

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063423.D
 Acq On : 17 Sep 2020 16:49
 Operator : JC/MD
 Sample : L4038-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B36-091620-14-15

Quant Time: Sep 18 02:50:57 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	226824	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	425184	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	420039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	180713	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	186789	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
35) Dibromofluoromethane	7.55	113	136688	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
50) Toluene-d8	10.06	98	551137	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	12.38	95	216757	53.42	ug/l	0.00
Spiked Amount			Recovery	=	106.84%	

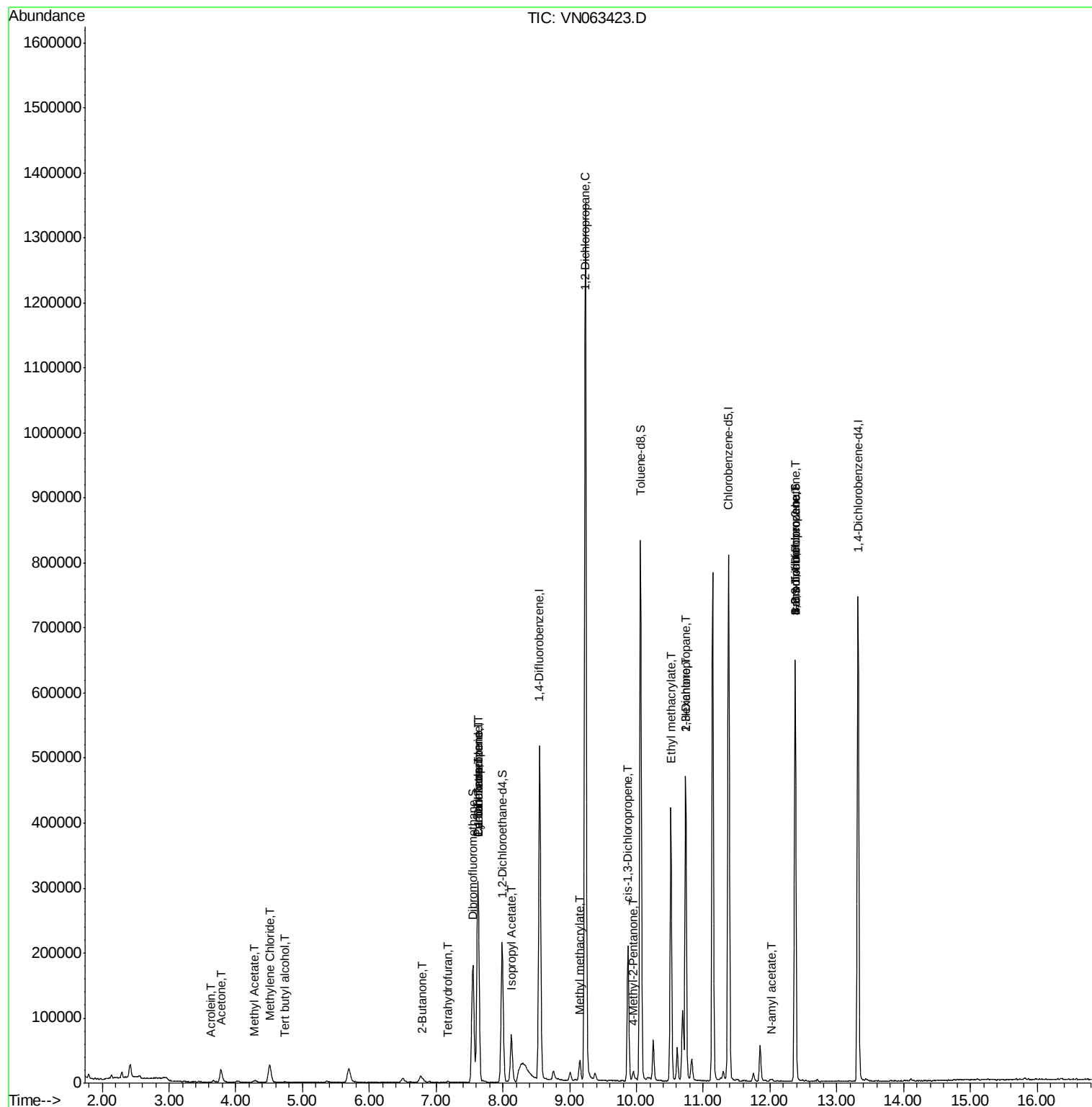
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	403	0.753	ug/l #	94
13) Acrolein	3.63	56	97	0.489	ug/l #	13
16) Acetone	3.78	43	34664	27.934	ug/l	91
18) Methyl Acetate	4.28	43	2384	0.757	ug/l	100
20) Methylene Chloride	4.51	84	19139	6.087	ug/l	89
25) 2-Butanone	6.80	43	4589	2.405	ug/l #	79
29) Tetrahydrofuran	7.17	42	736	0.565	ug/l #	76
31) Cyclohexane	7.63	56	6458	1.211	ug/l #	11
36) 1,1-Dichloropropene	7.63	75	20306	4.483	ug/l #	48
38) Carbon Tetrachloride	7.62	117	24517	5.302	ug/l #	17
43) Isopropyl Acetate	8.13	43	90790	11.421	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1683	0.478	ug/l #	43
48) Methyl methacrylate	9.14	41	4554	1.166	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	9191	2.065	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	34214	6.042	ug/l #	65
56) Ethyl methacrylate	10.51	69	1306	0.271	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4676	0.840	ug/l #	42
59) 2-Hexanone	10.74	43	73924	22.928	ug/l #	53
71) Bromoform	12.37	173	670	0.275	ug/l #	1
74) N-amyl acetate	12.01	43	2322	0.339	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	123981	27.718	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123981	75.993	ug/l #	7

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

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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: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

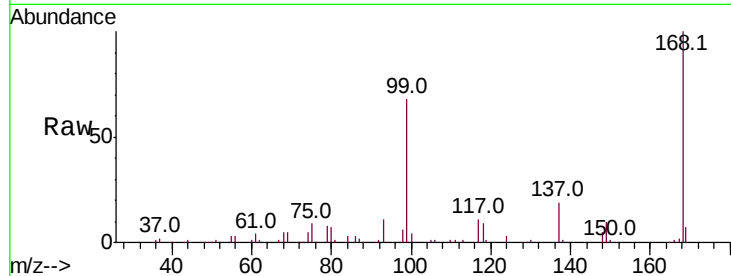
PAV-B36-091620-14-15

Tot Ion:168 Resp: 226824

Ion Ratio Lower Upper

168 100

99 68.4 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

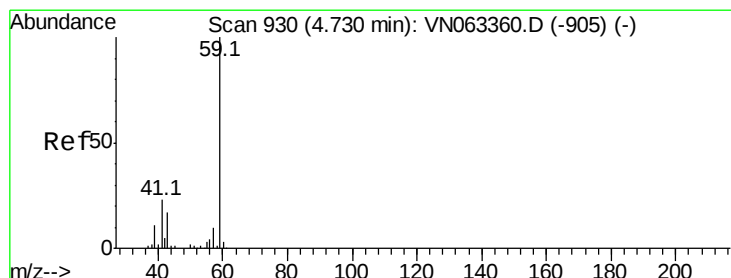
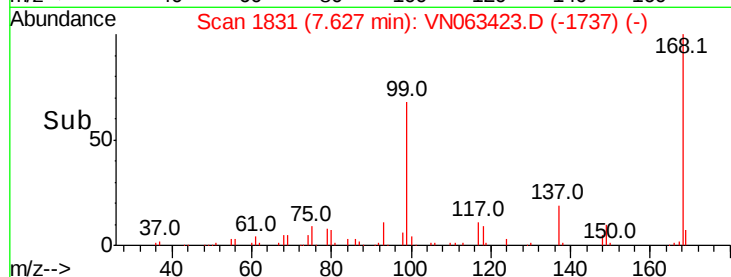
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.753 ug/l

RT: 4.73 min Scan# 929

Delta R.T. -0.00 min

Lab File: VN063423.D

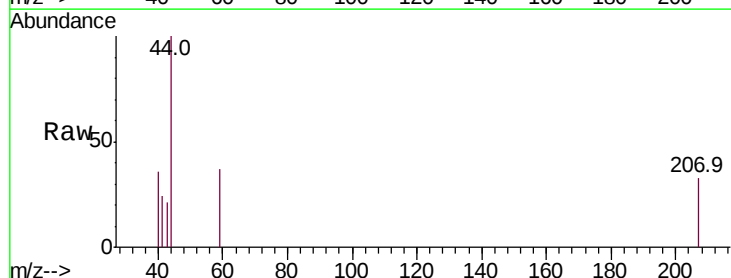
Acq: 17 Sep 2020 16:49

Tgt Ion: 59 Resp: 403

Ion Ratio Lower Upper

59 100

57 8.2 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

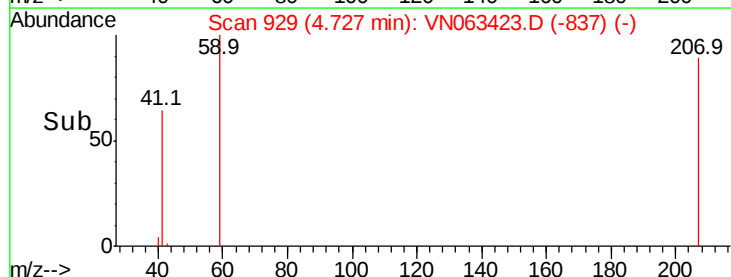
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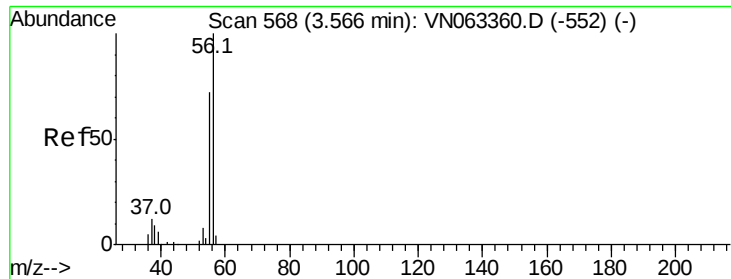
200

