

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063422.D
 Acq On : 17 Sep 2020 16:25
 Operator : JC/MD
 Sample : L4038-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-091620-DP

Quant Time: Sep 18 02:50:42 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	237379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	451058	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	448283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196720	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	196898	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
35) Dibromofluoromethane	7.55	113	146726	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	10.06	98	583662	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.38	95	232940	54.12	ug/l	0.00
Spiked Amount			Recovery	=	108.24%	

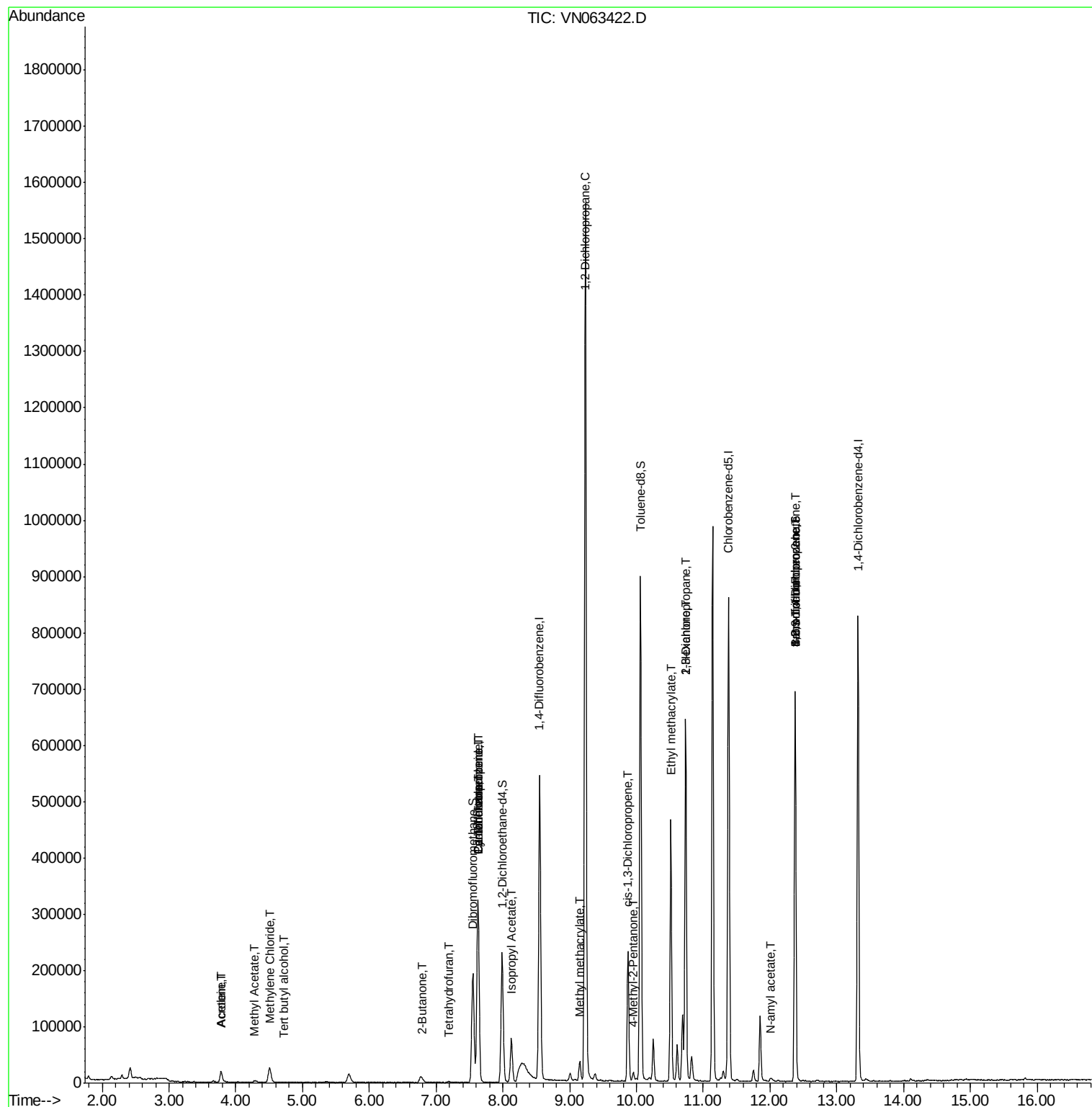
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	511	0.913	ug/l #	72
13) Acrolein	3.77	56	61	0.294	ug/l #	13
16) Acetone	3.78	43	33187	25.555	ug/l	98
18) Methyl Acetate	4.27	43	1657	0.503	ug/l #	80
20) Methylene Chloride	4.51	84	17810	5.413	ug/l	92
25) 2-Butanone	6.80	43	4843	2.425	ug/l #	80
29) Tetrahydrofuran	7.18	42	1377	1.009	ug/l #	40
31) Cyclohexane	7.63	56	6610	1.184	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	22361	4.653	ug/l #	50
38) Carbon Tetrachloride	7.63	117	27019	5.508	ug/l #	18
43) Isopropyl Acetate	8.13	43	95831	11.364	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1880	0.503	ug/l #	43
48) Methyl methacrylate	9.14	41	4777	1.153	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	12265	2.598	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	37363	6.220	ug/l #	64
56) Ethyl methacrylate	10.51	69	1396	0.273	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6292	1.065	ug/l #	42
59) 2-Hexanone	10.74	43	99608	29.122	ug/l #	53
71) Bromoform	12.37	173	765	0.294	ug/l #	1
74) N-amyl acetate	12.02	43	4604	0.617	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	129969	26.693	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	129969	73.181	ug/l #	7

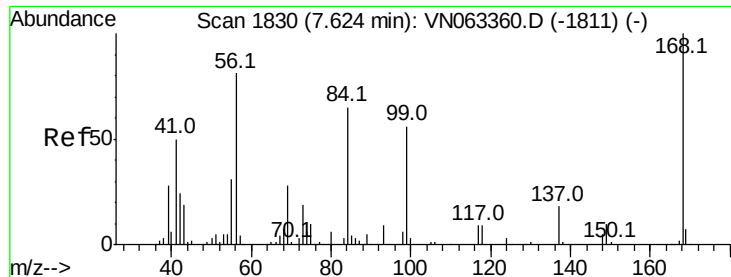
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

Instrument :

MSVOA_N

ClientSampleId :

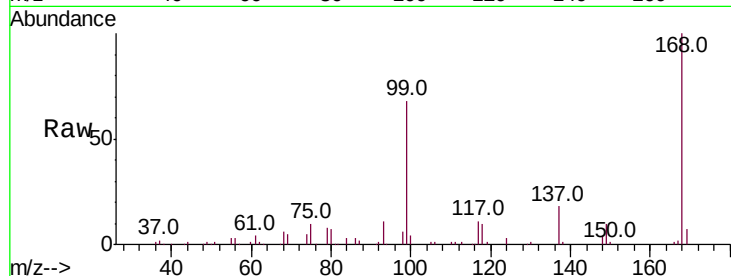
PAV-091620-DP

Tot Ion:168 Resp: 237379

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

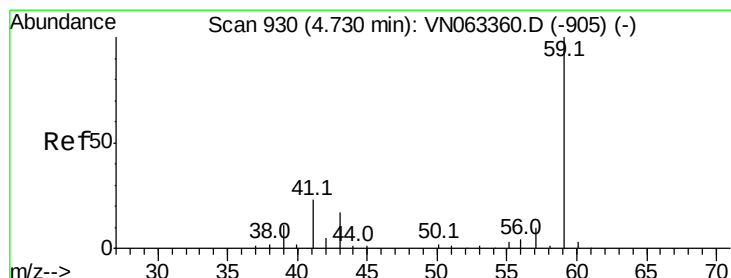
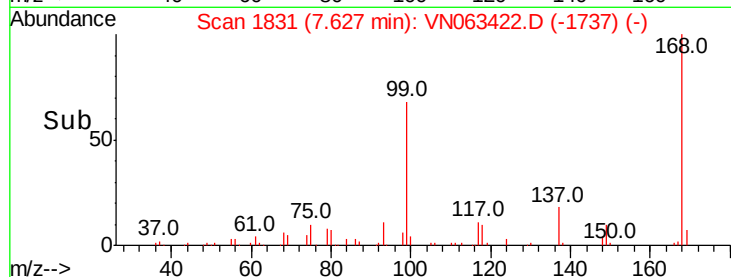
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.913 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN063422.D

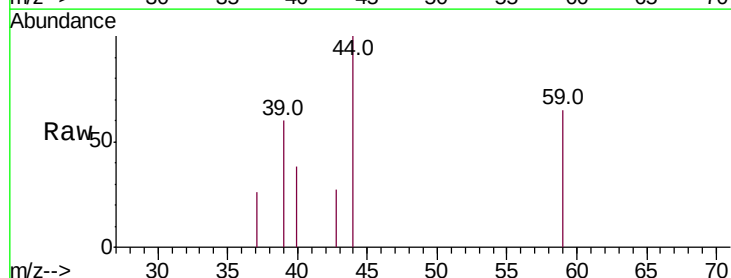
Acq: 17 Sep 2020 16:25

Tgt Ion: 59 Resp: 511

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

4.73

400

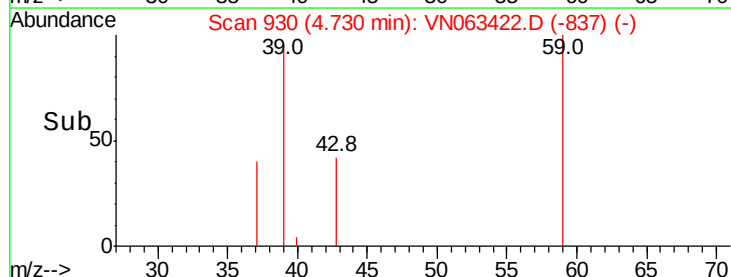
300

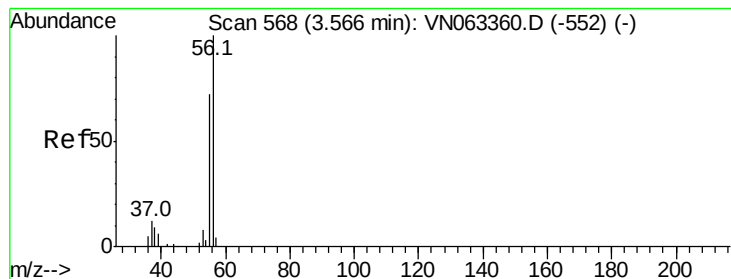
200

100

0

Time--> 4.70 4.72 4.74





#13

Acrolein

Concen: 0.294 ug/l

RT: 3.77 min Scan# 630

Delta R.T. 0.20 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

Instrument :

