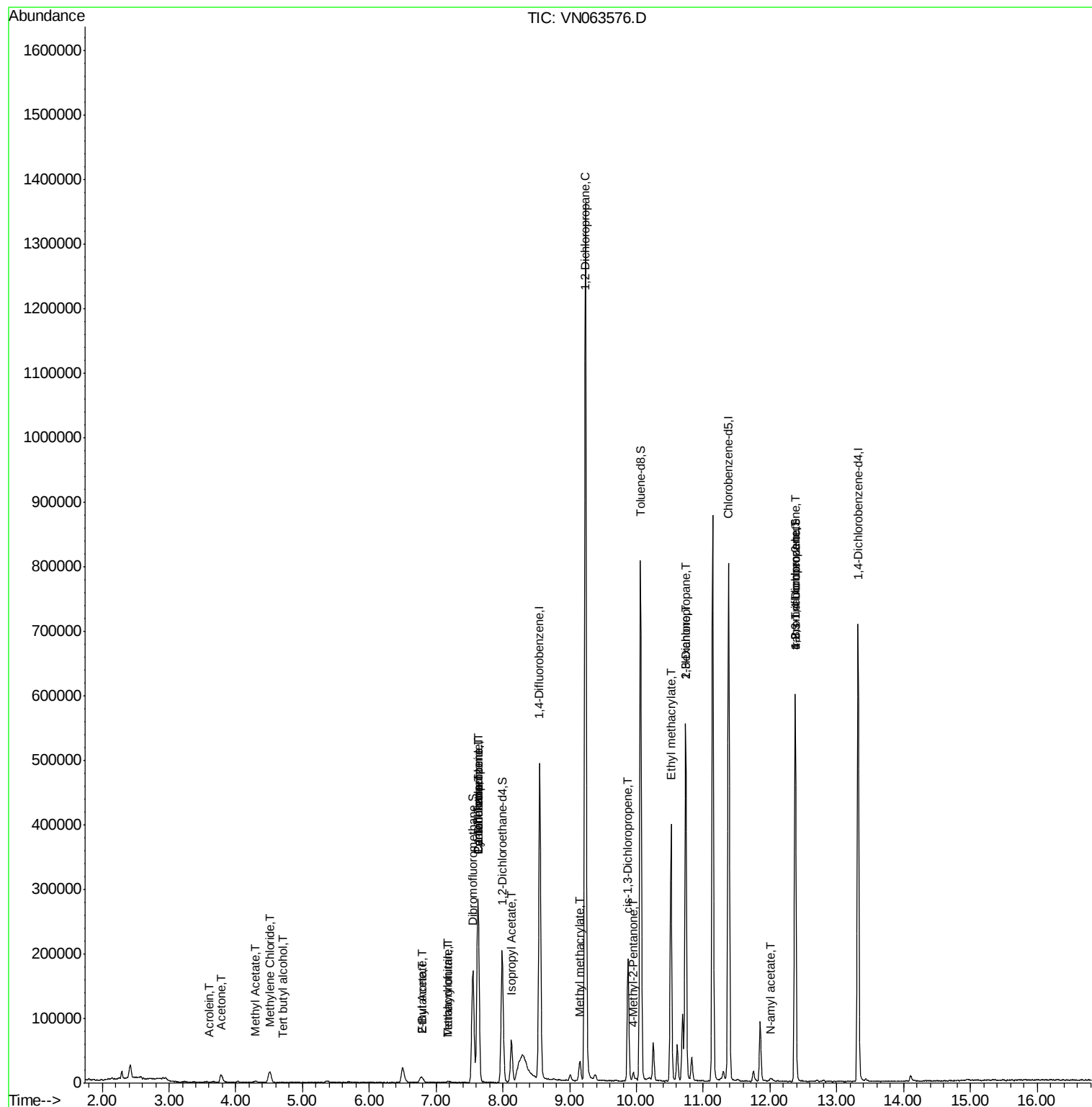
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	210	0.419	ug/l #	72
13) Acrolein	3.60	56	167	0.899	ug/l #	13
16) Acetone	3.78	43	22169	19.067	ug/l	93
18) Methyl Acetate	4.29	43	4210	1.426	ug/l #	74
20) Methylene Chloride	4.50	84	12176	4.133	ug/l	94
25) 2-Butanone	6.80	43	6163	3.446	ug/l	99
29) Tetrahydrofuran	7.18	42	1088	0.891	ug/l #	51
31) Cyclohexane	7.63	56	6325	1.266	ug/l #	33
36) 1,1-Dichloropropene	7.63	75	19082	4.394	ug/l #	51
37) Ethyl Acetate	6.80	43	6163	1.446	ug/l #	70
38) Carbon Tetrachloride	7.63	117	25421	5.734	ug/l #	18
41) Methacrylonitrile	7.16	41	697	0.364	ug/l #	100
43) Isopropyl Acetate	8.13	43	79138	10.383	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1421	0.421	ug/l #	43
48) Methyl methacrylate	9.14	41	5480	1.463	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	8507	1.994	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	30579	5.632	ug/l #	66
56) Ethyl methacrylate	10.51	69	2028	0.439	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5310	0.994	ug/l #	42
59) 2-Hexanone	10.74	43	87007	28.145	ug/l #	54
74) N-amyl acetate	12.01	43	3062	0.476	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	112658	26.824	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112658	73.542	ug/l #	7

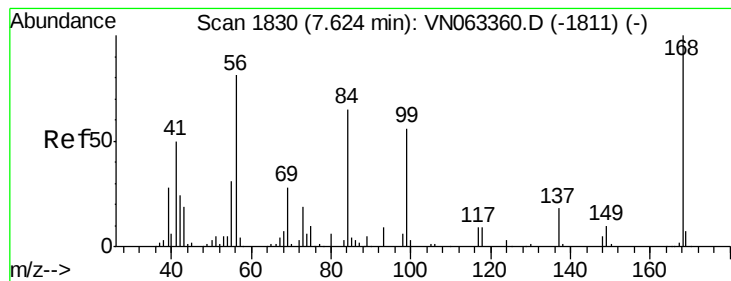
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN092220\
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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 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: VN063576.D

Acq: 23 Sep 2020 9:40

Instrument :

MSVOA_N

ClientSampleId :

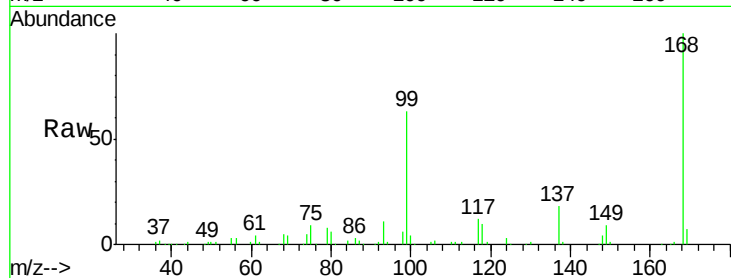
PAV-B29-092120-16-17

Tgt Ion: 168 Resp: 212532

Ion Ratio Lower Upper

168 100

99 63.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

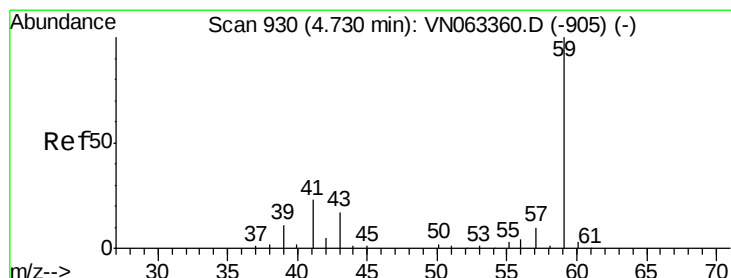
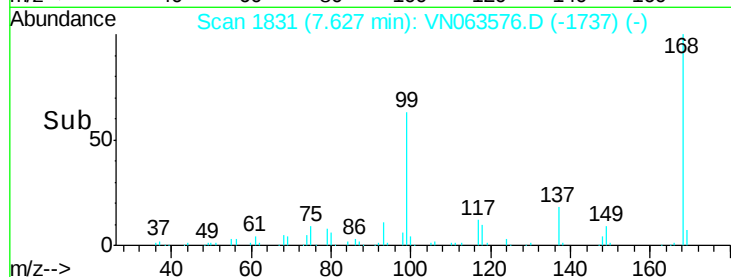
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.419 ug/l

RT: 4.70 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN063576.D

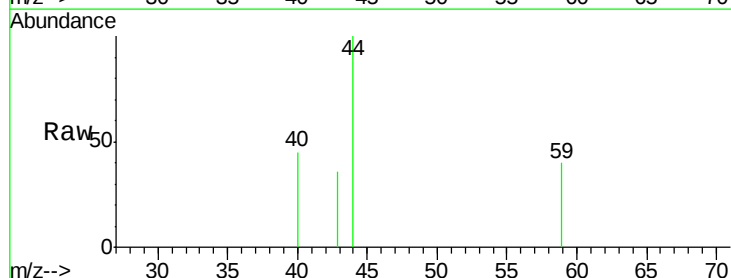
Acq: 23 Sep 2020 9:40

Tgt Ion: 59 Resp: 210

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.70

250

200

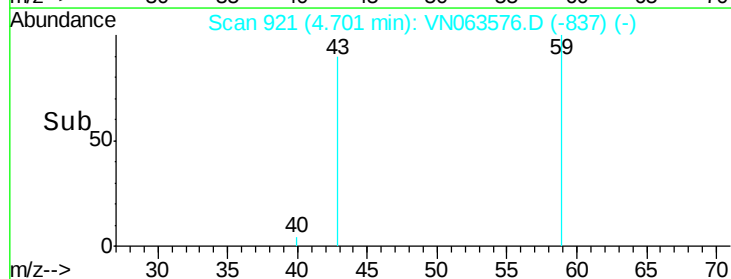
150

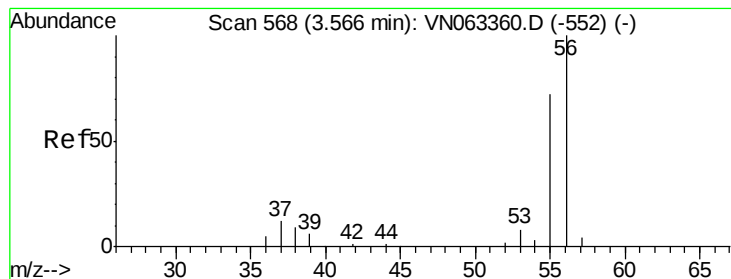
100

50

0

Time--> 4.68 4.69 4.70 4.71 4.72





#13

Acrolein

Concen: 0.899 ug/l

RT: 3.60 min Scan# 579

Delta R.T. 0.04 min

Lab File: VN063576.D

Acq: 23 Sep 2020 9:40

Instrument :

MSVOA_N

ClientSampleId :