100

0

Time--> 4.70 4.72 4.74





#13

Acrolein

Concen: 0.489 ug/l

RT: 3.63 min Scan# 587

Delta R.T. 0.06 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

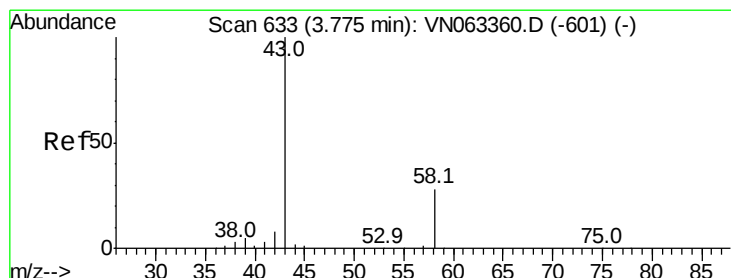
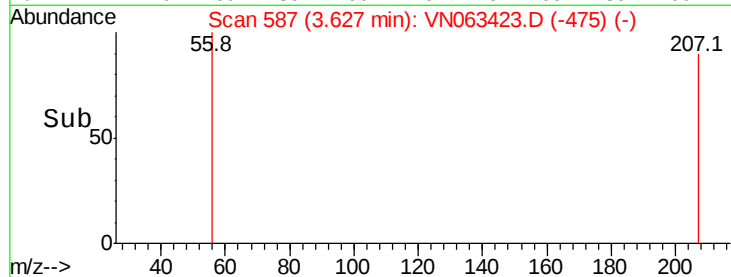
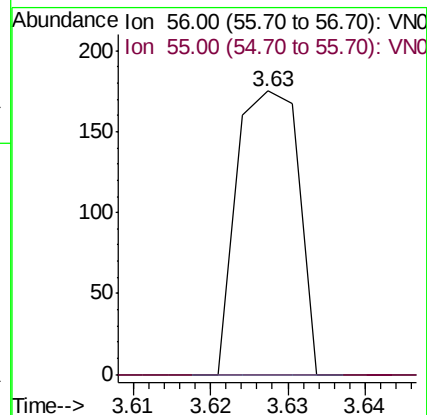
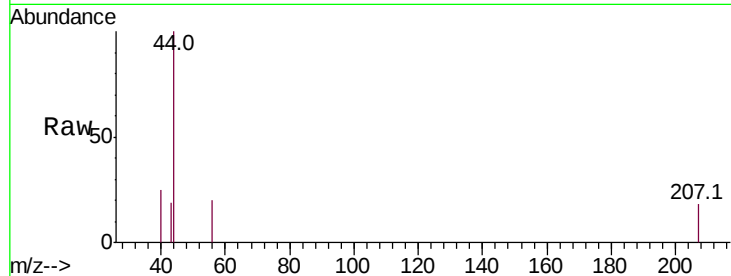
PAV-B36-091620-14-15

Tot Ion: 56 Resp: 97

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



#16

Acetone

Concen: 27.934 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063423.D

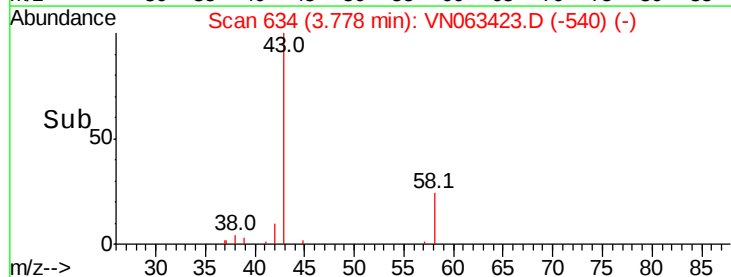
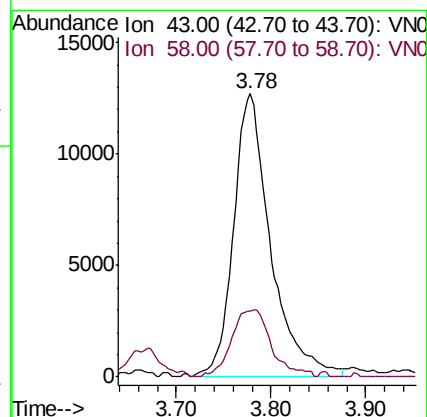
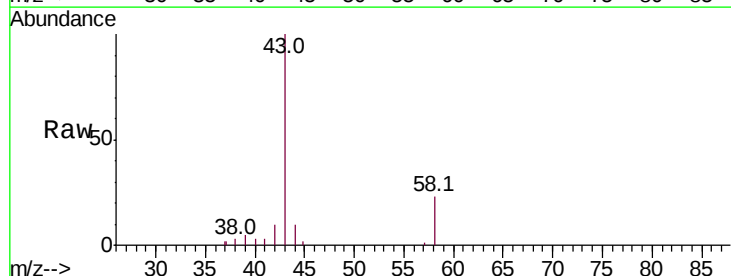
Acq: 17 Sep 2020 16:49

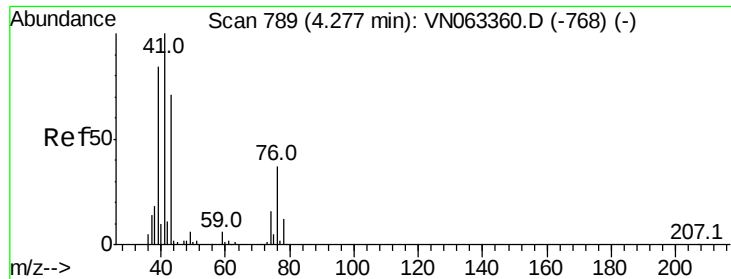
Tgt Ion: 43 Resp: 34664

Ion Ratio Lower Upper

43 100

58 23.3 22.3 33.5

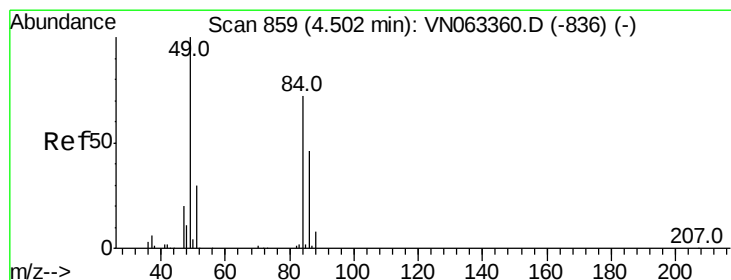
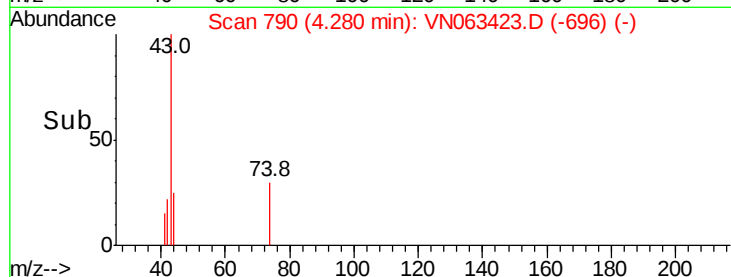
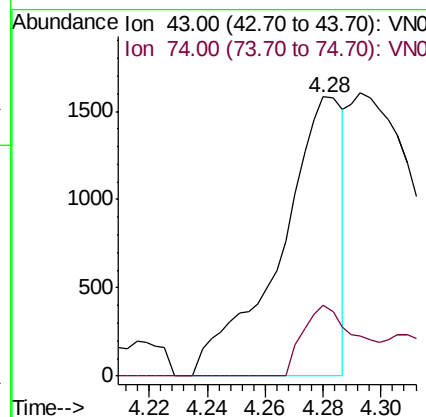
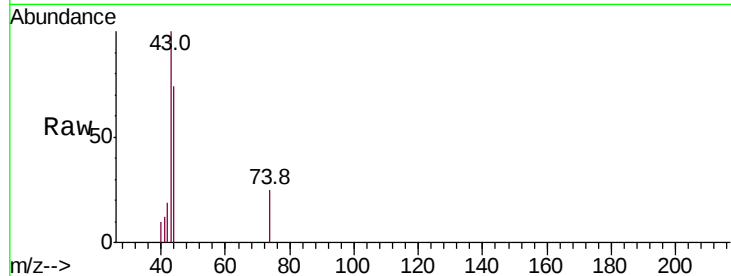




#18
Methvl Acetate
Concen: 0.757 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

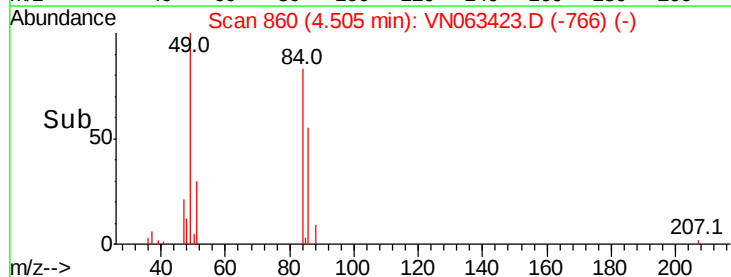
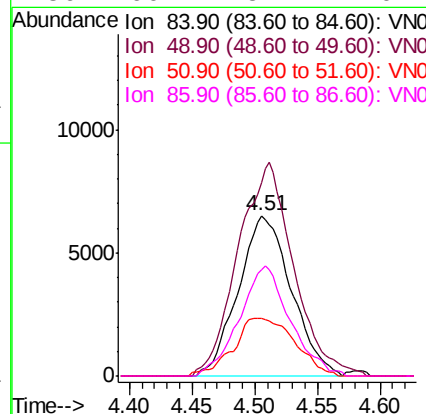
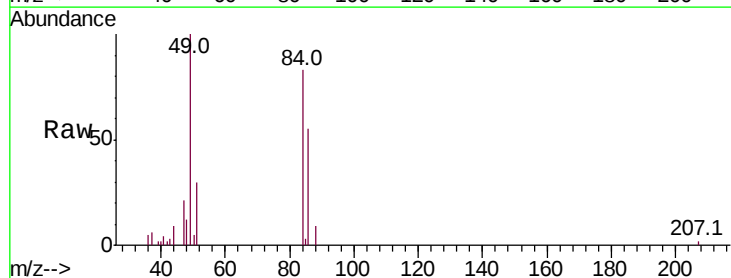
Instrument :
MSVOA_N
ClientSampleId :
PAV-B36-091620-14-15

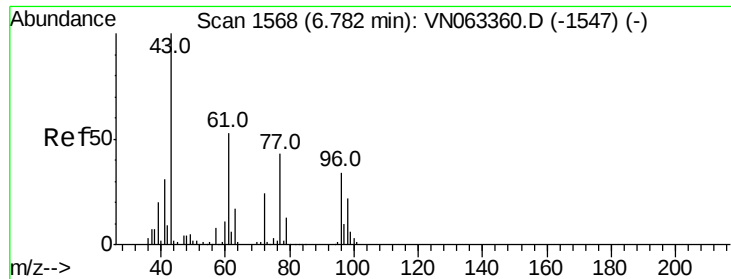
Tot Ion: 43 Resp: 2384
Ion Ratio Lower Upper
43 100
74 21.9 17.4 26.2



#20
Methylene Chloride
Concen: 6.087 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