MSVOA_N

ClientSampleId :

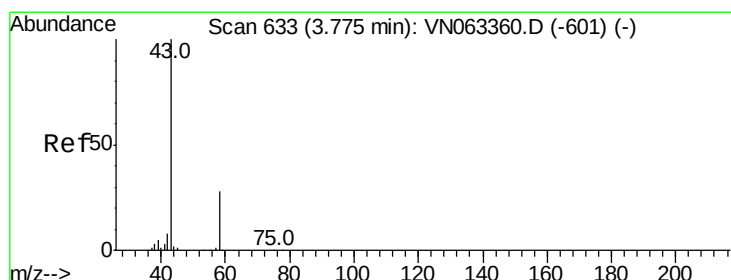
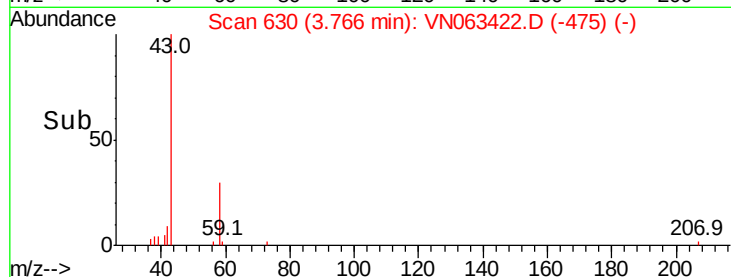
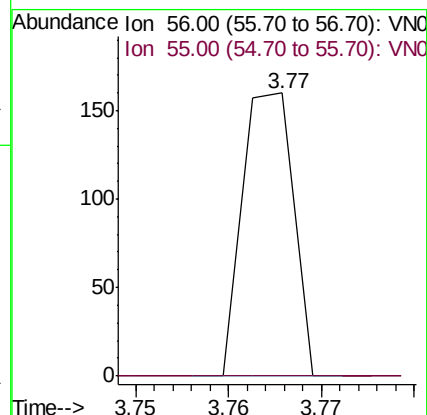
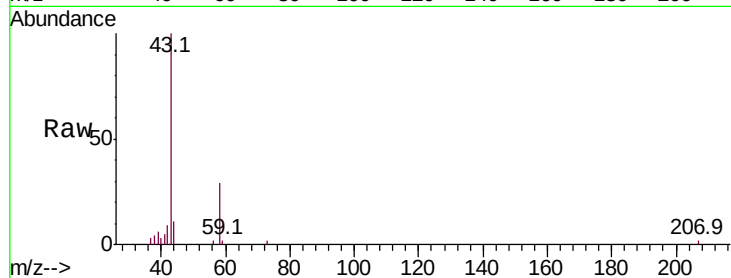
PAV-091620-DP

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



#16

Acetone

Concen: 25.555 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063422.D

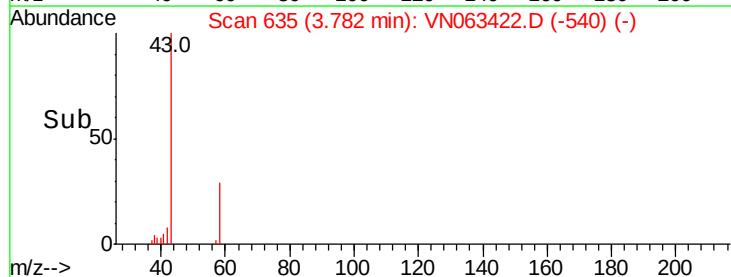
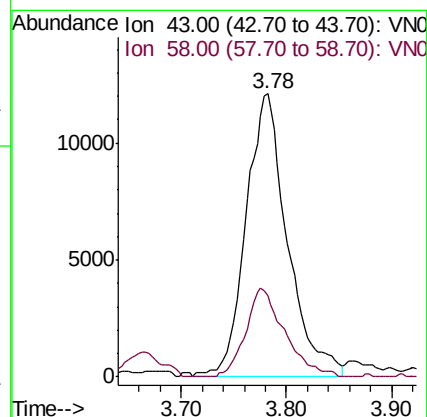
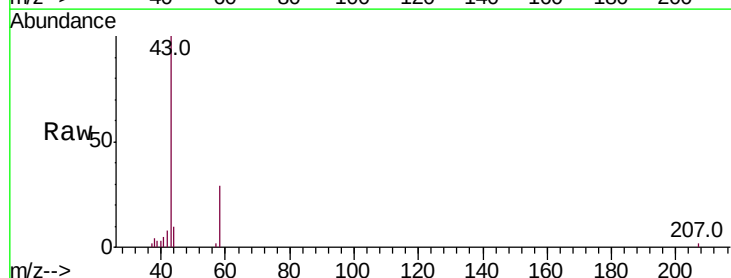
Acq: 17 Sep 2020 16:25

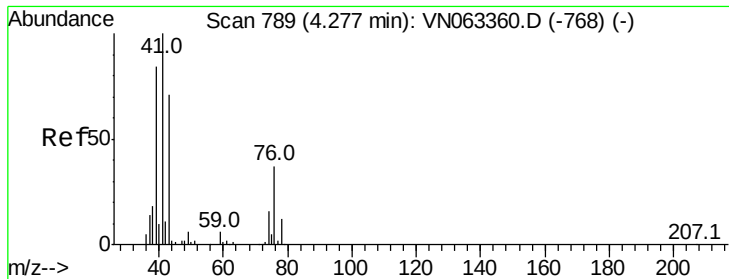
Tgt Ion: 43 Resp: 33187

Ion Ratio Lower Upper

43 100

58 28.8 22.3 33.5

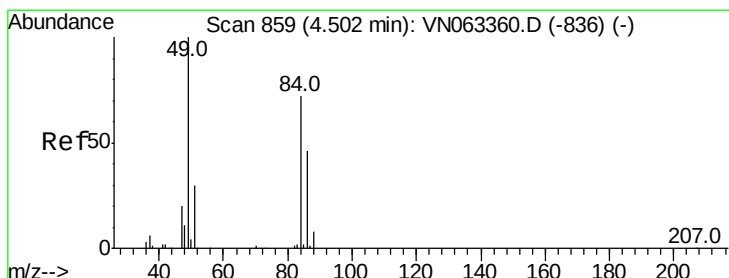
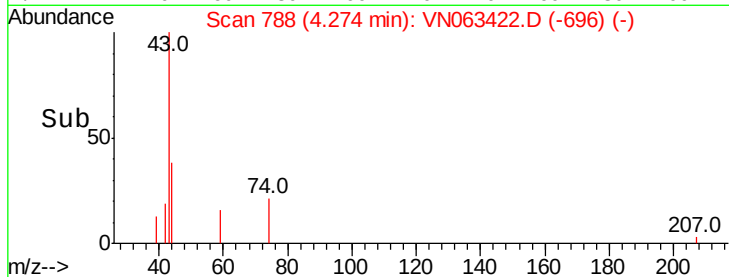
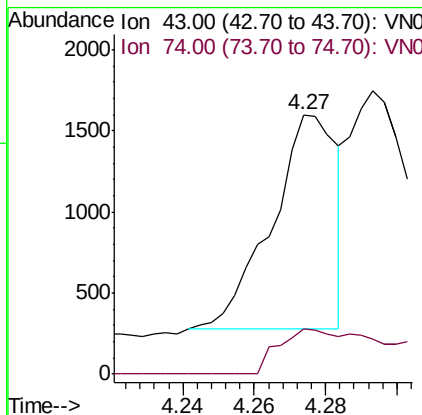
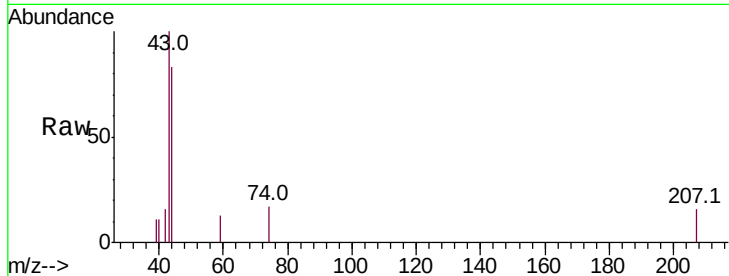




#18
Methvl Acetate
Concen: 0.503 ug/l
RT: 4.27 min Scan# 788
Delta R.T. -0.00 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

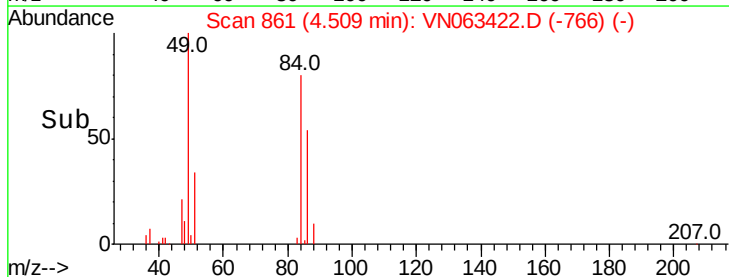
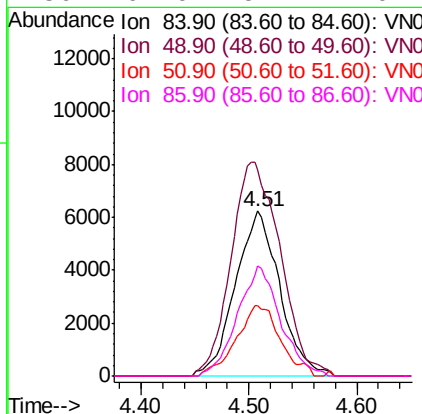
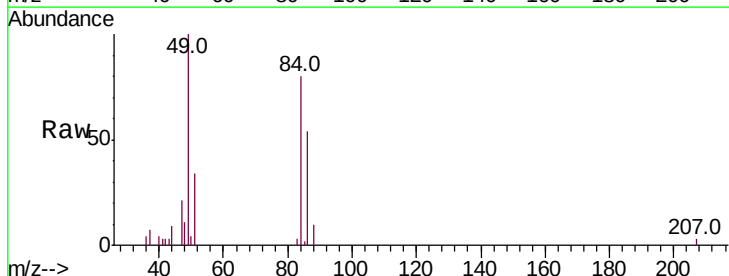
Instrument :
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PAV-091620-DP

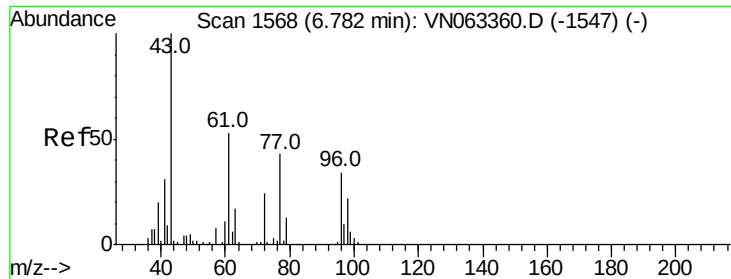
Tot Ion: 43 Resp: 1657
Ion Ratio Lower Upper
43 100
74 31.4 17.4 26.2#



