

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\
 Data File : VN063694.D
 Acq On : 25 Sep 2020 21:30
 Operator : JC/MD
 Sample : L4133-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW3

Quant Time: Sep 28 02:05:23 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	196450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	361864	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	370314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	151270	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	167871	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
35) Dibromofluoromethane	7.55	113	124944	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
50) Toluene-d8	10.06	98	466087	49.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.38	95	180966	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	

Target Compounds

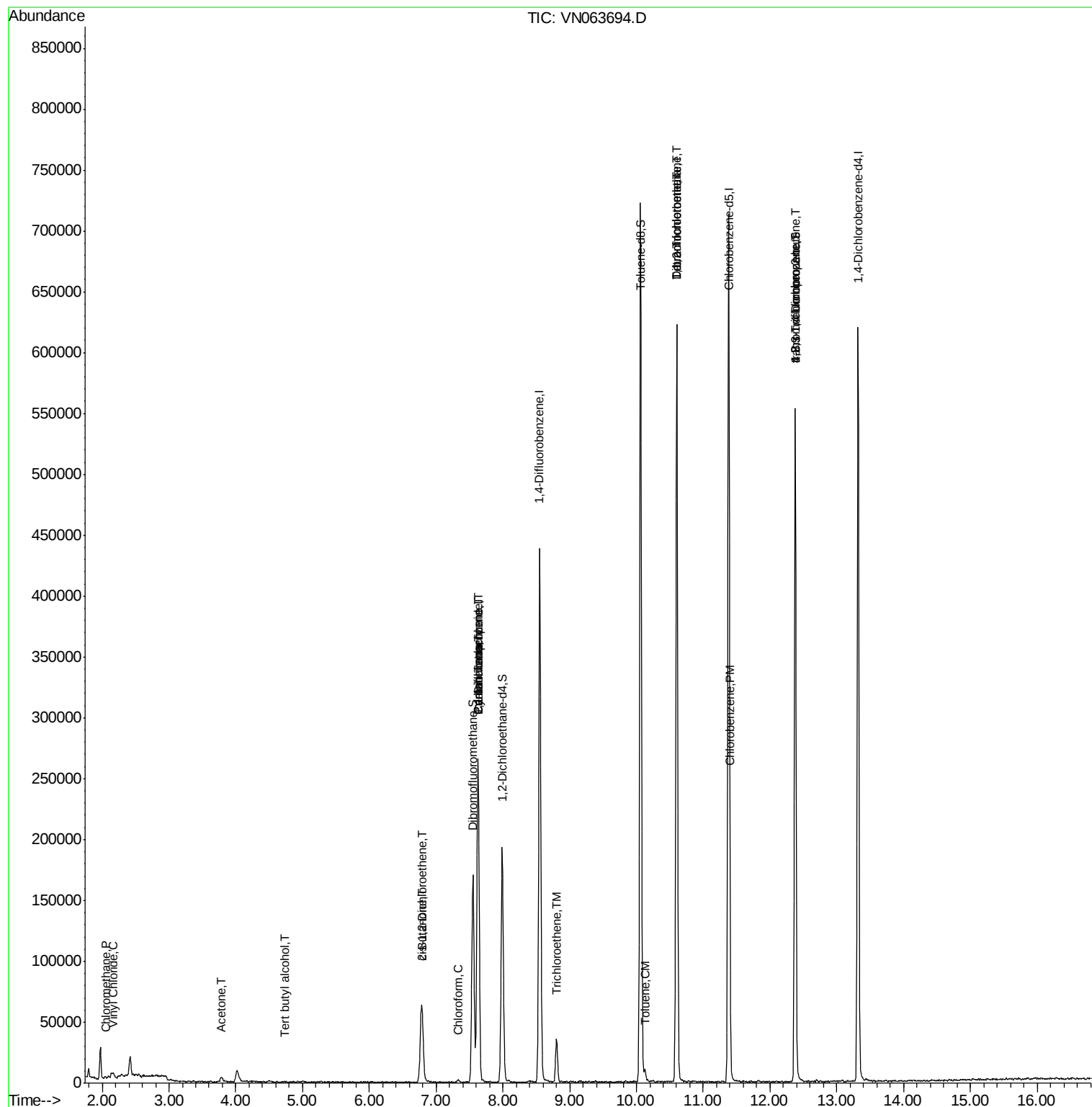
						Qvalue
3) Chloromethane	2.04	50	1102	0.374	ug/l #	85
4) Vinyl Chloride	2.17	62	2185	0.838	ug/l	98
11) Tert butyl alcohol	4.73	59	184	0.397	ug/l #	72
16) Acetone	3.78	43	7030	6.541	ug/l	95
25) 2-Butanone	6.79	43	530	0.321	ug/l #	67
27) cis-1,2-Dichloroethene	6.79	96	36682	13.195	ug/l	91
30) Chloroform	7.33	83	1128	0.230	ug/l	92
31) Cyclohexane	7.63	56	6028	1.305	ug/l #	48
36) 1,1-Dichloropropene	7.63	75	18473	4.792	ug/l #	51
38) Carbon Tetrachloride	7.62	117	21765	5.531	ug/l #	17
44) Trichloroethene	8.80	130	11678	4.375	ug/l	81
52) Toluene	10.13	92	3198	0.483	ug/l	99
55) 1,1,2-Trichloroethane	10.60	97	1465	0.557	ug/l #	25
60) Dibromochloromethane	10.60	129	126783	42.701	ug/l #	11
64) Tetrachloroethene	10.60	164	127694	50.641	ug/l	98
65) Chlorobenzene	11.41	112	4407	0.561	ug/l #	84
76) 1,2,3-Trichloropropane	12.38	75	102039	27.253	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	102039	74.717	ug/l #	7

