

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063624.D
 Acq On : 24 Sep 2020 13:29
 Operator : JC/MD
 Sample : L4104-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 25 03:48:33 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	212160	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	401752	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	400350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	164376	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	182723	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	7.55	113	131637	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	10.06	98	513404	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
62) 4-Bromofluorobenzene	12.38	95	195890	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	

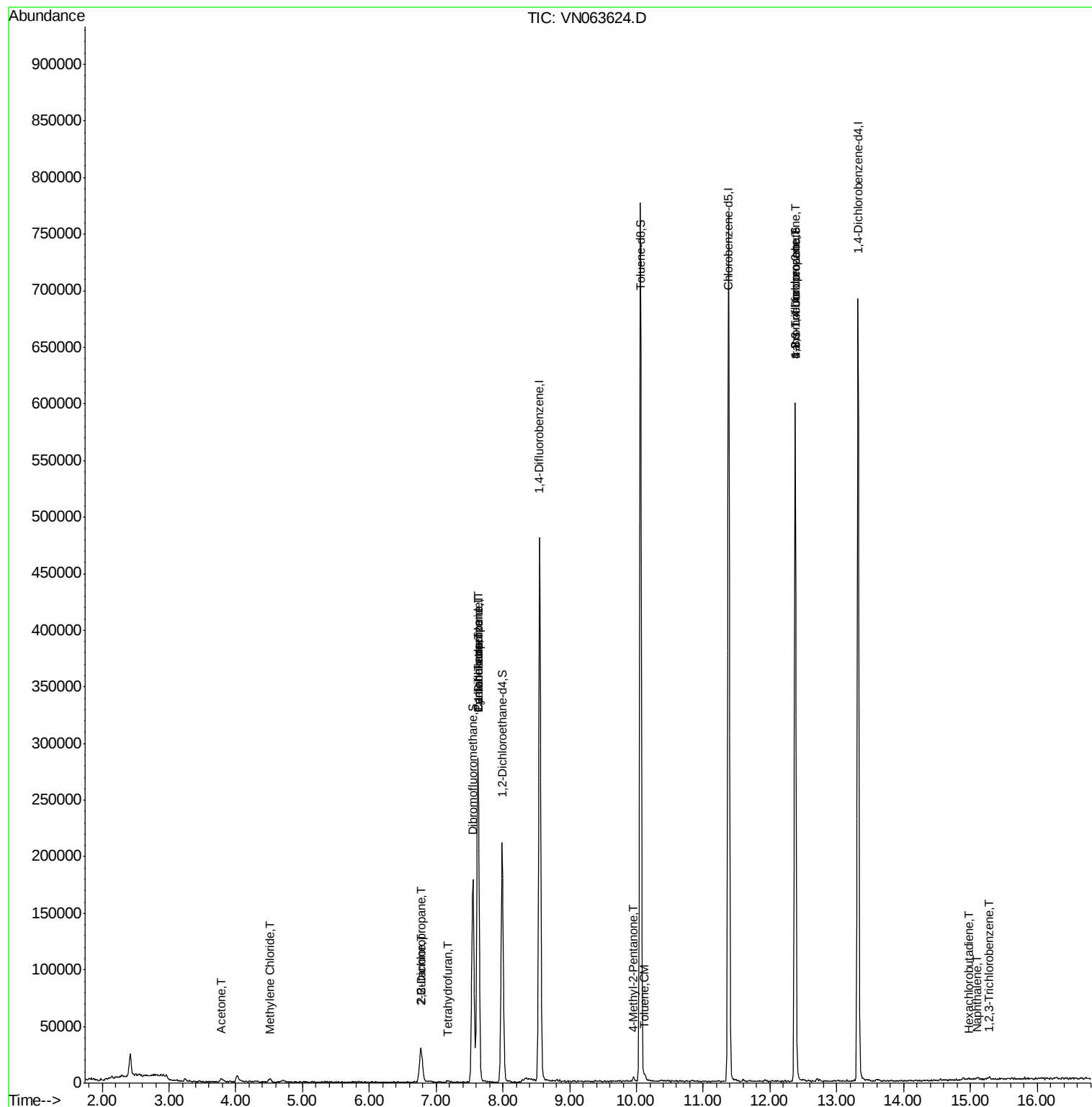
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	5455	4.700	ug/l #	87
20) Methylene Chloride	4.51	84	1664	0.566	ug/l #	62
25) 2-Butanone	6.79	43	1153	0.646	ug/l #	35
26) 2,2-Dichloropropane	6.77	77	2271	0.489	ug/l #	55
29) Tetrahydrofuran	7.17	42	868	0.712	ug/l #	45
31) Cyclohexane	7.62	56	6215	1.246	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	19768	4.619	ug/l #	52
38) Carbon Tetrachloride	7.63	117	24275	5.556	ug/l #	16
51) 4-Methyl-2-Pentanone	9.96	43	2620	0.623	ug/l #	77
52) Toluene	10.13	92	1718	0.234	ug/l	97
76) 1,2,3-Trichloropropane	12.38	75	110561	27.175	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	110561	74.503	ug/l #	7
94) Hexachlorobutadiene	14.98	225	434	0.330	ug/l #	37
95) Naphthalene	15.11	128	2465	0.235	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.28	180	791	0.258	ug/l #	83

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

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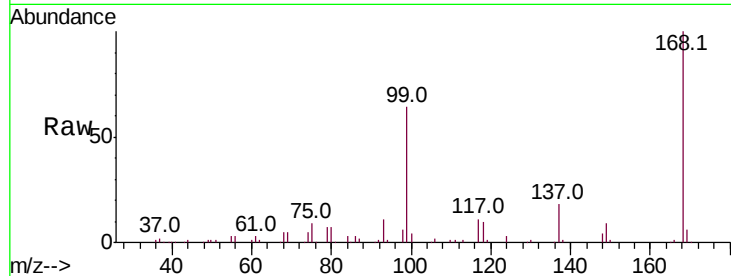




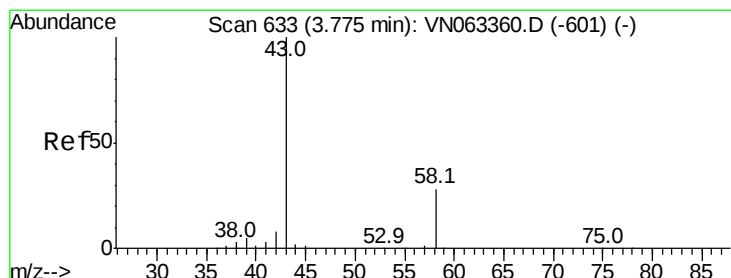
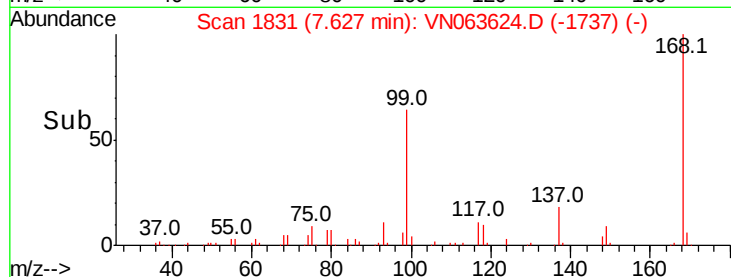
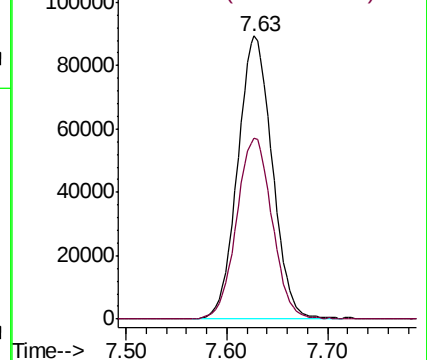
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN063624.D
Acq: 24 Sep 2020 13:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 212160
Ion Ratio Lower Upper
168 100
99 63.7 53.0 79.6