Tgt Ion: 84 Resp: 19139
Ion Ratio Lower Upper
84 100
49 120.6 110.7 166.1
51 36.4 32.9 49.3
86 66.7 51.1 76.7

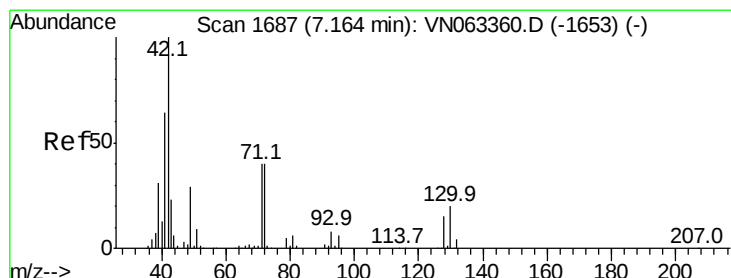
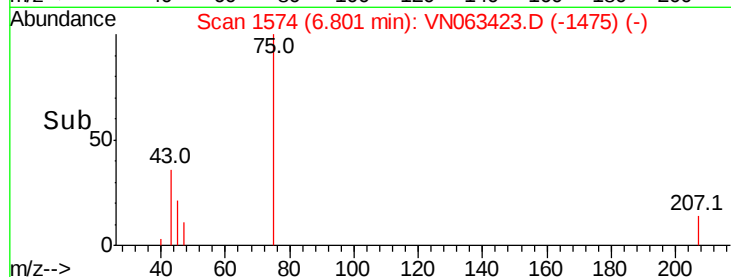
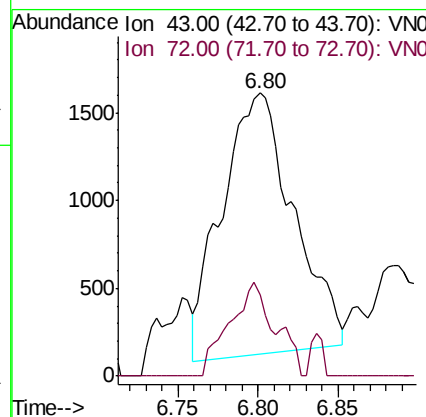
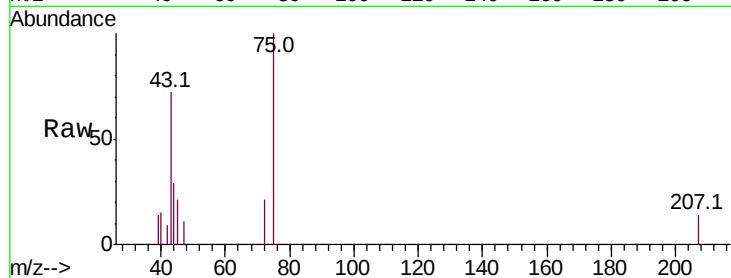




#25
2-Butanone
Concen: 2.405 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

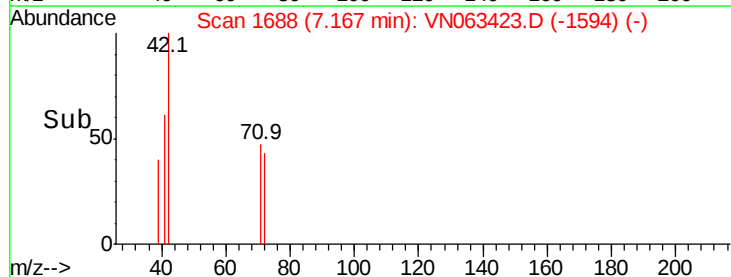
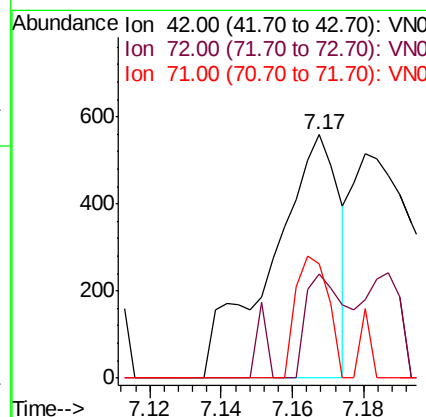
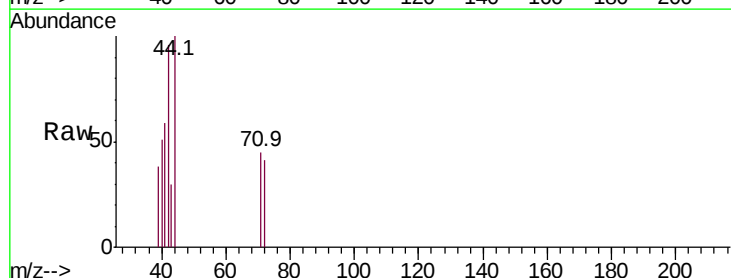
Instrument :
MSVOA_N
ClientSampleId :
PAV-B36-091620-14-15

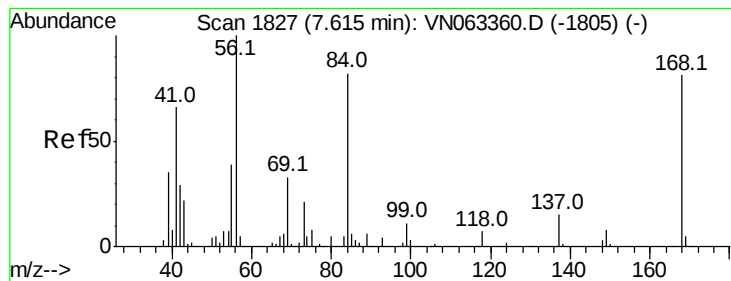
Tot Ion: 43 Resp: 4589
Ion Ratio Lower Upper
43 100
72 34.3 19.2 28.8#



#29
Tetrahydrofuran
Concen: 0.565 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

Tgt Ion: 42 Resp: 736
Ion Ratio Lower Upper
42 100
72 25.7 32.1 48.1#
71 24.2 31.2 46.8#





#31

Cyclohexane

Concen: 1.211 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B36-091620-14-15

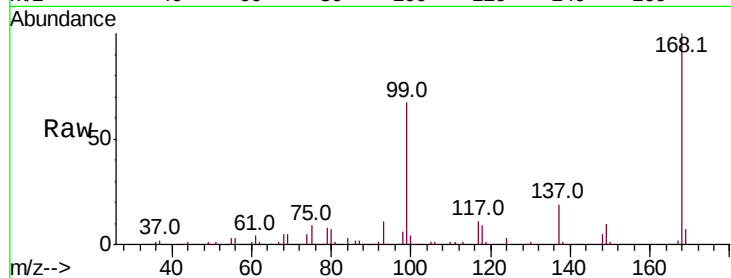
Tot Ion: 56 Resp: 6458

Ion Ratio Lower Upper

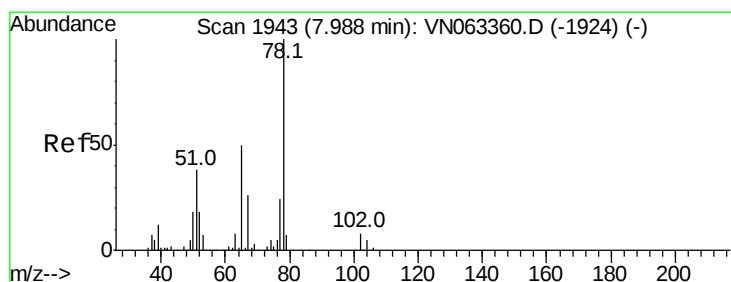
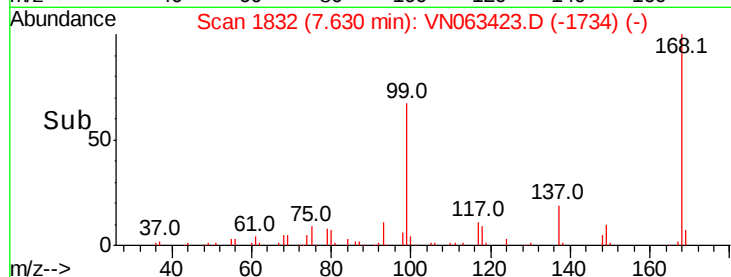
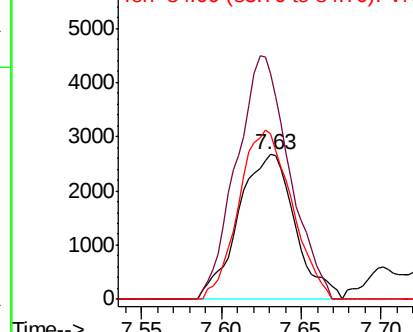
56 100

69 156.4 26.1 39.1#

84 114.7 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: 48.377 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063423.D

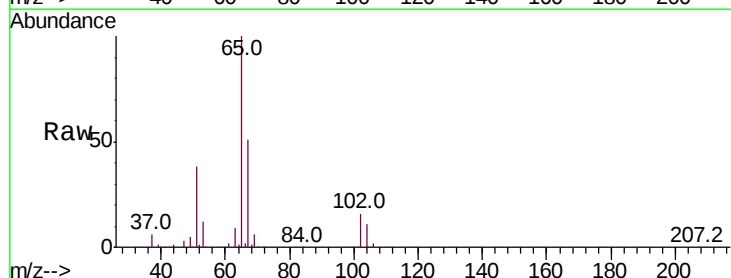
Acq: 17 Sep 2020 16:49

Tgt Ion: 65 Resp: 186789

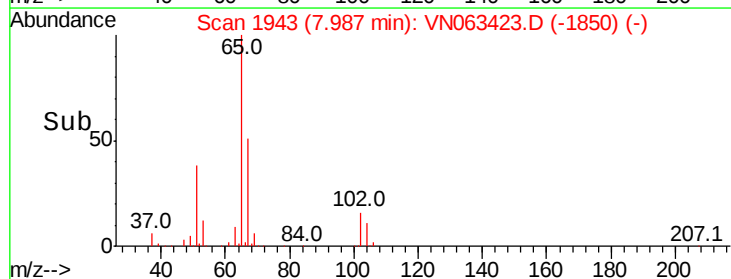
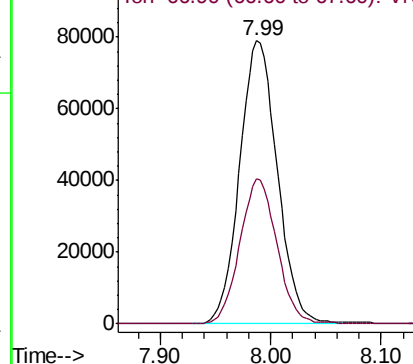
Ion Ratio Lower Upper