#20
Methylene Chloride
Concen: 5.413 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Tgt Ion: 84 Resp: 17810
Ion Ratio Lower Upper
84 100
49 125.1 110.7 166.1
51 42.7 32.9 49.3
86 67.0 51.1 76.7

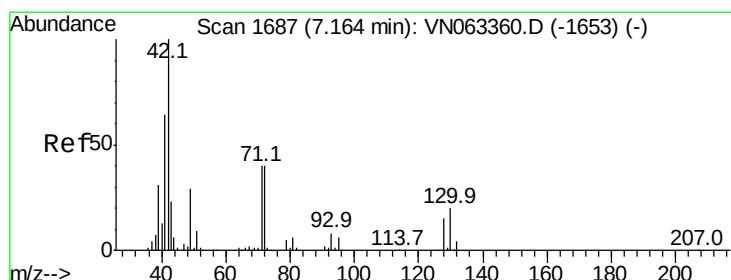
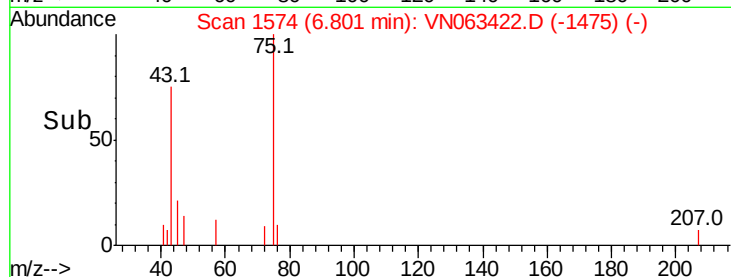
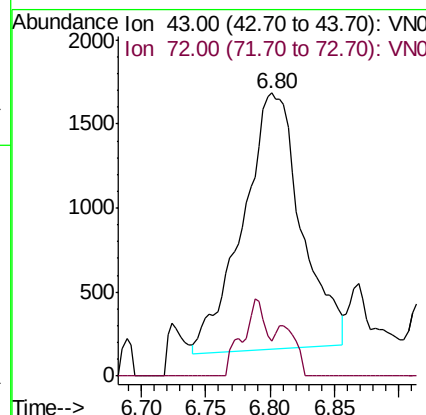
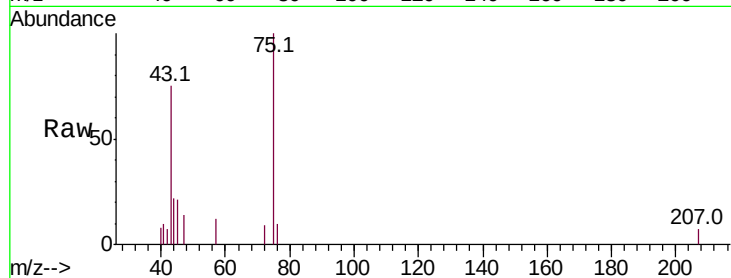




#25
2-Butanone
Concen: 2.425 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

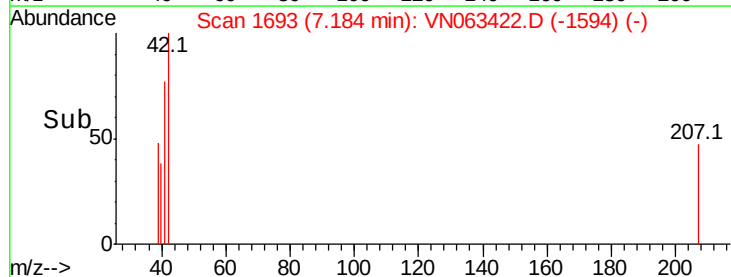
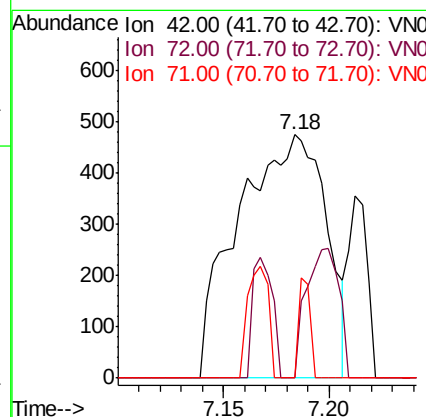
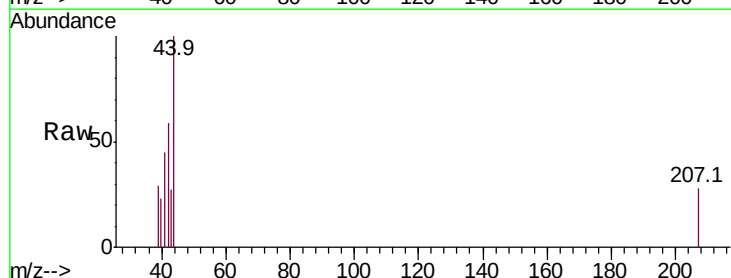
Instrument :
MSVOA_N
ClientSampleId :
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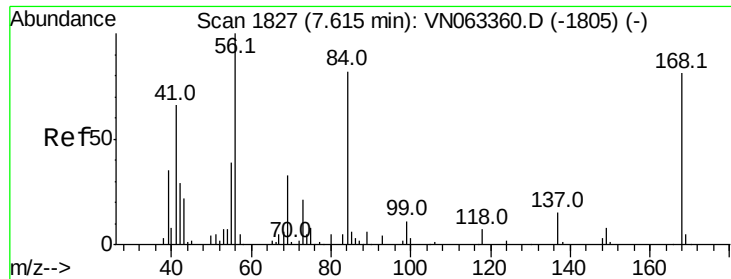
Tot Ion: 43 Resp: 4843
Ion Ratio Lower Upper
43 100
72 14.0 19.2 28.8#



#29
Tetrahydrofuran
Concen: 1.009 ug/l
RT: 7.18 min Scan# 1693
Delta R.T. 0.02 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Tgt Ion: 42 Resp: 1377
Ion Ratio Lower Upper
42 100
72 0.0 32.1 48.1#
71 5.3 31.2 46.8#

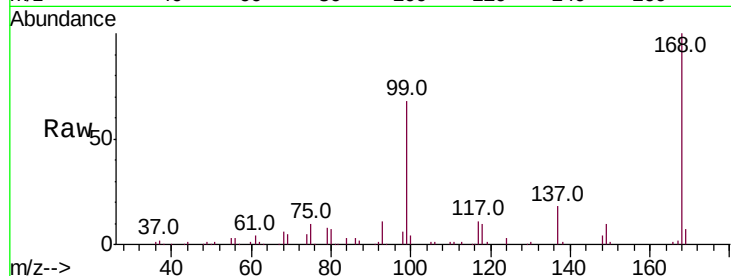




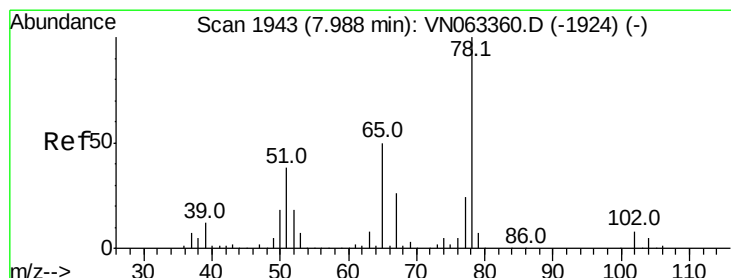
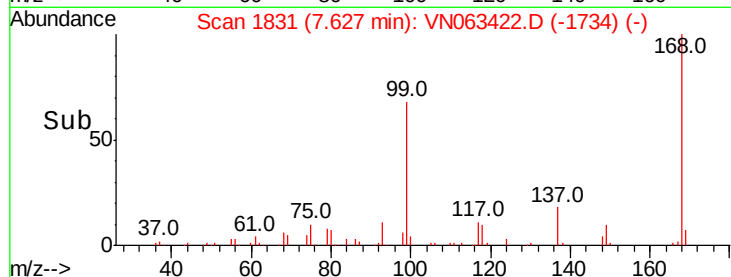
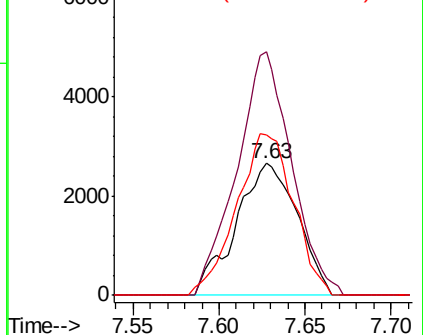
#31
Cyclohexane
Concen: 1.184 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Instrument :
MSVOA_N
ClientSampleId :
PAV-091620-DP

Tot Ion: 56 Resp: 6610
Ion Ratio Lower Upper
56 100
69 184.5 26.1 39.1#
84 121.3 65.4 98.2#

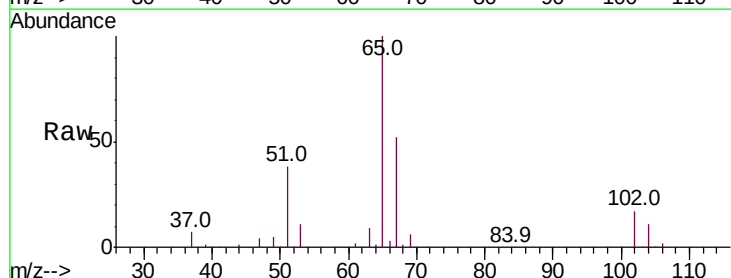


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

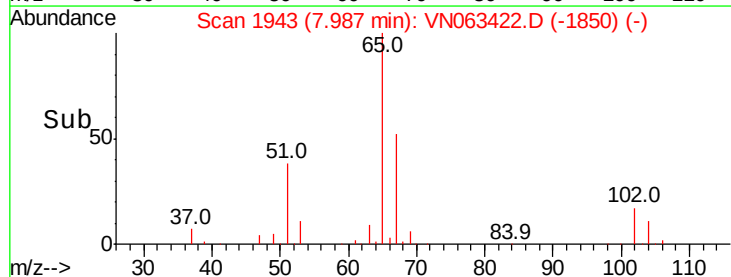
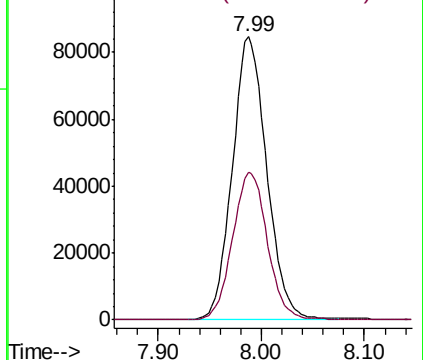