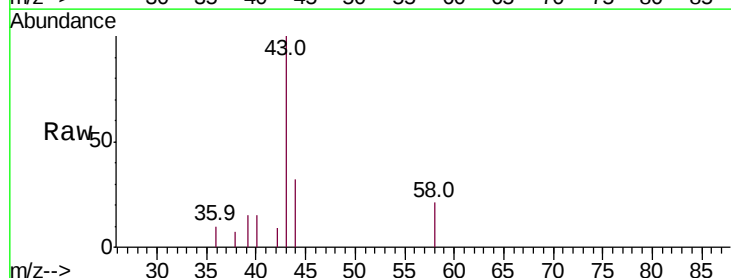


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN0

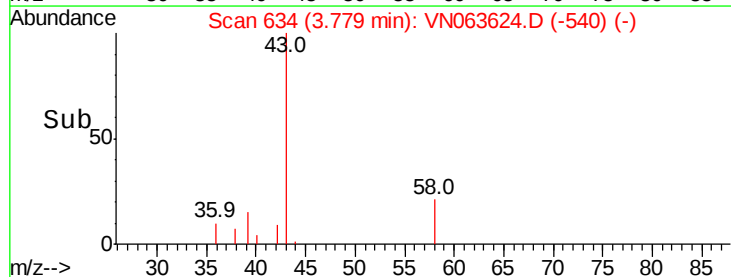
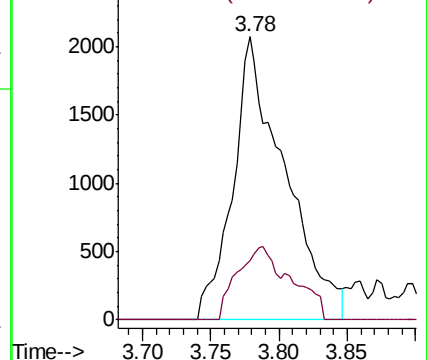


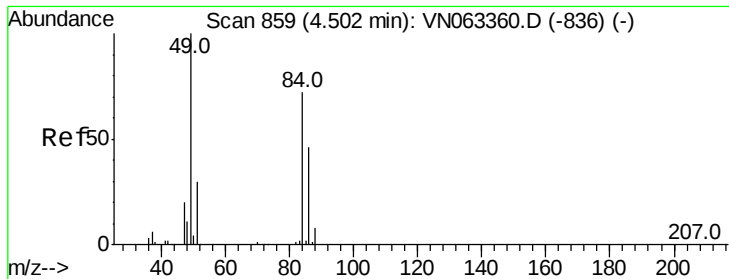
#16
Acetone
Concen: 4.700 ug/l
RT: 3.78 min Scan# 634
Delta R.T. 0.00 min
Lab File: VN063624.D
Acq: 24 Sep 2020 13:29

Tgt Ion: 43 Resp: 5455
Ion Ratio Lower Upper
43 100
58 21.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

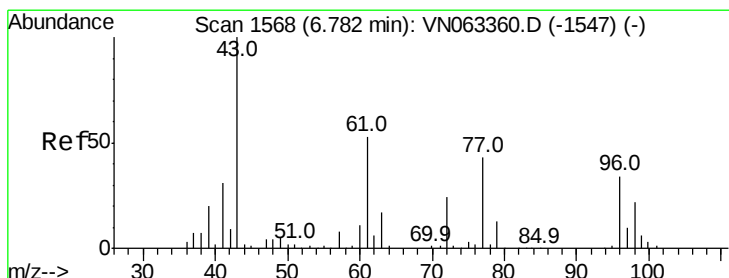
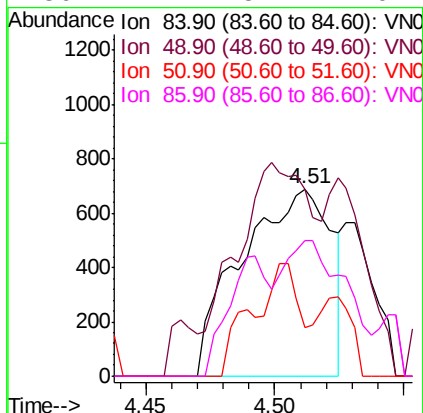
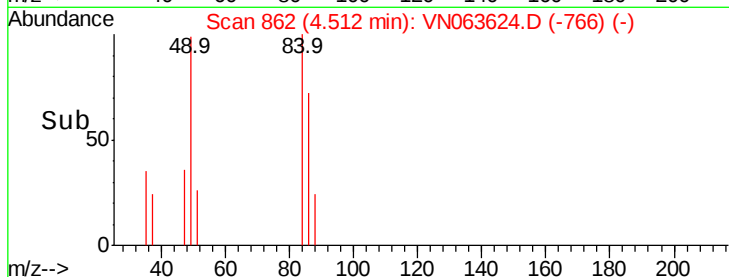
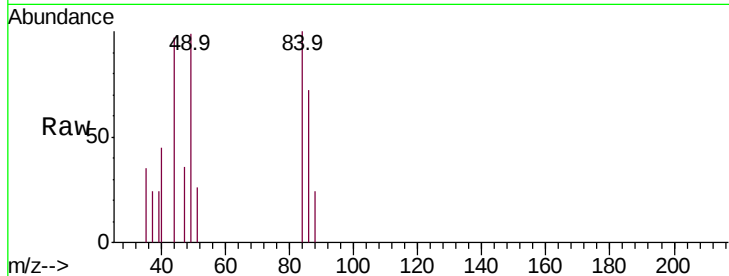




#20
Methvlene Chloride
Concen: 0.566 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063624.D
Acq: 24 Sep 2020 13:29

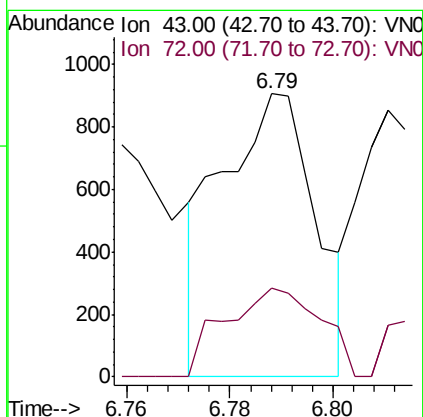
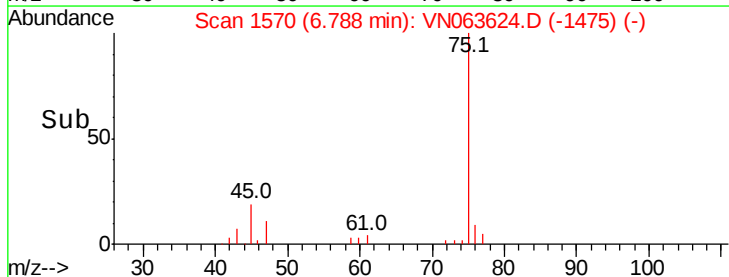
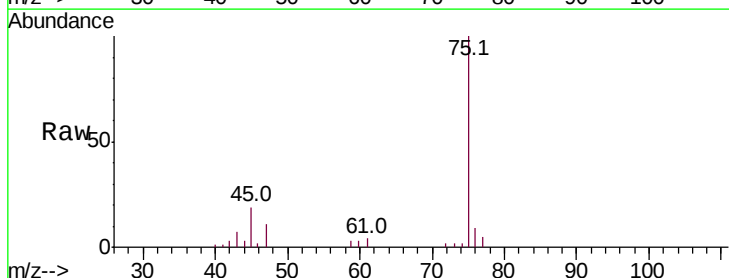
Instrument :
MSVOA_N
ClientSampled :

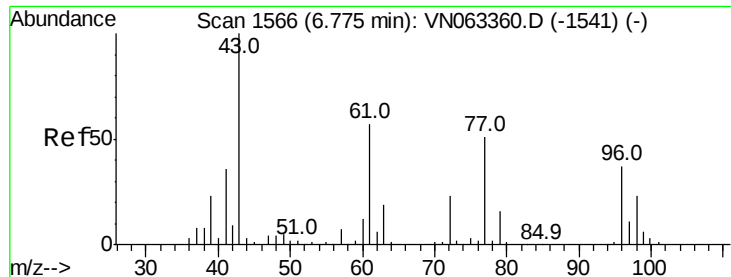
Tot Ion: 84 Resp: 1664
Ion Ratio Lower Upper
84 100
49 73.3 110.7 166.1#
51 25.8 32.9 49.3#
86 72.2 51.1 76.7



