

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102320\
 Data File : VN064298.D
 Acq On : 23 Oct 2020 20:28
 Operator : JC/MD
 Sample : L4486-07 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1836

Quant Time: Oct 26 02:31:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	238455	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	417504	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	421491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177820	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	186245	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
35) Dibromofluoromethane	7.55	113	137562	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	10.06	98	526080	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	12.38	95	224472	54.99	ug/l	0.00
Spiked Amount			Recovery	=	109.98%	

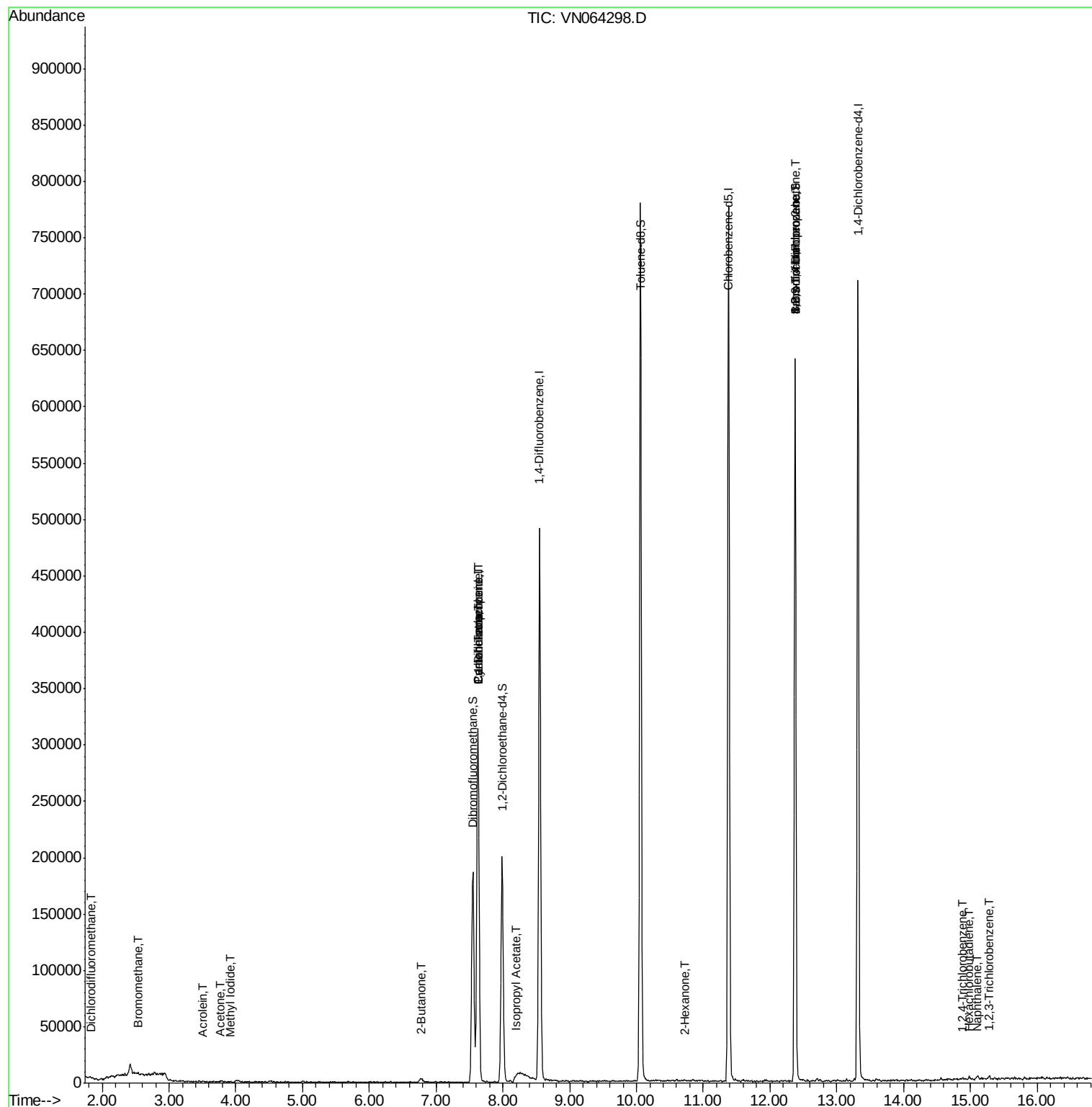
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	63	0.807	ug/l #	41
5) Bromomethane	2.55	94	431	0.242	ug/l #	64
10) Methyl Iodide	3.91	142	683	0.207	ug/l #	37
13) Acrolein	3.49	56	61	0.205	ug/l #	60
16) Acetone	3.77	43	847	0.836	ug/l	100
25) 2-Butanone	6.78	43	437	0.271	ug/l #	51
31) Cyclohexane	7.62	56	6385	1.521	ug/l #	27
36) 1,1-Dichloropropene	7.63	75	21709	5.216	ug/l #	50
38) Carbon Tetrachloride	7.63	117	25924	5.474	ug/l #	15
43) Isopropyl Acetate	8.20	43	7180	1.019	ug/l #	57
59) 2-Hexanone	10.73	43	634	0.231	ug/l #	57
71) Bromoform	12.38	173	748	0.280	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	125084	33.367	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	125084	84.242	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.89	180	843	0.269	ug/l #	87
94) Hexachlorobutadiene	14.99	225	507	0.300	ug/l #	60
95) Naphthalene	15.11	128	3259	0.347	ug/l #	71
96) 1,2,3-Trichlorobenzene	15.29	180	737	0.237	ug/l #	57

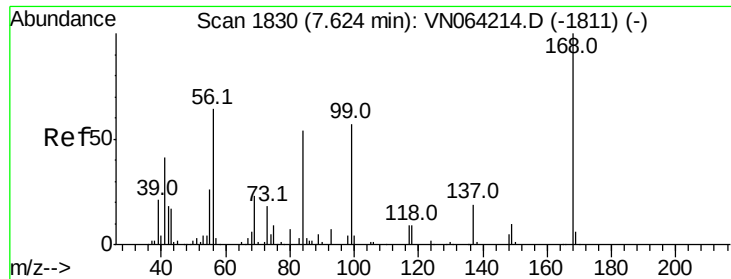
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampled :

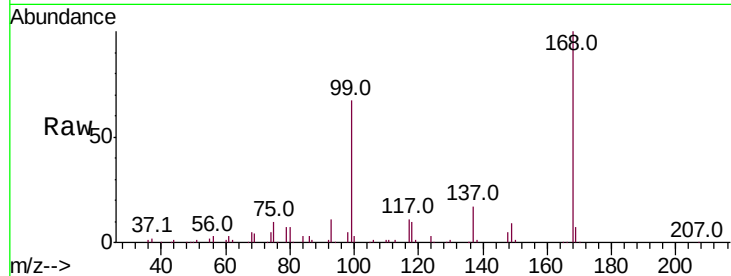
1836

Tot Ion:168 Resp: 238455

Ion Ratio Lower Upper

168 100

99 67.1 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

60000

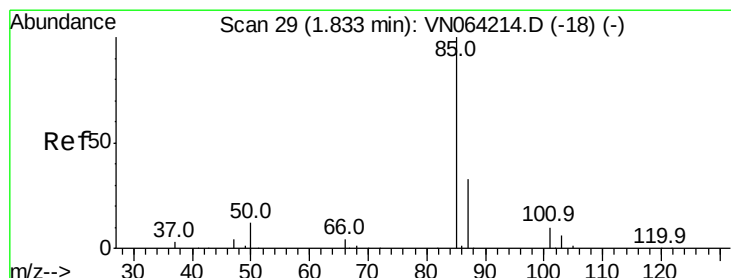
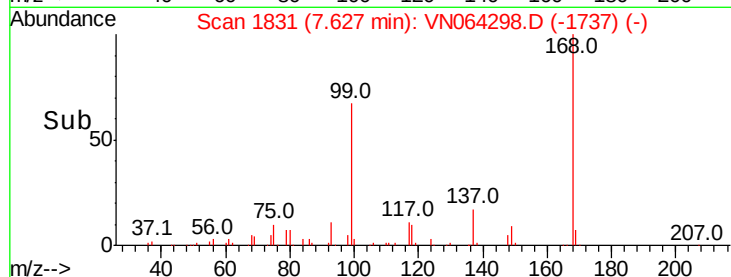
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#2