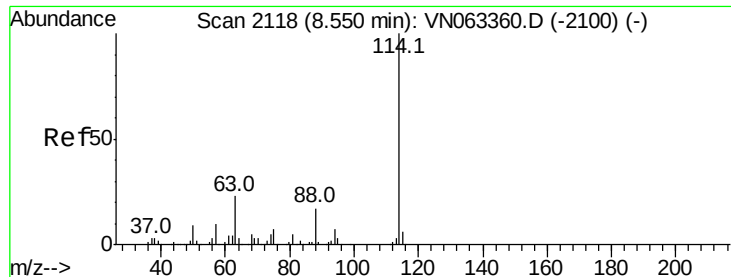
#33
1,2-Dichloroethane-d4
Concen: 48.727 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Tgt Ion: 65 Resp: 196898
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

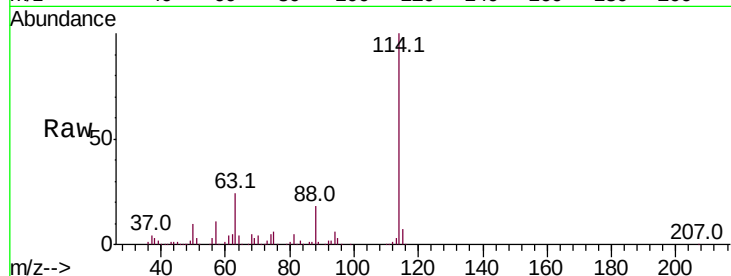




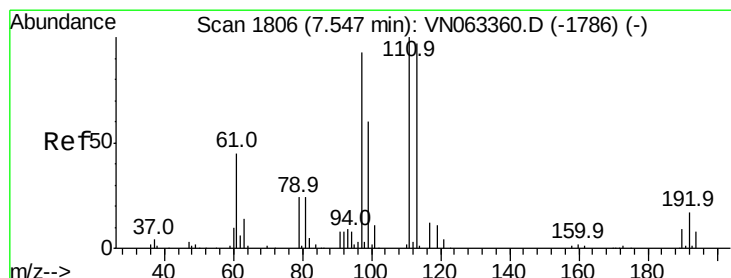
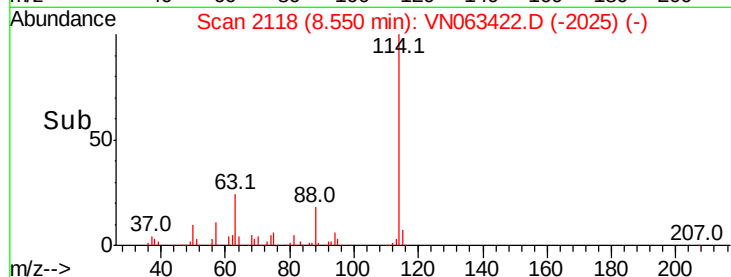
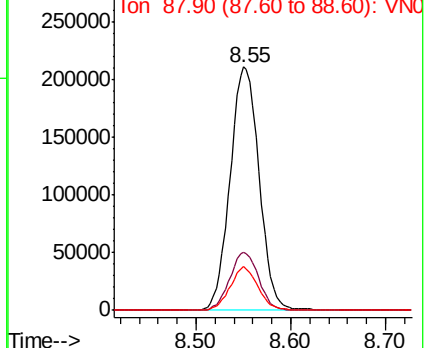
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

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Tot Ion:114 Resp: 451058
Ion Ratio Lower Upper
114 100
63 23.9 0.0 46.4
88 17.8 0.0 33.2

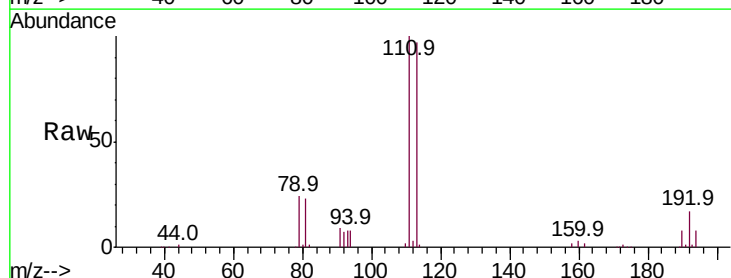


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

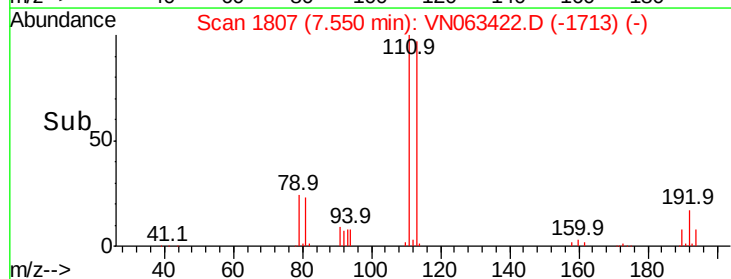
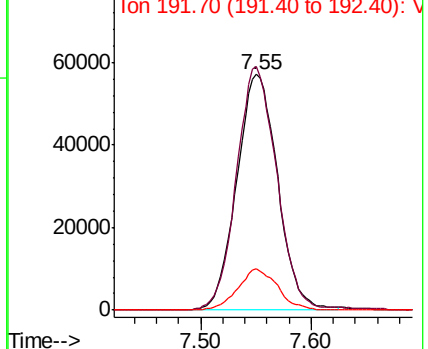


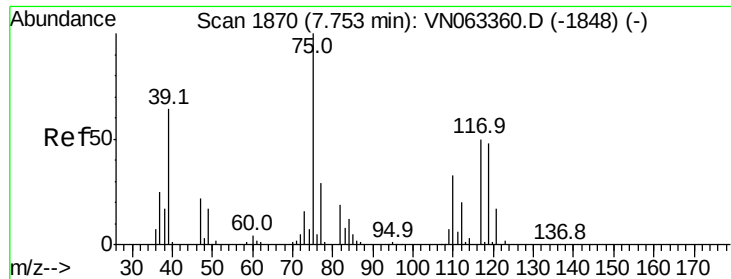
#35
Dibromofluoromethane
Concen: 46.989 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Tgt Ion:113 Resp: 146726
Ion Ratio Lower Upper
113 100
111 102.5 82.9 124.3
192 17.0 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

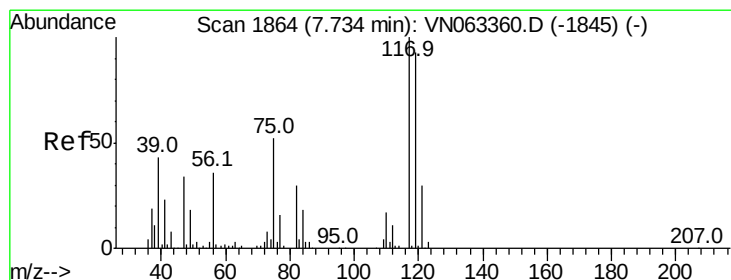
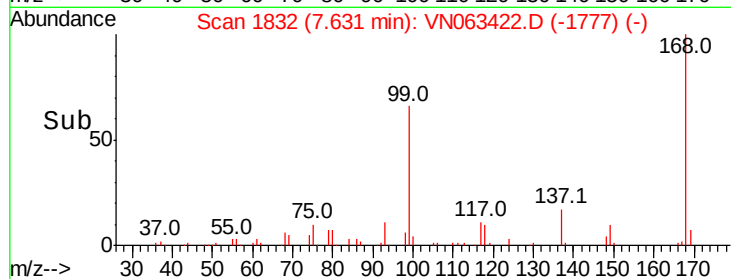
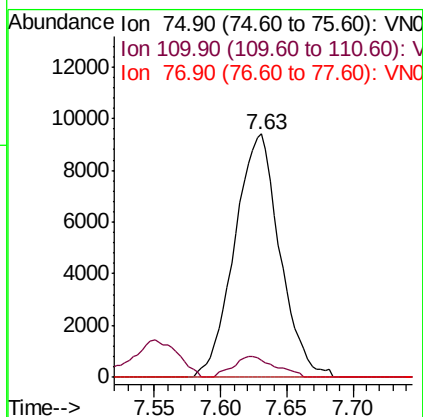
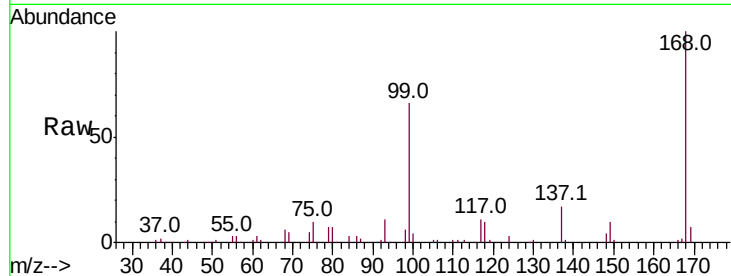




#36
 1,1-Dichloropropene
 Concen: 4.653 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063422.D
 Acq: 17 Sep 2020 16:25

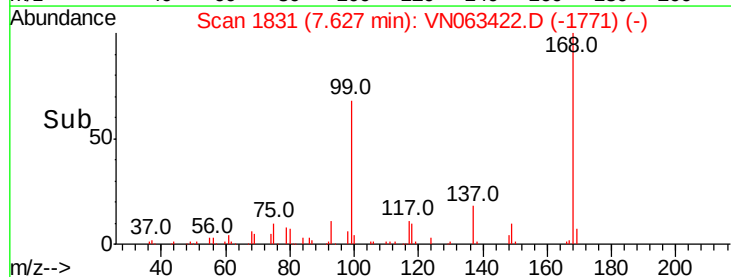
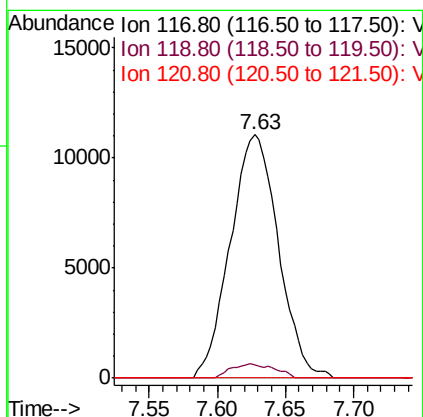
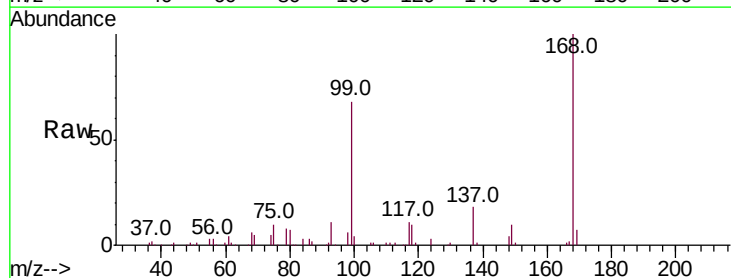
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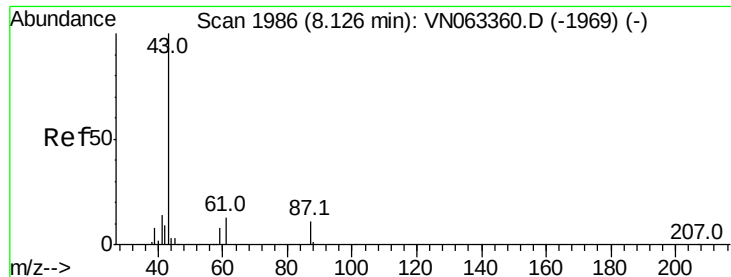
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.508 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063422.D
 Acq: 17 Sep 2020 16:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	74.5	111.7#
121	0.0	24.1	36.1#