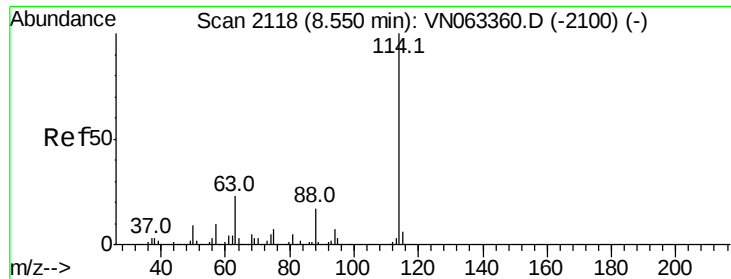
65 100

67 50.2 0.0 104.2



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

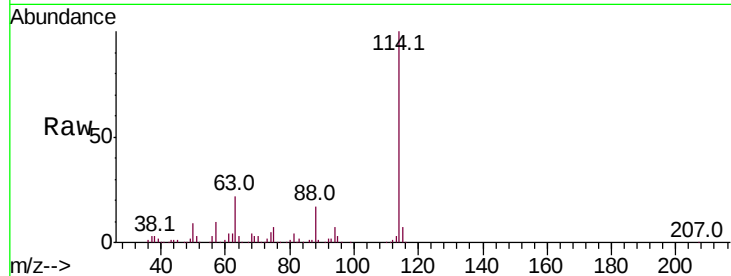




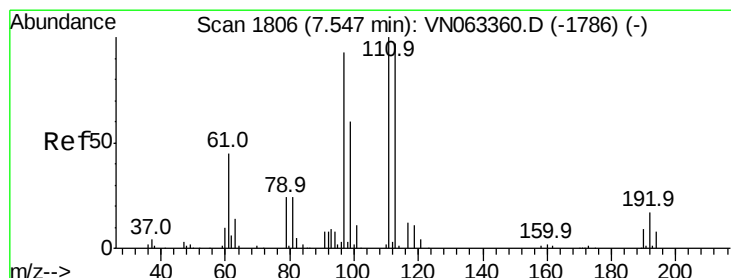
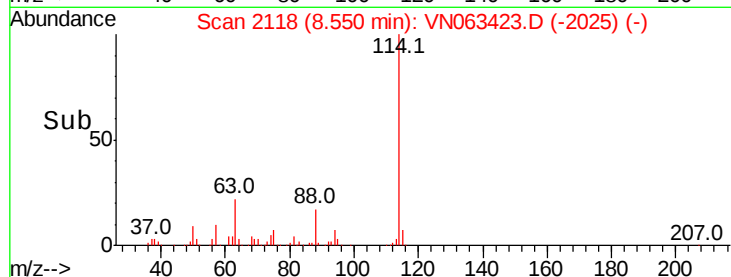
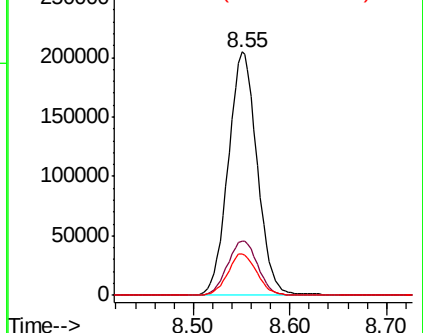
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

Instrument :
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PAV-B36-091620-14-15

Tot Ion:114 Resp: 425184
Ion Ratio Lower Upper
114 100
63 22.5 0.0 46.4
88 17.2 0.0 33.2

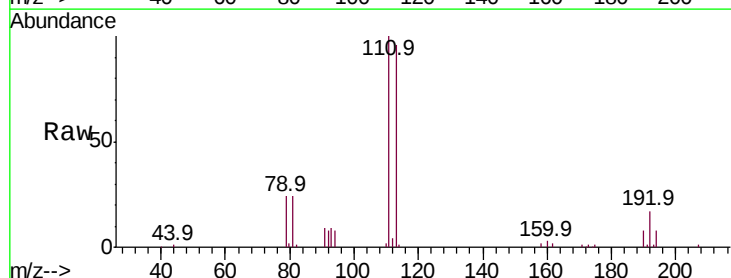


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

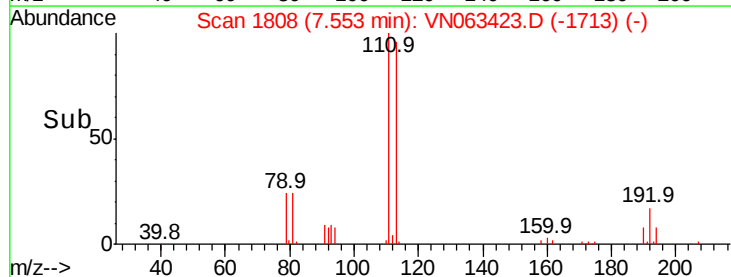
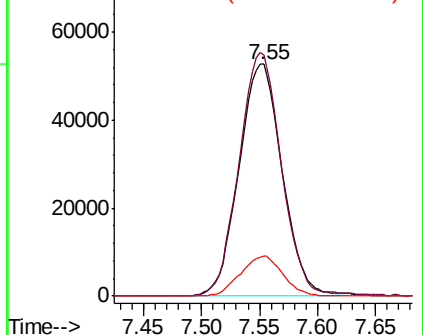


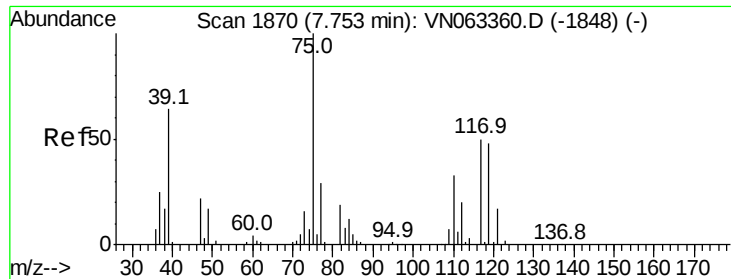
#35
Dibromofluoromethane
Concen: 46.438 ug/l
RT: 7.55 min Scan# 1808
Delta R.T. 0.01 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

Tgt Ion:113 Resp: 136688
Ion Ratio Lower Upper
113 100
111 102.7 82.9 124.3
192 17.1 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

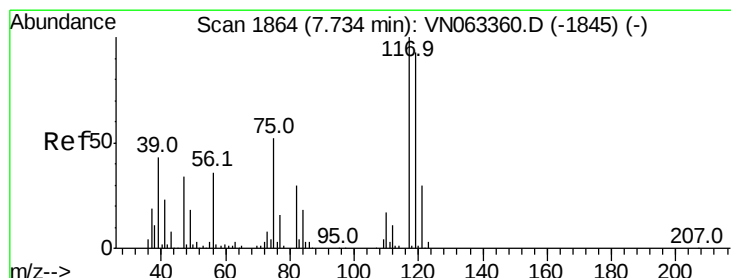
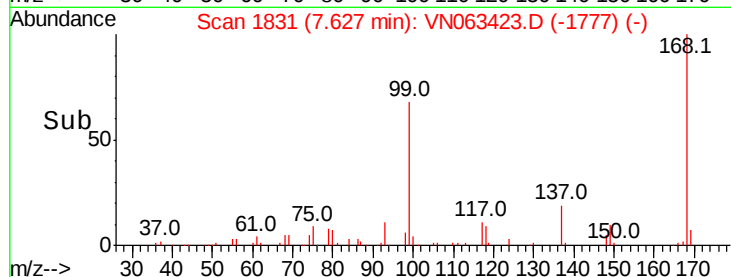
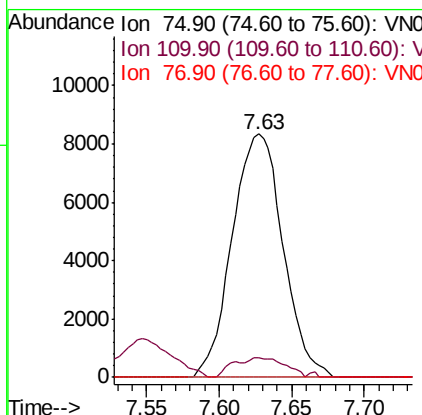
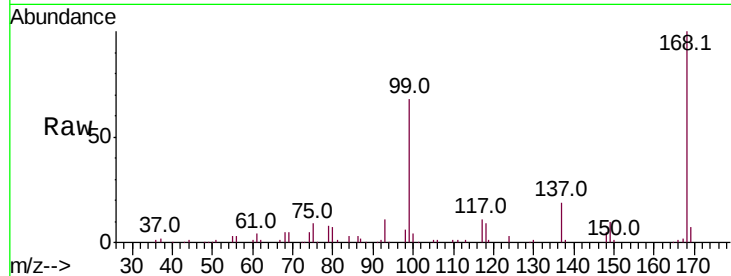




#36
 1,1-Dichloropropene
 Concen: 4.483 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063423.D
 Acq: 17 Sep 2020 16:49

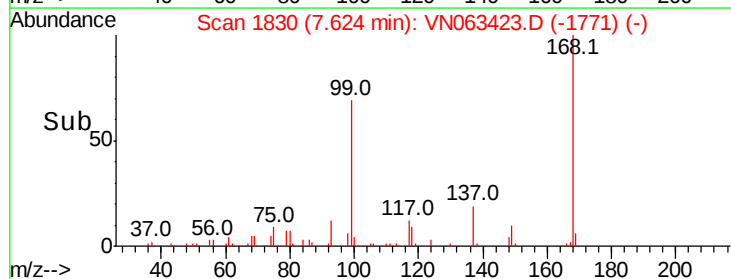
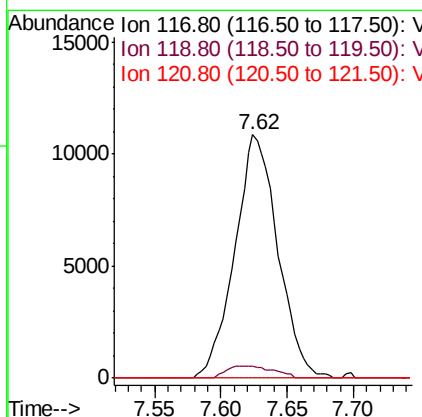
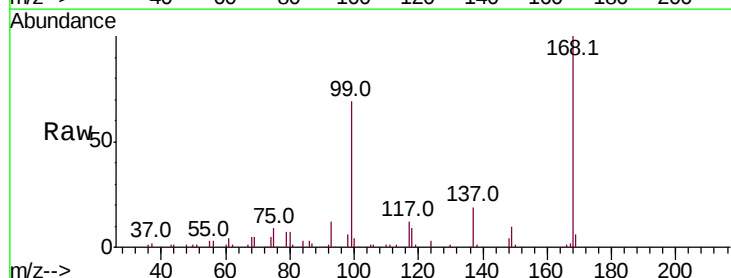
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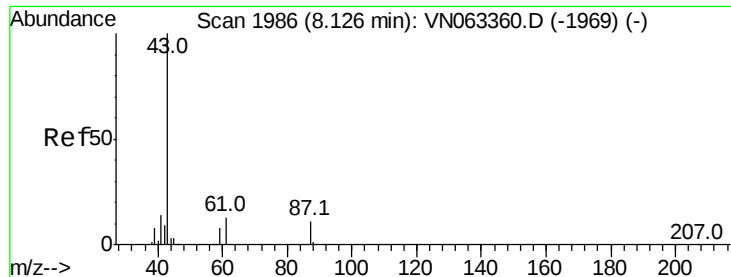
Tot Ion: 75 Resp: 20306
 Ion Ratio Lower Upper
 75 100
 110 5.7 16.5 49.5#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.302 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063423.D
 Acq: 17 Sep 2020 16:49