Dichlorodifluoromethane

Concen: 0.807 ug/l

RT: 1.84 min Scan# 31

Delta R.T. 0.01 min

Lab File: VN064298.D

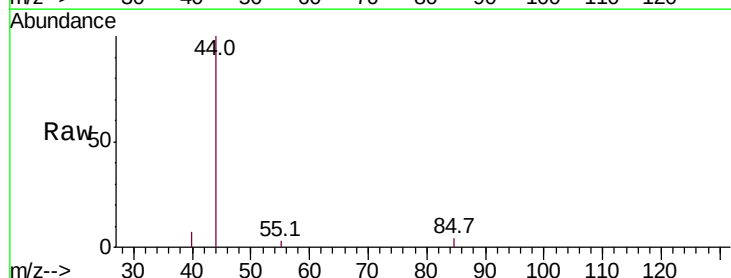
Acq: 23 Oct 2020 20:28

Tgt Ion: 85 Resp: 63

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.84

200

150

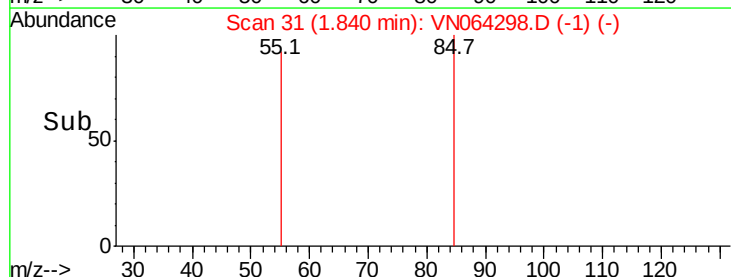
100

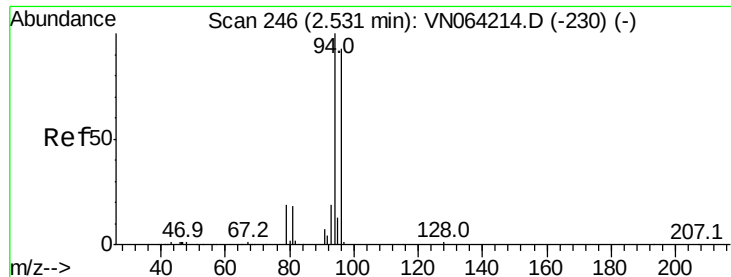
50

0

Time-->

1.83 1.84 1.85





#5

Bromomethane

Concen: 0.242 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.02 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampled :

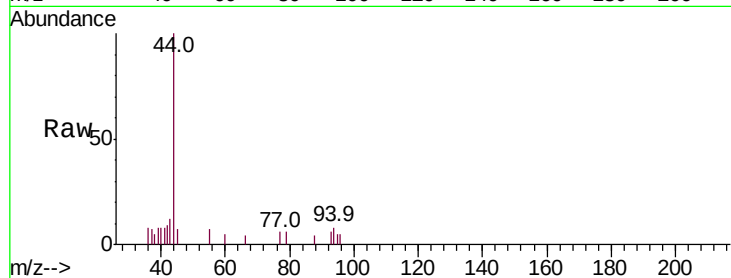
1836

Tot Ion: 94 Resp: 431

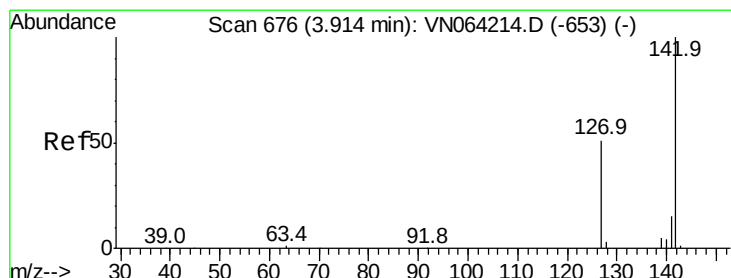
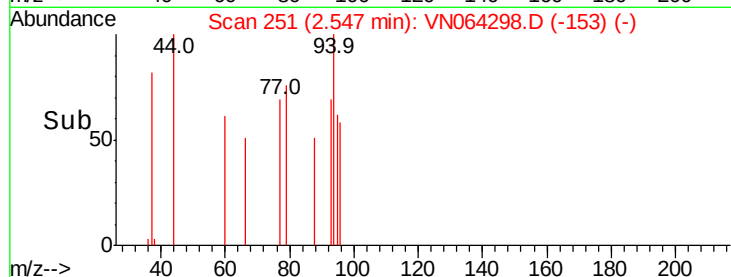
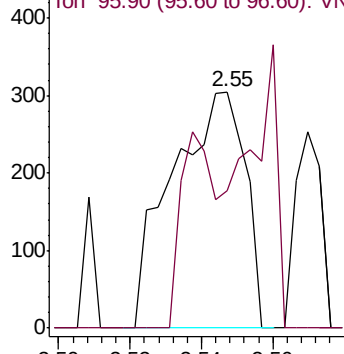
Ion Ratio Lower Upper

94 100

96 58.0 74.2 111.4#



Abundance Ion 93.90 (93.60 to 94.60): VN064214.D (-230) (-)



#10

Methyl Iodide

Concen: 0.207 ug/l

RT: 3.91 min Scan# 674

Delta R.T. -0.01 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

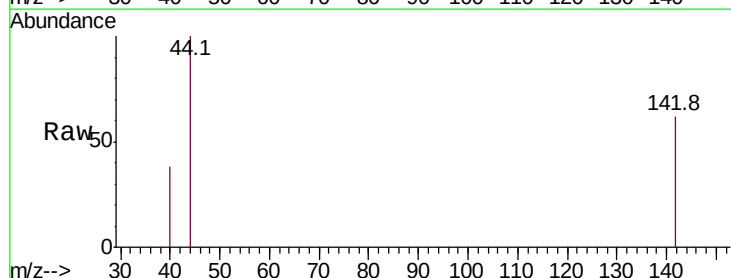
Tgt Ion: 142 Resp: 683

Ion Ratio Lower Upper

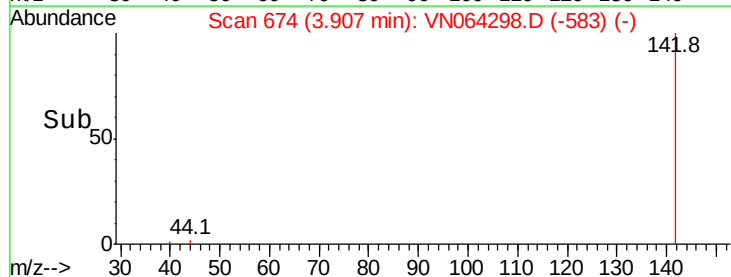
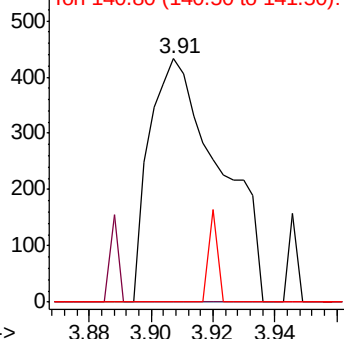
142 100

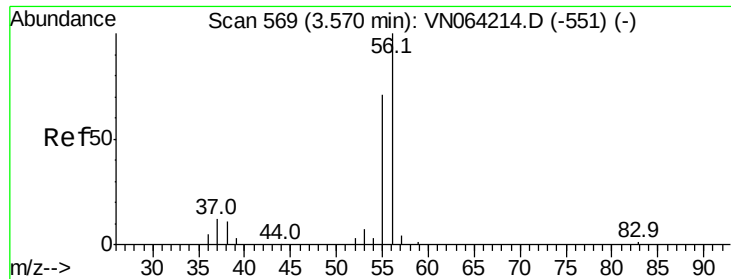
127 0.0 41.0 61.6#

141 4.7 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VN064214.D (-653) (-)





#13

Acrolein

Concen: 0.205 ug/l

RT: 3.49 min Scan# 545

Delta R.T. -0.08 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

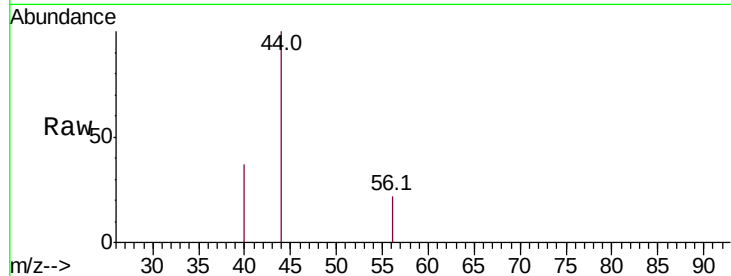
1836

Tot Ion: 56 Resp: 61

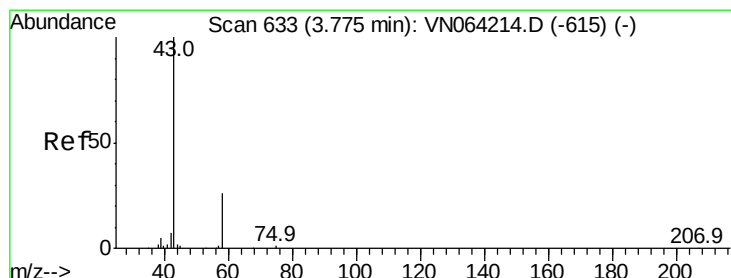
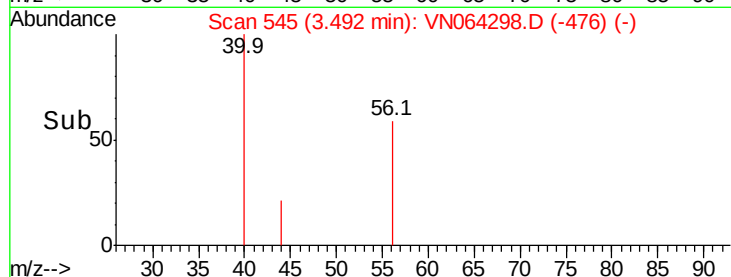
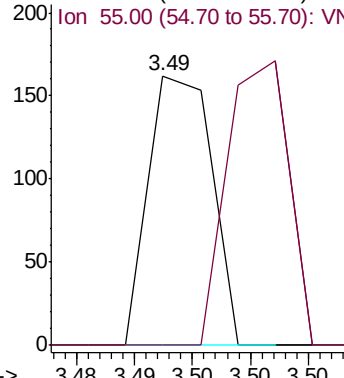
Ion Ratio Lower Upper

56 100

55 103.3 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN064298.D (-551) (-)