#43

Isopropyl Acetate

Concen: 11.364 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

Instrument :

MSVOA_N

ClientSampled :

PAV-091620-DP

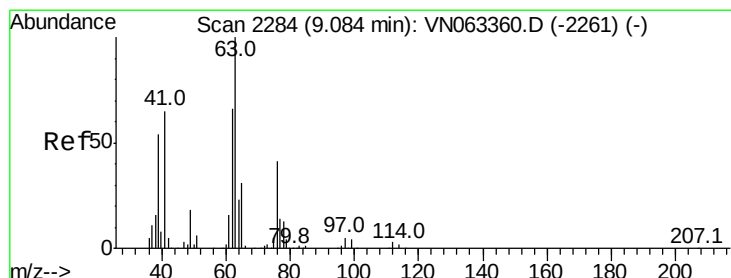
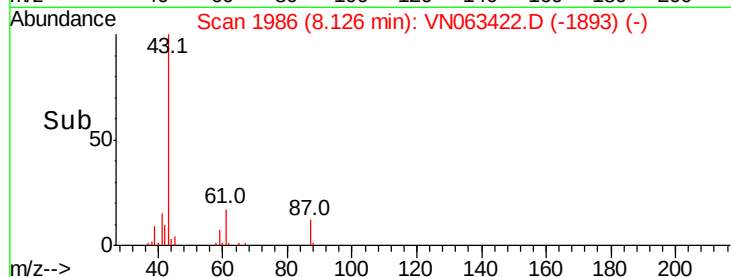
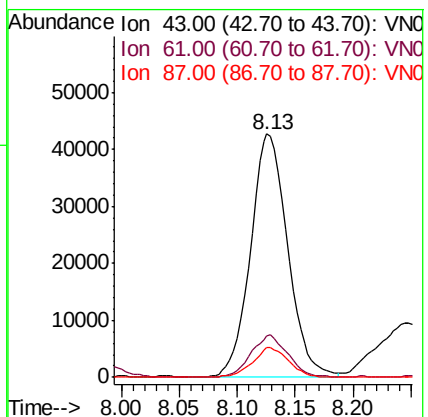
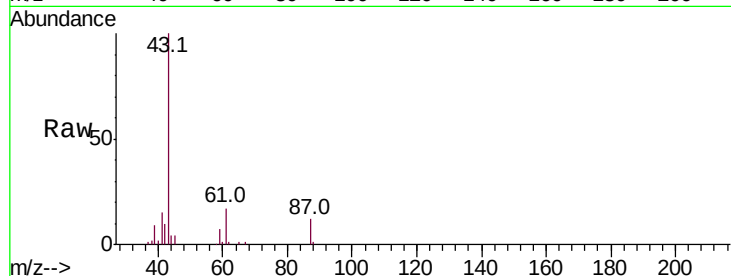
Tot Ion: 43 Resp: 95831

Ion Ratio Lower Upper

43 100

61 17.2 14.2 21.2

87 12.0 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.503 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063422.D

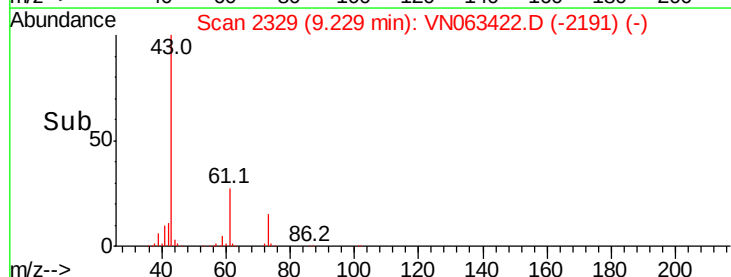
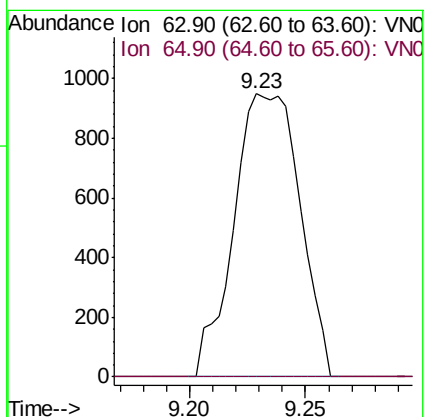
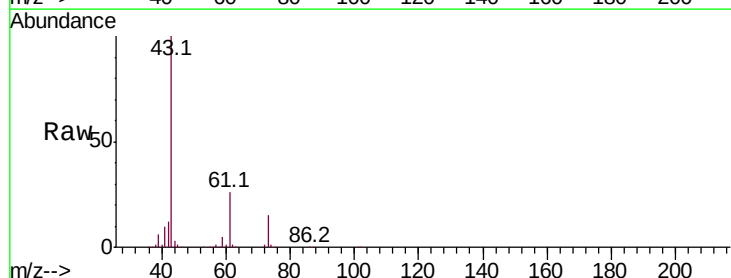
Acq: 17 Sep 2020 16:25

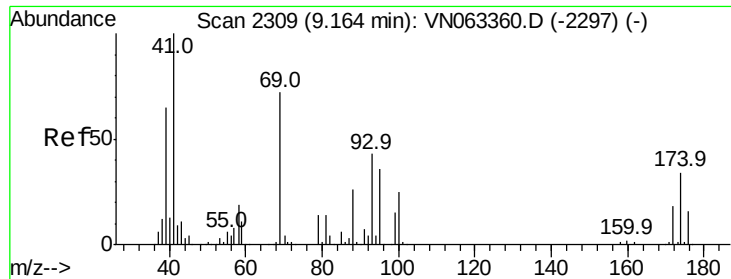
Tgt Ion: 63 Resp: 1880

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

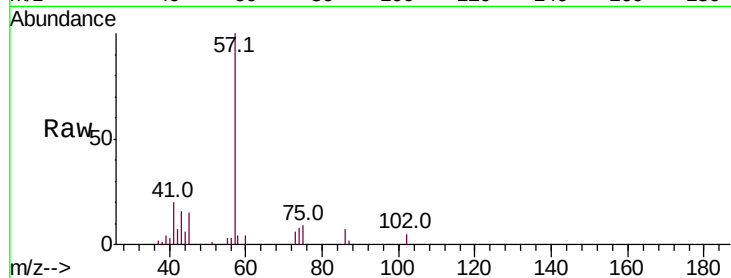




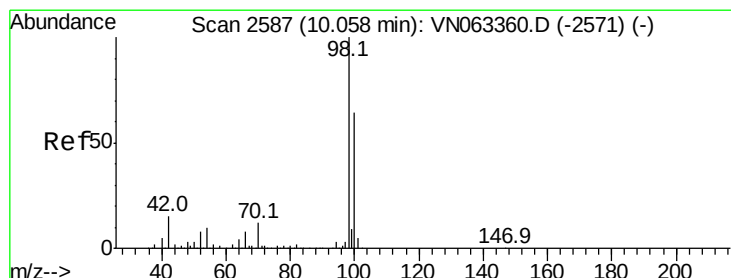
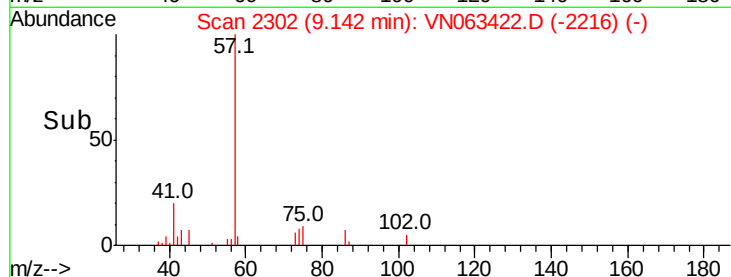
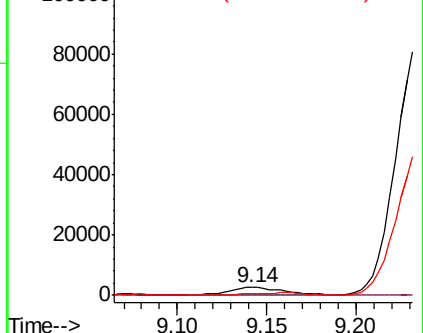
#48
Methvl methacrylate
Concen: 1.153 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Instrument :
MSVOA_N
ClientSampleId :
PAV-091620-DP

Tot Ion: 41 Resp: 4777
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#

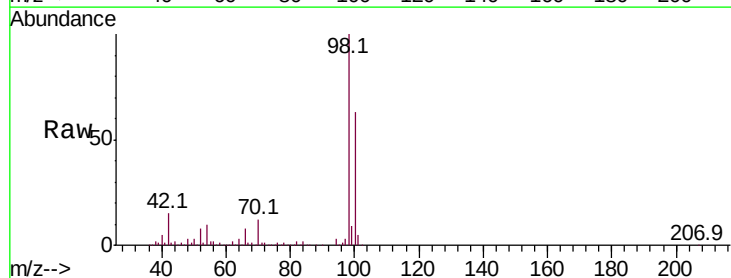


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

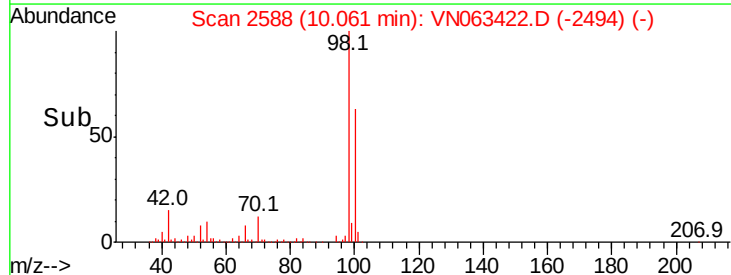
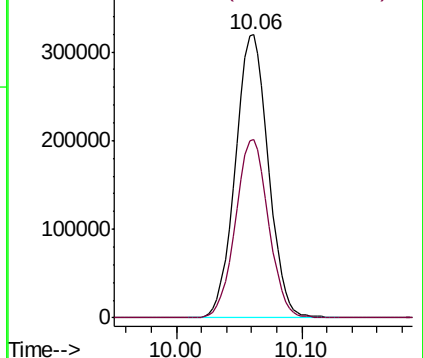