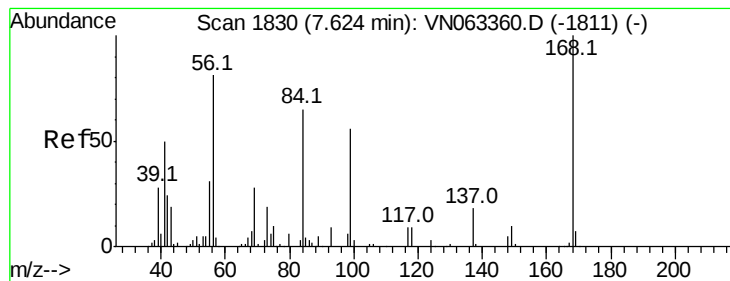
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampled :

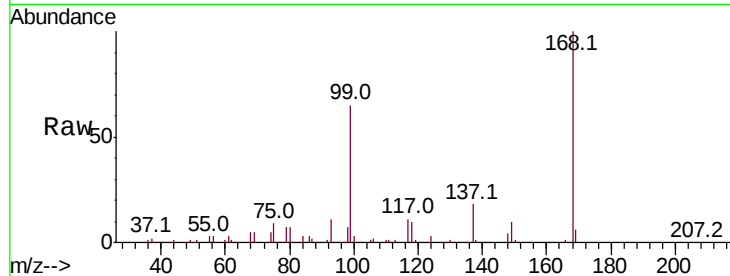
MW3

Tot Ion:168 Resp: 196450

Ion Ratio Lower Upper

168 100

99 64.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

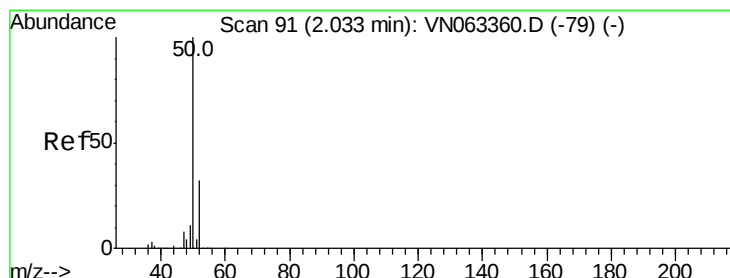
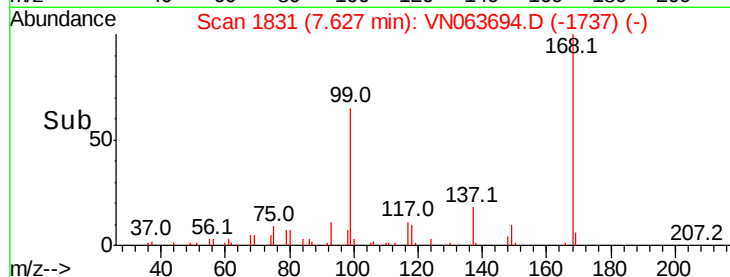
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.374 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063694.D

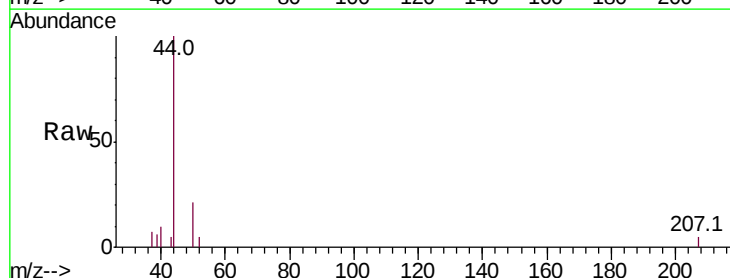
Acq: 25 Sep 2020 21:30

Tgt Ion: 50 Resp: 1102

Ion Ratio Lower Upper

50 100

52 24.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

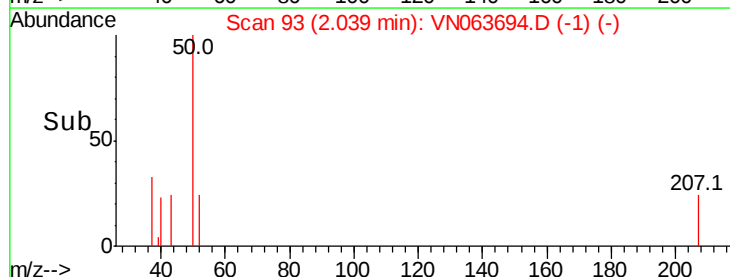
600

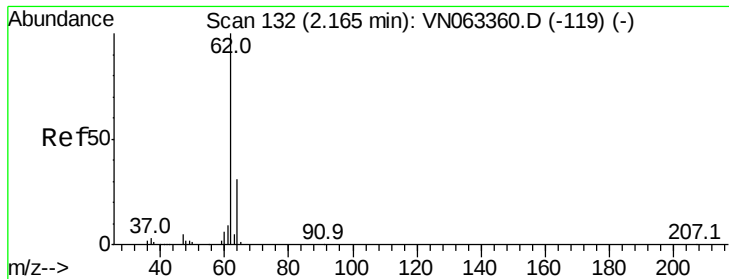
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#4

Vinyl Chloride

Concen: 0.838 ug/l

RT: 2.17 min Scan# 133

Delta R.T. 0.00 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampled :