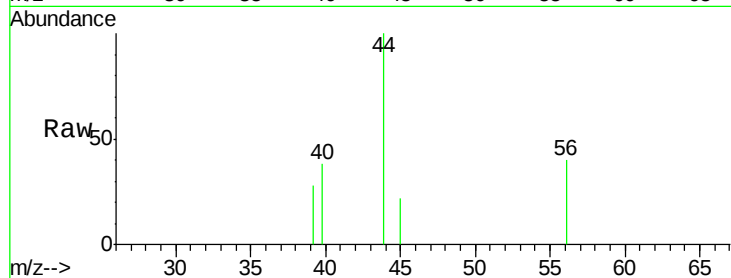
PAV-B29-092120-16-17

Tgt Ion: 56 Resp: 167

Ion Ratio Lower Upper

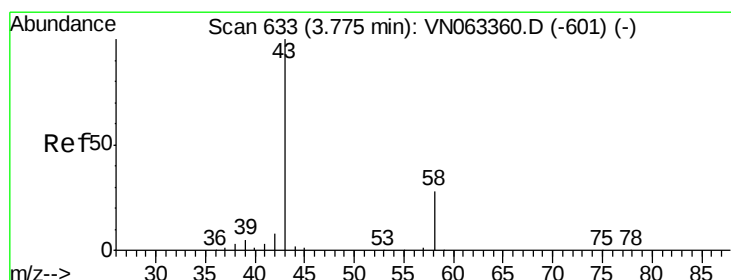
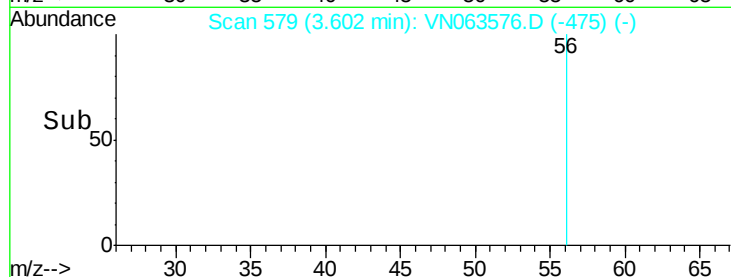
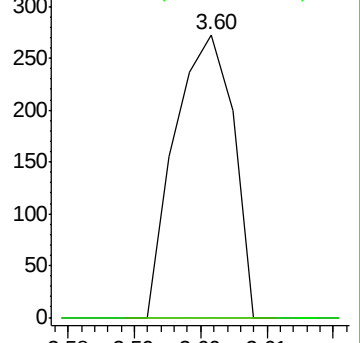
56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 19.067 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063576.D

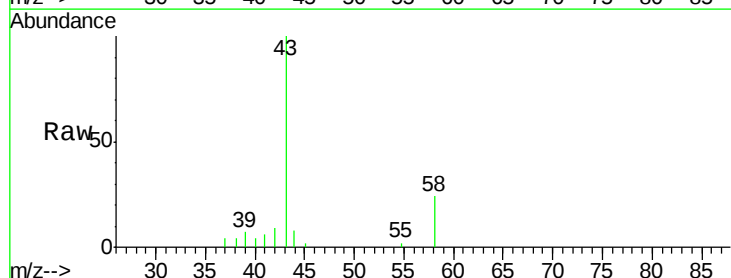
Acq: 23 Sep 2020 9:40

Tgt Ion: 43 Resp: 22169

Ion Ratio Lower Upper

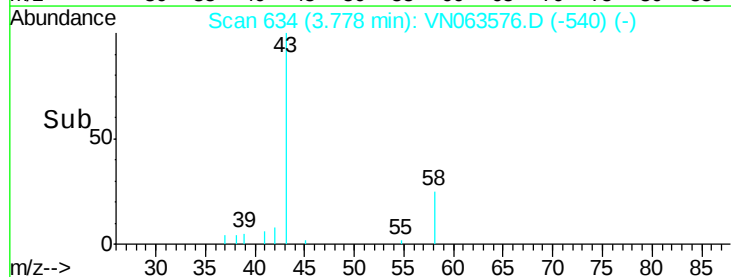
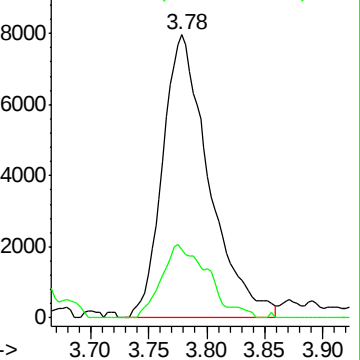
43 100

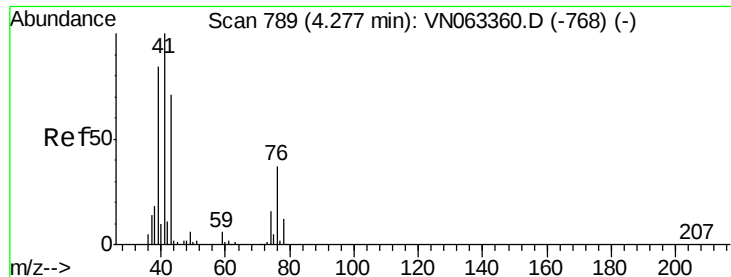
58 24.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

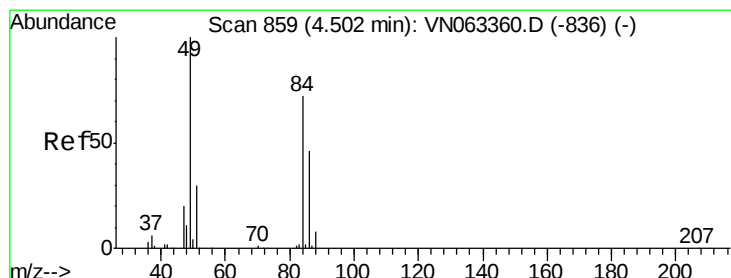
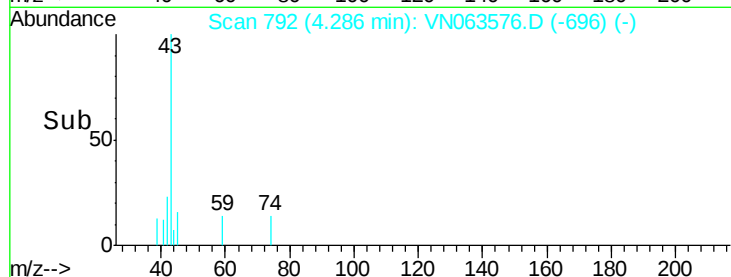
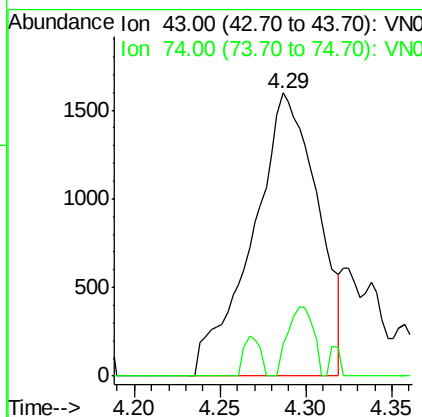
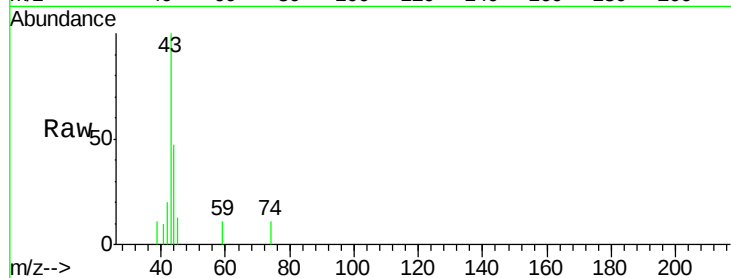




#18
Methyl Acetate
Concen: 1.426 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

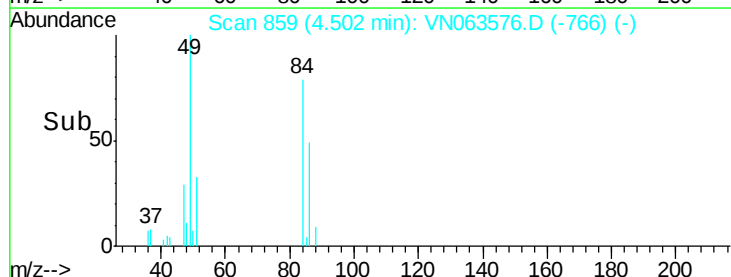
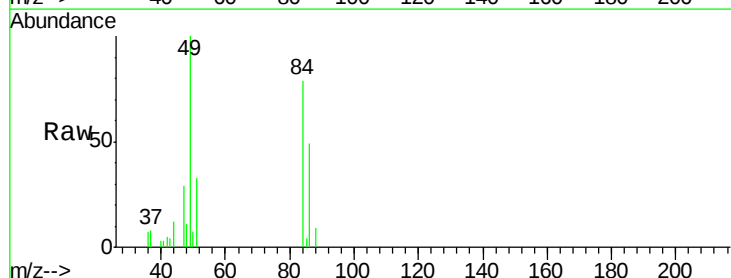
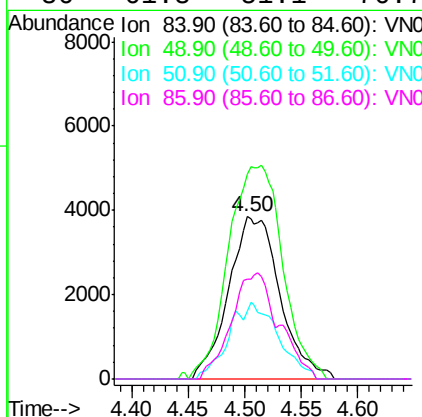
Instrument :
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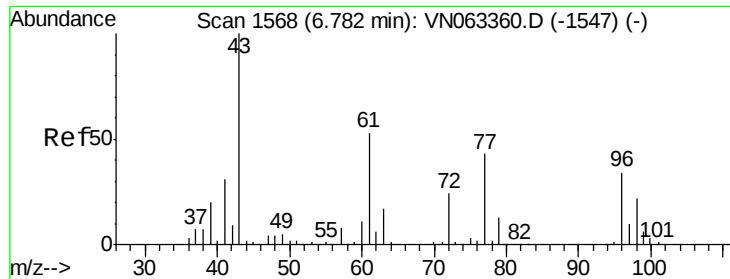
Tgt Ion: 43 Resp: 4210
Ion Ratio Lower Upper
43 100
74 9.5 17.4 26.2#



#20
Methylene Chloride
Concen: 4.133 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

Tgt Ion: 84 Resp: 12176
Ion Ratio Lower Upper
84 100
49 126.4 110.7 166.1
51 41.5 32.9 49.3
86 61.8 51.1 76.7