#16

Acetone

Concen: 0.836 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN064298.D

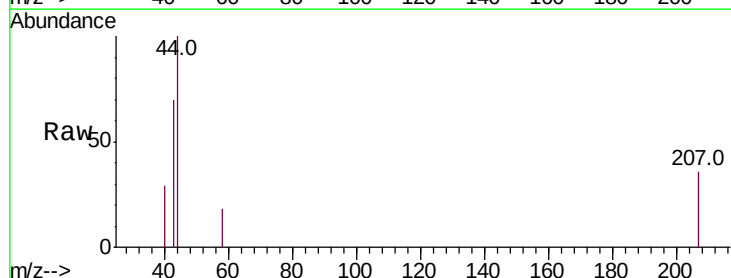
Acq: 23 Oct 2020 20:28

Tgt Ion: 43 Resp: 847

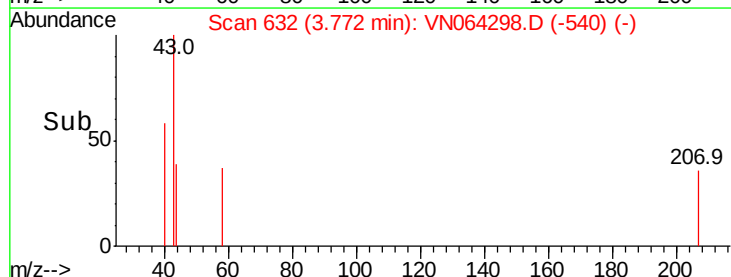
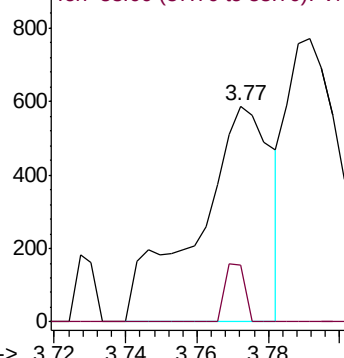
Ion Ratio Lower Upper

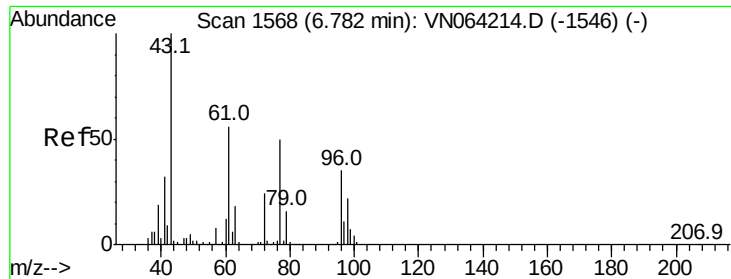
43 100

58 26.2 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VN064298.D (-615) (-)





#25

2-Butanone

Concen: 0.271 ug/l

RT: 6.78 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

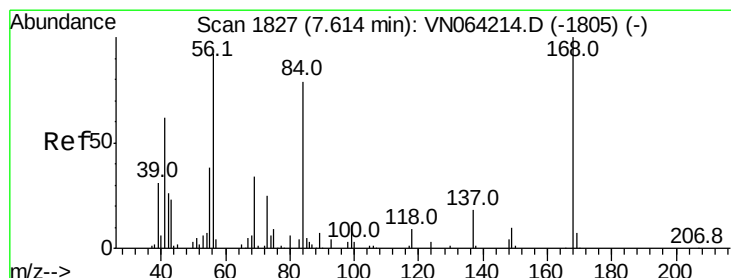
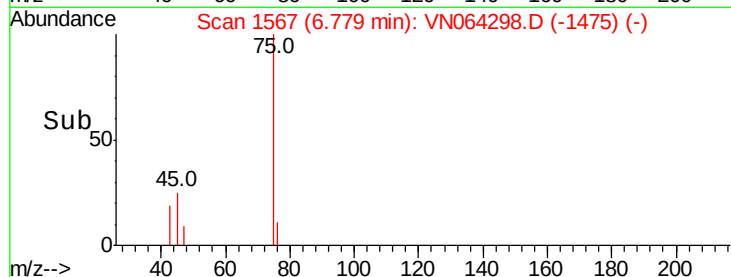
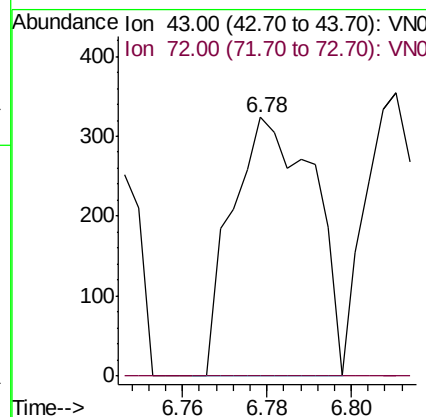
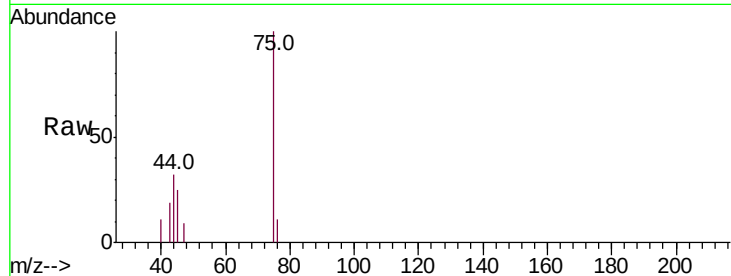
1836

Tot Ion: 43 Resp: 437

Ion Ratio Lower Upper

43 100

72 0.0 19.4 29.0#



#31

Cyclohexane

Concen: 1.521 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

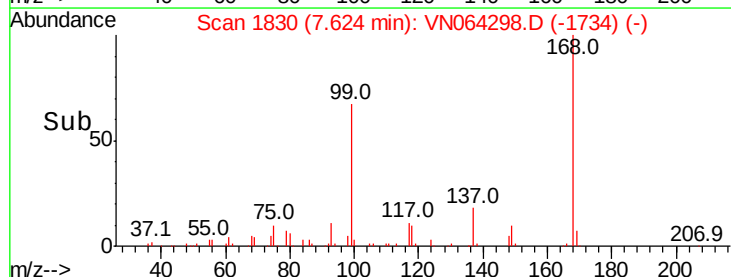
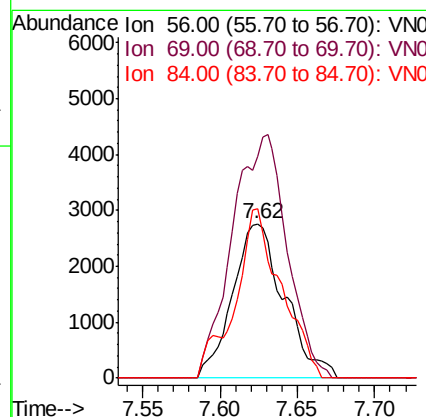
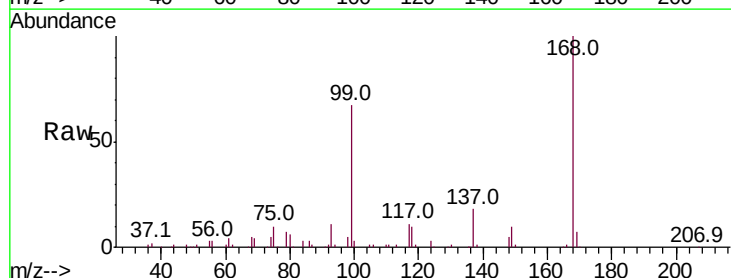
Tgt Ion: 56 Resp: 6385