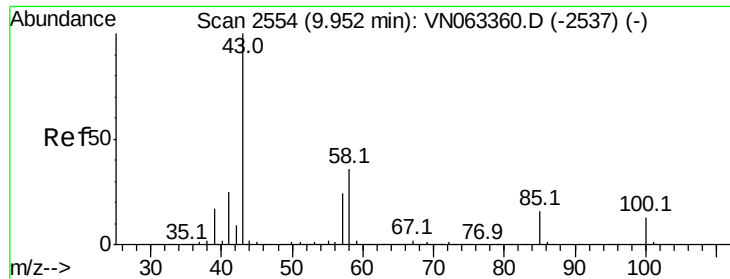
#50
Toluene-d8
Concen: 49.709 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Tgt Ion: 98 Resp: 583662
Ion Ratio Lower Upper
98 100
100 63.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.598 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

Instrument :

MSVOA_N

ClientSampleId :

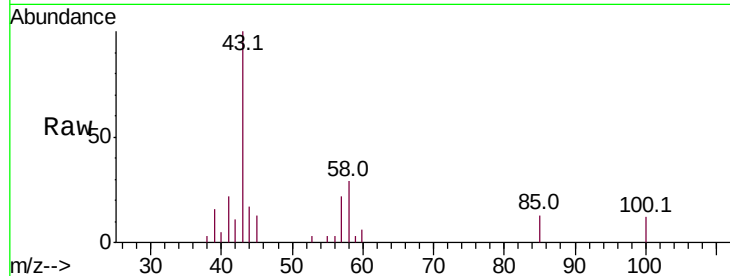
PAV-091620-DP

Tot Ion: 43 Resp: 12265

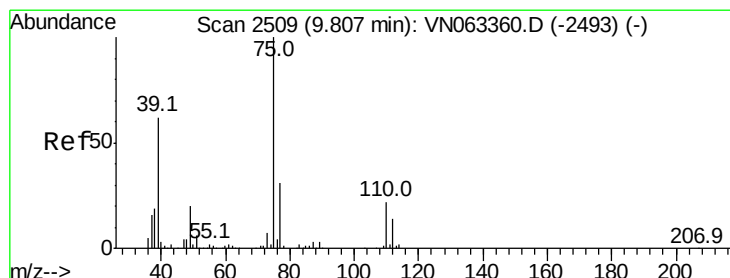
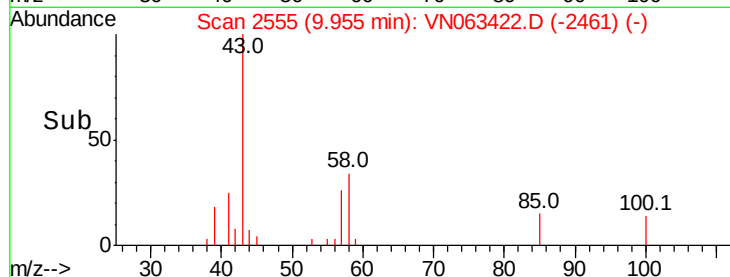
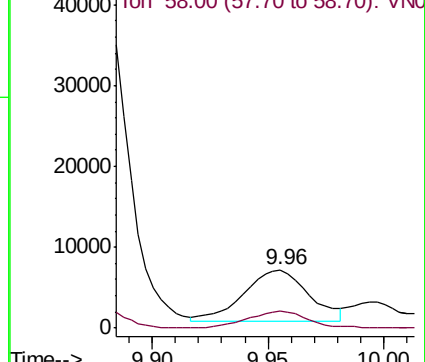
Ion Ratio Lower Upper

43 100

58 30.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.220 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

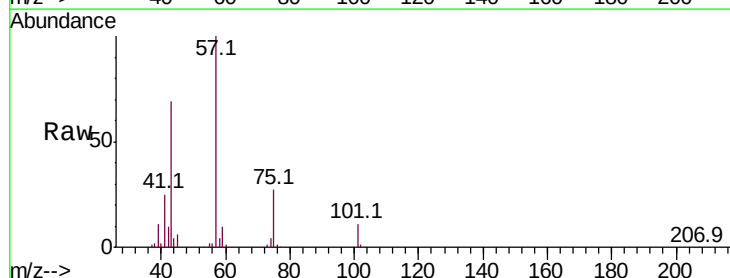
Tgt Ion: 75 Resp: 37363

Ion Ratio Lower Upper

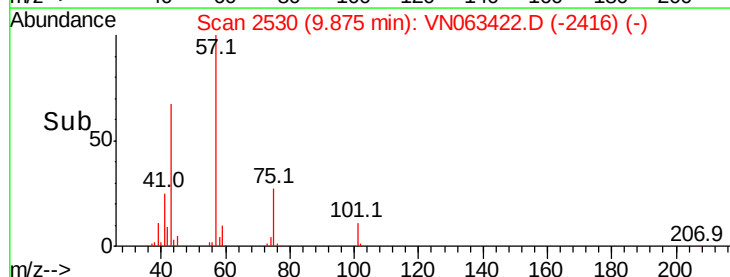
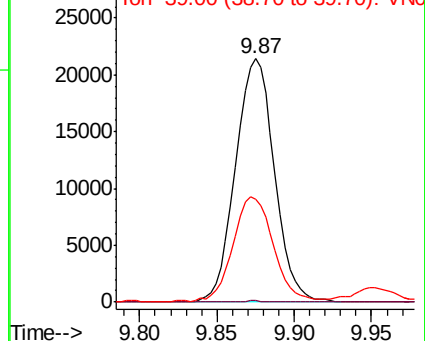
75 100

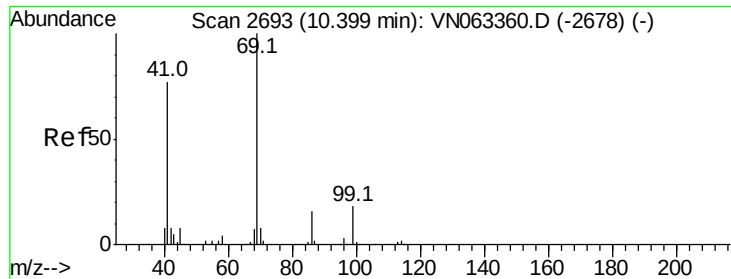
77 0.8 24.6 37.0#

39 42.2 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.273 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

Instrument :

MSVOA_N

ClientSampleId :

PAV-091620-DP

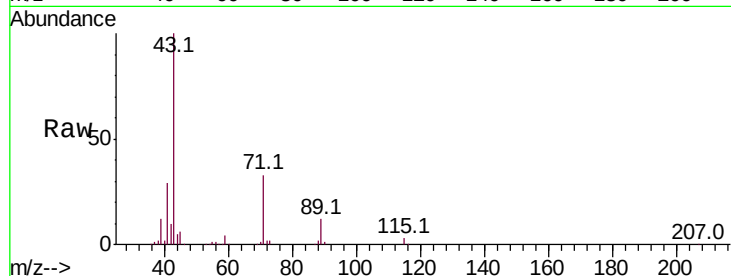
Tot Ion: 69 Resp: 1396

Ion Ratio Lower Upper

69 100

41 6864.6 61.0 91.6#

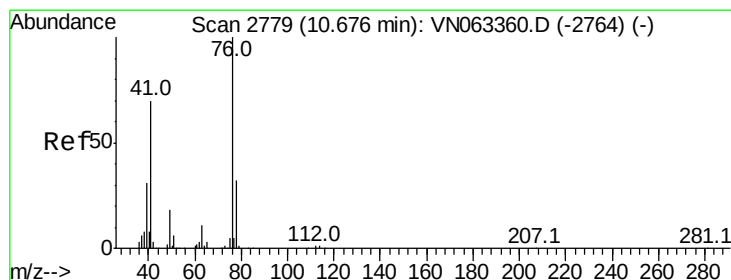
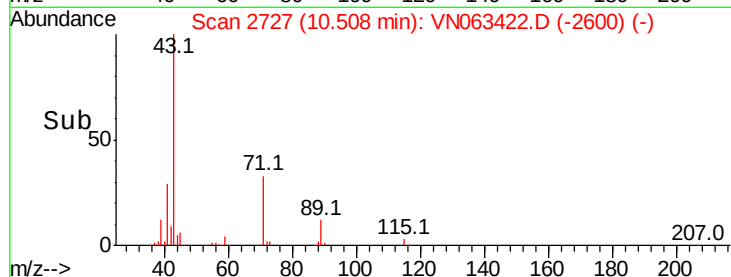
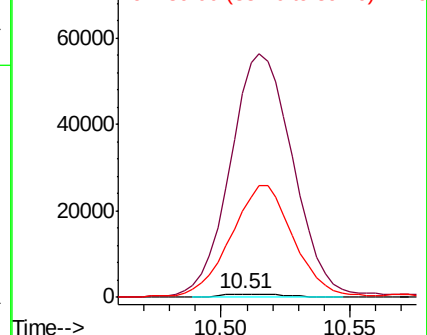
39 3114.8 39.2 58.8#



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: 1.065 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN063422.D