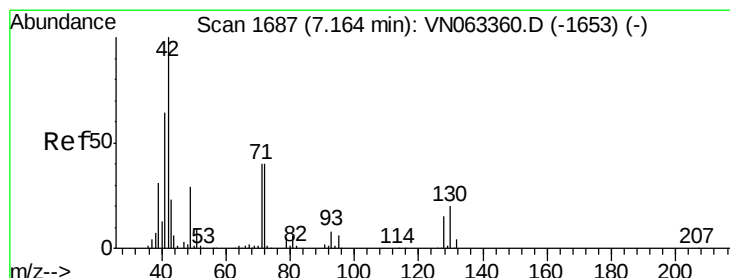
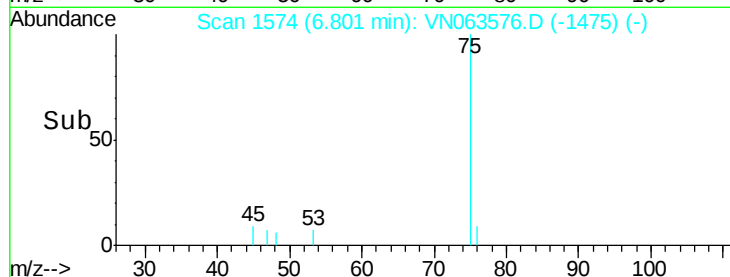
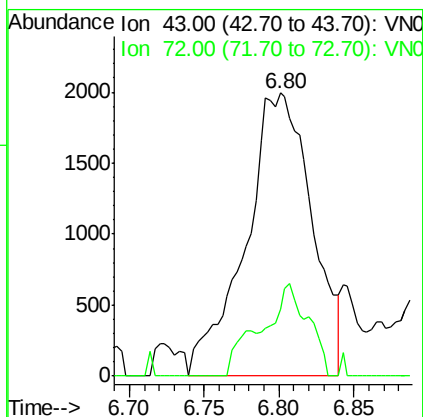
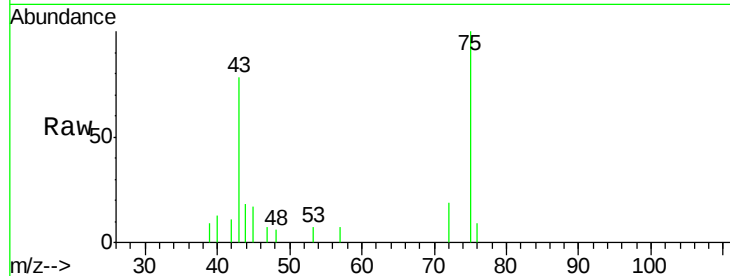




#25
2-Butanone
Concen: 3.446 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

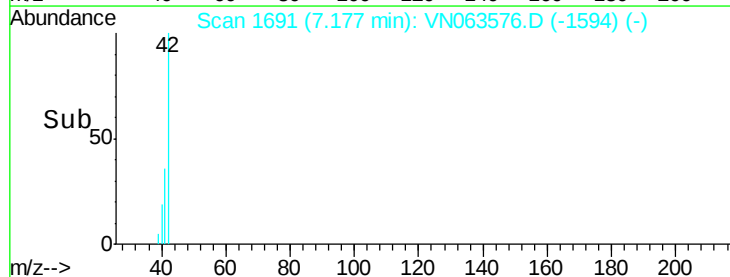
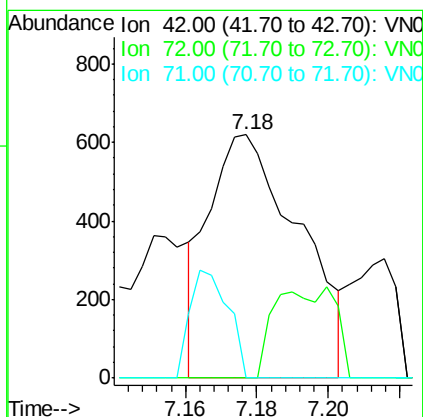
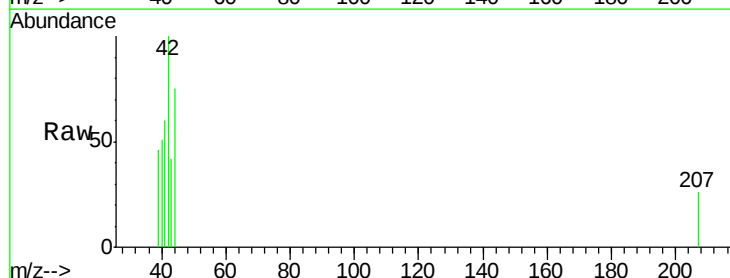
Instrument :
MSVOA_N
ClientSampleId :
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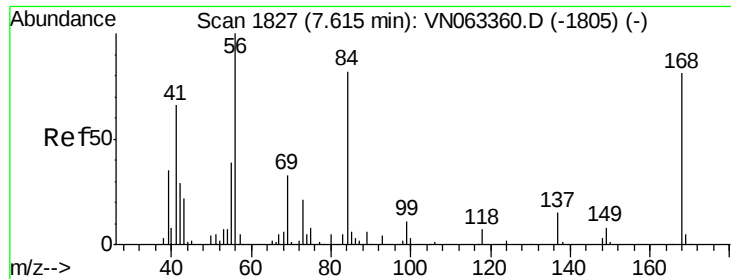
Tgt Ion: 43 Resp: 6163
Ion Ratio Lower Upper
43 100
72 23.6 19.2 28.8



#29
Tetrahydrofuran
Concen: 0.891 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

Tgt Ion: 42 Resp: 1088
Ion Ratio Lower Upper
42 100
72 0.0 32.1 48.1#
71 18.8 31.2 46.8#

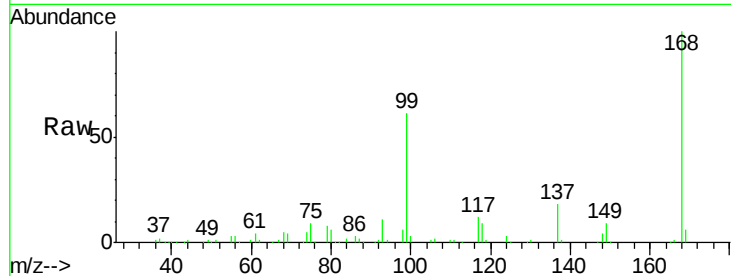




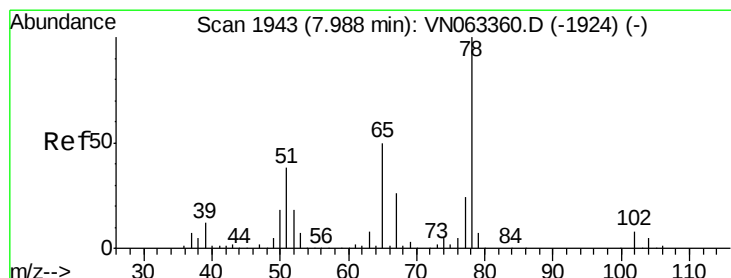
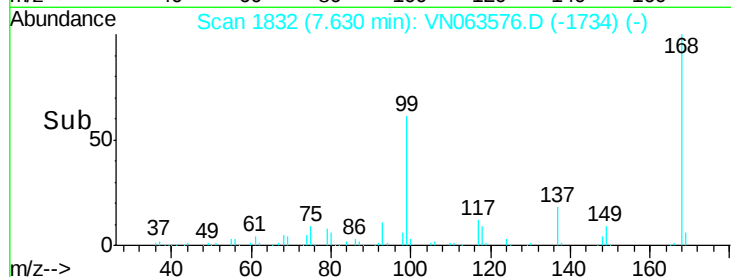
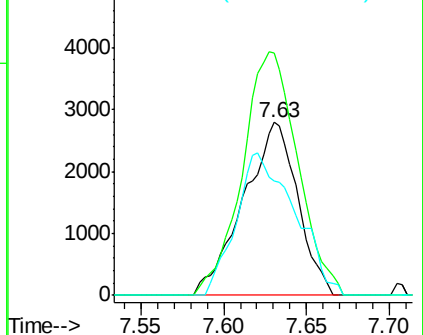
#31
Cyclohexane
Concen: 1.266 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

Instrument :
MSVOA_N
ClientSampleId :
PAV-B29-092120-16-17

Tgt Ion: 56 Resp: 6325
Ion Ratio Lower Upper
56 100
69 140.4 26.1 39.1#
84 66.2 65.4 98.2

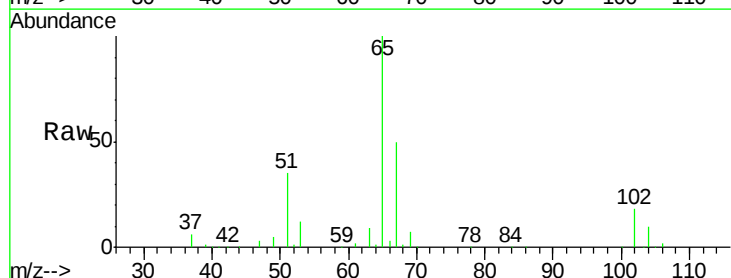


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

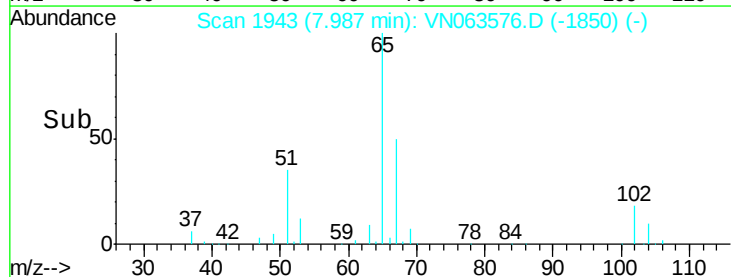
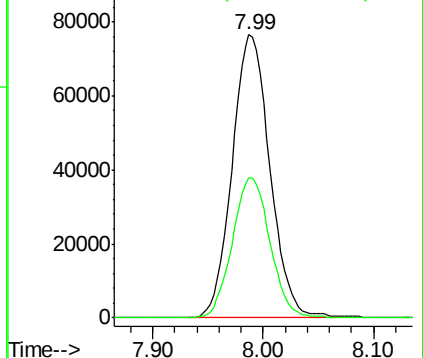


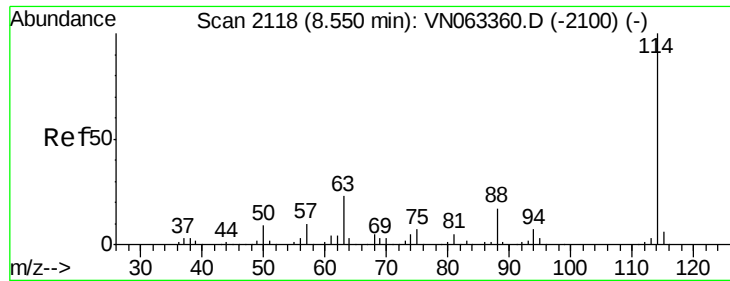
#33
1,2-Dichloroethane-d4
Concen: 50.127 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