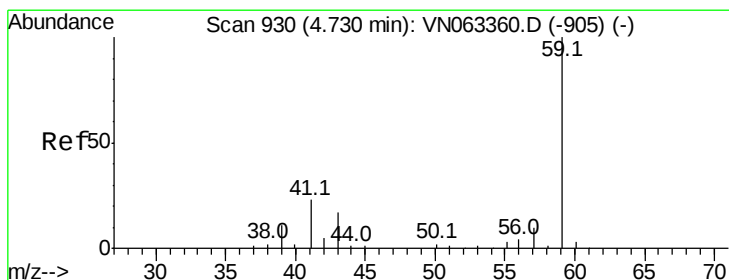
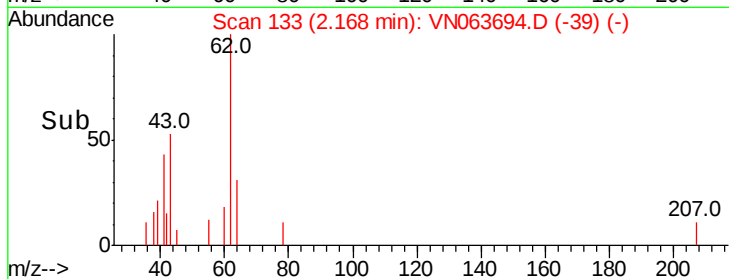
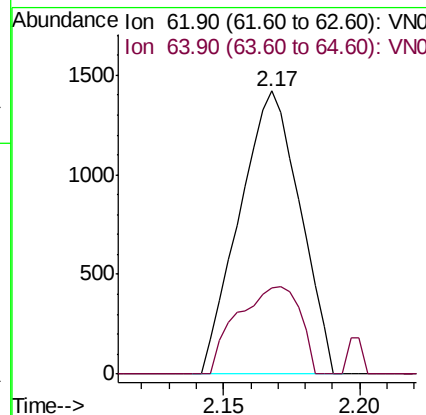
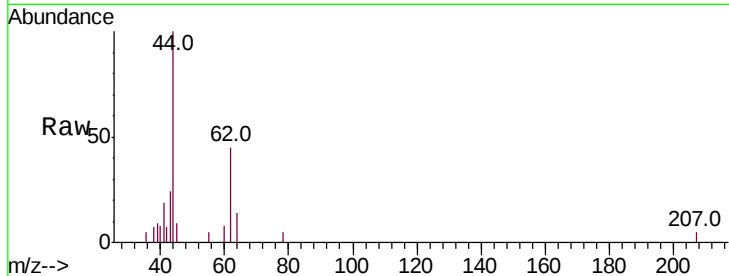
MW3

Tot Ion: 62 Resp: 2185

Ion Ratio Lower Upper

62 100

64 30.6 25.1 37.7



#11

Tert butyl alcohol

Concen: 0.397 ug/l

RT: 4.73 min Scan# 929

Delta R.T. -0.00 min

Lab File: VN063694.D

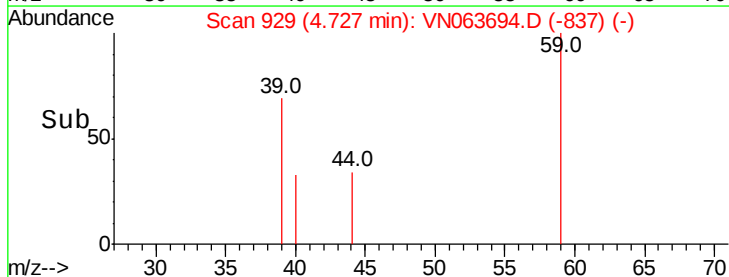
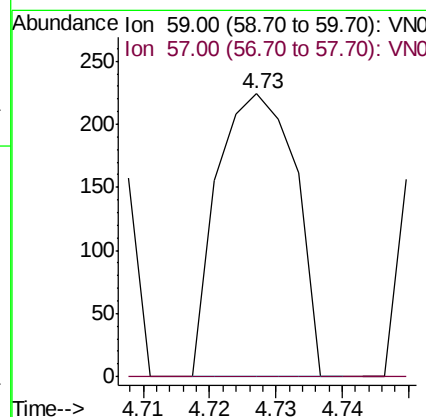
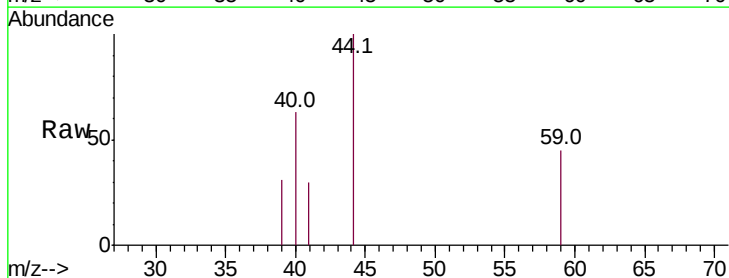
Acq: 25 Sep 2020 21:30

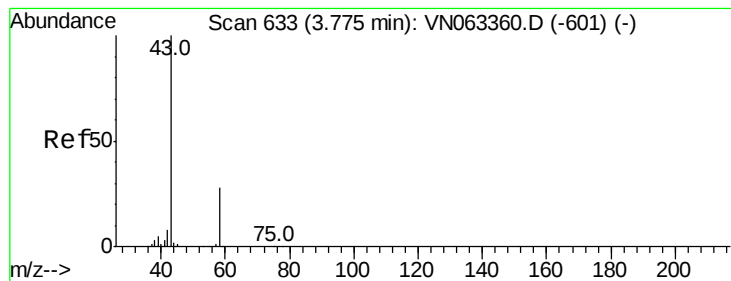
Tgt Ion: 59 Resp: 184

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#16

Acetone

Concen: 6.541 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampled :

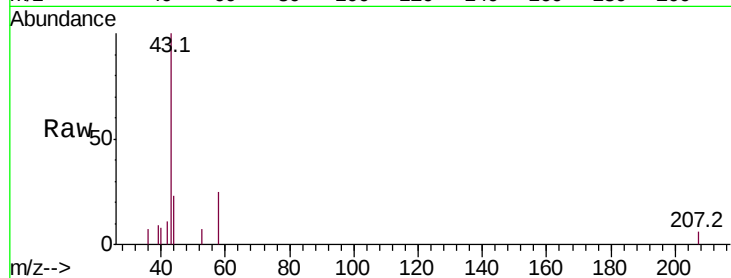
MW3

Tot Ion: 43 Resp: 7030

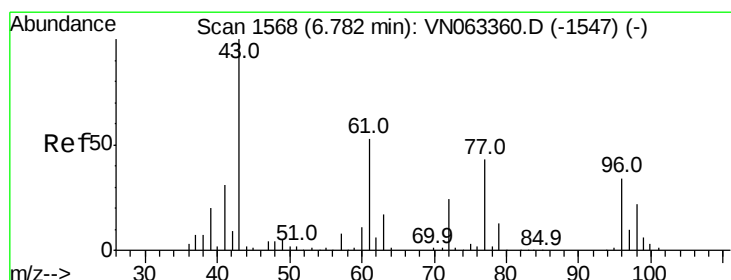
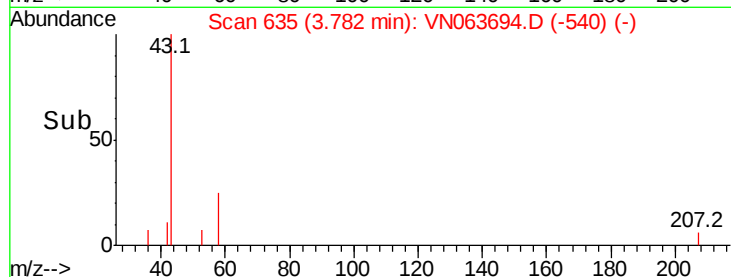
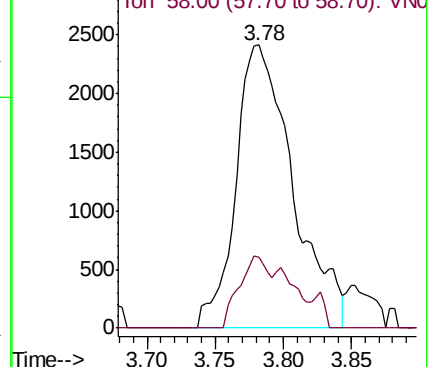
Ion Ratio Lower Upper

43 100

58 25.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)



#25

2-Butanone

Concen: 0.321 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063694.D

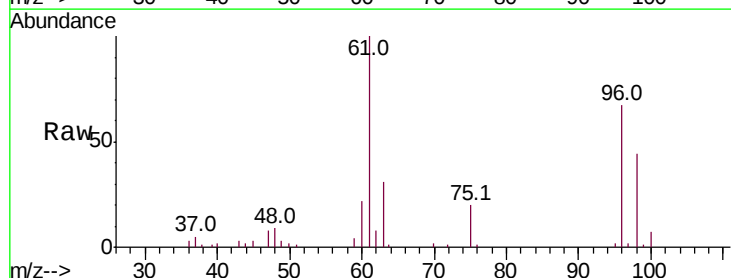
Acq: 25 Sep 2020 21:30

Tgt Ion: 43 Resp: 530

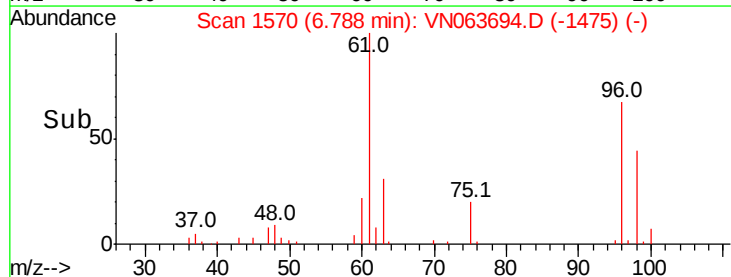
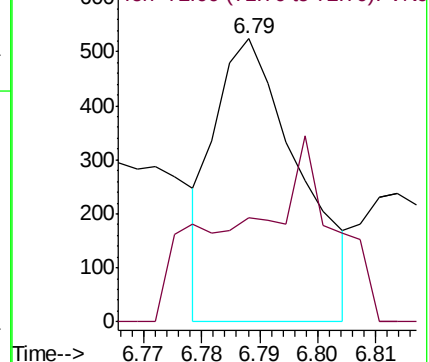
Ion Ratio Lower Upper