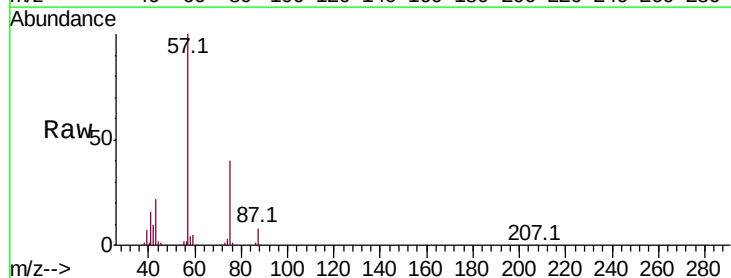
Acq: 17 Sep 2020 16:25

Tgt Ion: 76 Resp: 6292

Ion Ratio Lower Upper

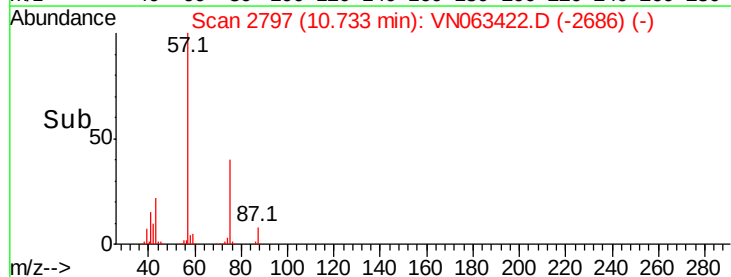
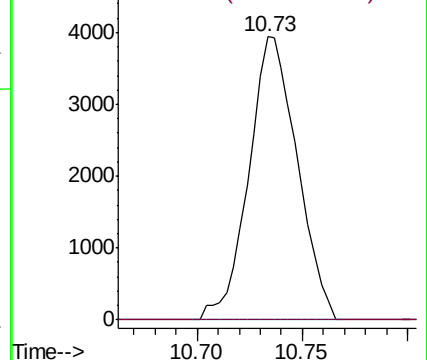
76 100

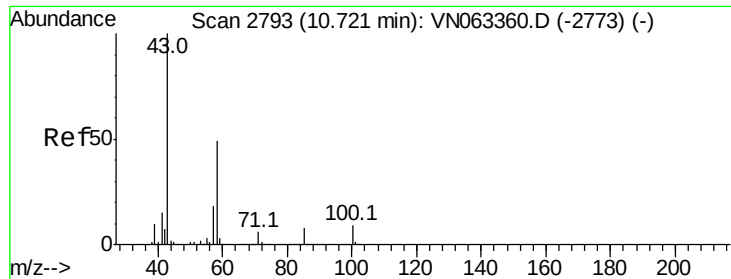
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 29.122 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

Instrument :

MSVOA_N

ClientSampleId :

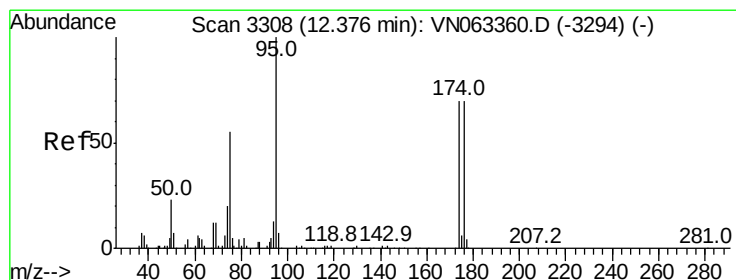
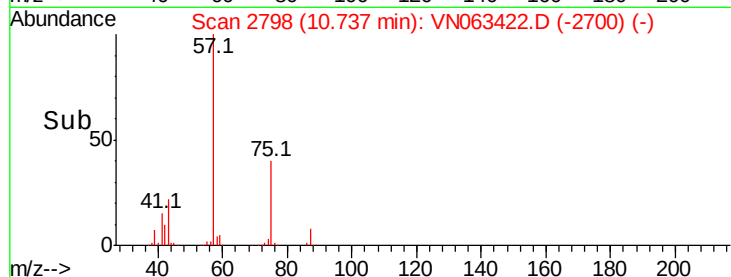
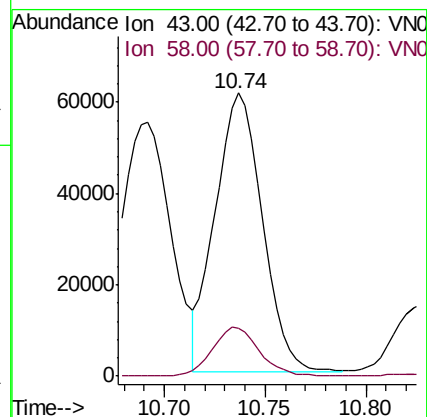
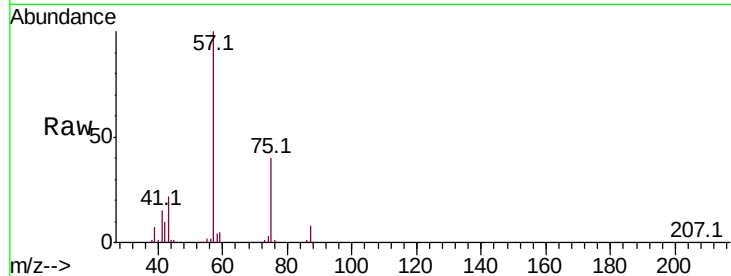
PAV-091620-DP

Tot Ion: 43 Resp: 99608

Ion Ratio Lower Upper

43 100

58 17.4 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.119 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

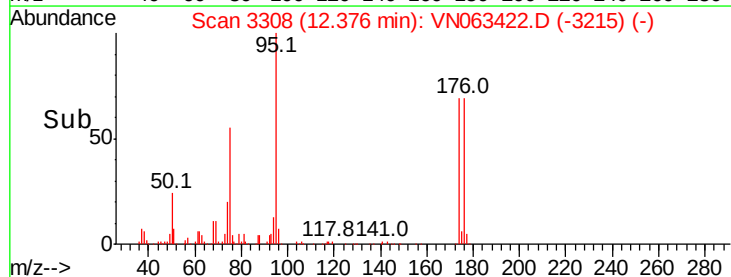
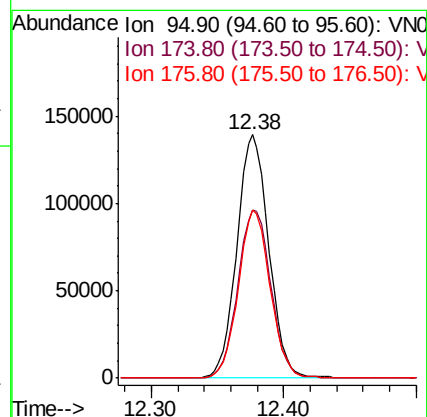
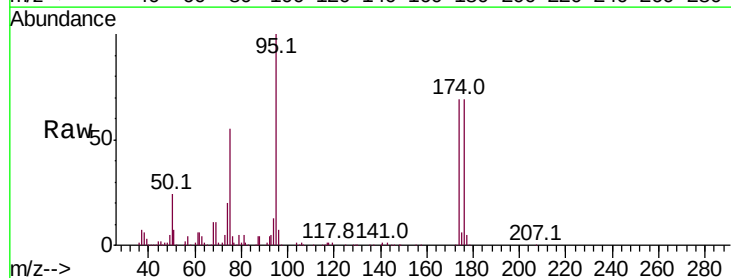
Tgt Ion: 95 Resp: 232940

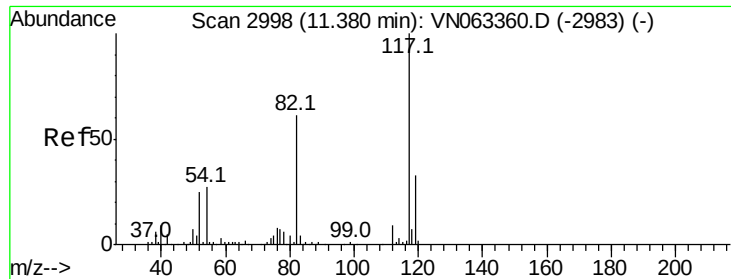
Ion Ratio Lower Upper

95 100

174 71.5 0.0 140.8

176 69.1 0.0 137.6

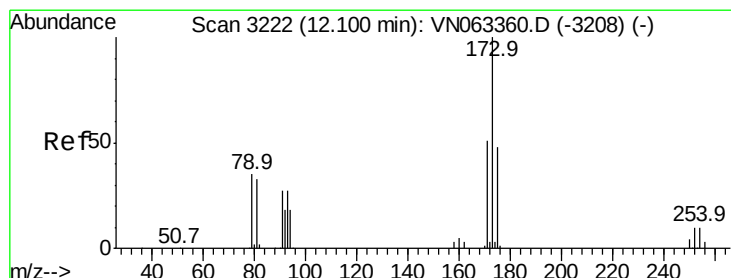
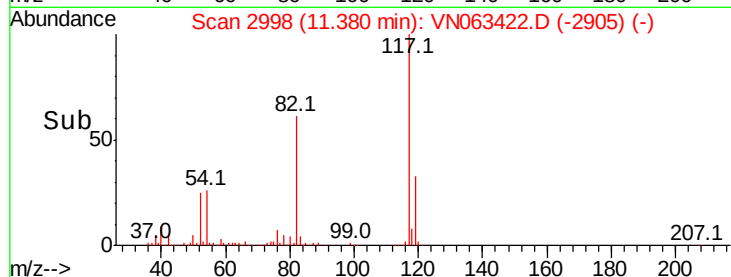
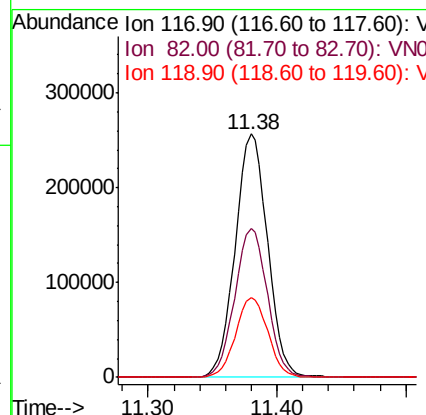
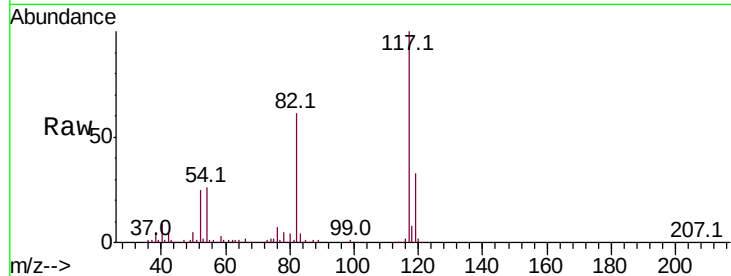