Tgt Ion: 65 Resp: 181353
Ion Ratio Lower Upper
65 100
67 49.6 0.0 104.2



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

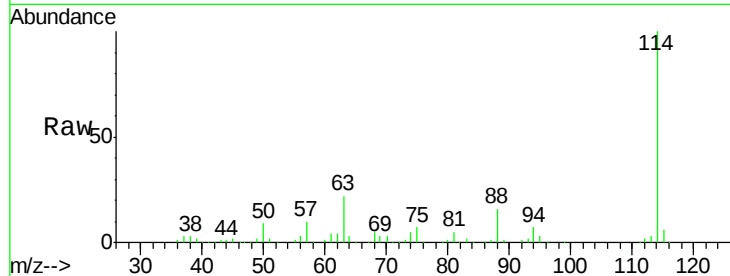




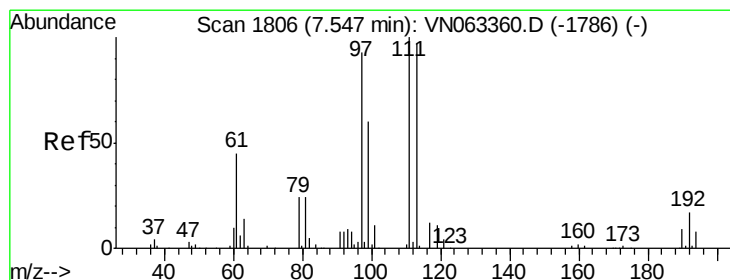
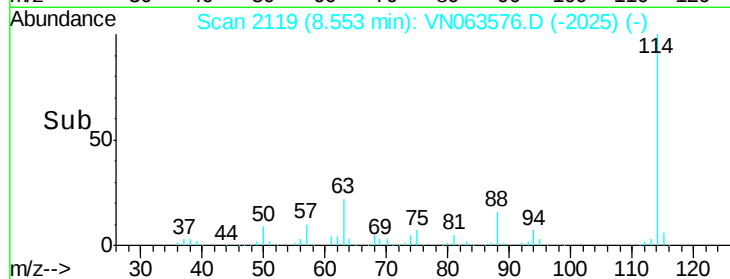
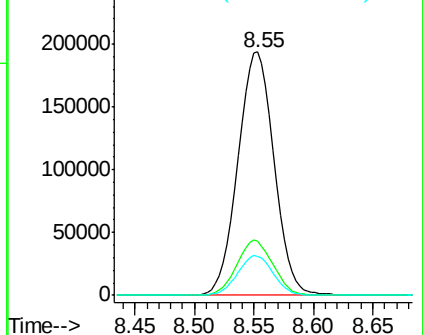
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063576.D
 Acq: 23 Sep 2020 9:40

Instrument :
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 ClientSampleId :
 PAV-B29-092120-16-17

Tgt Ion:114 Resp: 407676
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 46.4
 88 16.2 0.0 33.2

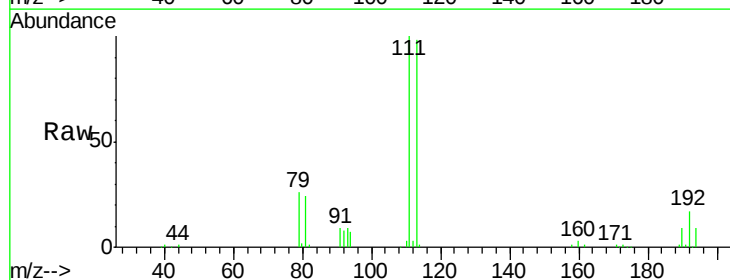


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

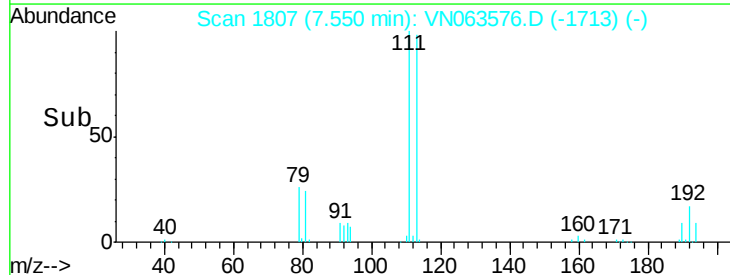
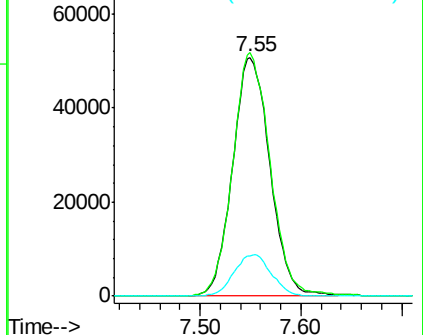


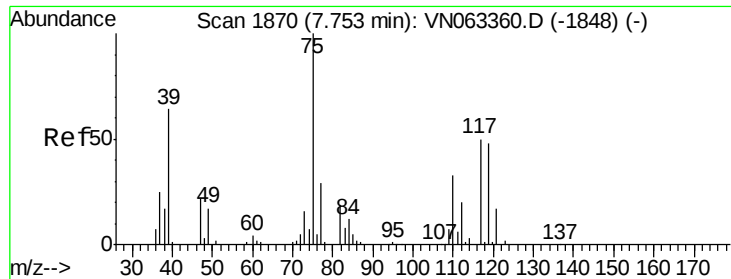
#35
 Dibromofluoromethane
 Concen: 46.285 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063576.D
 Acq: 23 Sep 2020 9:40

Tgt Ion:113 Resp: 130629
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.9 124.3
 192 17.3 13.9 20.9



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

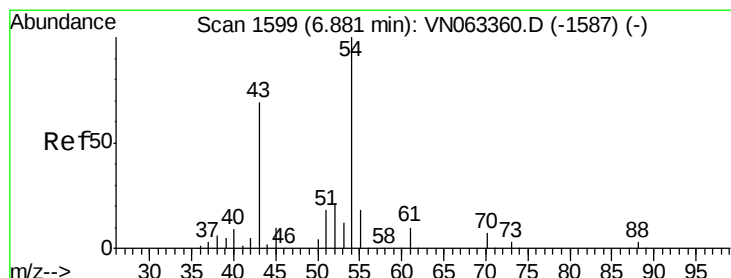
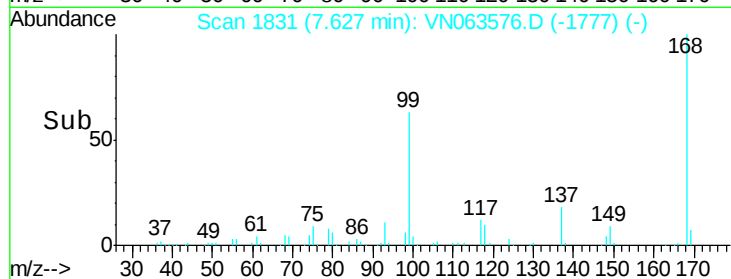
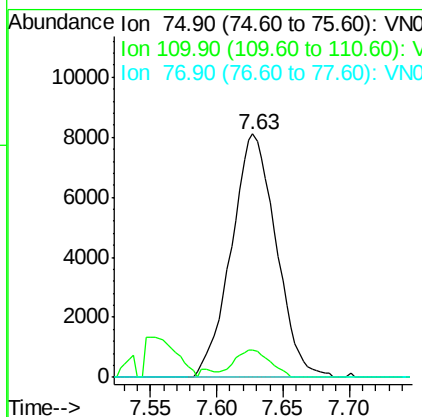
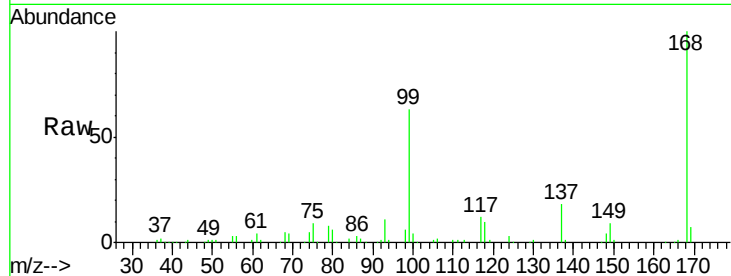




#36
 1,1-Dichloropropene
 Concen: 4.394 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063576.D
 Acq: 23 Sep 2020 9:40

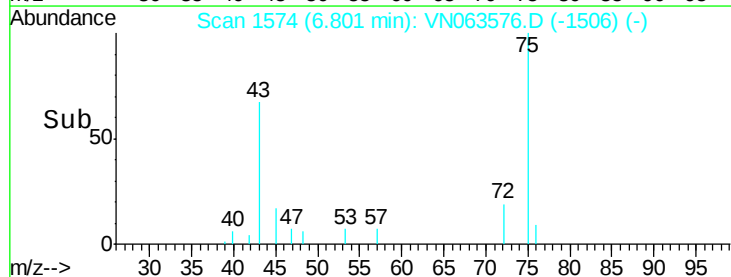
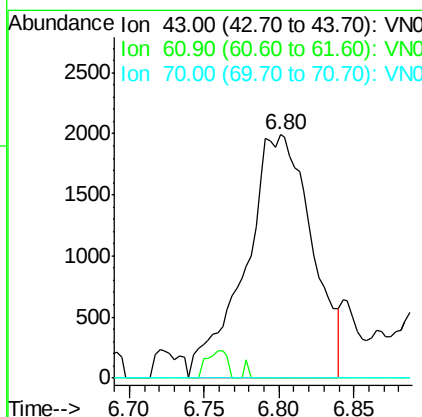
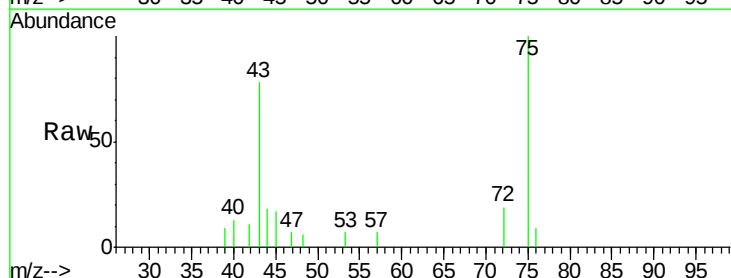
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B29-092120-16-17

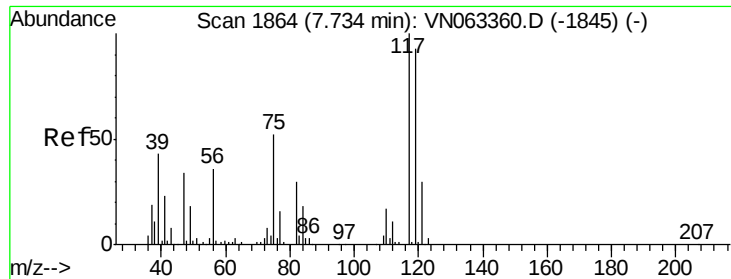
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.5	49.5#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.446 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. -0.08 min
 Lab File: VN063576.D
 Acq: 23 Sep 2020 9:40