#25
2-Butanone
Concen: 0.646 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN063624.D
Acq: 24 Sep 2020 13:29

Tgt Ion: 43 Resp: 1153
Ion Ratio Lower Upper
43 100
72 56.0 19.2 28.8#





#26

2,2-Dichloropropane

Concen: 0.489 ug/l

RT: 6.77 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

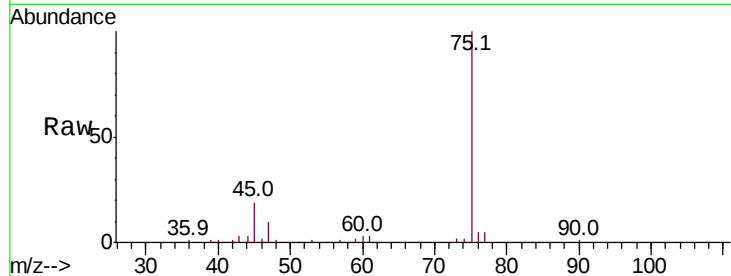
ClientSampled :

Tot Ion: 77 Resp: 2271

Ion Ratio Lower Upper

77 100

97 0.0 10.5 31.6#



Abundance Ion 76.90 (76.60 to 77.60): VNC

Ion 96.90 (96.60 to 97.60): VNC

6.77

1000

800

600

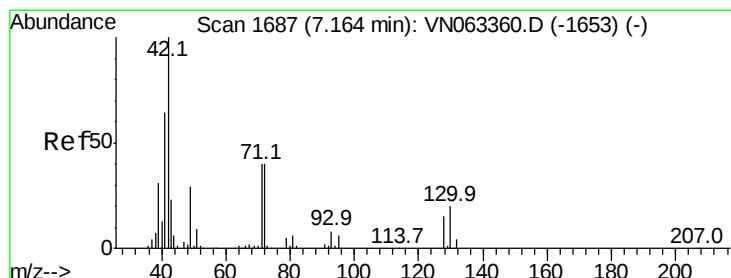
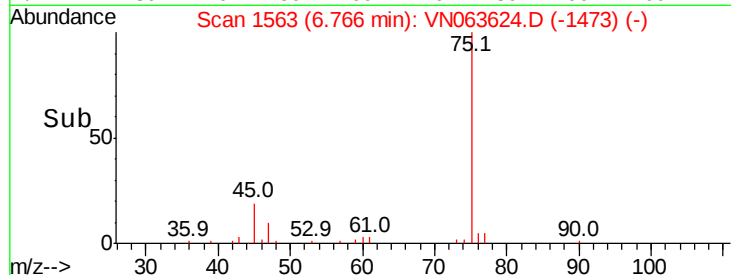
400

200

0

6.75 6.80

Time-->



#29

Tetrahydrofuran

Concen: 0.712 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

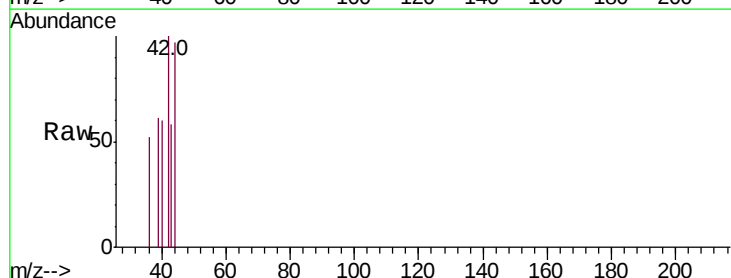
Tgt Ion: 42 Resp: 868

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 11.6 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC

500

400

300

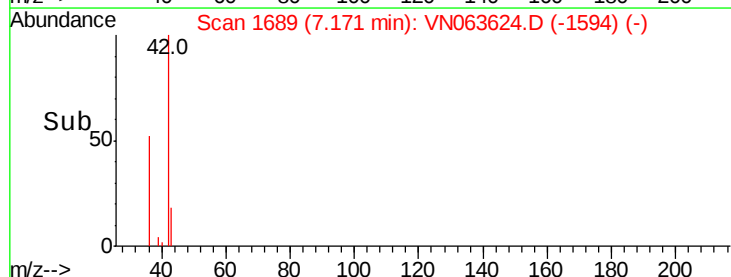
200

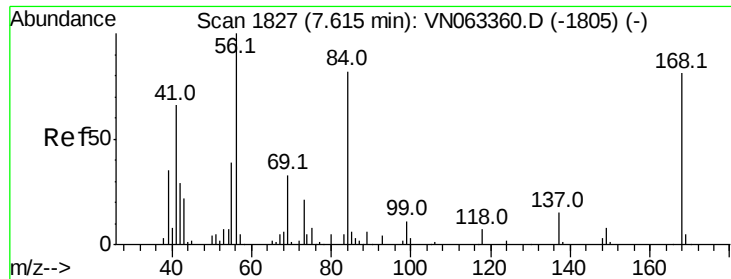
100

0

7.12 7.14 7.16 7.18 7.20

Time-->

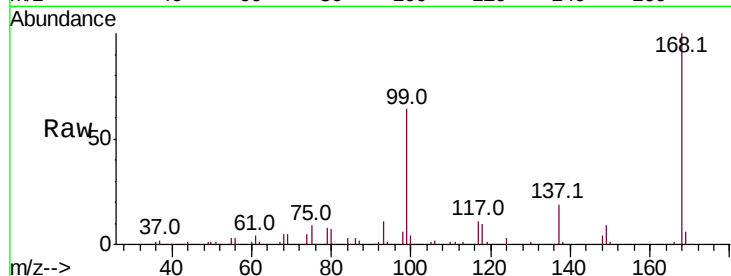




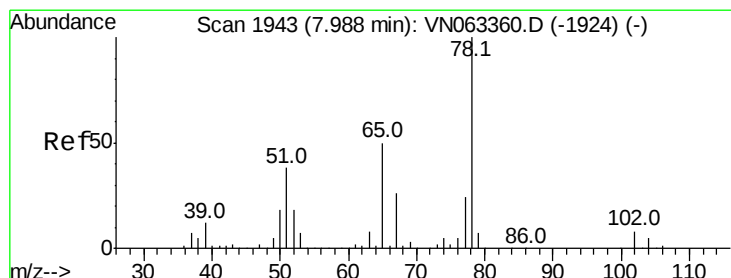
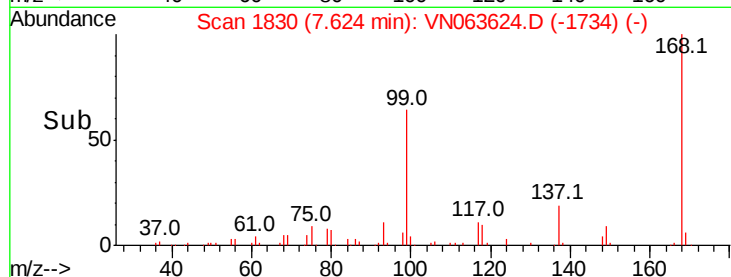
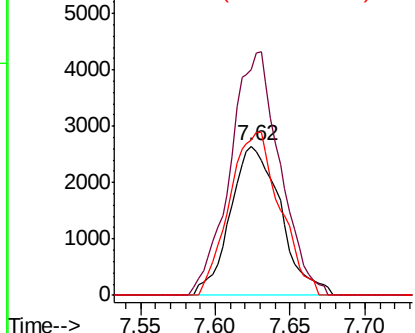
#31
Cyclohexane
Concen: 1.246 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063624.D
Acq: 24 Sep 2020 13:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 6215
Ion Ratio Lower Upper
56 100
69 151.6 26.1 39.1#
84 104.3 65.4 98.2#