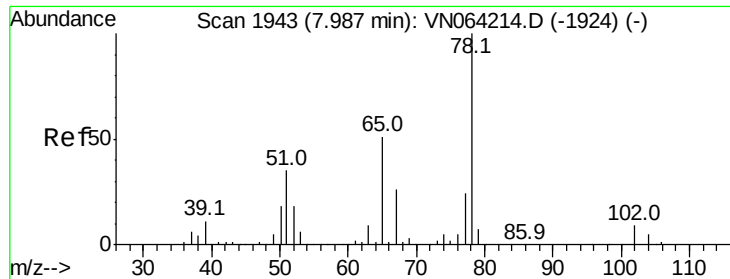
Ion Ratio Lower Upper

56 100

69 143.4 29.8 44.6#

84 110.0 68.1 102.1#

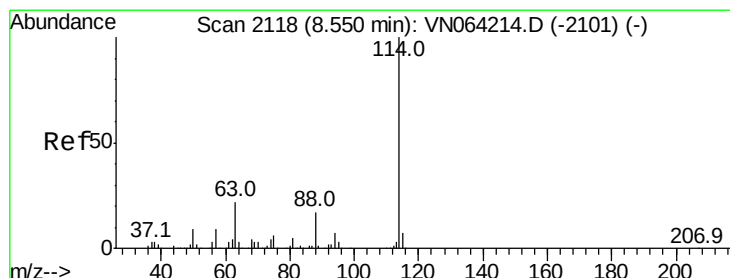
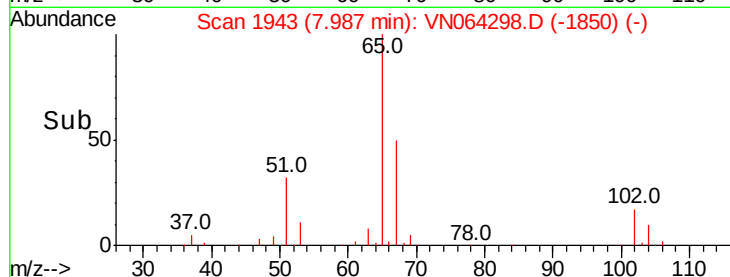
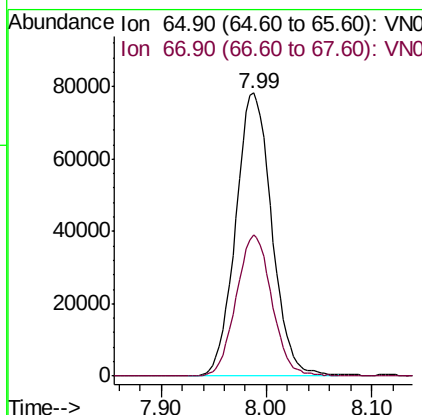
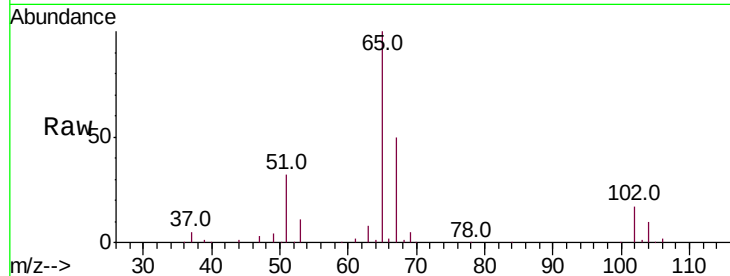




#33
 1,2-Dichloroethane-d4
 Concen: 52.594 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064298.D
 Acq: 23 Oct 2020 20:28

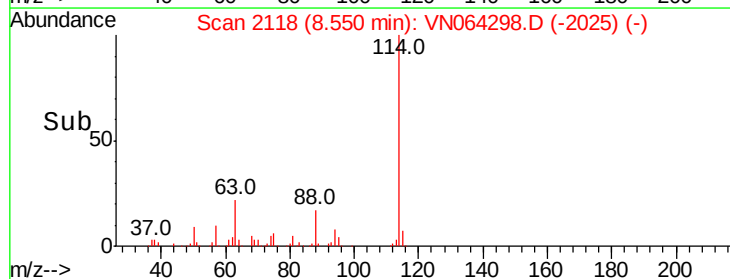
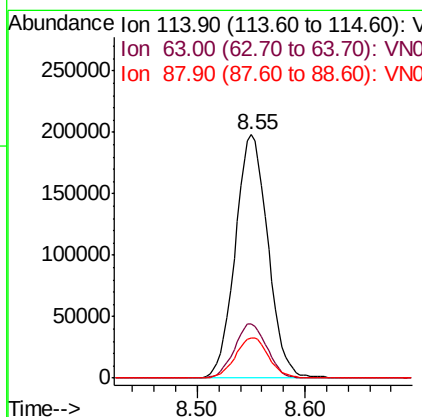
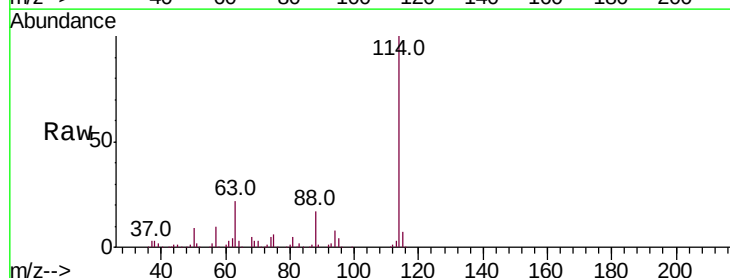
Instrument :
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 1836

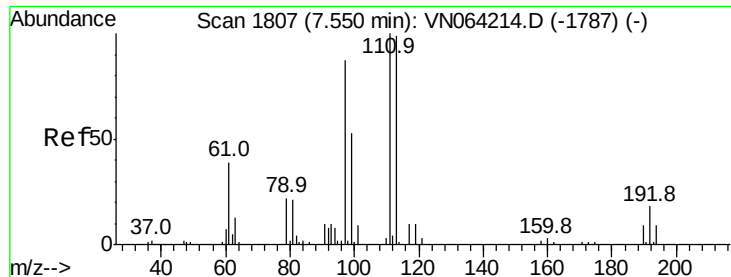
Tot Ion: 65 Resp: 186245
 Ion Ratio Lower Upper
 65 100
 67 49.3 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064298.D
 Acq: 23 Oct 2020 20:28

Tgt Ion: 114 Resp: 417504
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 16.7 0.0 34.2

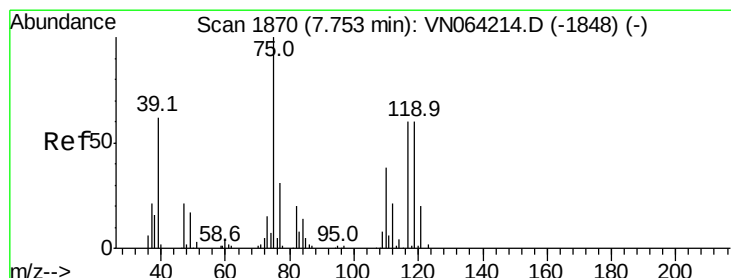
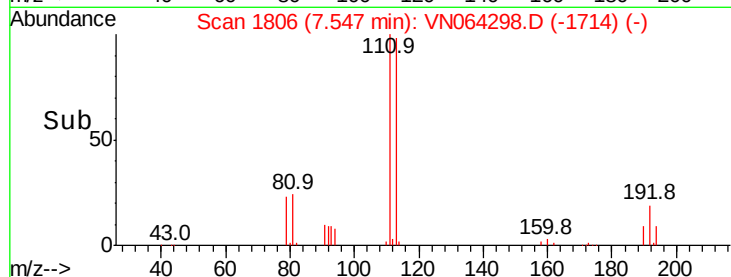
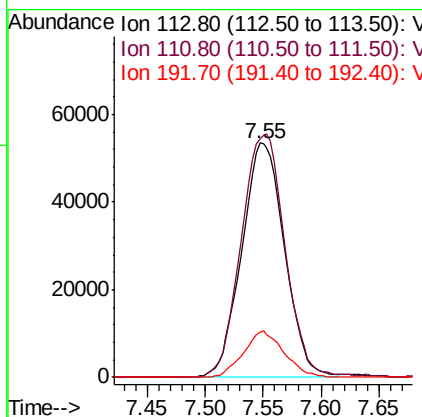
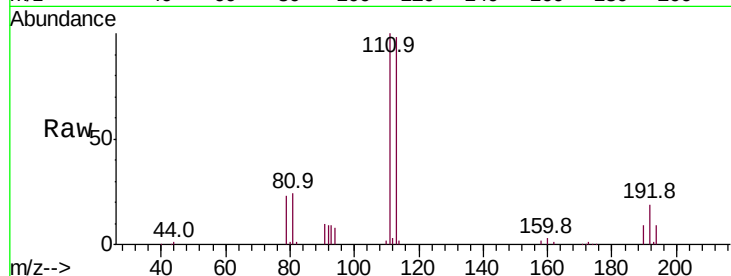




#35
 Dibromofluoromethane
 Concen: 49.558 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064298.D
 Acq: 23 Oct 2020 20:28

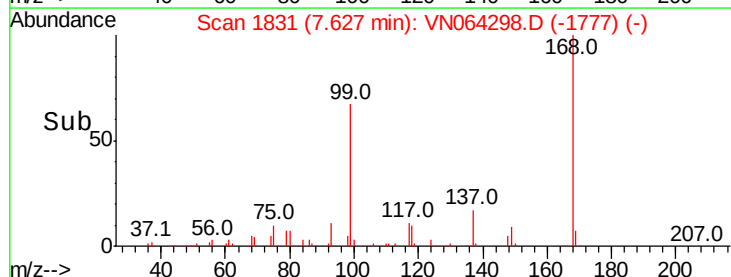
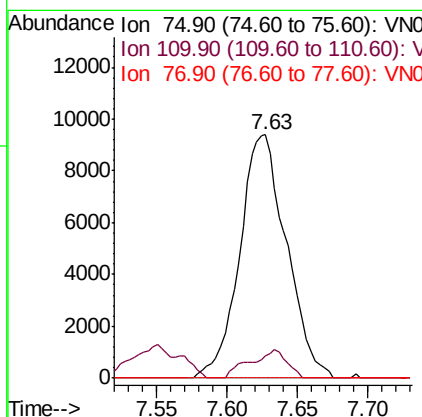
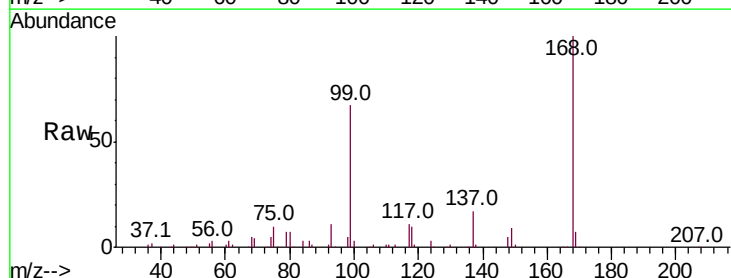
Instrument :
 MSVOA_N
 ClientSampled :
 1836