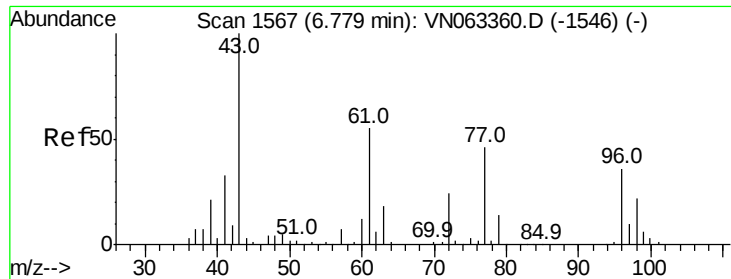
43 100

72 7.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1547) (-)





#27

cis-1,2-Dichloroethene

Concen: 13.195 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampleId :

MW3

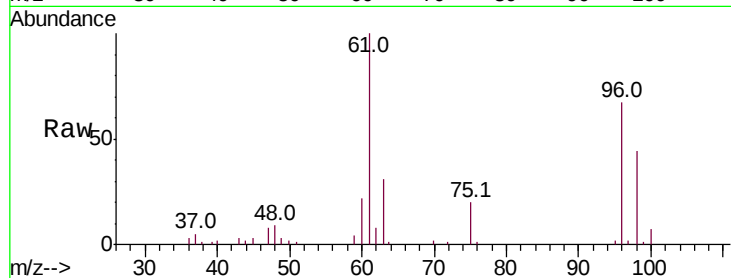
Tot Ion: 96 Resp: 36682

Ion Ratio Lower Upper

96 100

61 144.1 0.0 319.6

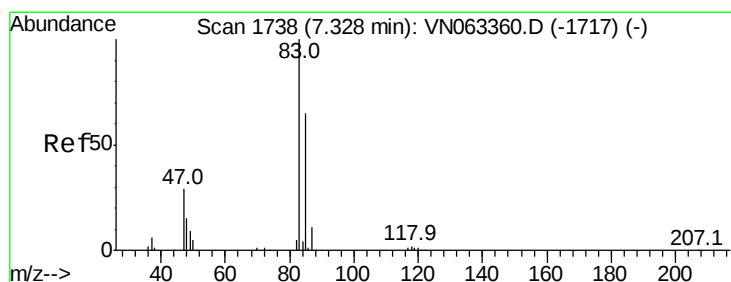
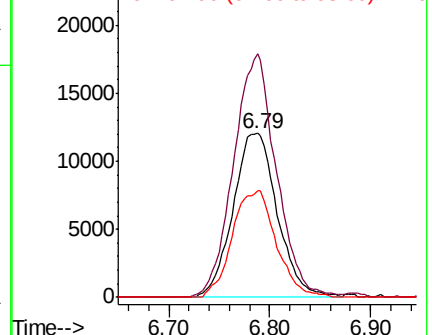
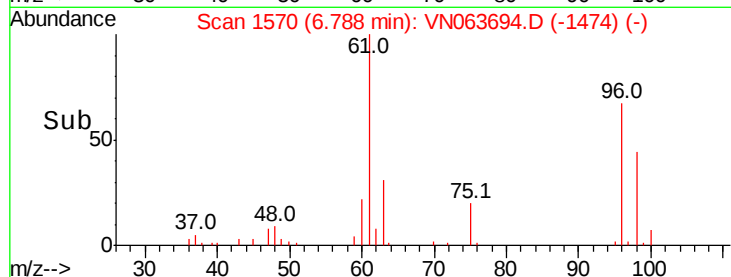
98 64.6 0.0 127.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#30

Chloroform

Concen: 0.230 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN063694.D

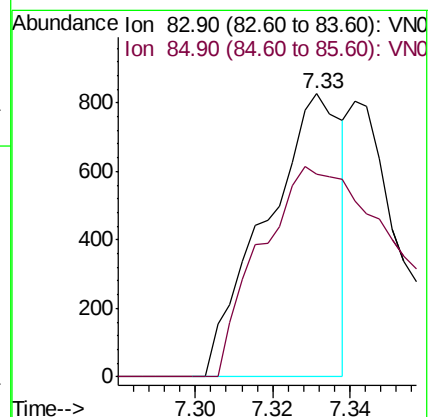
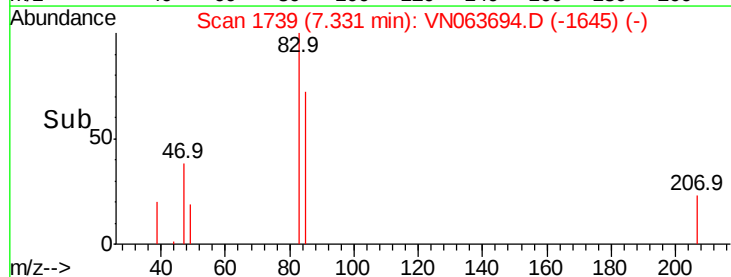
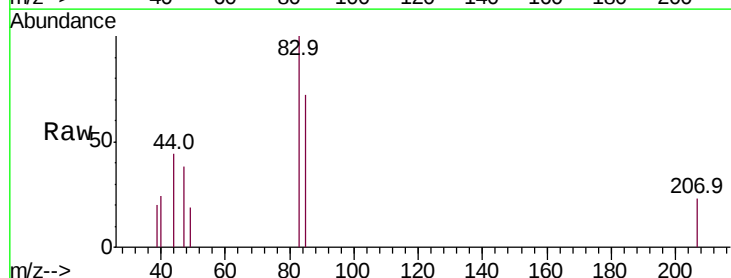
Acq: 25 Sep 2020 21:30