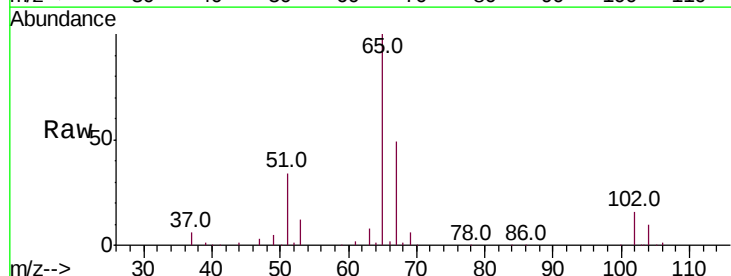


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

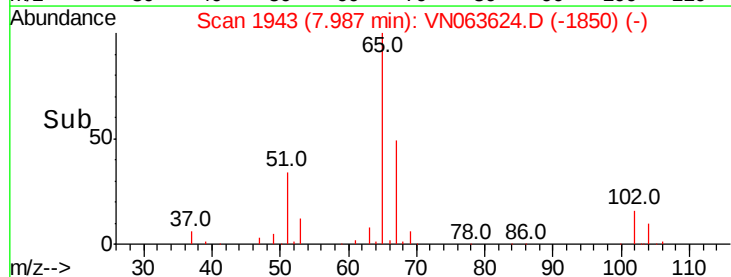
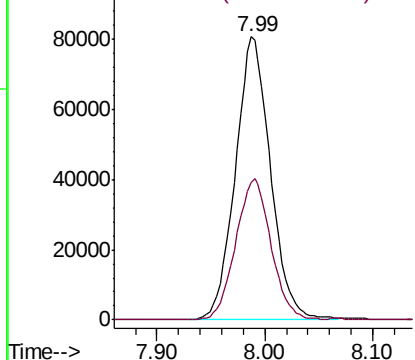


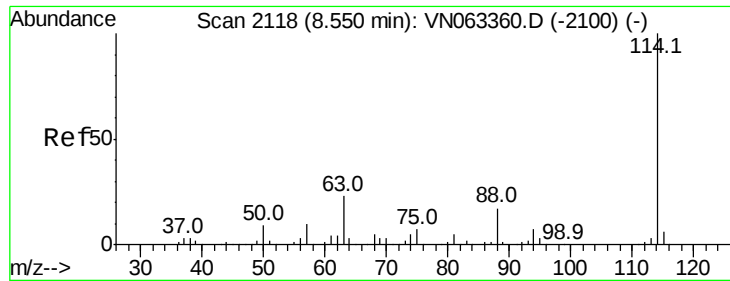
#33
1,2-Dichloroethane-d4
Concen: 50.594 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063624.D
Acq: 24 Sep 2020 13:29

Tgt Ion: 65 Resp: 182723
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# 2119

Delta R.T. 0.00 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

ClientSampled :

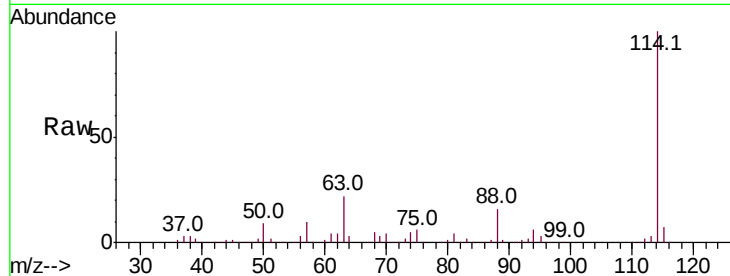
Tot Ion:114 Resp: 401752

Ion Ratio Lower Upper

114 100

63 21.8 0.0 46.4

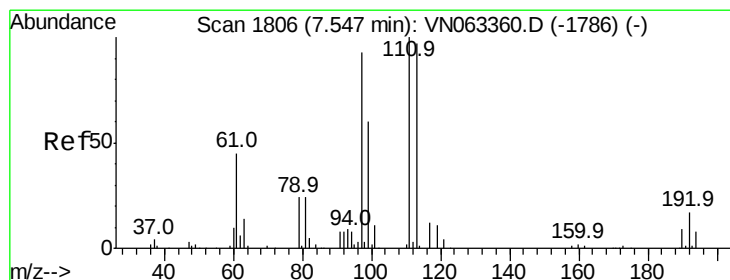
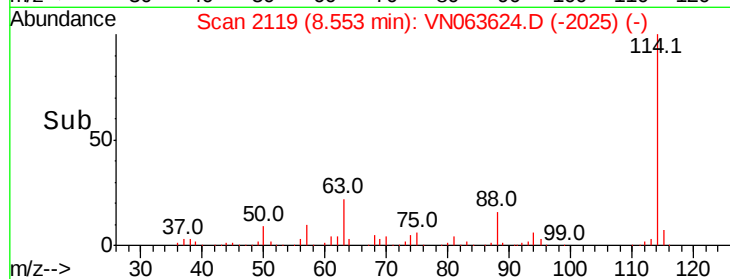
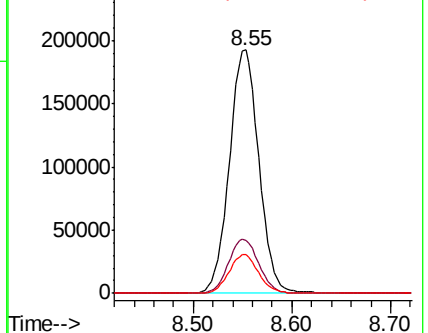
88 15.9 0.0 33.2



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: 47.330 ug/l

RT: 7.55 min Scan# 1808

Delta R.T. 0.01 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

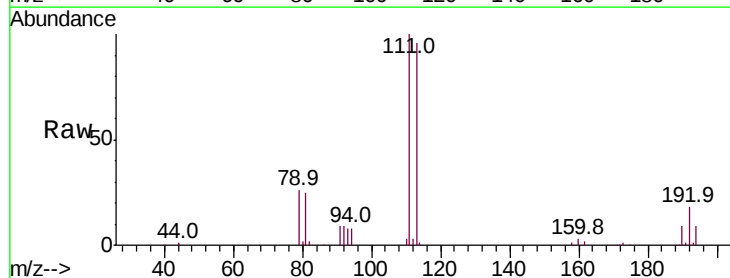
Tgt Ion:113 Resp: 131637

Ion Ratio Lower Upper

113 100

111 102.8 82.9 124.3

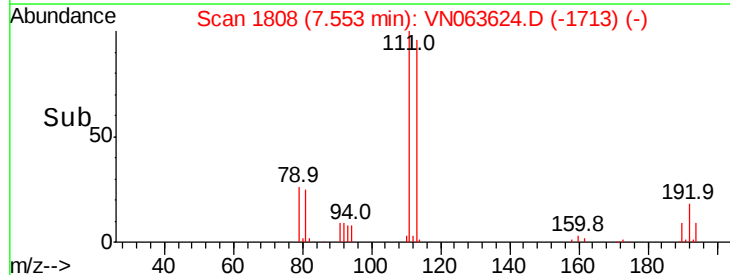
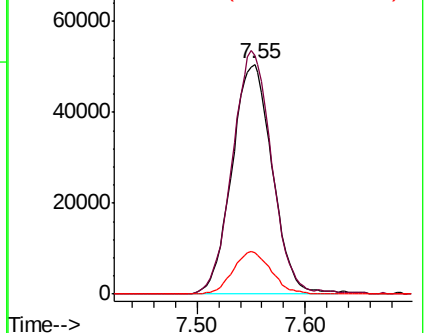
192 17.5 13.9 20.9

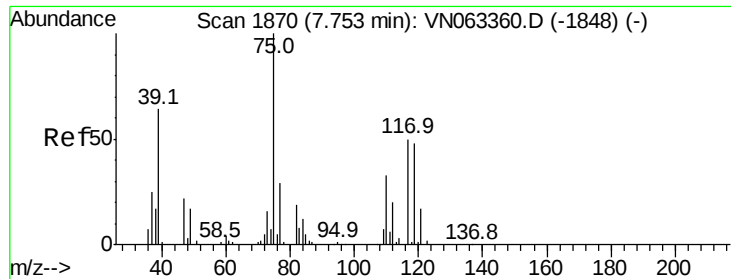


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.619 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

ClientSampled :