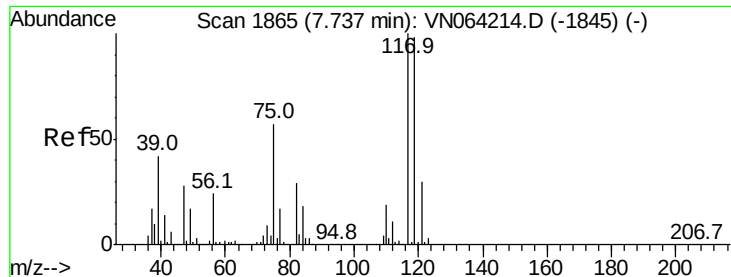
Tot Ion:113 Resp: 137562
 Ion Ratio Lower Upper
 113 100
 111 106.1 84.2 126.2
 192 18.8 15.2 22.8



#36
 1,1-Dichloropropene
 Concen: 5.216 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064298.D
 Acq: 23 Oct 2020 20:28

Tgt Ion: 75 Resp: 21709
 Ion Ratio Lower Upper
 75 100
 110 9.1 17.2 51.6#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 5.474 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampled :

1836

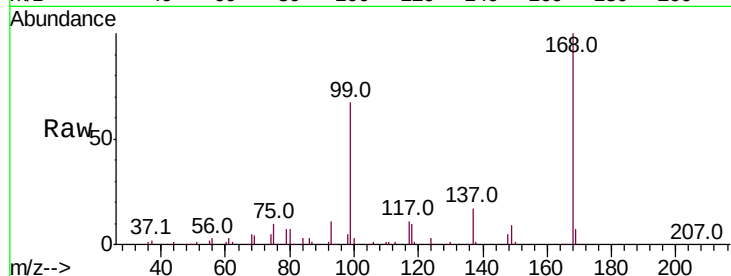
Tot Ion:117 Resp: 25924

Ion Ratio Lower Upper

117 100

119 5.7 78.5 117.7#

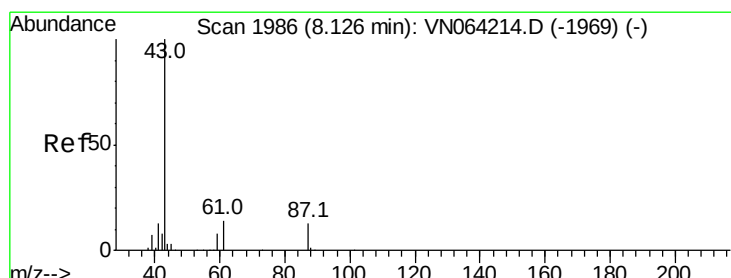
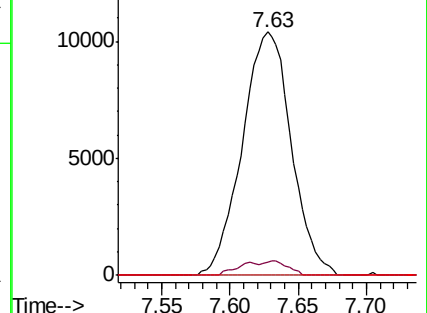
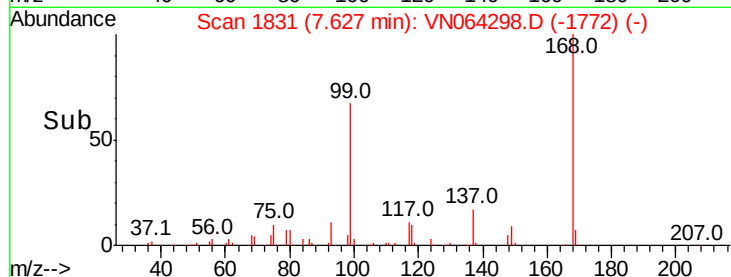
121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.019 ug/l

RT: 8.20 min Scan# 2009

Delta R.T. 0.07 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

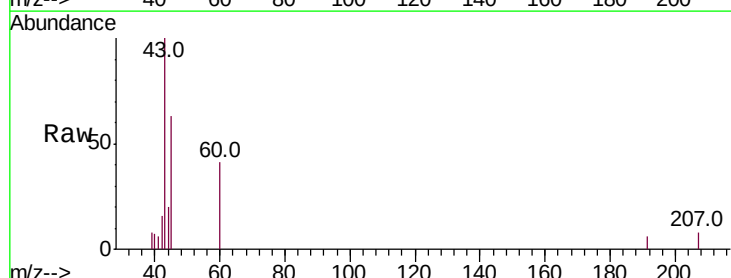
Tgt Ion: 43 Resp: 7180

Ion Ratio Lower Upper

43 100

61 0.0 19.6 29.4#

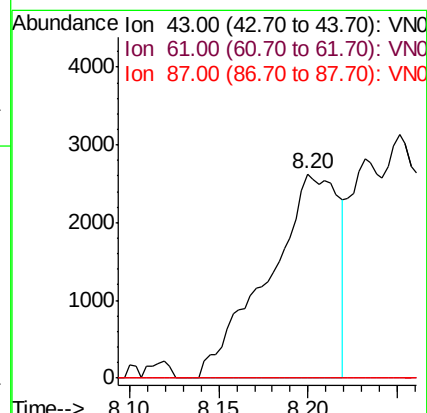
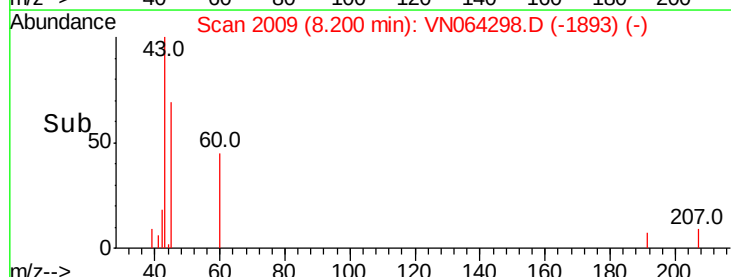
87 0.0 9.8 14.6#

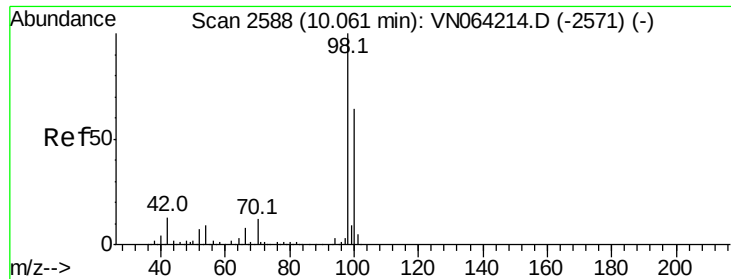


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

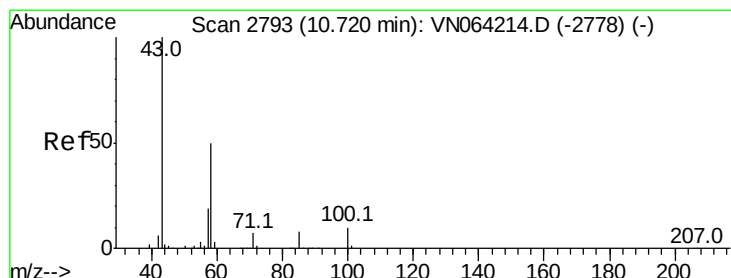
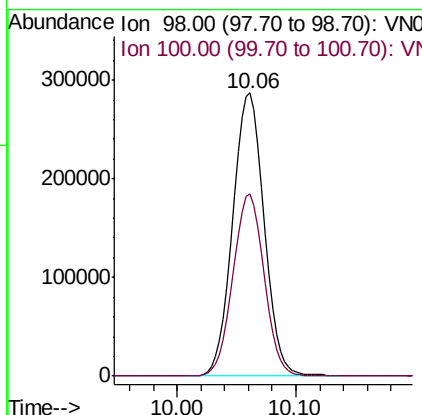
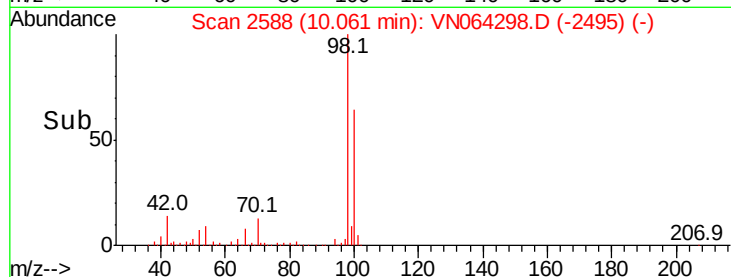
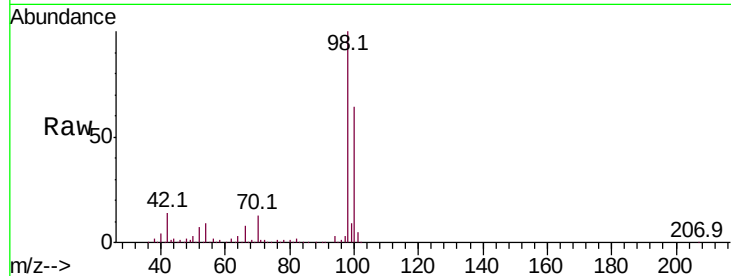




#50
Toluene-d8
Concen: 52.247 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064298.D
Acq: 23 Oct 2020 20:28