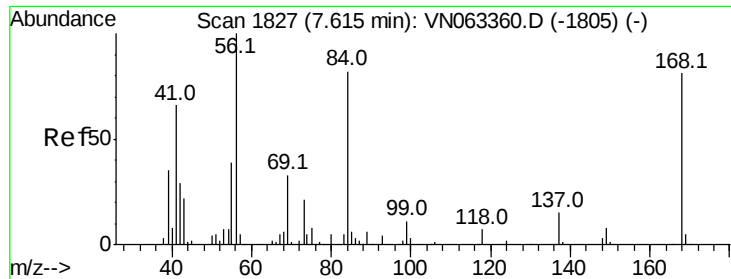
Tgt Ion: 83 Resp: 1128

Ion Ratio Lower Upper

83 100

85 71.6 52.1 78.1

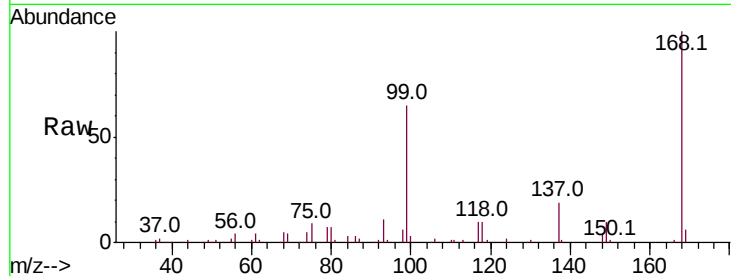




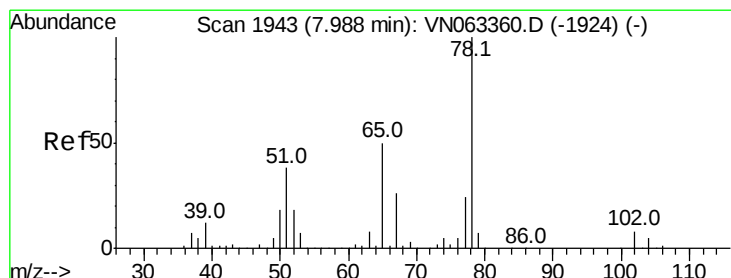
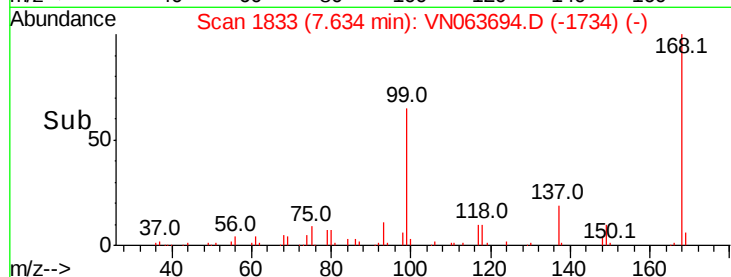
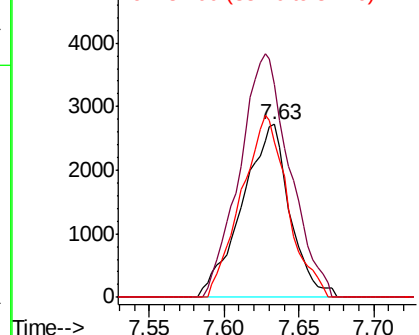
#31
Cyclohexane
Concen: 1.305 ug/l
RT: 7.63 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN063694.D
Acq: 25 Sep 2020 21:30

Instrument :
MSVOA_N
ClientSampled :
MW3

Tot Ion: 56 Resp: 6028
Ion Ratio Lower Upper
56 100
69 123.1 26.1 39.1#
84 89.8 65.4 98.2

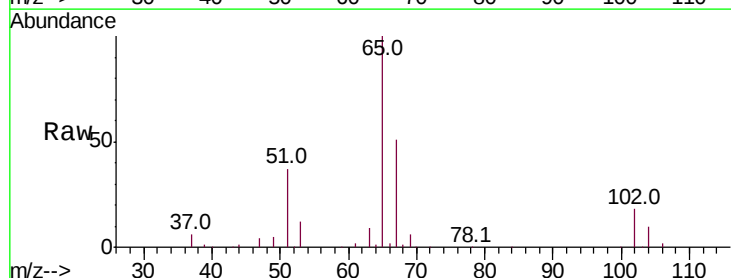


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

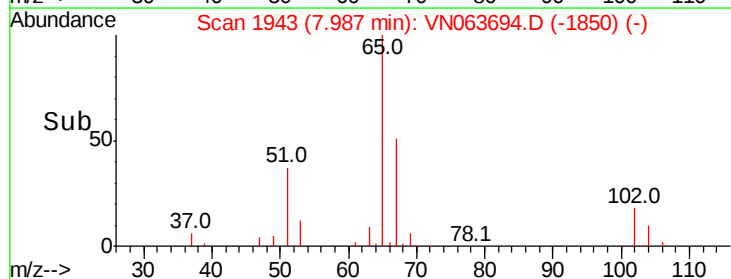
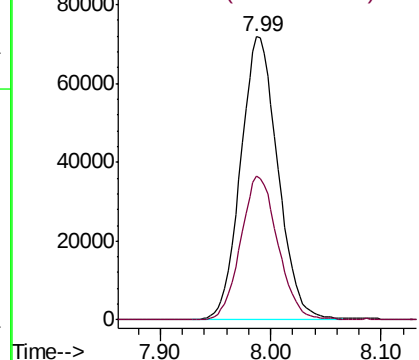