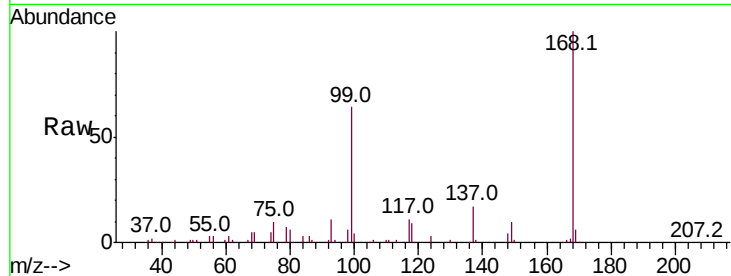
Tot Ion: 75 Resp: 19768

Ion Ratio Lower Upper

75 100

110 10.6 16.5 49.5#

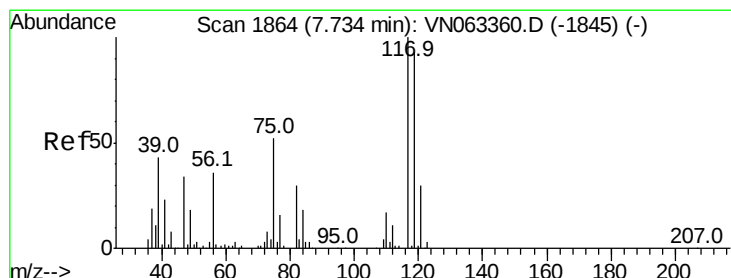
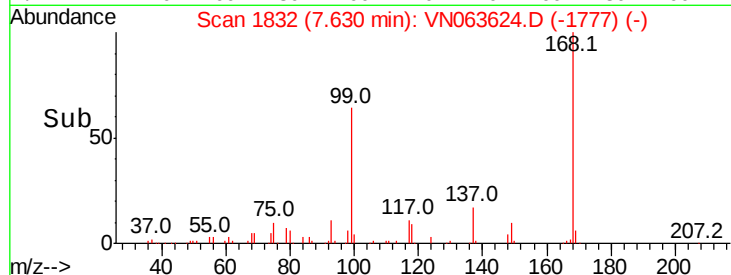
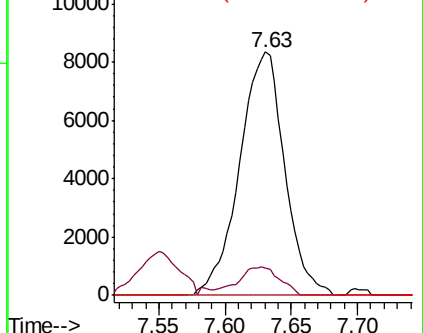
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 5.556 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

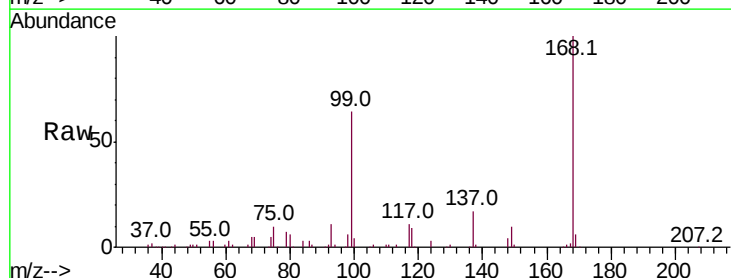
Tgt Ion: 117 Resp: 24275

Ion Ratio Lower Upper

117 100

119 4.1 74.5 111.7#

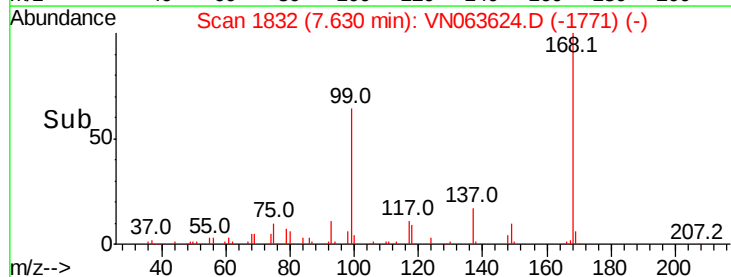
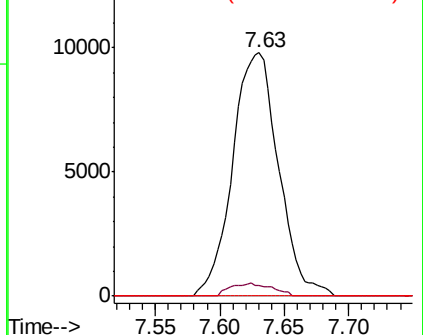
121 0.0 24.1 36.1#

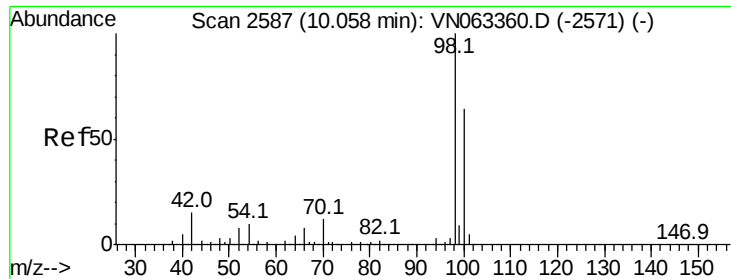


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)





#50

Toluene-d8

Concen: 49.092 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

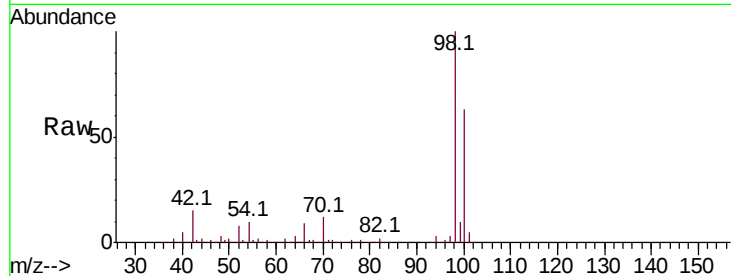
ClientSampled :

Tot Ion: 98 Resp: 513404

Ion Ratio Lower Upper

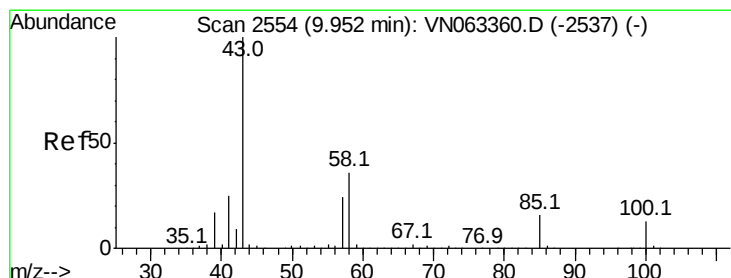
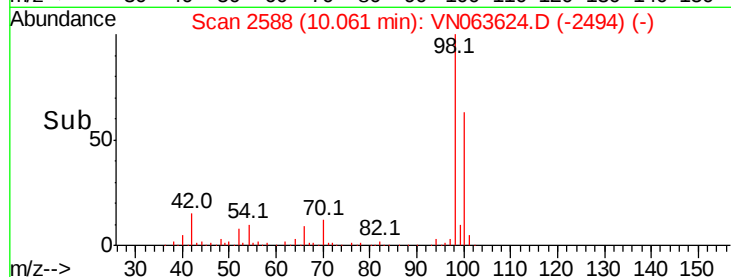
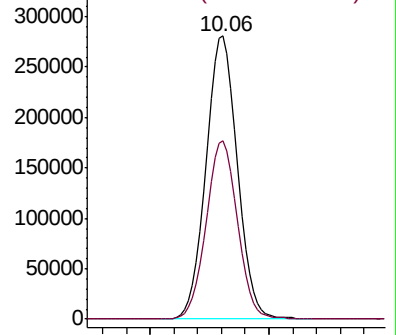
98 100

100 63.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.623 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063624.D