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	0.0	7.2	10.8#





#38

Carbon Tetrachloride

Concen: 5.734 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063576.D

Acq: 23 Sep 2020 9:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-16-17

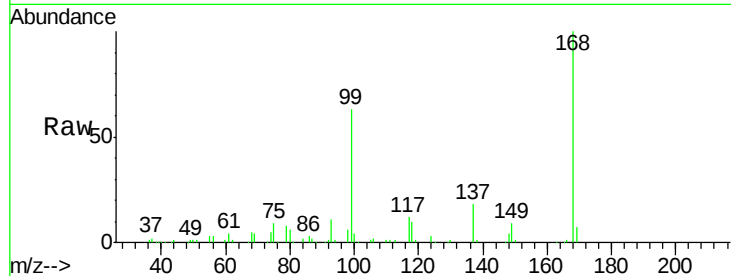
Tgt Ion: 117 Resp: 25421

Ion Ratio Lower Upper

117 100

119 5.5 74.5 111.7#

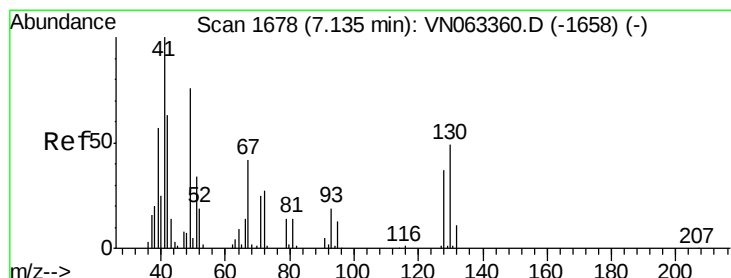
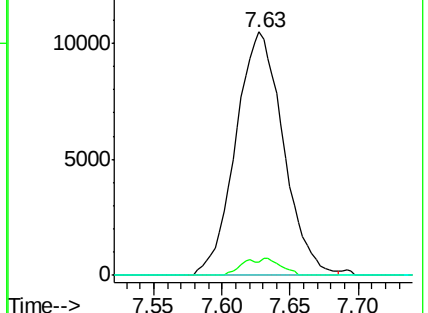
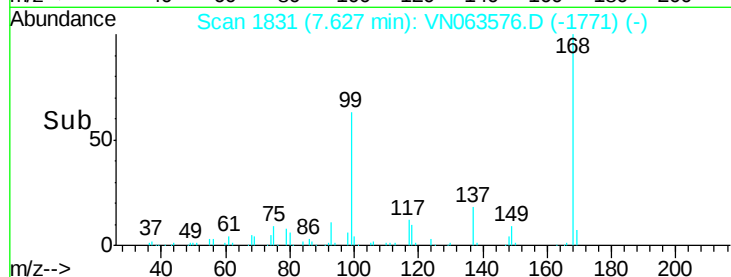
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.364 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. 0.03 min

Lab File: VN063576.D

Acq: 23 Sep 2020 9:40

Tgt Ion: 41 Resp: 697

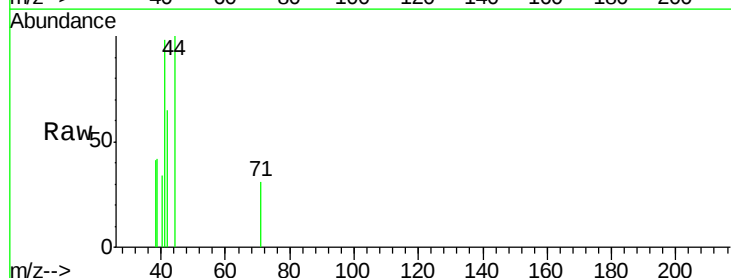
Ion Ratio Lower Upper

41 100

39 23.7 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

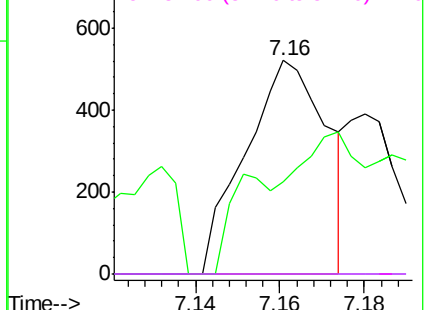
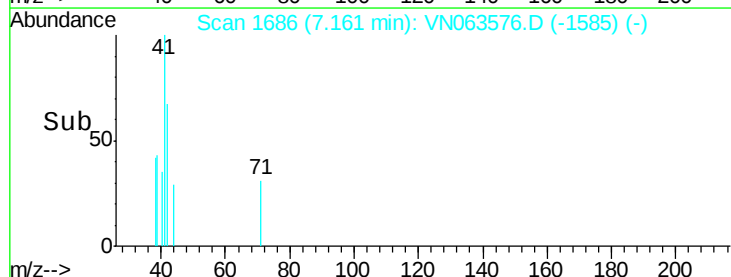


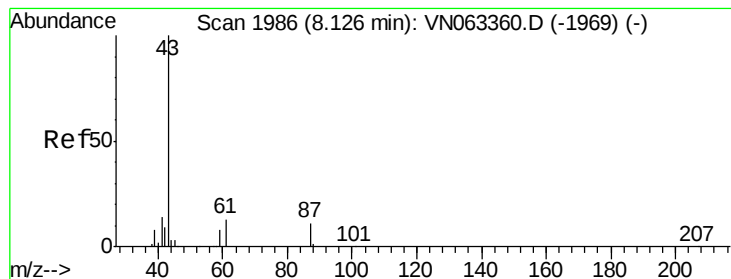
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 10.383 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063576.D

Acq: 23 Sep 2020 9:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-16-17

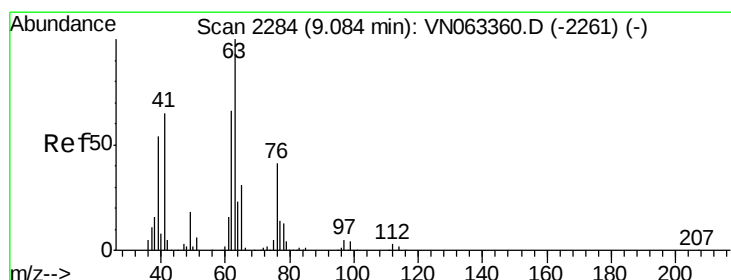
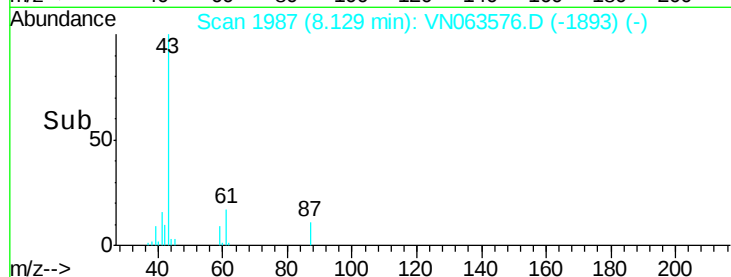
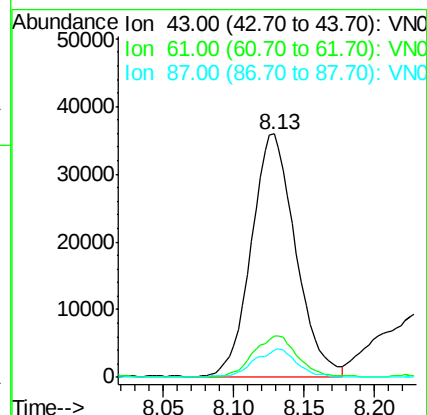
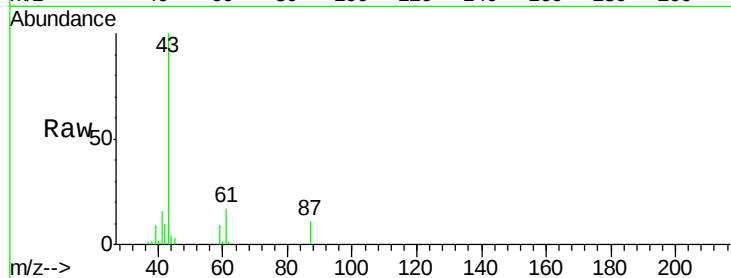
Tgt Ion: 43 Resp: 79138

Ion Ratio Lower Upper

43 100

61 17.0 14.2 21.2

87 11.2 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.421 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063576.D

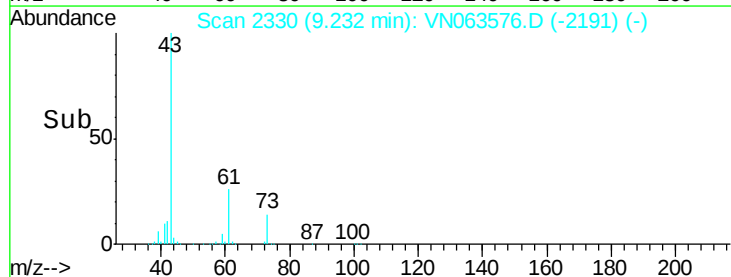
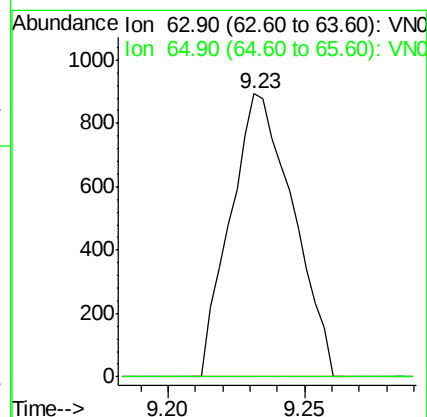
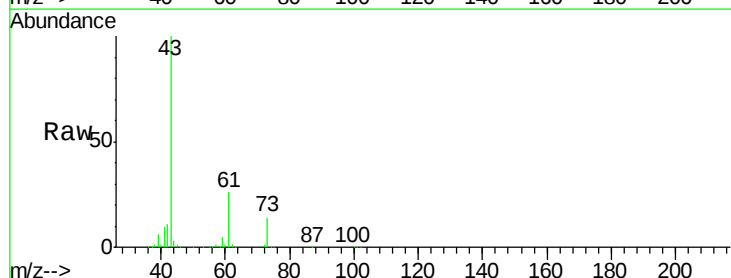
Acq: 23 Sep 2020 9:40

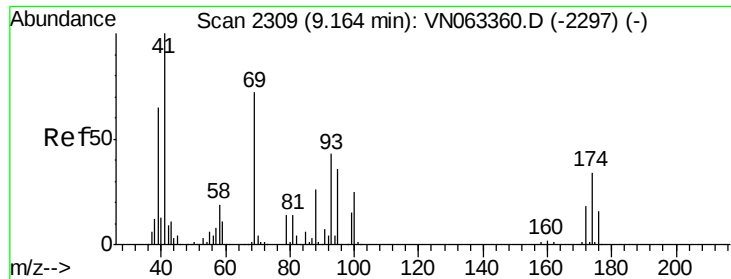
Tgt Ion: 63 Resp: 1421

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

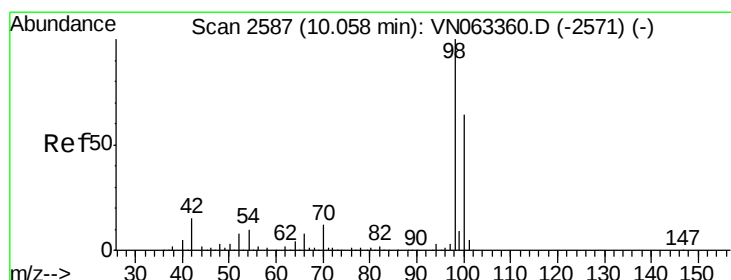
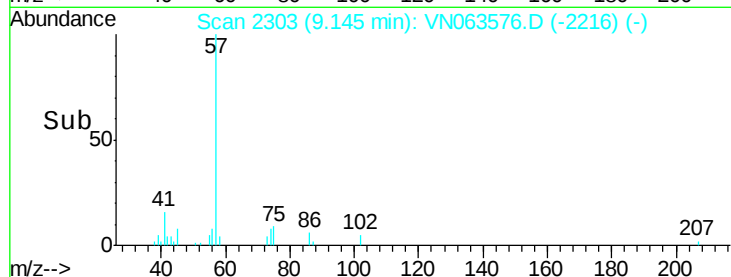
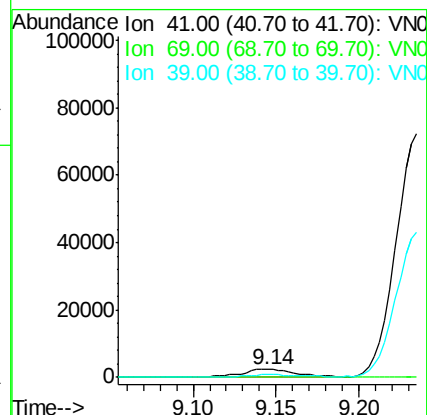
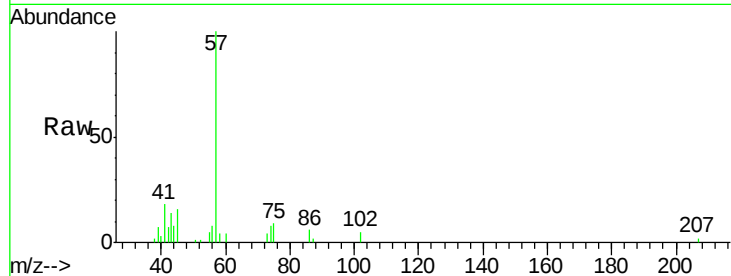