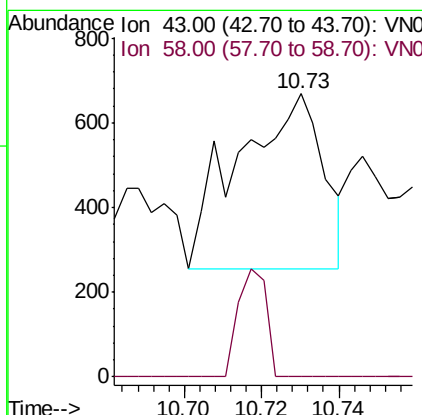
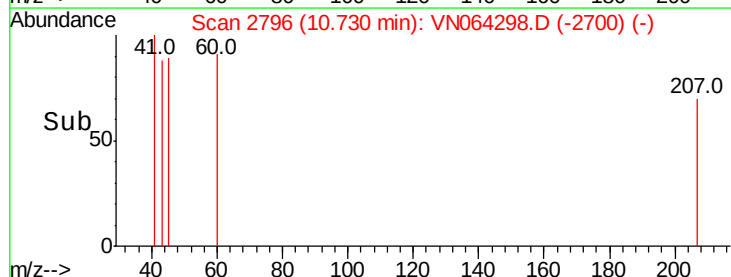
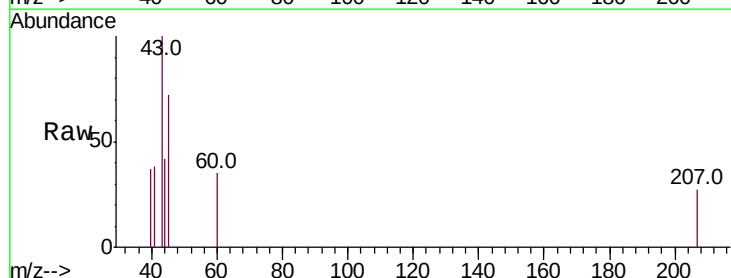
Instrument :
MSVOA_N
ClientSampled :
1836

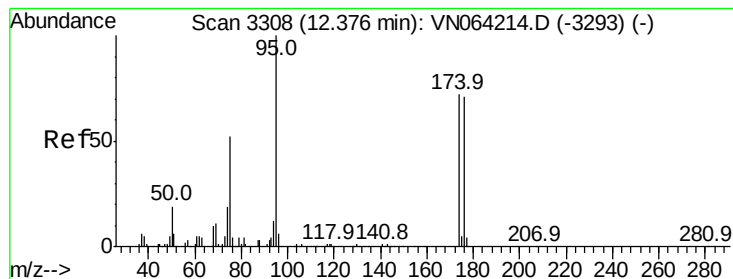
Tot Ion: 98 Resp: 526080
Ion Ratio Lower Upper
98 100
100 63.9 50.8 76.2



#59
2-Hexanone
Concen: 0.231 ug/l
RT: 10.73 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN064298.D
Acq: 23 Oct 2020 20:28

Tgt Ion: 43 Resp: 634
Ion Ratio Lower Upper
43 100
58 20.0 24.8 74.3#





#62

4-Bromofluorobenzene

Concen: 54.992 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

1836

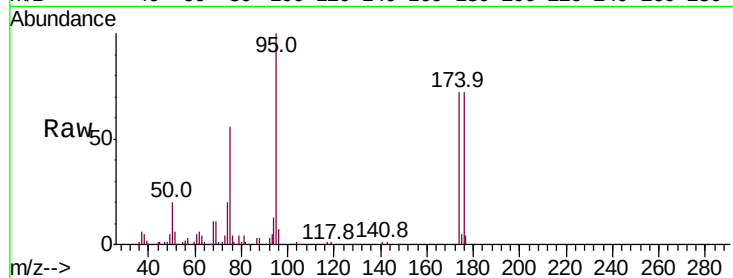
Tot Ion: 95 Resp: 224472

Ion Ratio Lower Upper

95 100

174 72.2 0.0 144.4

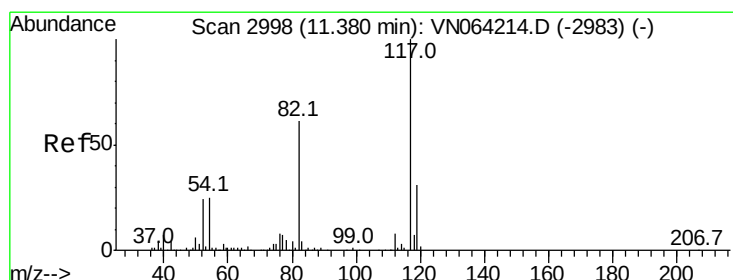
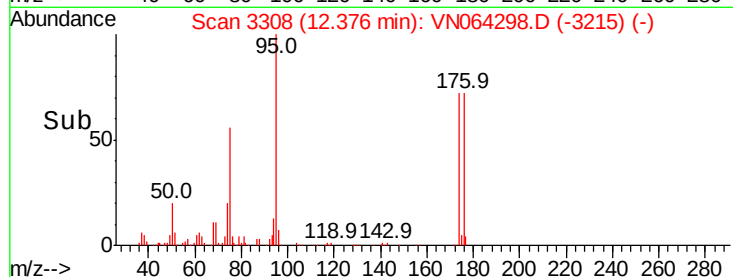
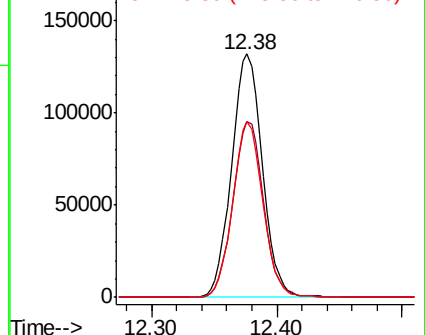
176 70.6 0.0 139.2



Abundance Ion 94.90 (94.60 to 95.60): VN064298.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064298.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064298.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

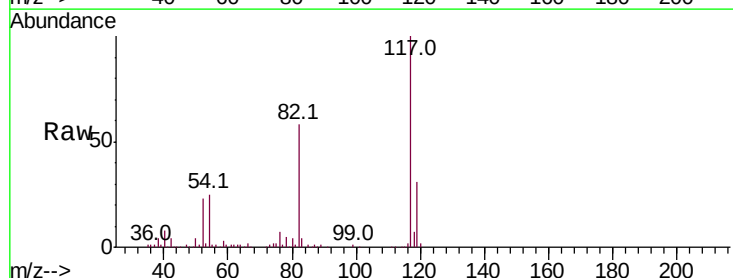
Tgt Ion: 117 Resp: 421491

Ion Ratio Lower Upper

117 100

82 58.2 48.8 73.2

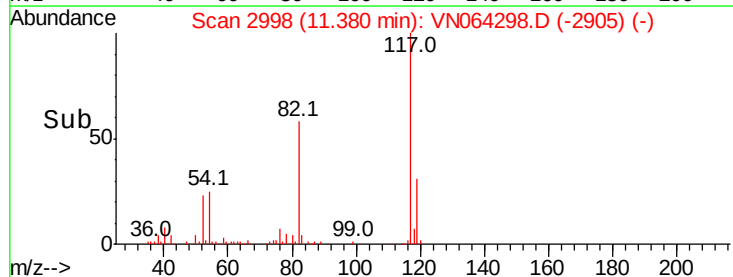
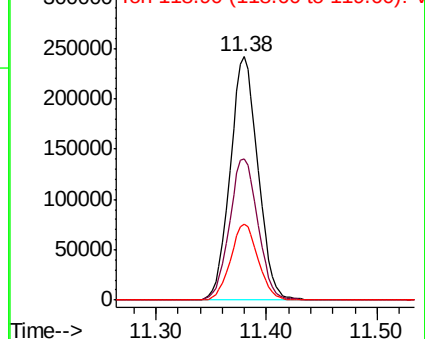
119 31.1 24.7 37.1

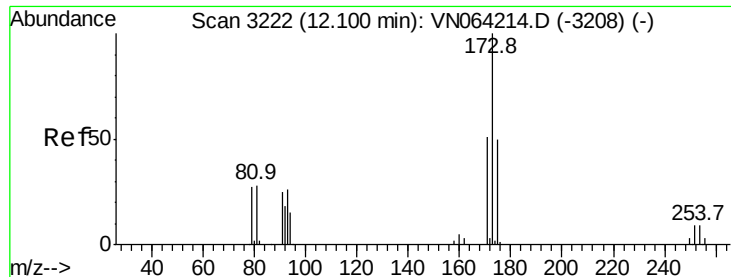


Abundance Ion 116.90 (116.60 to 117.60): VN064298.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064298.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064298.D (-2983) (-)