Tgt Ion: 117 Resp: 24517
 Ion Ratio Lower Upper
 117 100
 119 4.6 74.5 111.7#
 121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 11.421 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B36-091620-14-15

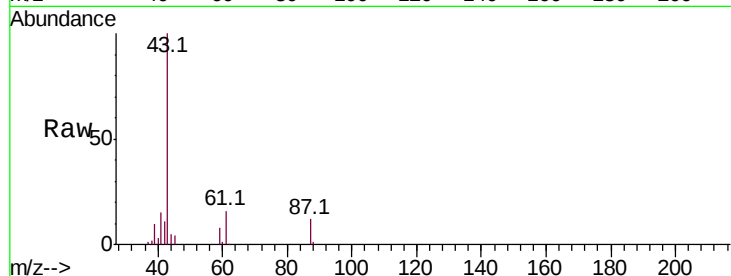
Tot Ion: 43 Resp: 90790

Ion Ratio Lower Upper

43 100

61 17.2 14.2 21.2

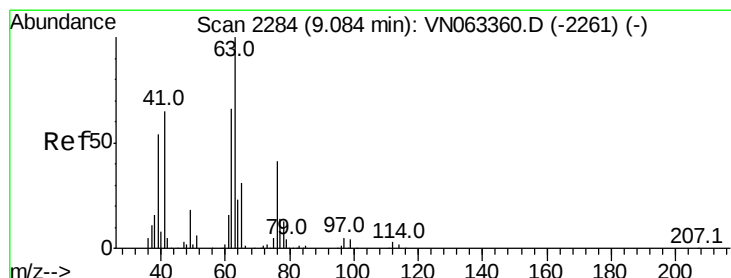
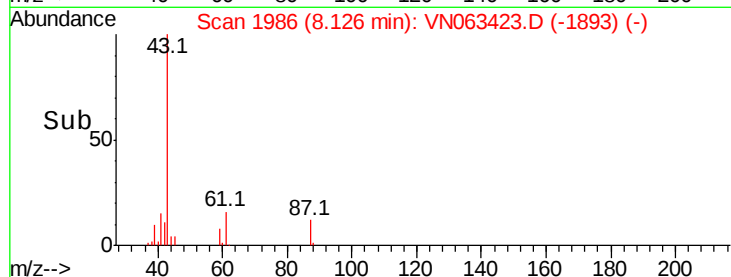
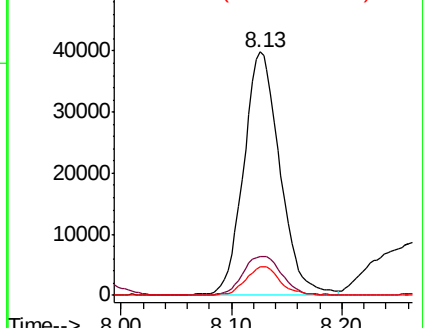
87 11.2 9.0 13.6



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: 0.478 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063423.D

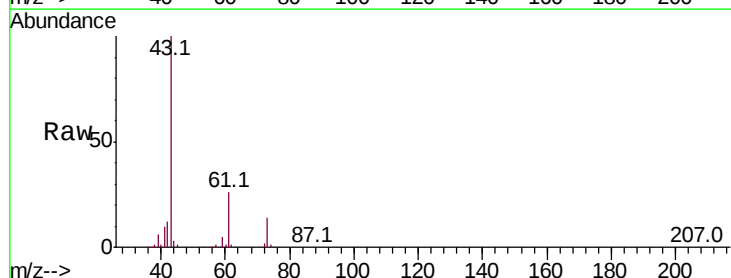
Acq: 17 Sep 2020 16:49

Tgt Ion: 63 Resp: 1683

Ion Ratio Lower Upper

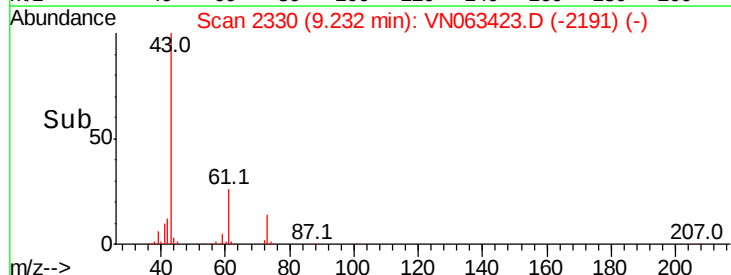
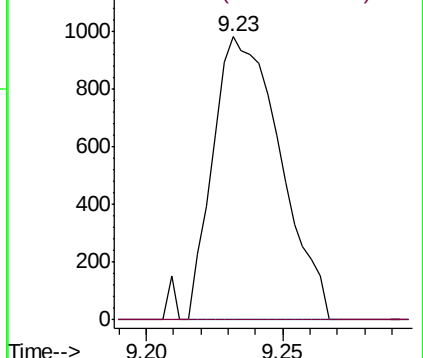
63 100

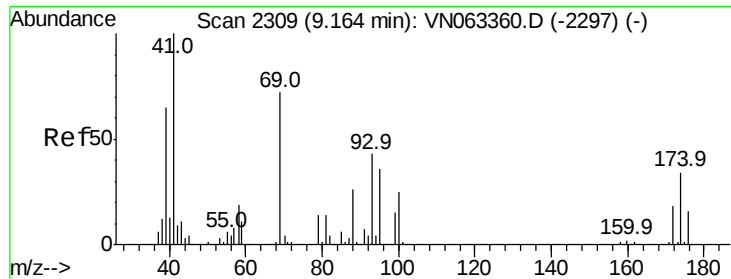
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

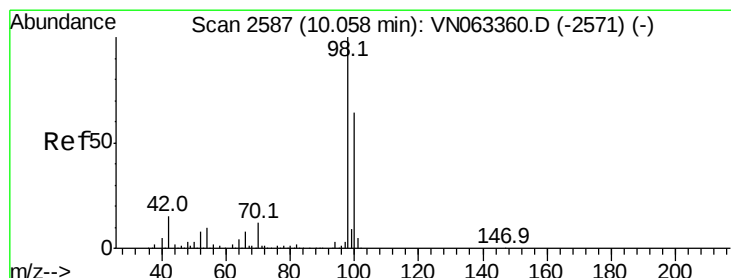
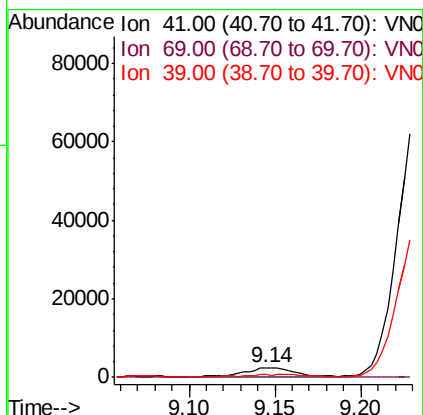
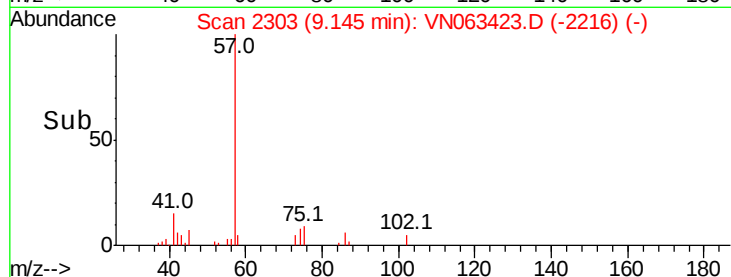
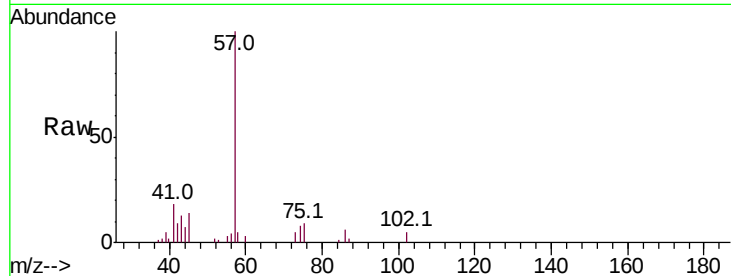




#48
Methvl methacrylate
Concen: 1.166 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

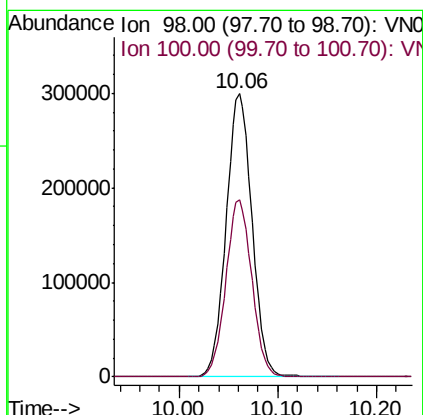
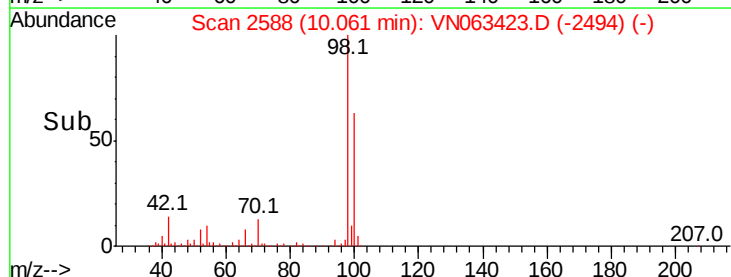
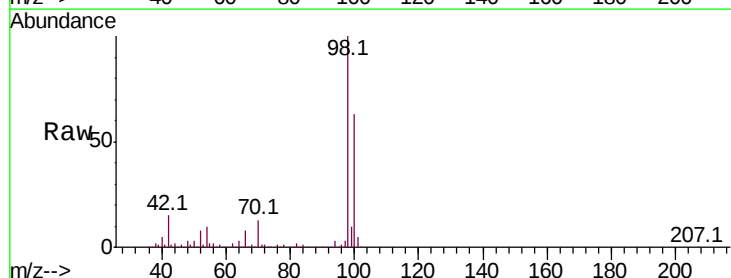
Instrument :
MSVOA_N
ClientSampleId :
PAV-B36-091620-14-15