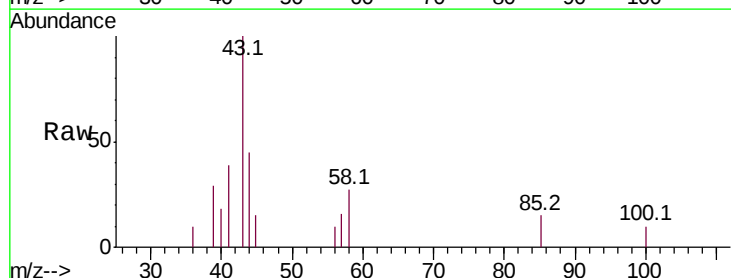
Acq: 24 Sep 2020 13:29

Tgt Ion: 43 Resp: 2620

Ion Ratio Lower Upper

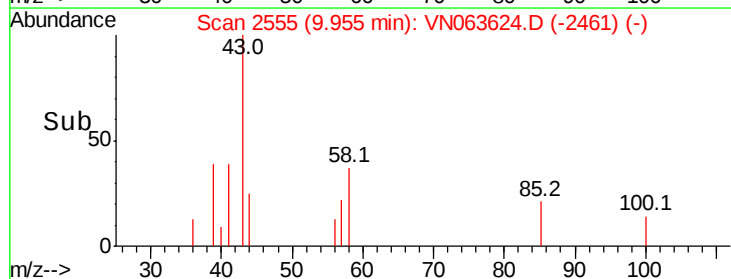
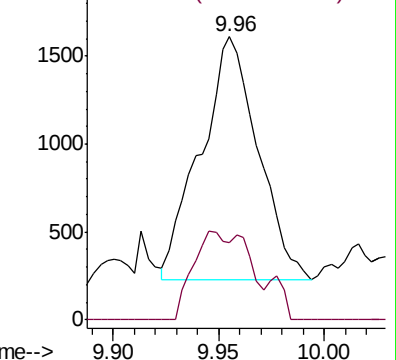
43 100

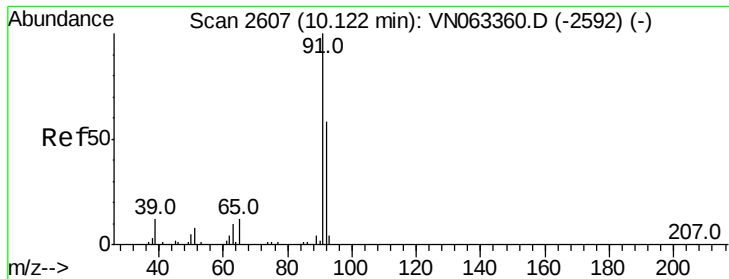
58 22.7 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 0.234 ug/l

RT: 10.13 min Scan# 2609

Delta R.T. 0.01 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

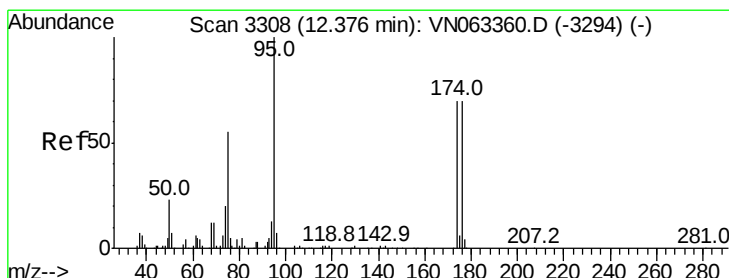
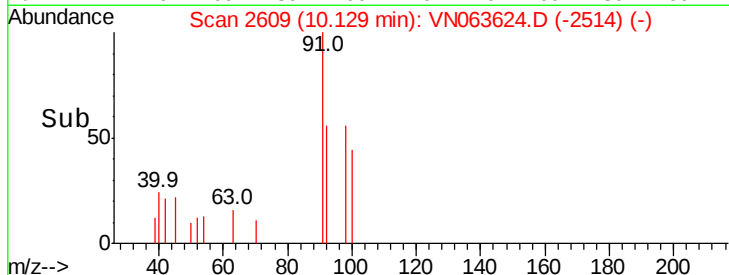
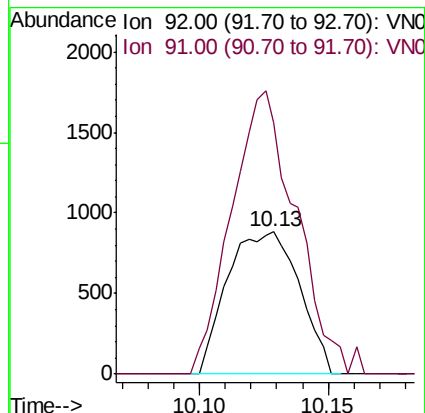
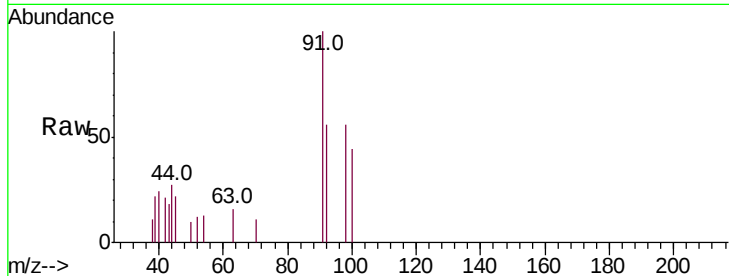
ClientSampleId :

Tot Ion: 92 Resp: 1718

Ion Ratio Lower Upper

92 100

91 179.5 139.7 209.5



#62

4-Bromofluorobenzene

Concen: 51.097 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

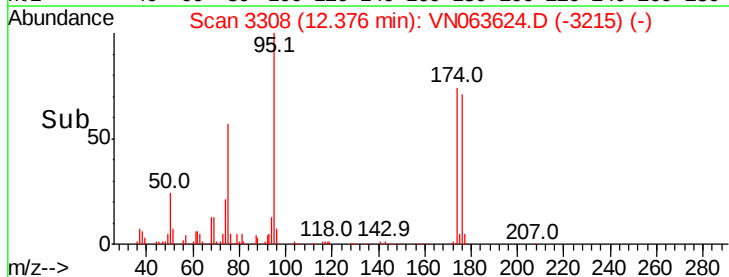
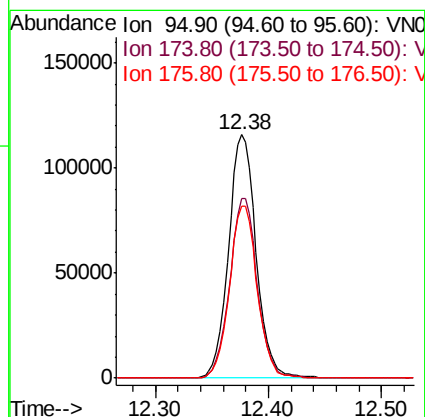
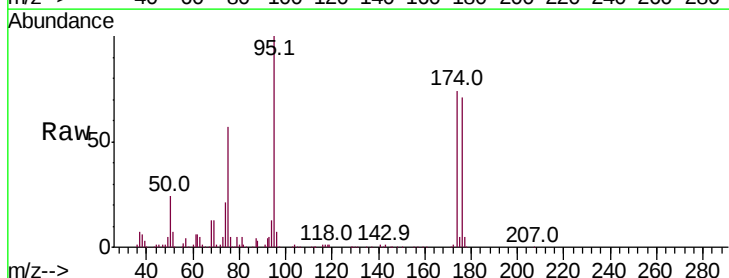
Tgt Ion: 95 Resp: 195890

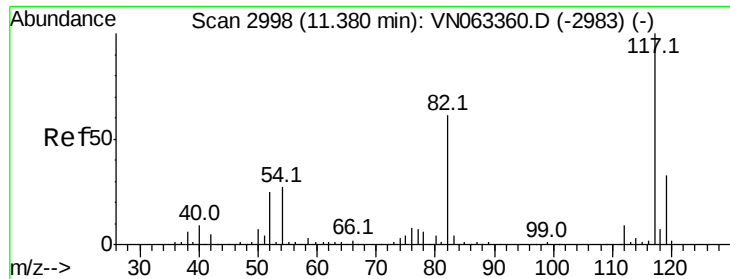
Ion Ratio Lower Upper

95 100

174 74.1 0.0 140.8

176 71.4 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: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

ClientSampleId :