#71

Bromoform

Concen: 0.280 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

1836

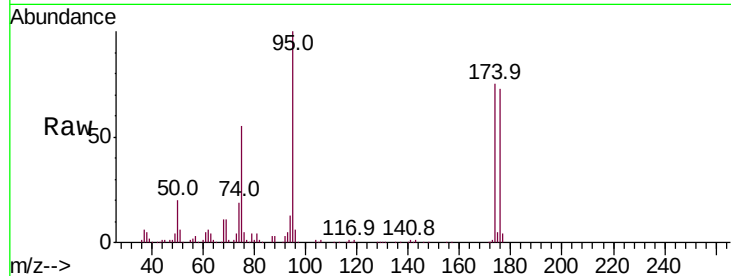
Tot Ion:173 Resp: 748

Ion Ratio Lower Upper

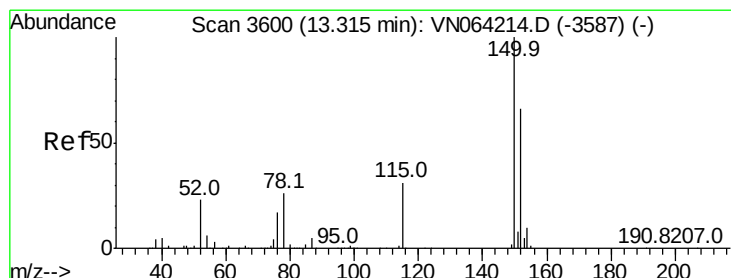
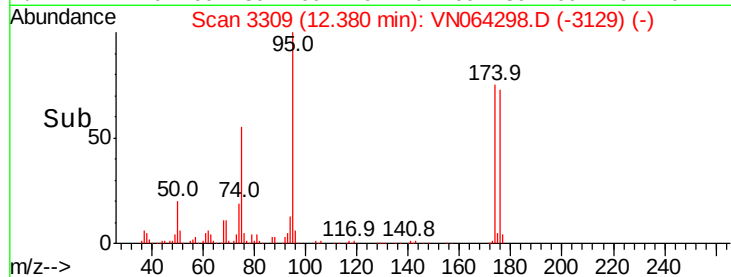
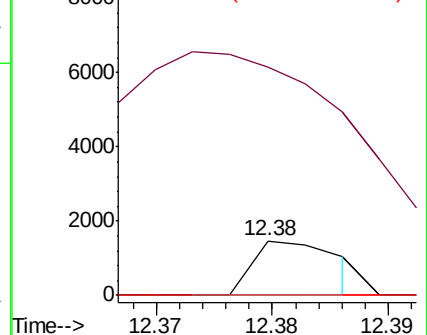
173 100

175 1321.7 25.1 75.3#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

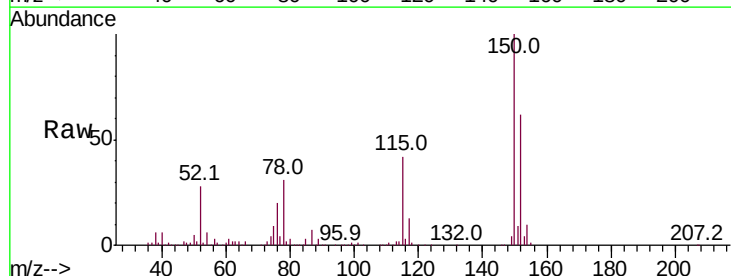
Tgt Ion:152 Resp: 177820

Ion Ratio Lower Upper

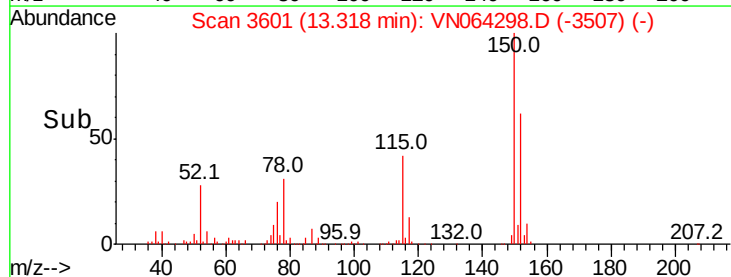
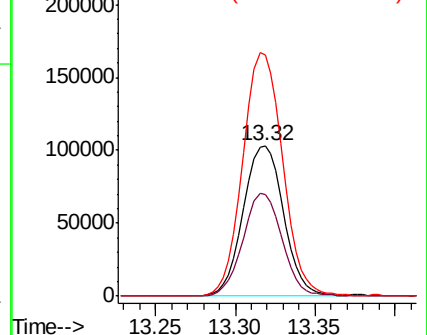
152 100

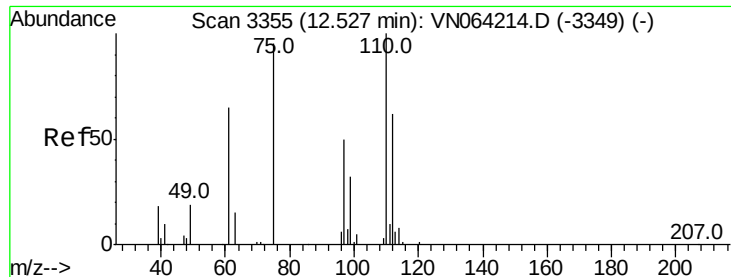
115 66.4 32.0 96.2

150 159.7 0.0 356.6



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





#76

1,2,3-Trichloropropane

Concen: 33.367 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampled :

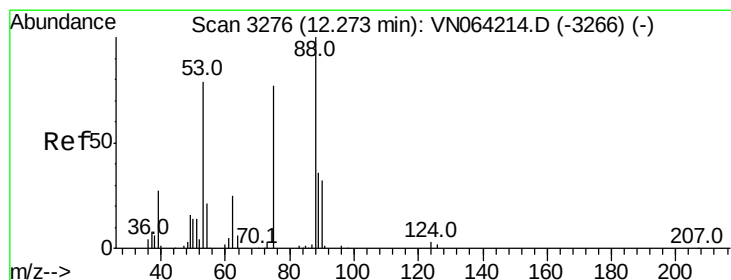
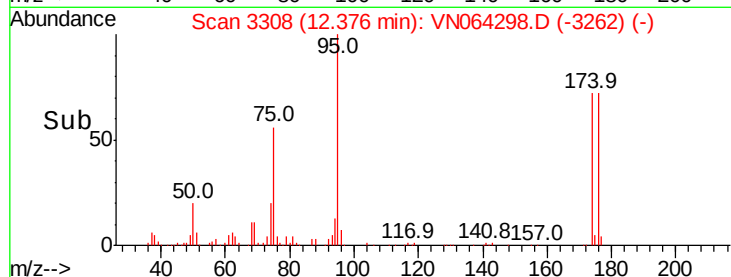
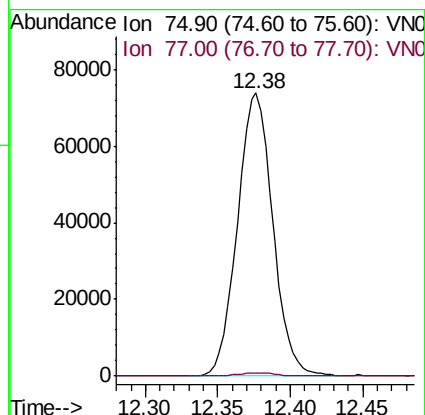
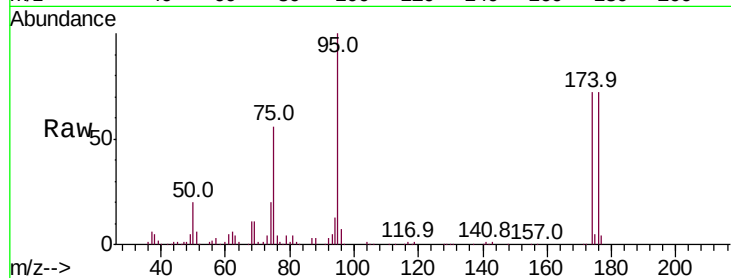
1836

Tot Ion: 75 Resp: 125084

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.242 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

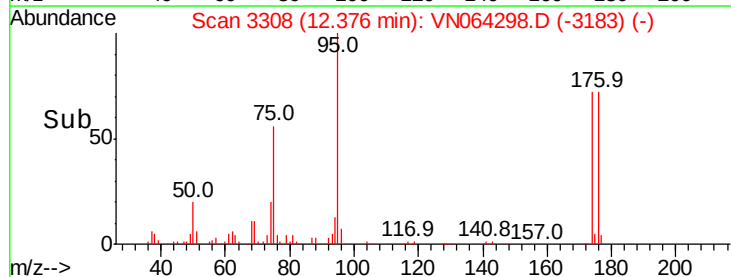
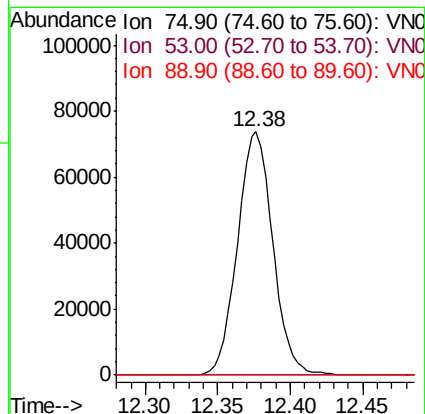
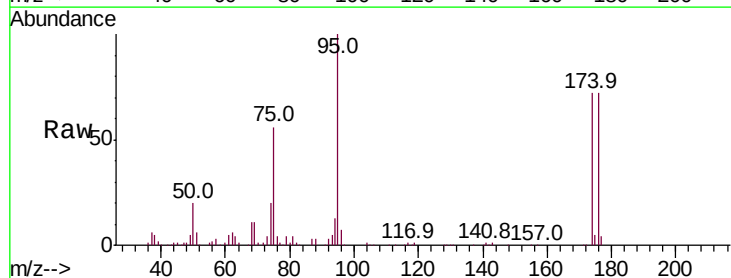
Tgt Ion: 75 Resp: 125084

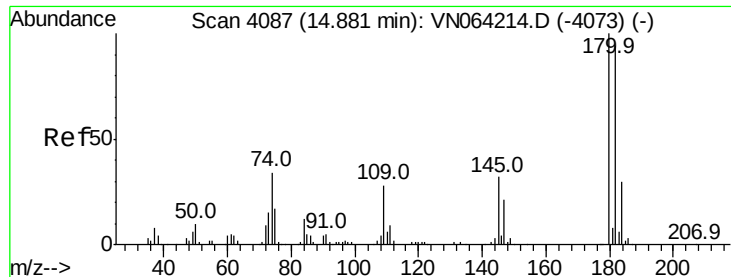
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#