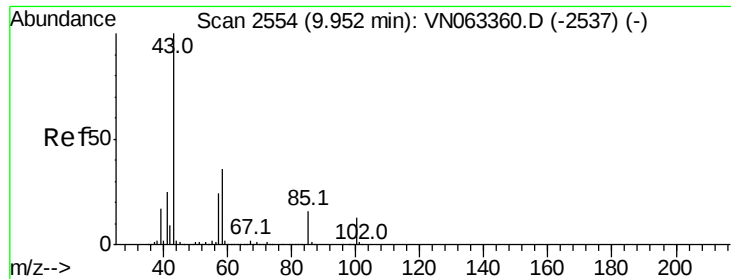
Tot Ion: 41 Resp: 4554
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#50
Toluene-d8
Concen: 49.796 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

Tgt Ion: 98 Resp: 551137
Ion Ratio Lower Upper
98 100
100 62.9 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 2.065 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

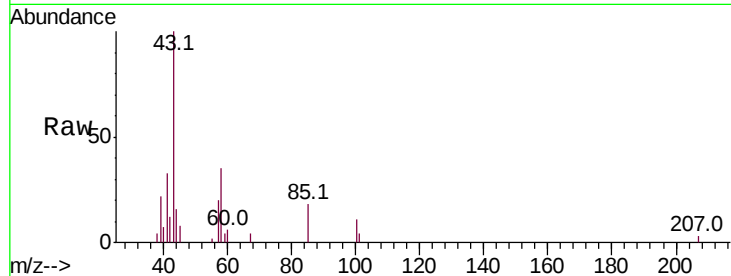
PAV-B36-091620-14-15

Tot Ion: 43 Resp: 9191

Ion Ratio Lower Upper

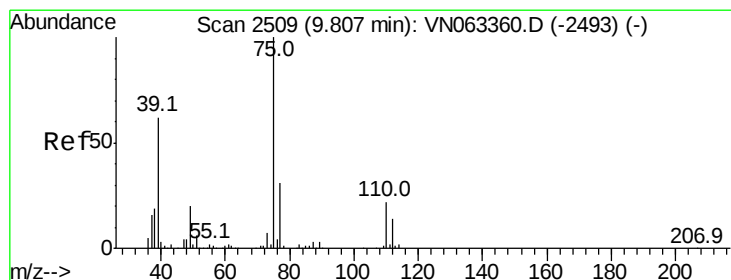
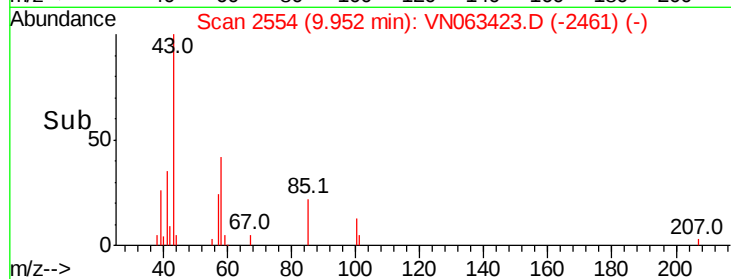
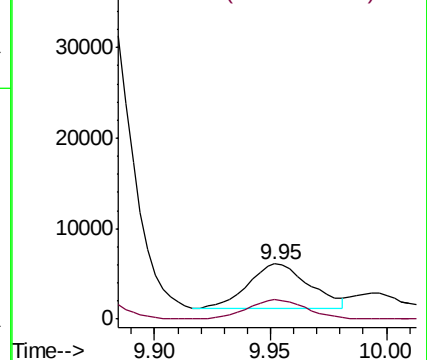
43 100

58 41.3 29.0 43.6



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: 6.042 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

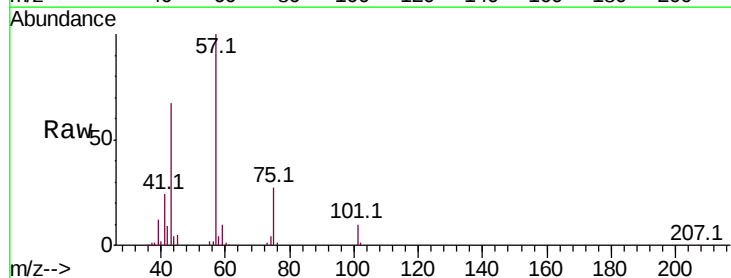
Tgt Ion: 75 Resp: 34214

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

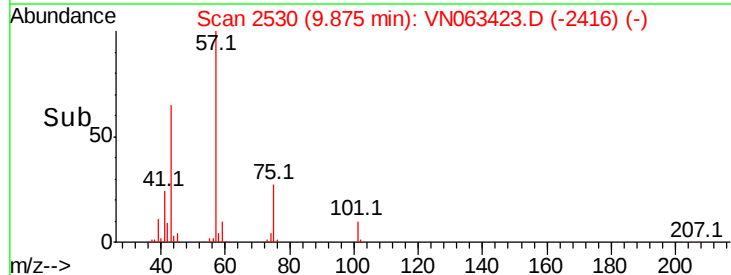
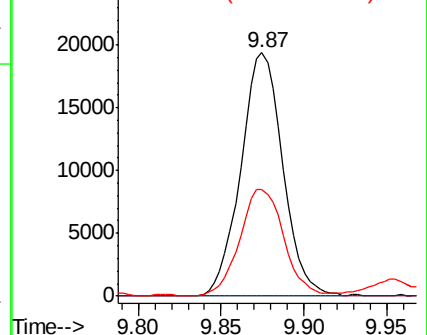
39 43.8 49.8 74.8#

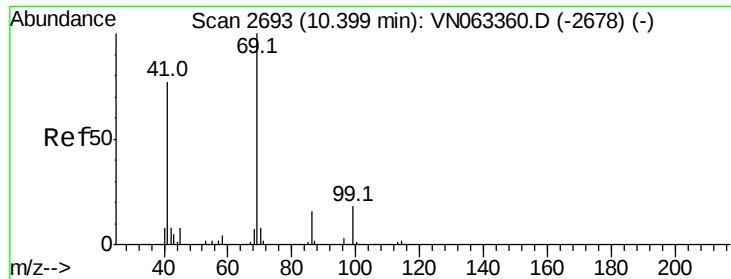


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.271 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B36-091620-14-15

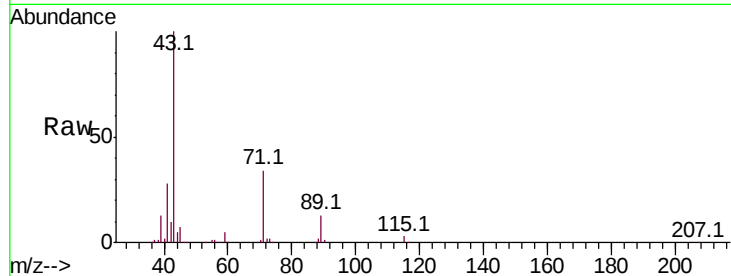
Tot Ion: 69 Resp: 1306

Ion Ratio Lower Upper

69 100

41 6763.9 61.0 91.6#

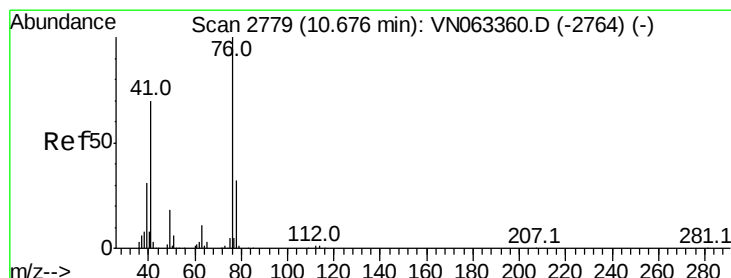
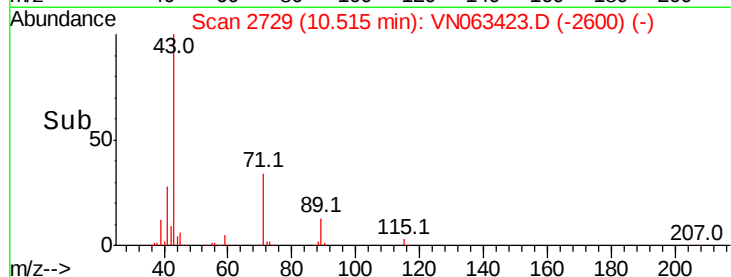
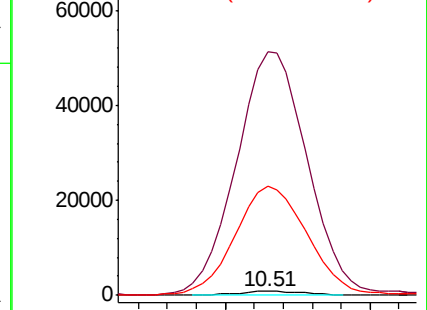
39 3066.9 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.840 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063423.D

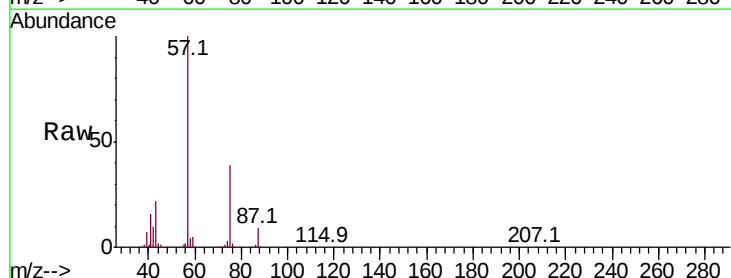
Acq: 17 Sep 2020 16:49

Tgt Ion: 76 Resp: 4676

Ion Ratio Lower Upper

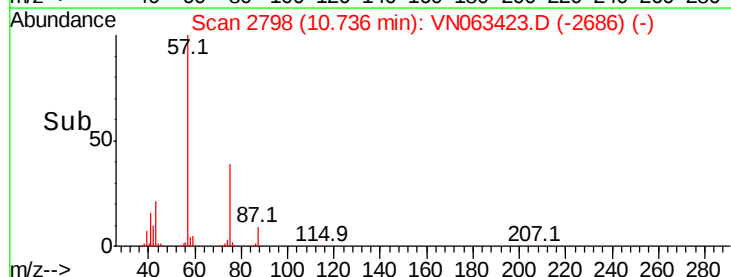
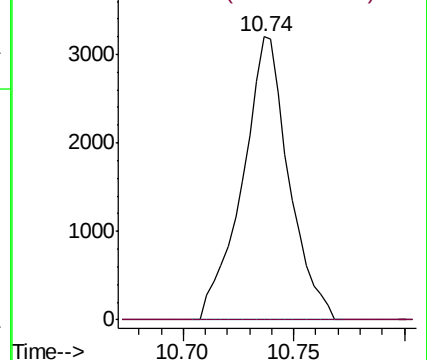
76 100