#48
Methyl methacrylate
Concen: 1.463 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

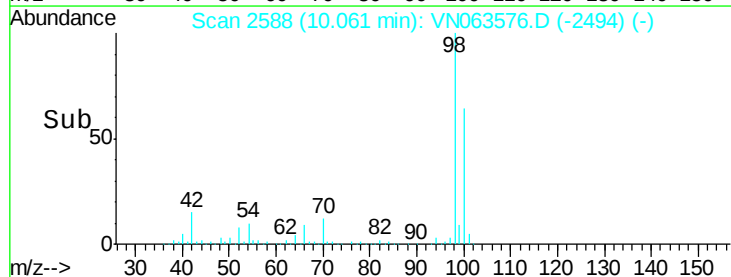
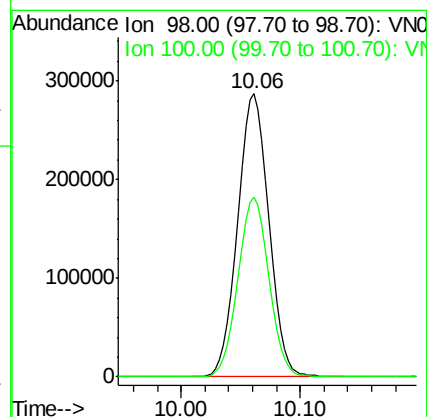
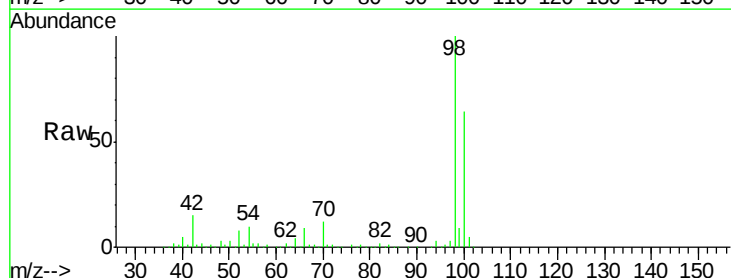
Instrument :
MSVOA_N
ClientSampleId :
PAV-B29-092120-16-17

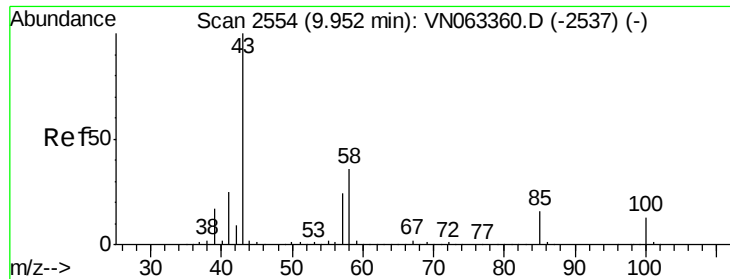
Tgt Ion: 41 Resp: 5480
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#50
Toluene-d8
Concen: 49.177 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

Tgt Ion: 98 Resp: 521873
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1

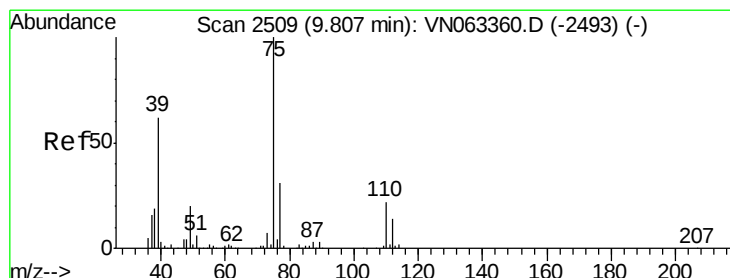
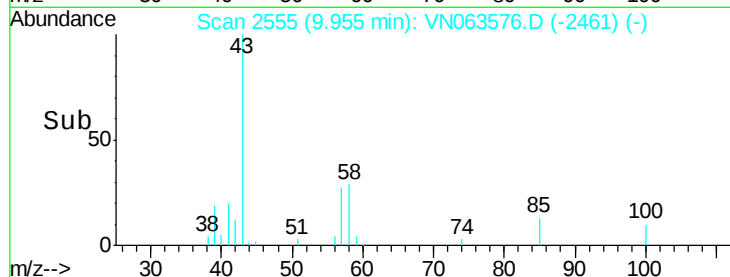
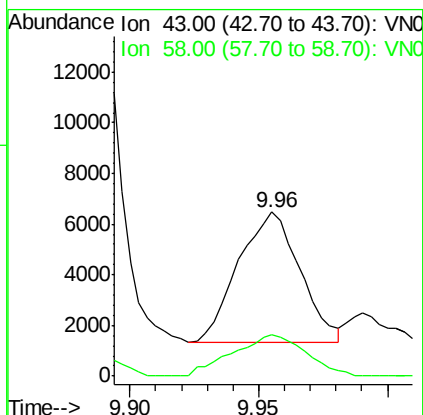
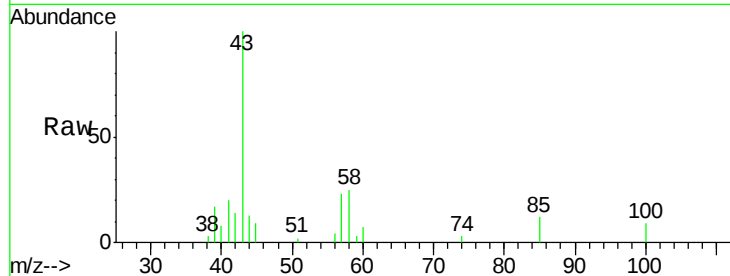




#51
 4-Methyl-2-Pentanone
 Concen: 1.994 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN063576.D
 Acq: 23 Sep 2020 9:40

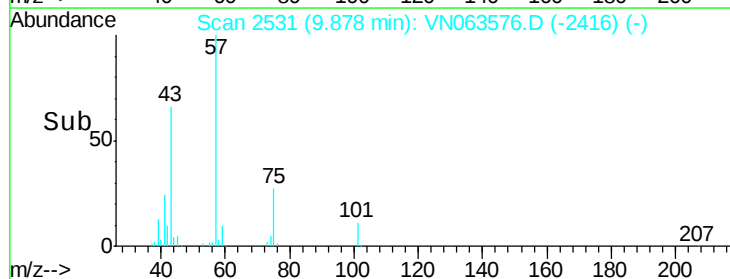
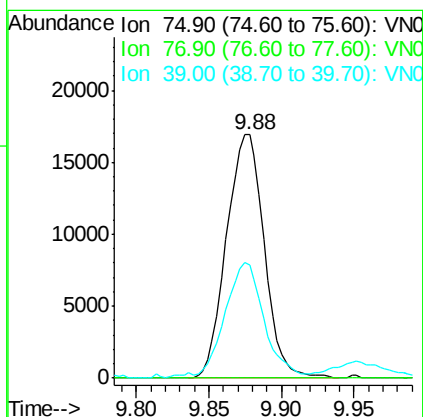
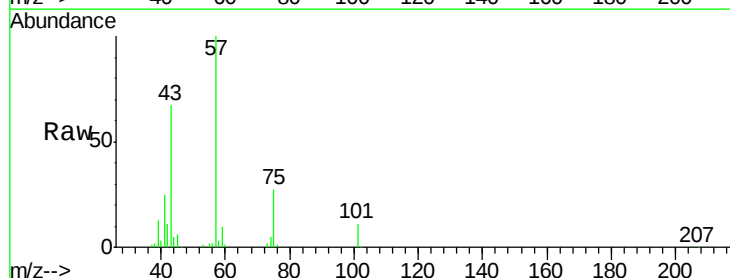
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B29-092120-16-17

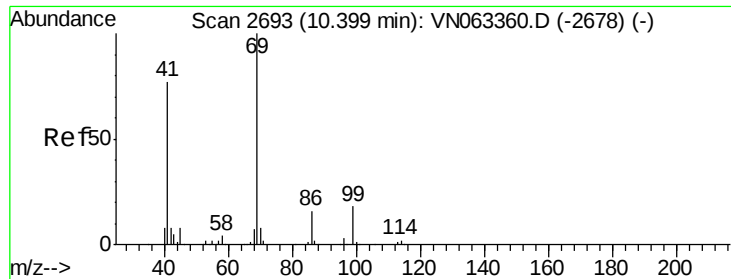
Tgt Ion: 43 Resp: 8507
 Ion Ratio Lower Upper
 43 100
 58 38.0 29.0 43.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.632 ug/l
 RT: 9.88 min Scan# 2531
 Delta R.T. 0.07 min
 Lab File: VN063576.D
 Acq: 23 Sep 2020 9:40

Tgt Ion: 75 Resp: 30579
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 44.2 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.439 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063576.D