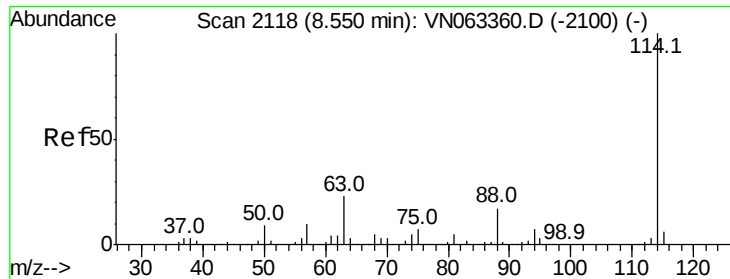
#33
1,2-Dichloroethane-d4
Concen: 50.199 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063694.D
Acq: 25 Sep 2020 21:30

Tgt Ion: 65 Resp: 167871
Ion Ratio Lower Upper
65 100
67 50.7 0.0 104.2



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

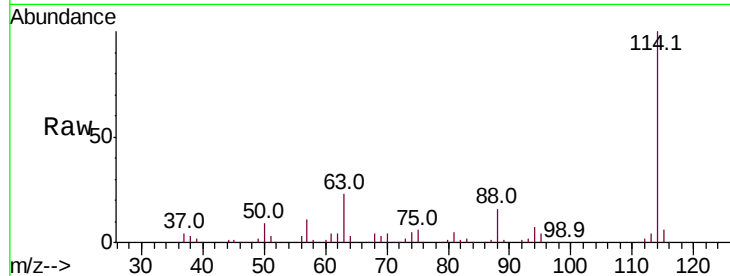




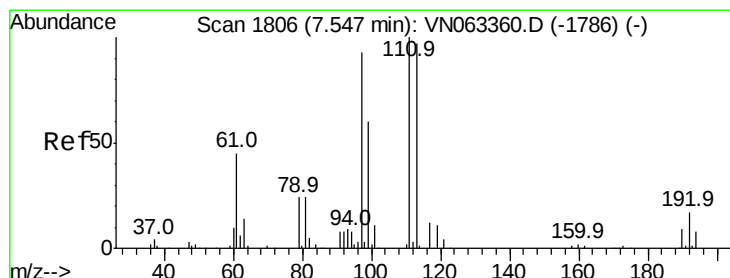
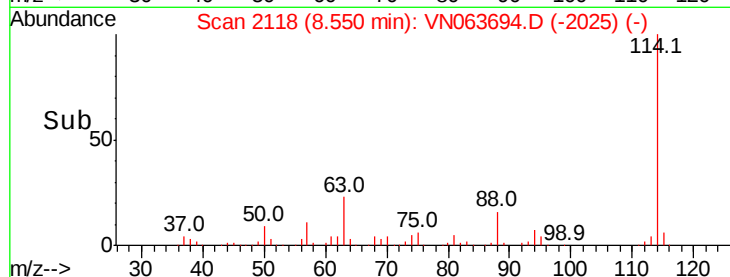
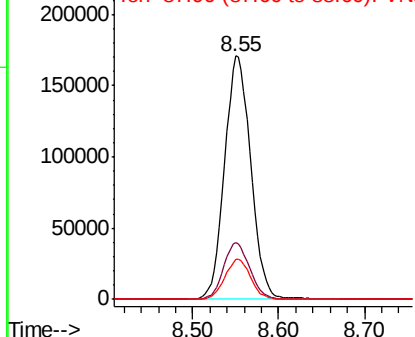
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063694.D
 Acq: 25 Sep 2020 21:30

Instrument :
 MSVOA_N
 ClientSampled :
 MW3

Tot Ion:114 Resp: 361864
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 46.4
 88 16.2 0.0 33.2

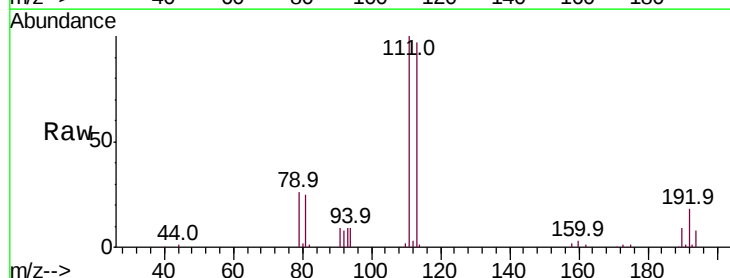


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

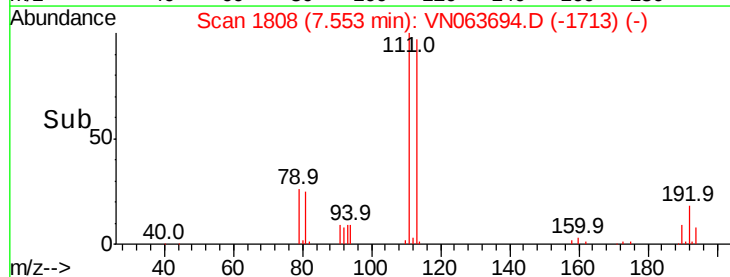
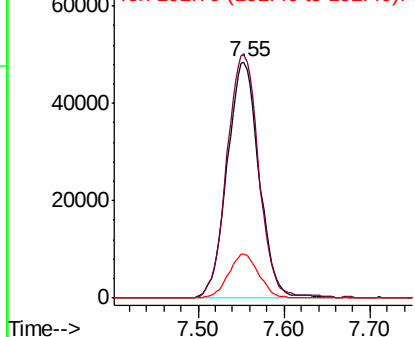