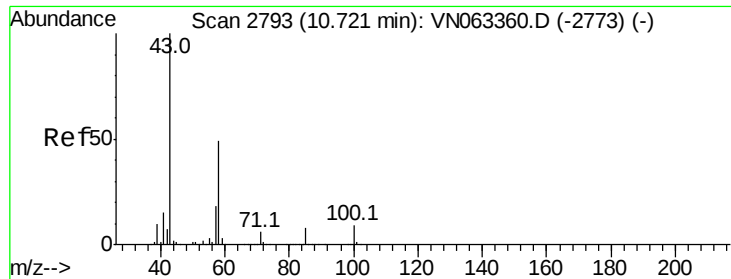
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 22.928 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

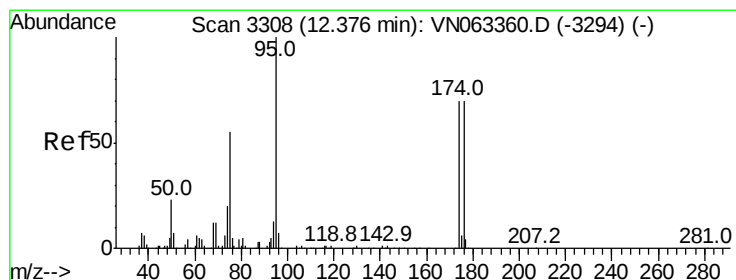
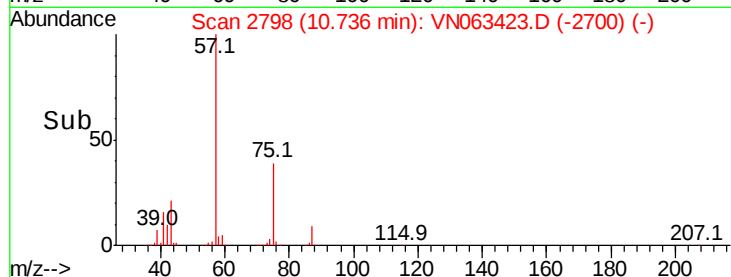
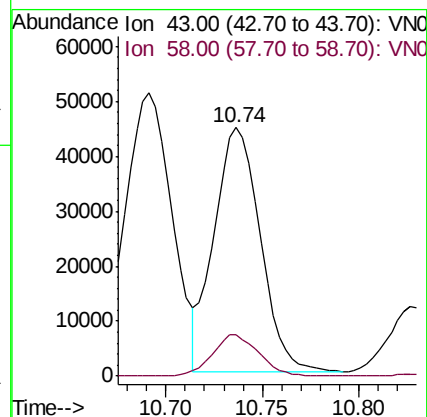
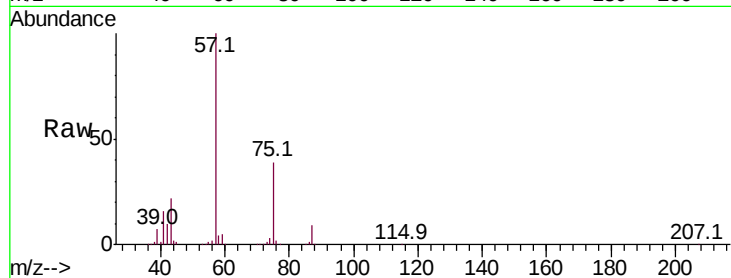
PAV-B36-091620-14-15

Tot Ion: 43 Resp: 73924

Ion Ratio Lower Upper

43 100

58 17.0 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.424 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

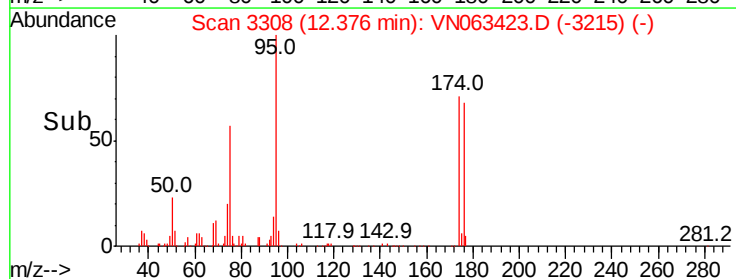
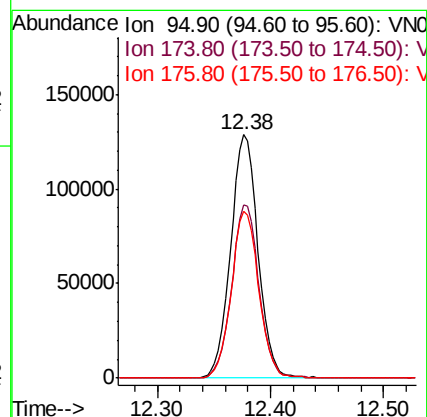
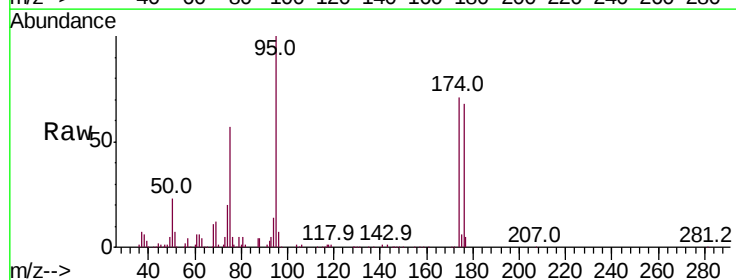
Tgt Ion: 95 Resp: 216757

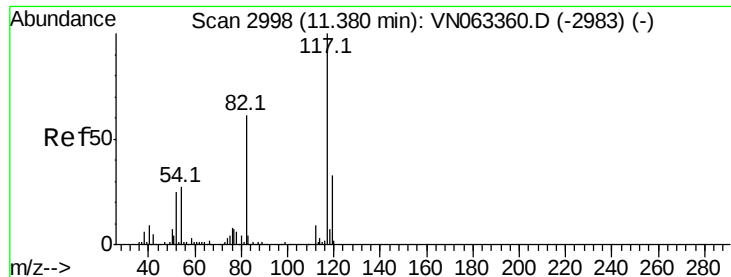
Ion Ratio Lower Upper

95 100

174 71.1 0.0 140.8

176 69.0 0.0 137.6

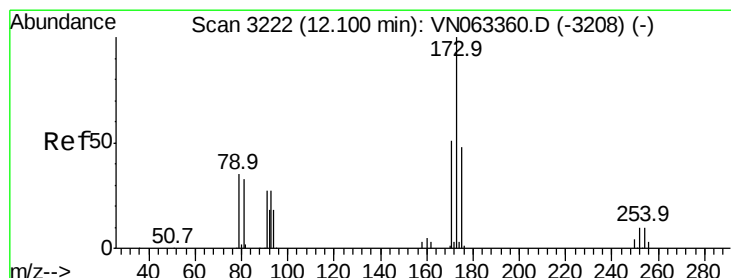
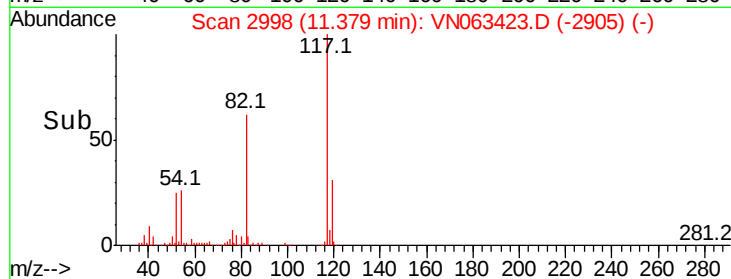
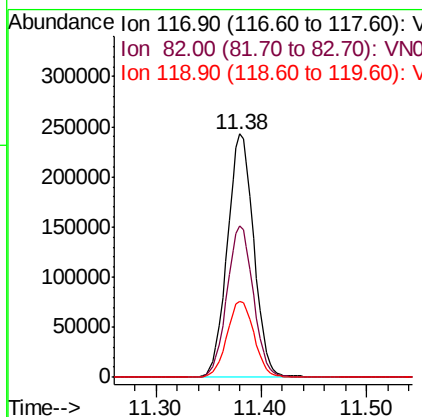
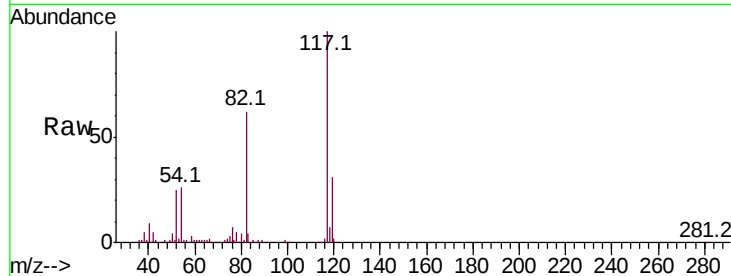




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

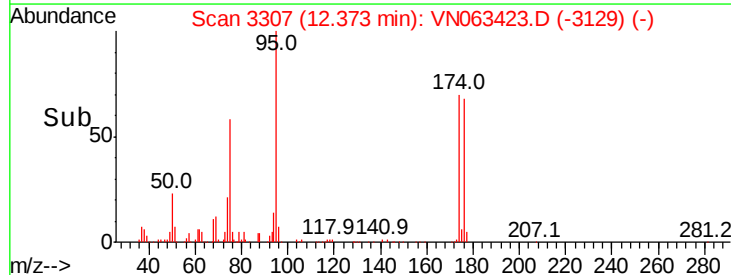
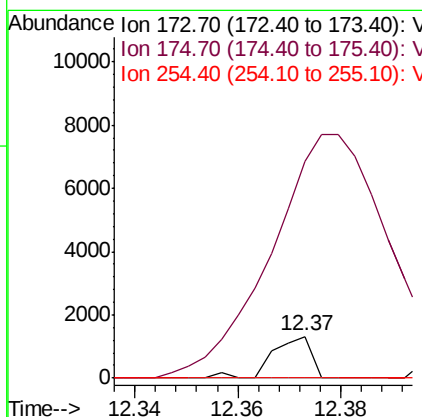
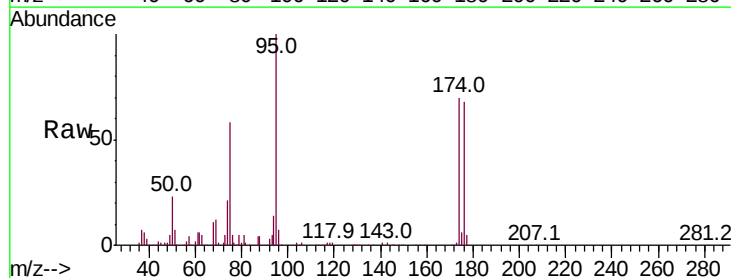
Instrument :
MSVOA_N
ClientSampleId :
PAV-B36-091620-14-15