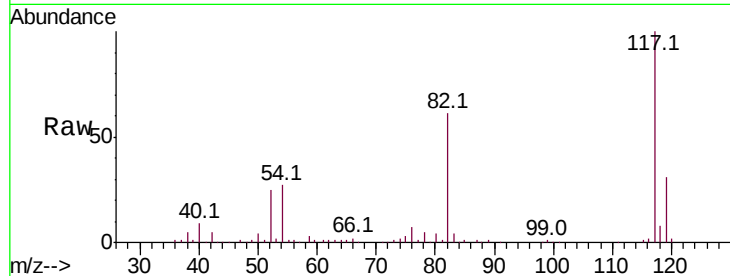
Tot Ion:117 Resp: 400350

Ion Ratio Lower Upper

117 100

82 60.5 49.2 73.8

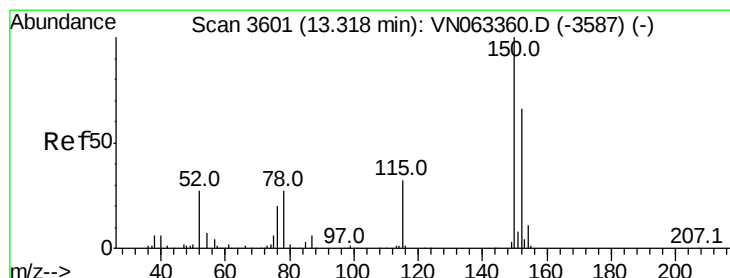
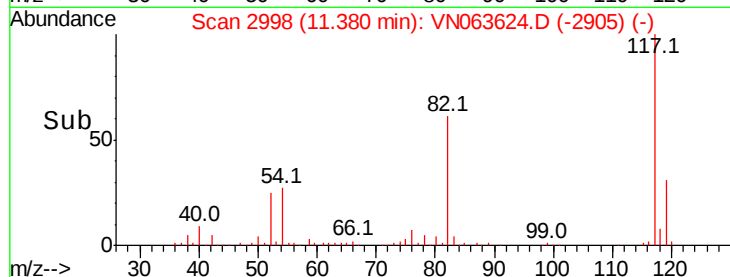
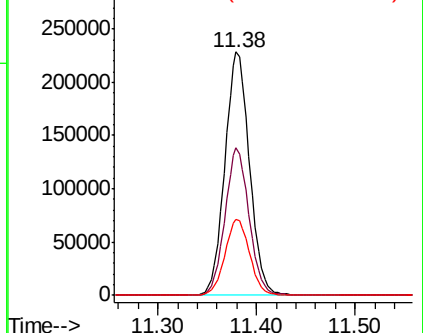
119 31.3 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

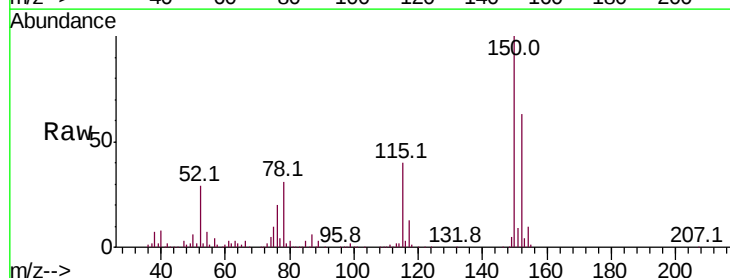
Tgt Ion:152 Resp: 164376

Ion Ratio Lower Upper

152 100

115 63.6 32.2 96.6

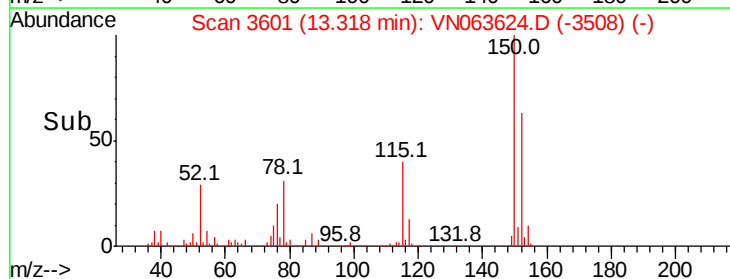
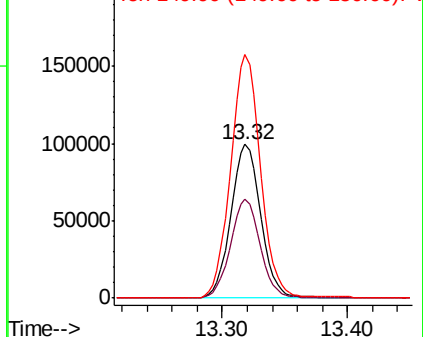
150 158.1 0.0 343.4

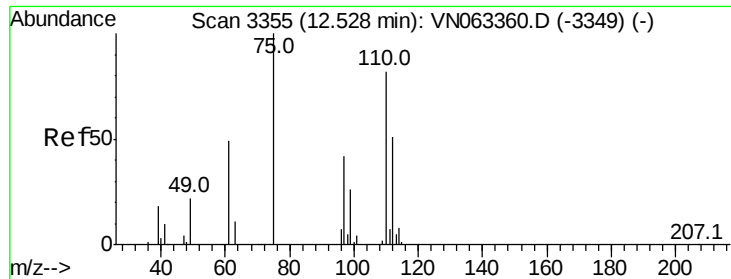


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.175 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

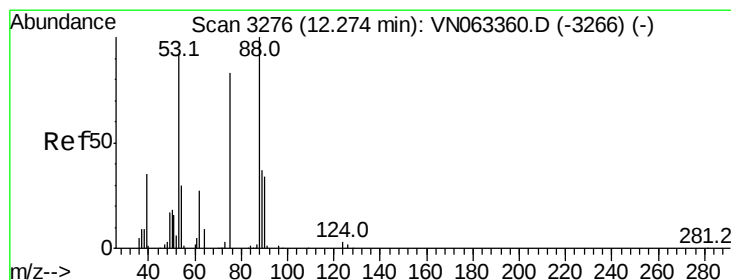
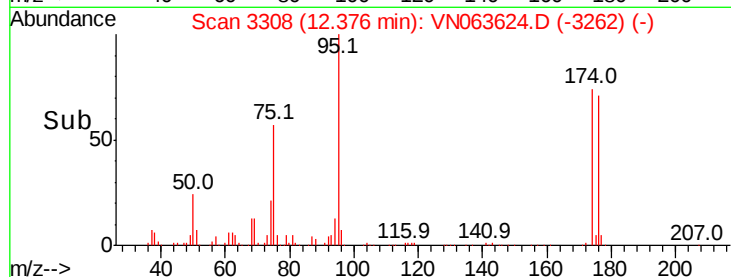
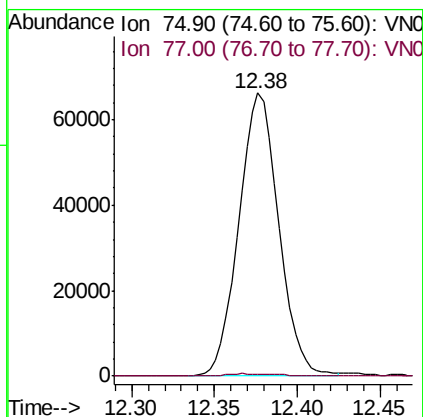
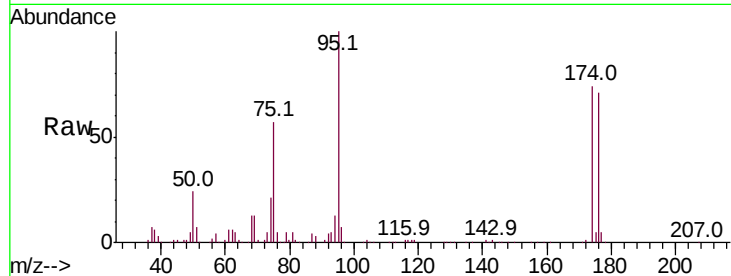
ClientSampled :

Tot Ion: 75 Resp: 110561

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.503 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