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

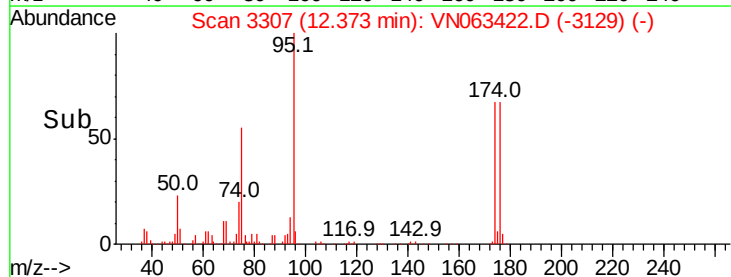
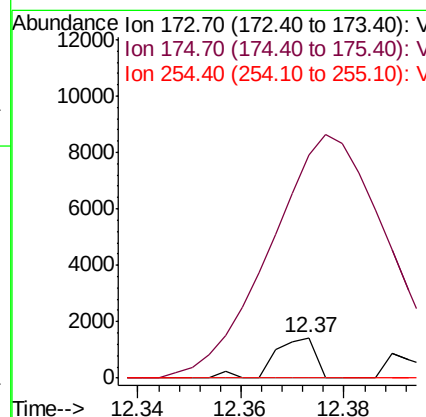
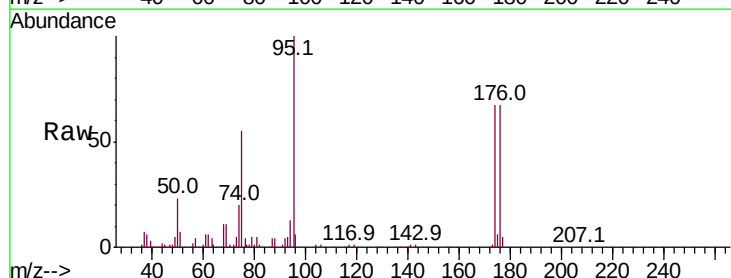
Instrument :
MSVOA_N
ClientSampleId :
PAV-091620-DP

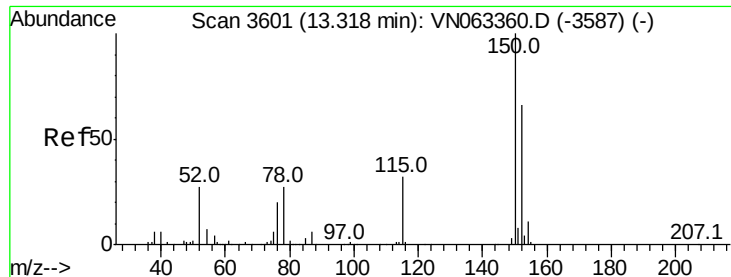
Tot Ion:117 Resp: 448283
Ion Ratio Lower Upper
117 100
82 61.2 49.2 73.8
119 32.6 26.2 39.4



#71
Bromoform
Concen: 0.294 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063422.D
Acq: 17 Sep 2020 16:25

Tgt Ion:173 Resp: 765
Ion Ratio Lower Upper
173 100
175 1486.1 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: VN063422.D

Acq: 17 Sep 2020 16:25

Instrument :

MSVOA_N

ClientSampleId :

PAV-091620-DP

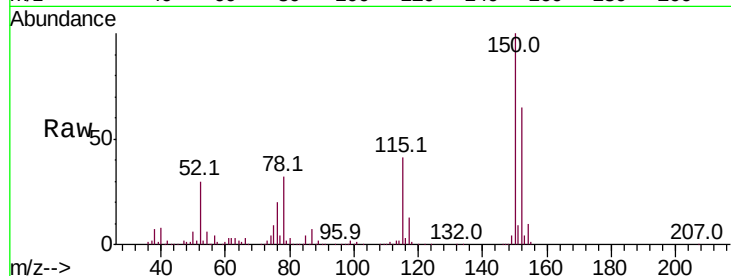
Tot Ion:152 Resp: 196720

Ion Ratio Lower Upper

152 100

115 62.4 32.2 96.6

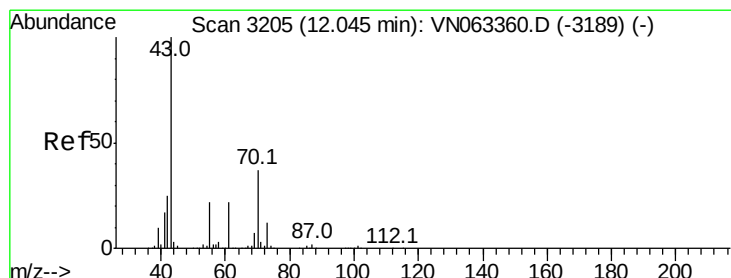
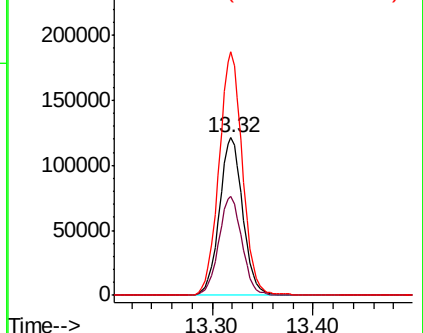
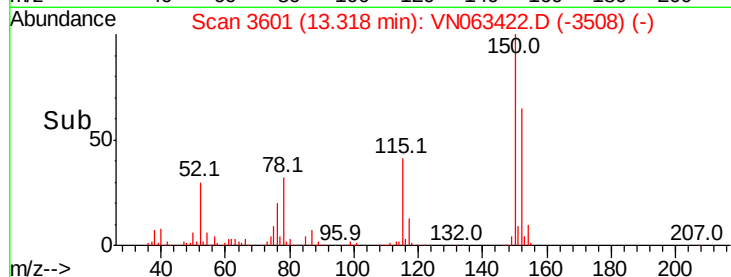
150 154.2 0.0 343.4



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: 0.617 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN063422.D

Acq: 17 Sep 2020 16:25

Tgt Ion: 43 Resp: 4604

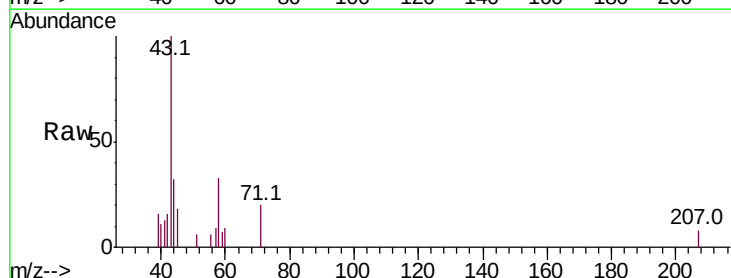
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 6.9 17.7 26.5#

61 0.0 17.4 26.2#

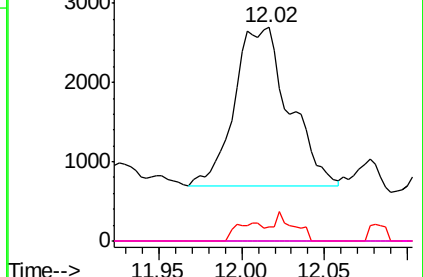
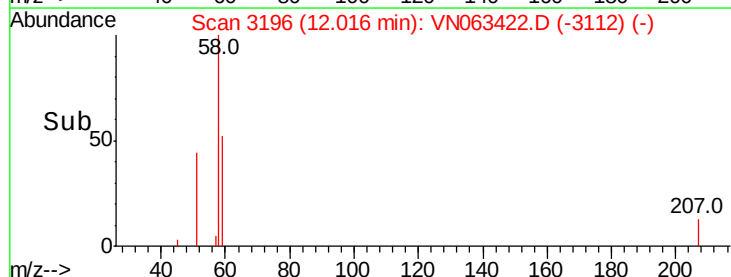


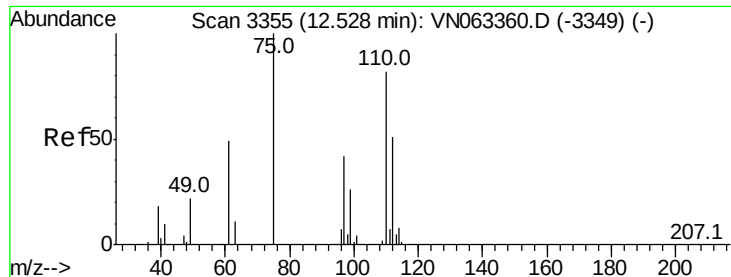
Abundance Ion 43.00 (42.70 to 43.70): V

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

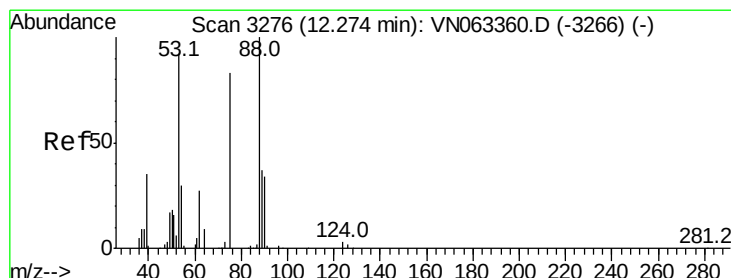
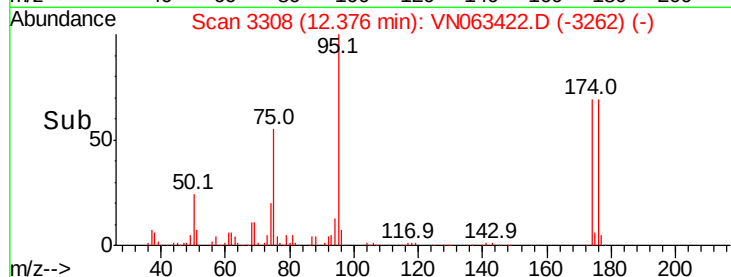
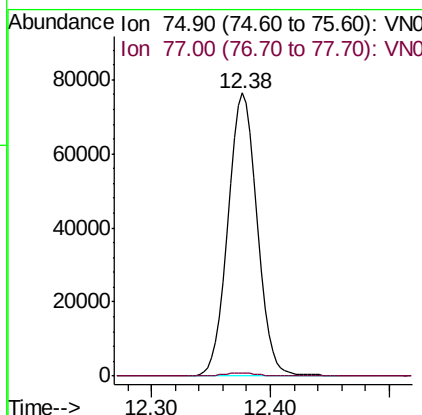
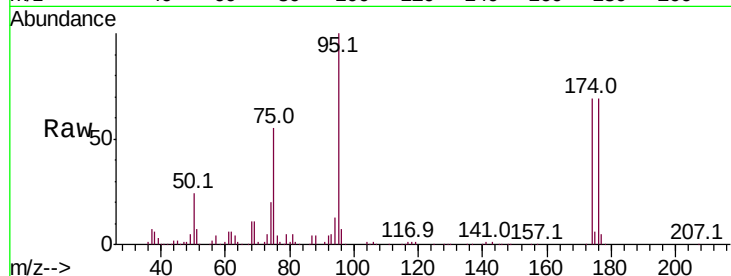




#76
 1,2,3-Trichloropropane
 Concen: 26.693 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063422.D
 Acq: 17 Sep 2020 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-091620-DP

Tot Ion: 75 Resp: 129969
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.181 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063422.D
 Acq: 17 Sep 2020 16:25

Tgt Ion: 75 Resp: 129969
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