Acq: 23 Sep 2020 9:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-16-17

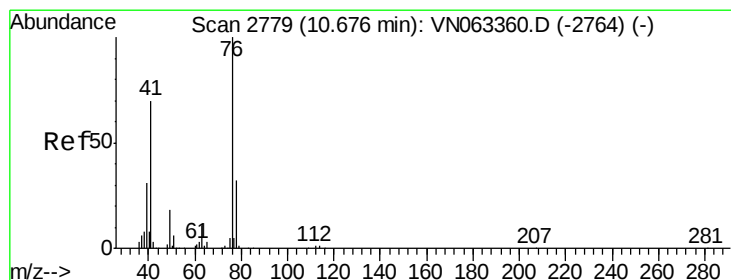
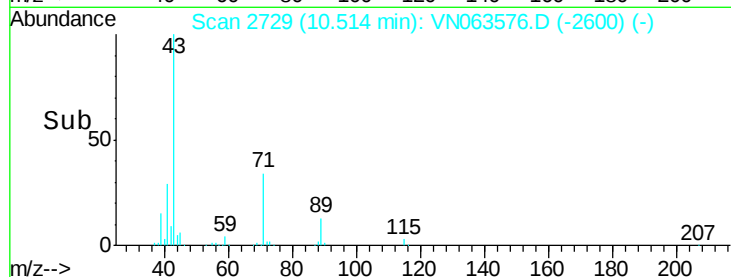
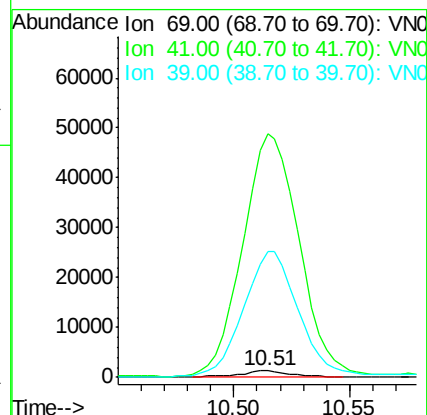
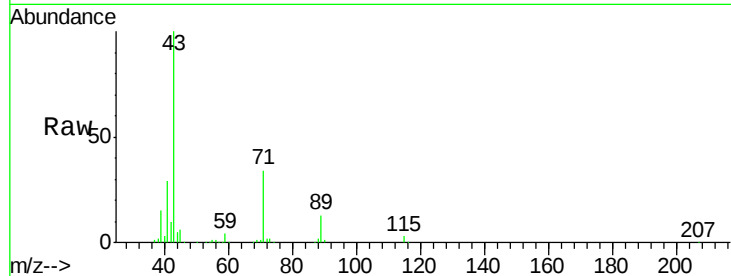
Tgt Ion: 69 Resp: 2028

Ion Ratio Lower Upper

69 100

41 4077.4 61.0 91.6#

39 2079.0 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.994 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063576.D

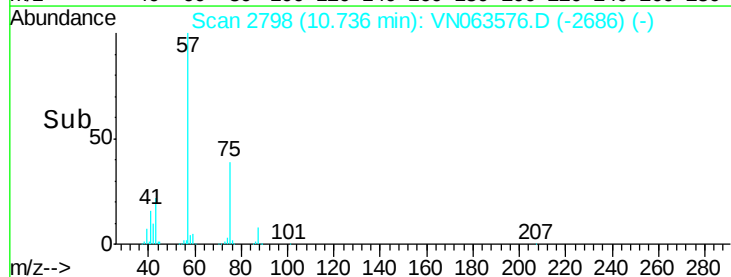
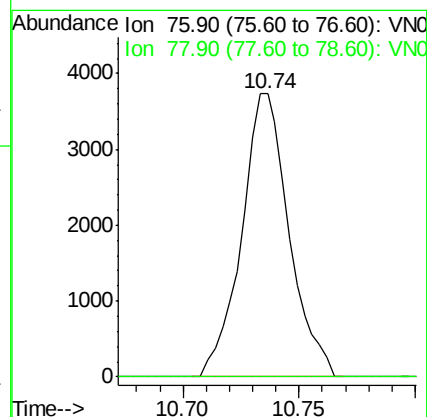
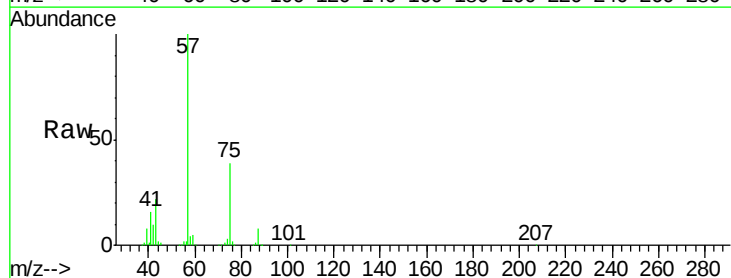
Acq: 23 Sep 2020 9:40

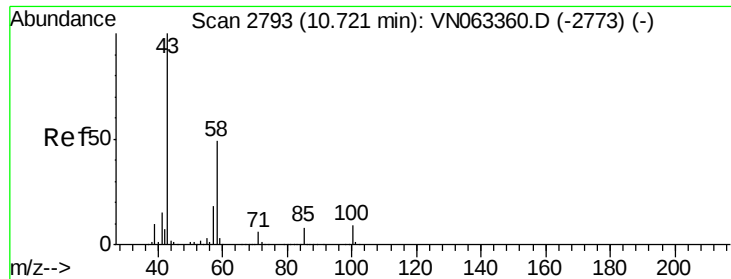
Tgt Ion: 76 Resp: 5310

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

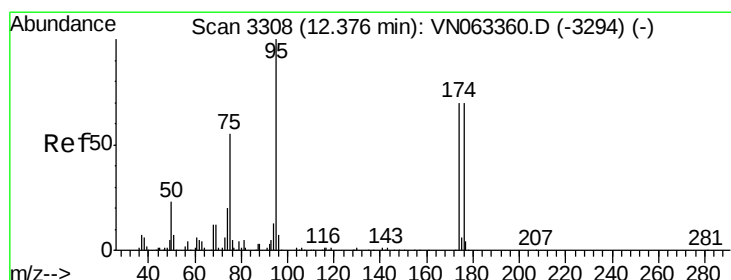
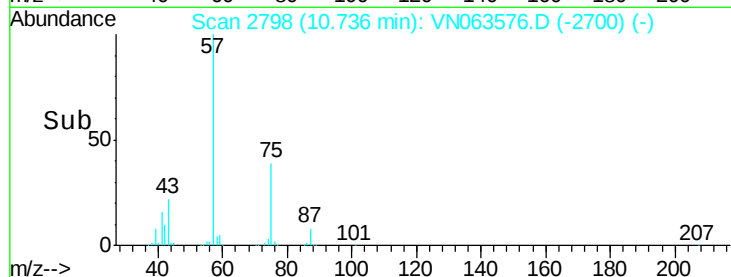
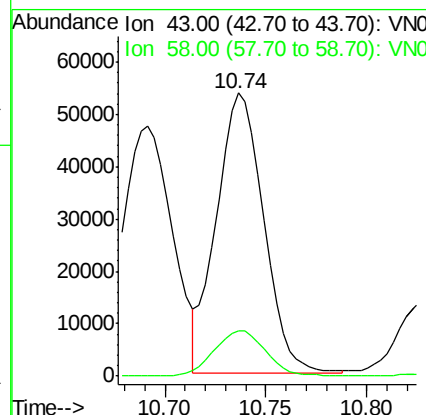
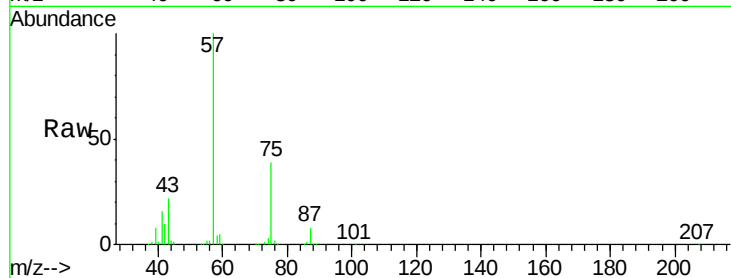




#59
2-Hexanone
Concen: 28.145 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

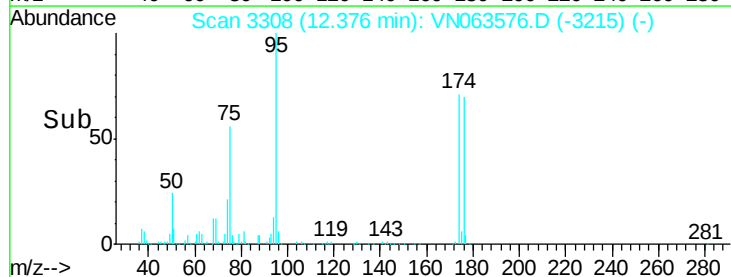
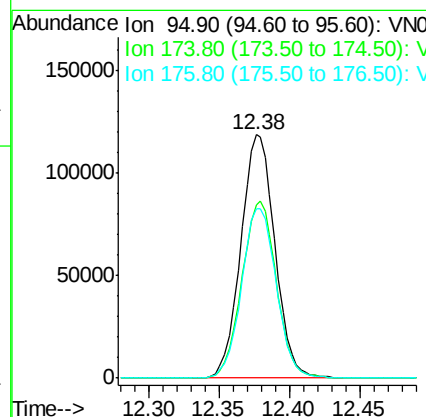
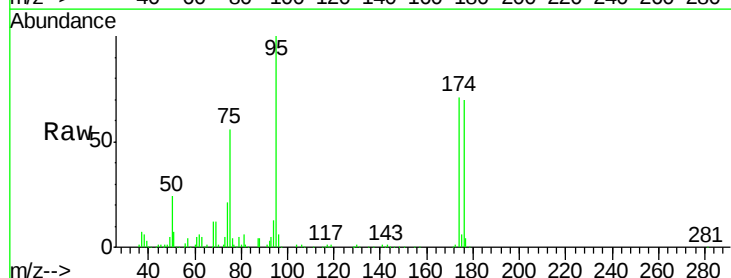
Instrument :
MSVOA_N
ClientSampleId :
PAV-B29-092120-16-17

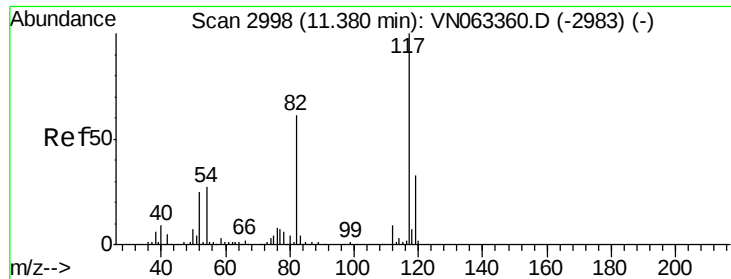
Tgt Ion: 43 Resp: 87007
Ion Ratio Lower Upper
43 100
58 17.6 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 51.657 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

Tgt Ion: 95 Resp: 200957
Ion Ratio Lower Upper
95 100
174 73.6 0.0 140.8
176 71.2 0.0 137.6

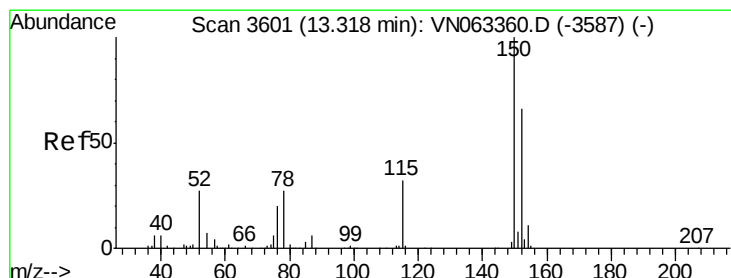
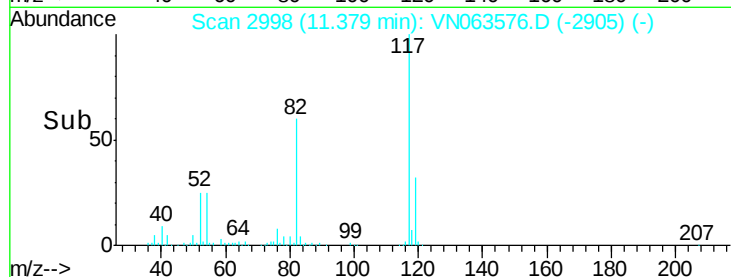
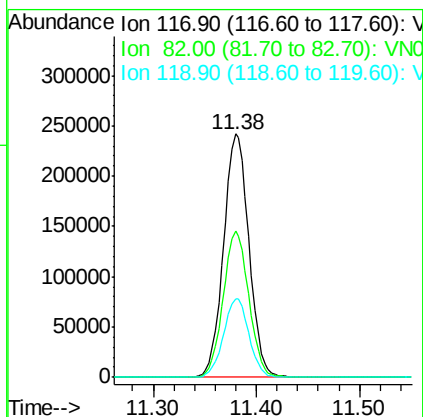
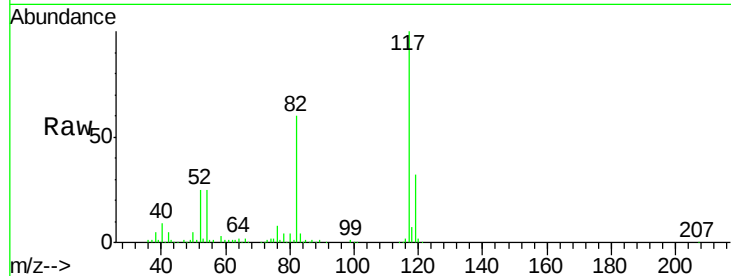