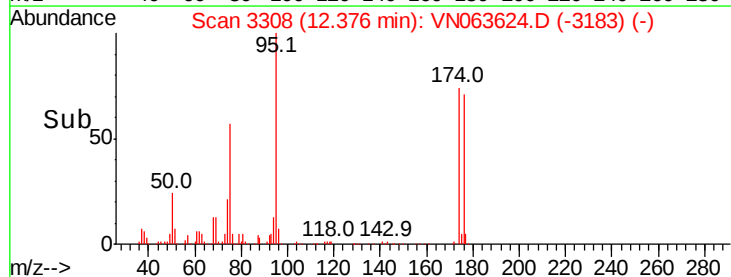
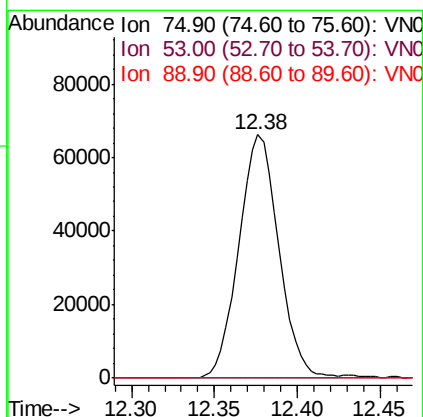
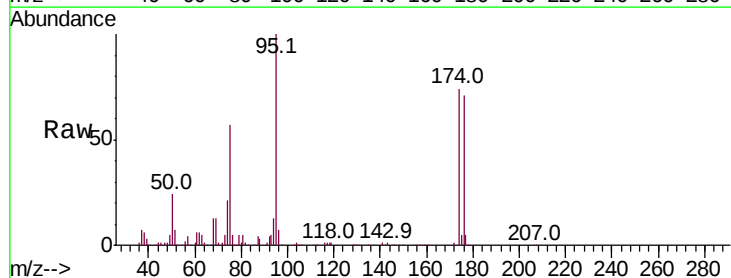
Tgt Ion: 75 Resp: 110561

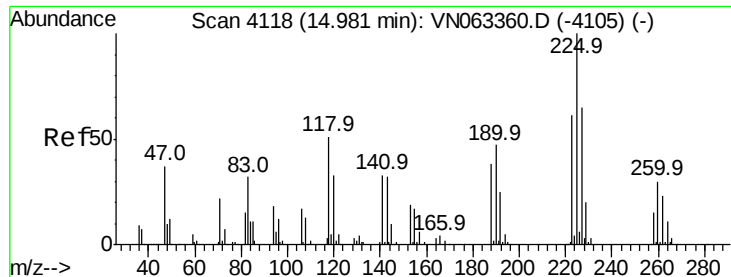
Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#





#94

Hexachlorobutadiene

Concen: 0.330 ug/l

RT: 14.98 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

Instrument :

MSVOA_N

ClientSampled :

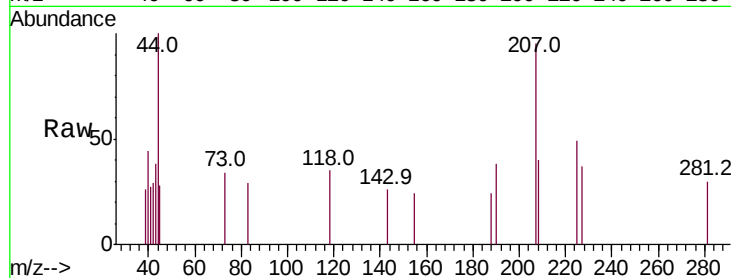
Tot Ion:225 Resp: 434

Ion Ratio Lower Upper

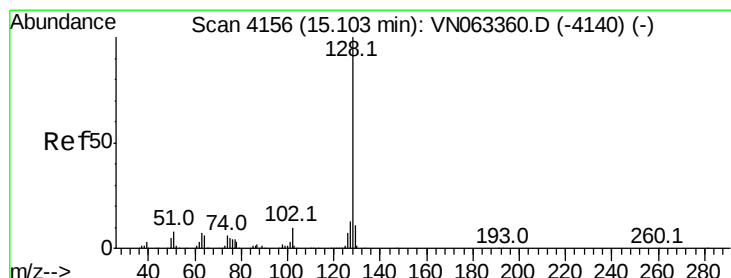
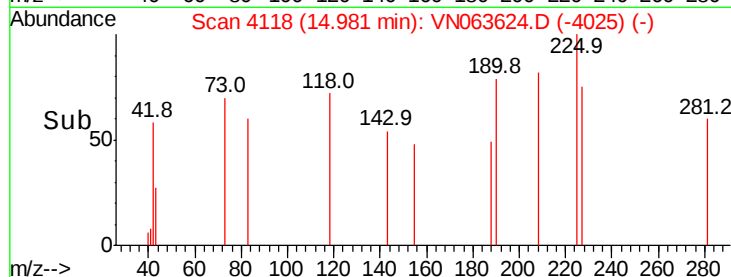
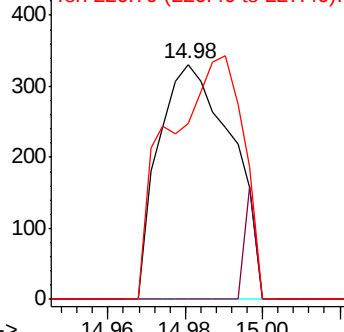
225 100

223 7.1 30.6 91.6#

227 105.3 31.2 93.6#



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: 0.235 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063624.D

Acq: 24 Sep 2020 13:29

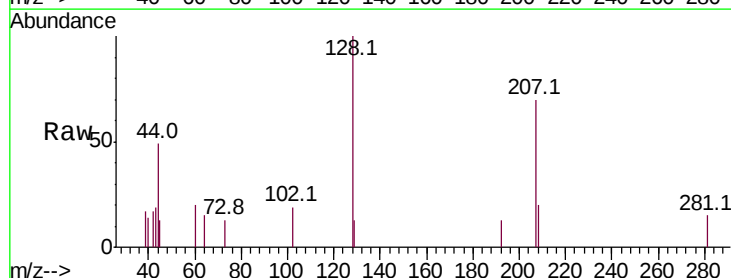
Tgt Ion:128 Resp: 2465

Ion Ratio Lower Upper

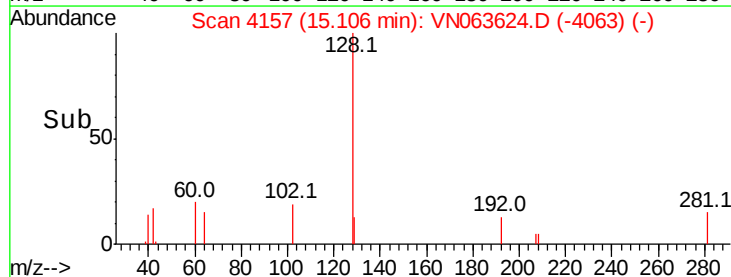
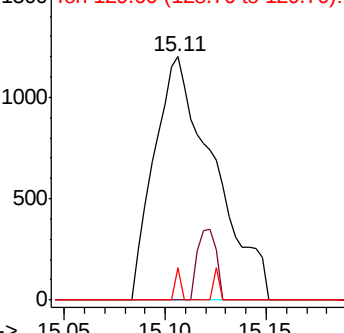
128 100

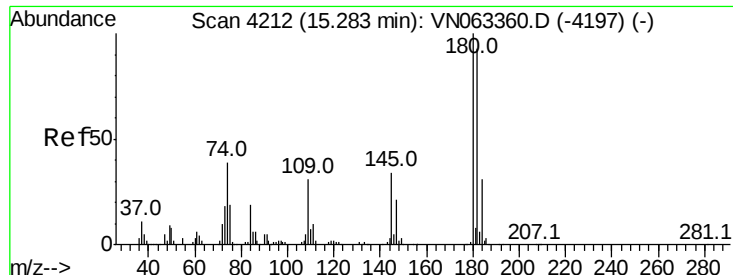
127 0.0 10.6 15.8#

129 1.2 8.8 13.2#



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

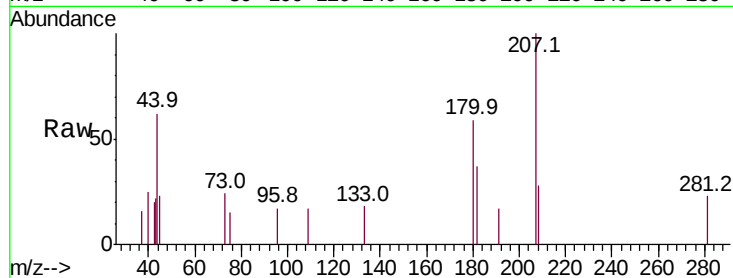




#96
 1,2,3-Trichlorobenzene
 Concen: 0.258 ug/l
 RT: 15.28 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN063624.D
 Acq: 24 Sep 2020 13:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.9	46.7	140.1
145	0.0	16.8	50.3



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