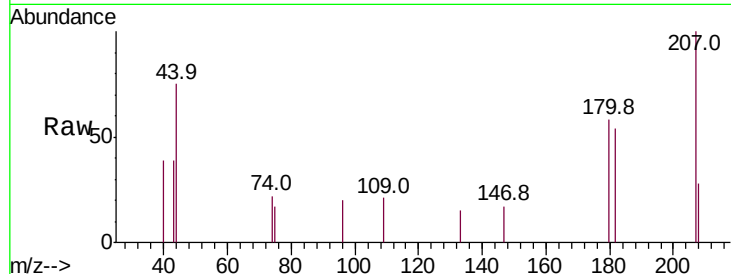




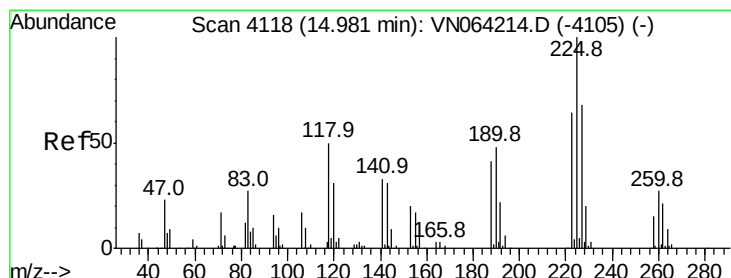
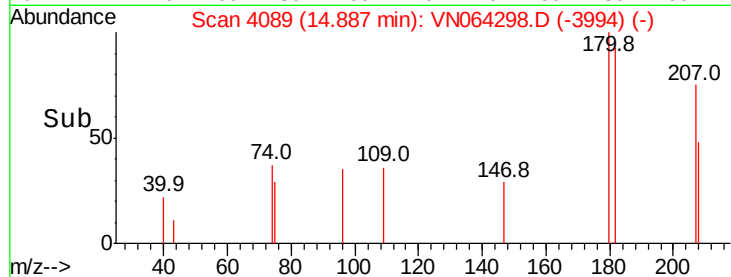
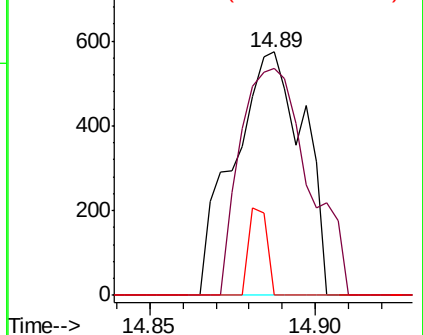
#93
 1,2,4-Trichlorobenzene
 Concen: 0.269 ug/l
 RT: 14.89 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN064298.D
 Acq: 23 Oct 2020 20:28

Instrument :
 MSVOA_N
 ClientSampled :
 1836

Tot Ion:180 Resp: 843
 Ion Ratio Lower Upper
 180 100
 182 90.9 46.9 140.7
 145 9.1 16.1 48.3#

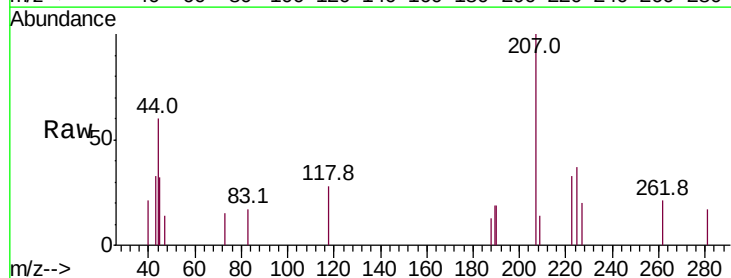


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

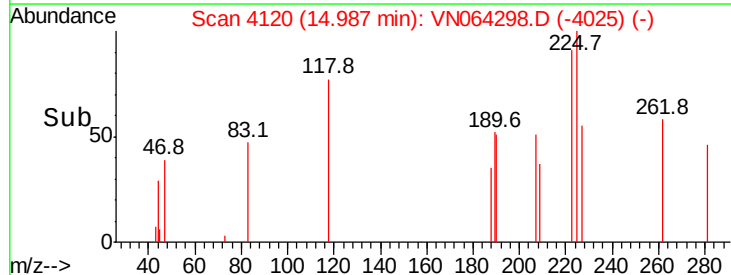
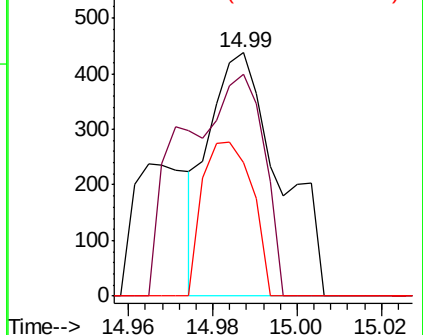


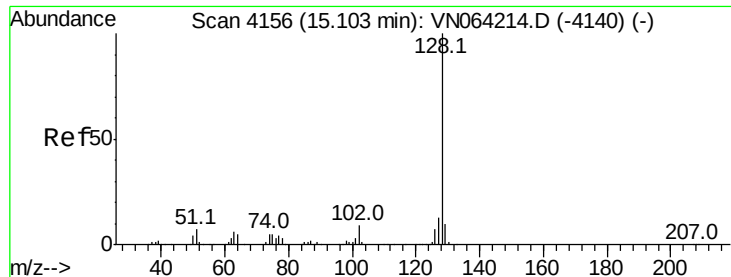
#94
 Hexachlorobutadiene
 Concen: 0.300 ug/l
 RT: 14.99 min Scan# 4120
 Delta R.T. 0.01 min
 Lab File: VN064298.D
 Acq: 23 Oct 2020 20:28

Tgt Ion:225 Resp: 507
 Ion Ratio Lower Upper
 225 100
 223 105.5 31.5 94.5#
 227 45.0 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.347 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

1836

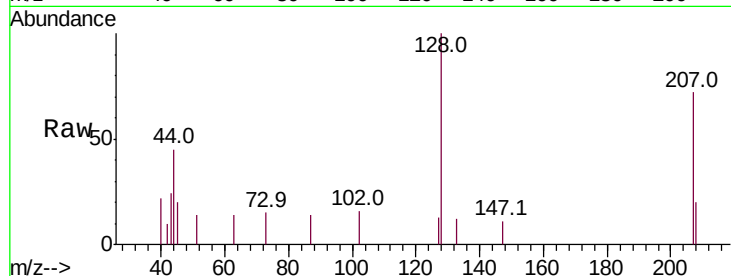
Tot Ion:128 Resp: 3259

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

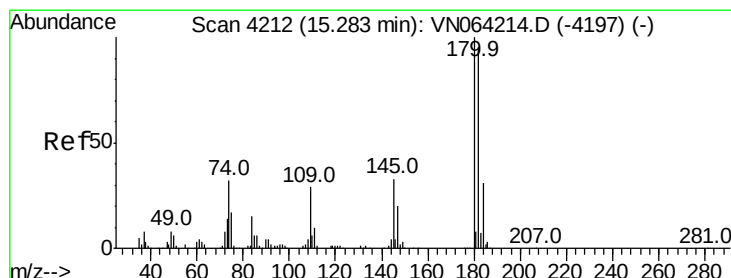
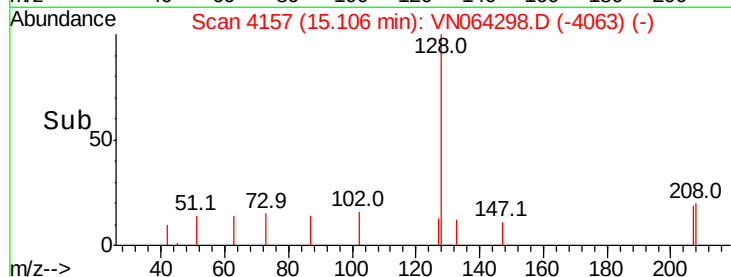
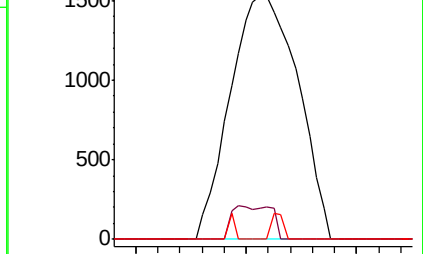
129 1.9 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.237 ug/l

RT: 15.29 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN064298.D

Acq: 23 Oct 2020 20:28

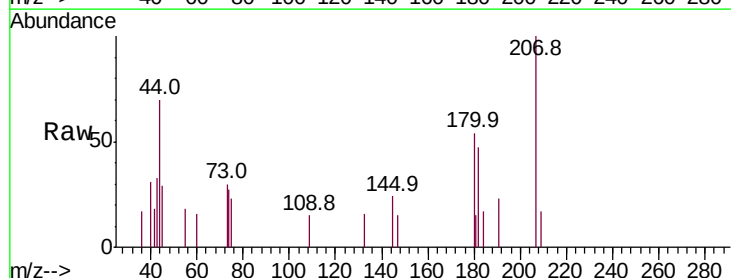
Tgt Ion:180 Resp: 737

Ion Ratio Lower Upper

180 100

182 138.0 48.0 144.2

145 58.2 17.1 51.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