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

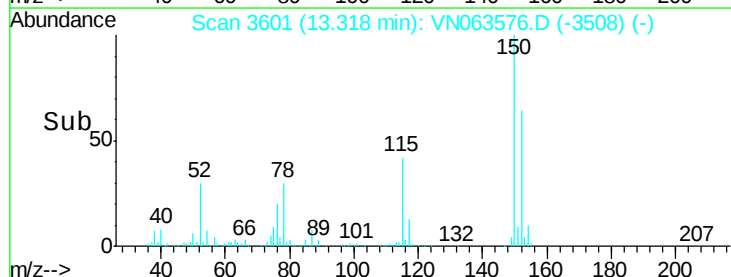
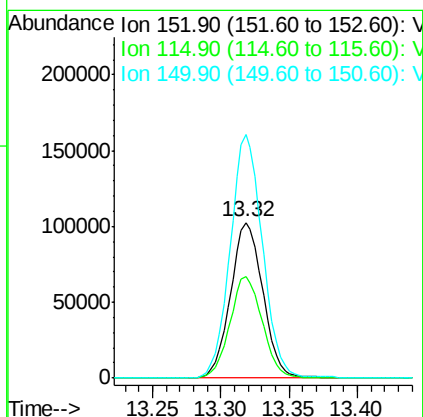
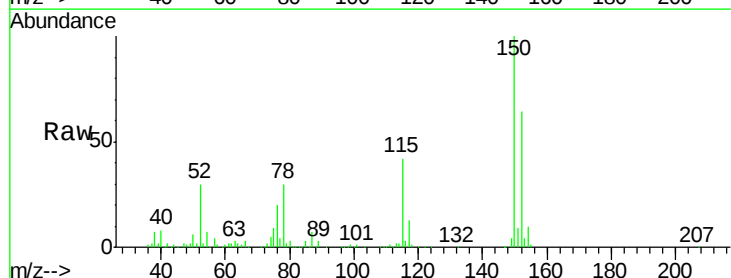
Instrument :
MSVOA_N
ClientSampleId :
PAV-B29-092120-16-17

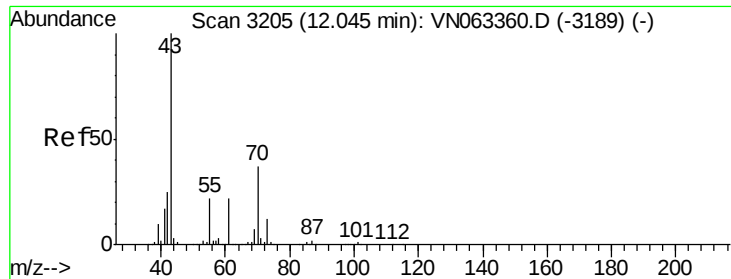
Tgt Ion:117 Resp: 415006
Ion Ratio Lower Upper
117 100
82 59.9 49.2 73.8
119 32.3 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063576.D
Acq: 23 Sep 2020 9:40

Tgt Ion:152 Resp: 169681
Ion Ratio Lower Upper
152 100
115 65.1 32.2 96.6
150 155.5 0.0 343.4





#74

N-ethyl acetate

Concen: 0.476 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063576.D

Acq: 23 Sep 2020 9:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-16-17

Tgt Ion: 43 Resp: 3062

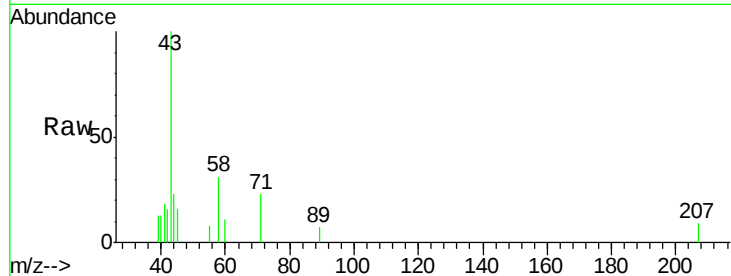
Ion Ratio Lower Upper

43 100

70 3.8 29.6 44.4#

55 3.7 17.7 26.5#

61 0.0 17.4 26.2#

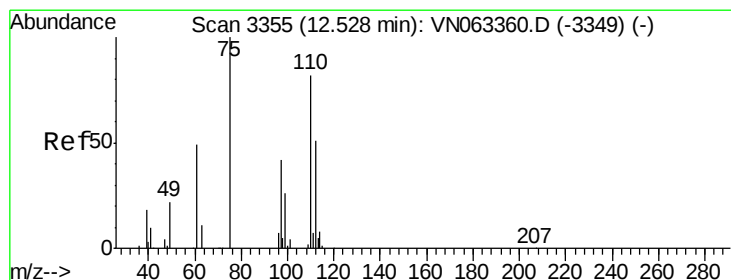
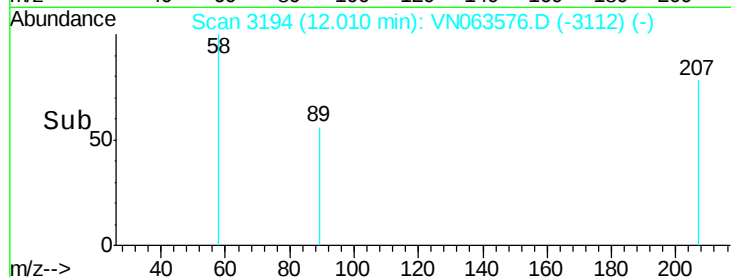
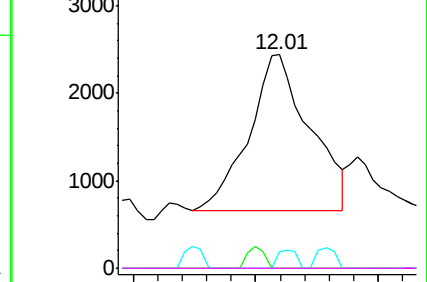


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.824 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063576.D

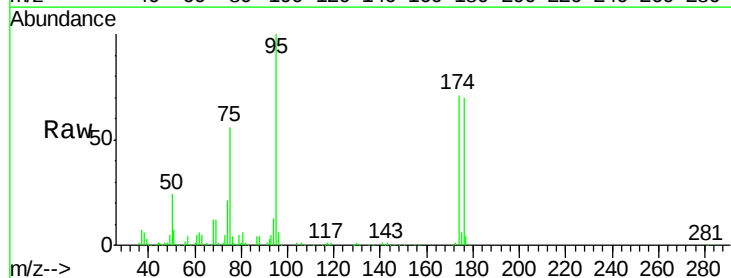
Acq: 23 Sep 2020 9:40

Tgt Ion: 75 Resp: 112658

Ion Ratio Lower Upper

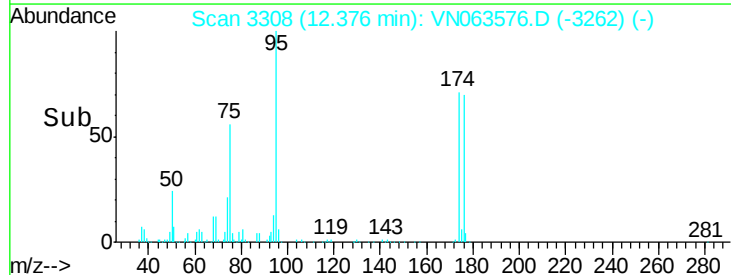
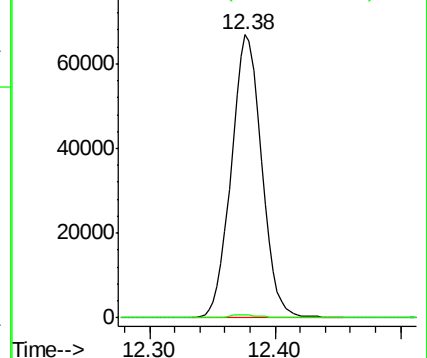
75 100

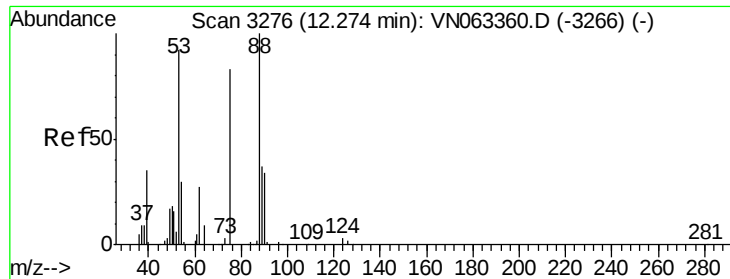
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.542 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063576.D

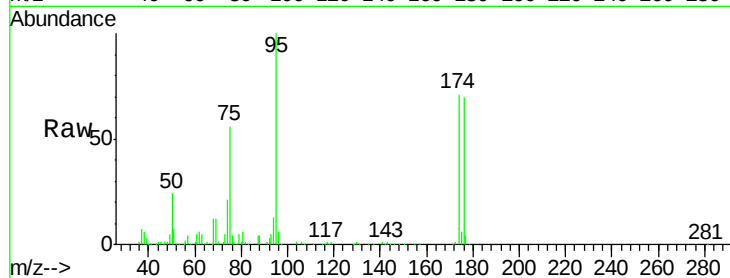
Acq: 23 Sep 2020 9:40

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-16-17



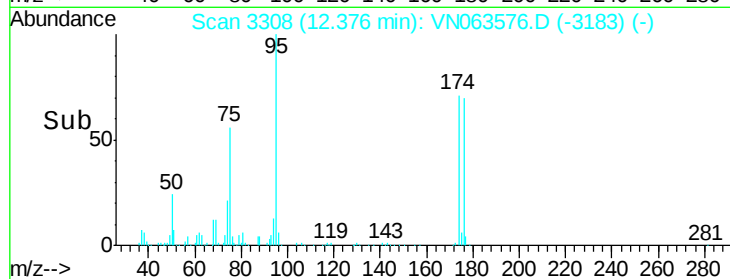
Tgt Ion: 75 Resp: 112658

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