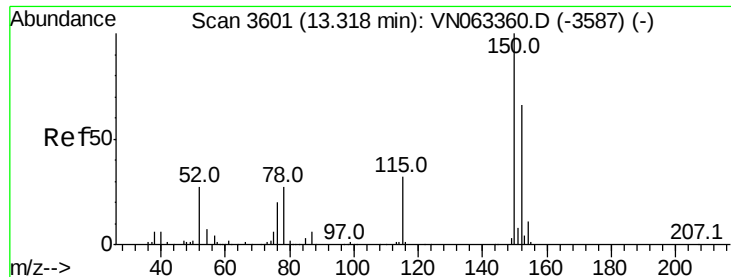
Tot Ion:117 Resp: 420039
Ion Ratio Lower Upper
117 100
82 62.3 49.2 73.8
119 31.4 26.2 39.4



#71
Bromoform
Concen: 0.275 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063423.D
Acq: 17 Sep 2020 16:49

Tgt Ion:173 Resp: 670
Ion Ratio Lower Upper
173 100
175 1485.2 24.0 72.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

PAV-B36-091620-14-15

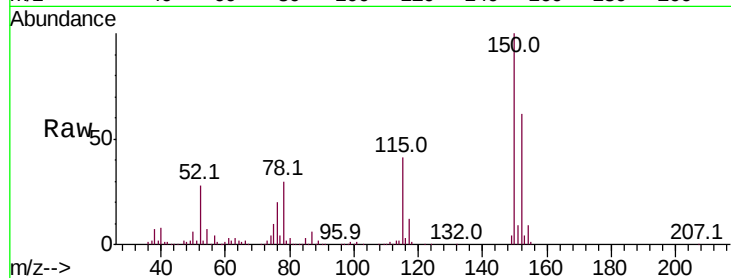
Tot Ion:152 Resp: 180713

Ion Ratio Lower Upper

152 100

115 65.0 32.2 96.6

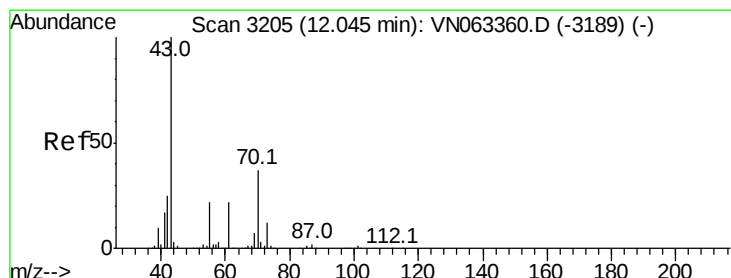
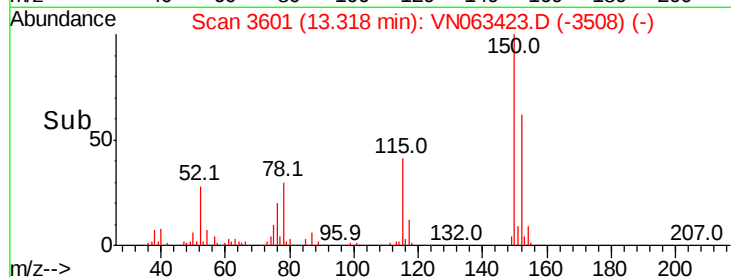
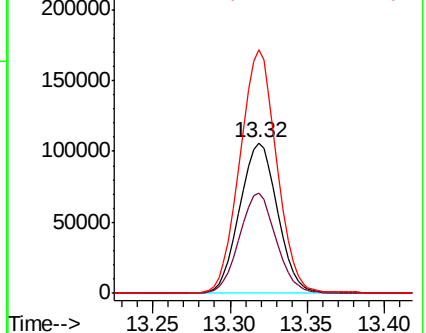
150 158.8 0.0 343.4



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: 0.339 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Tgt Ion: 43 Resp: 2322

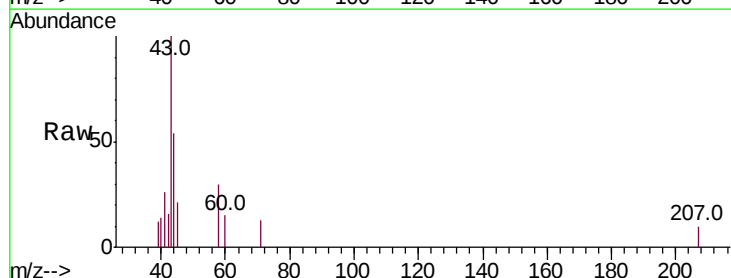
Ion Ratio Lower Upper

43 100

70 2.7 29.6 44.4#

55 8.5 17.7 26.5#

61 0.0 17.4 26.2#

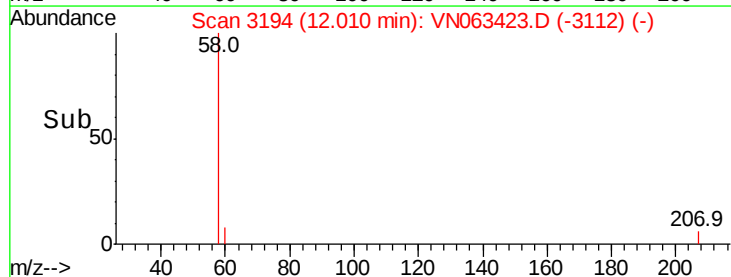
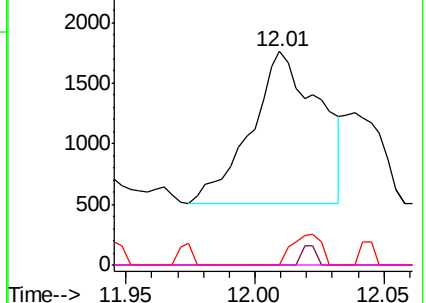


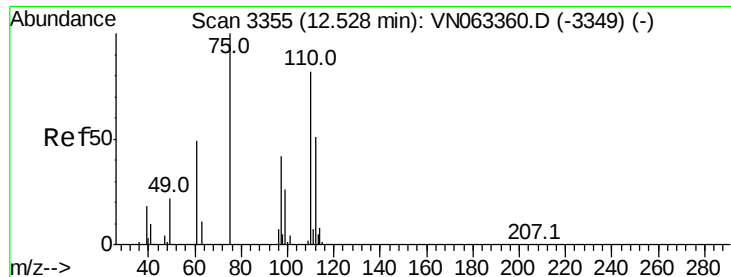
Abundance Ion 43.00 (42.70 to 43.70): V

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: 27.718 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

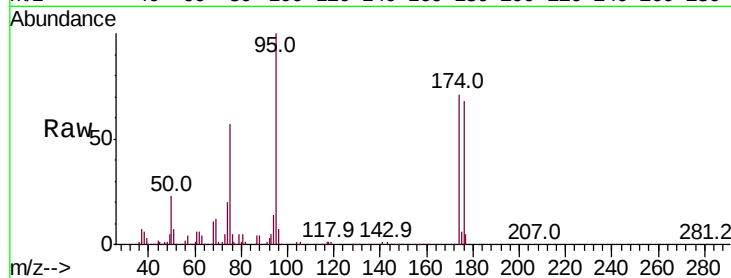
PAV-B36-091620-14-15

Tot Ion: 75 Resp: 123981

Ion Ratio Lower Upper

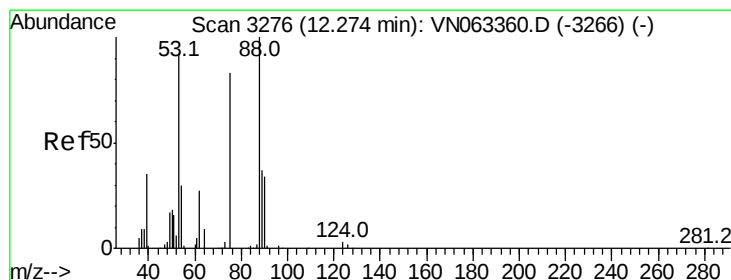
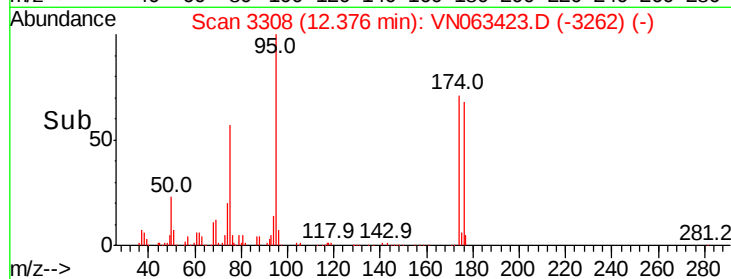
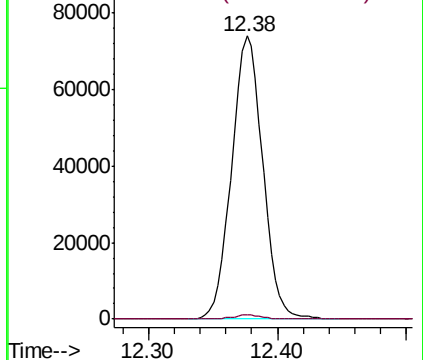
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 75.993 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063423.D

Acq: 17 Sep 2020 16:49

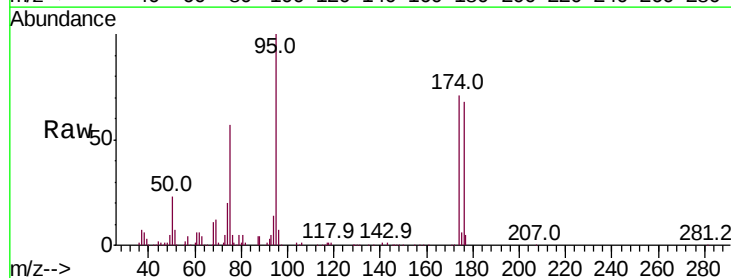
Tgt Ion: 75 Resp: 123981

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.1 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