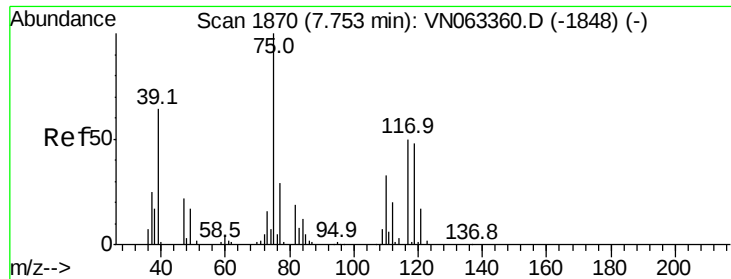
#35
 Dibromofluoromethane
 Concen: 49.876 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063694.D
 Acq: 25 Sep 2020 21:30

Tgt Ion:113 Resp: 124944
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.9 124.3
 192 17.7 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: 4.792 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampleId :

MW3

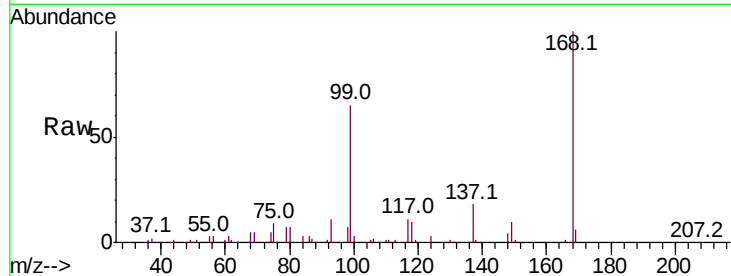
Tot Ion: 75 Resp: 18473

Ion Ratio Lower Upper

75 100

110 8.8 16.5 49.5#

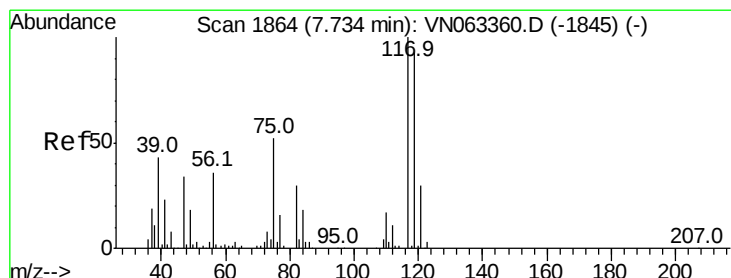
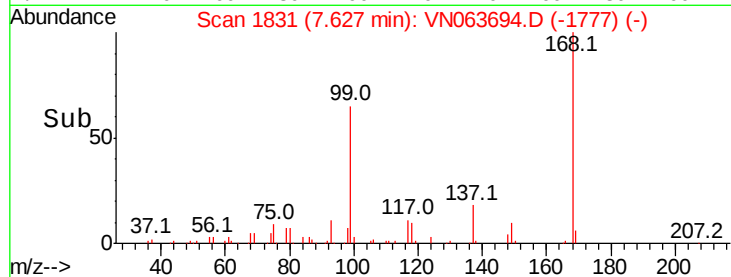
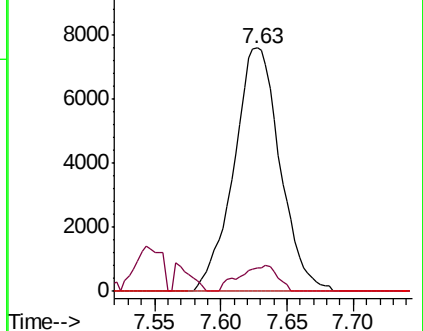
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.531 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

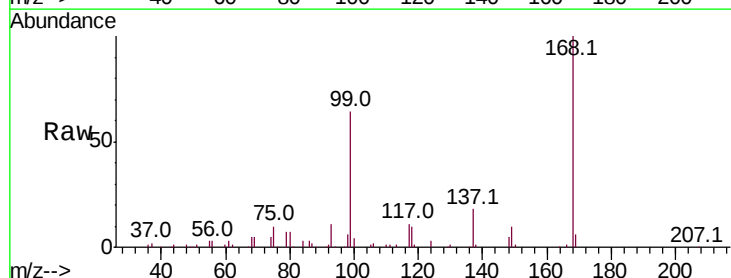
Tgt Ion: 117 Resp: 21765

Ion Ratio Lower Upper

117 100

119 4.6 74.5 111.7#

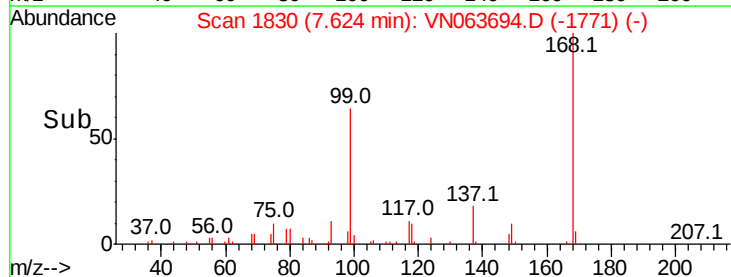
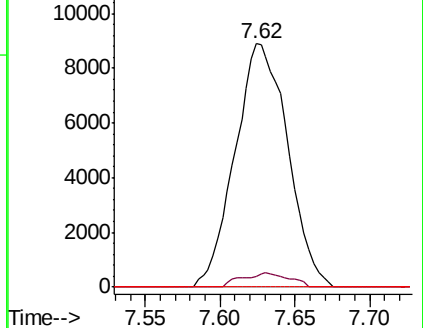
121 0.0 24.1 36.1#

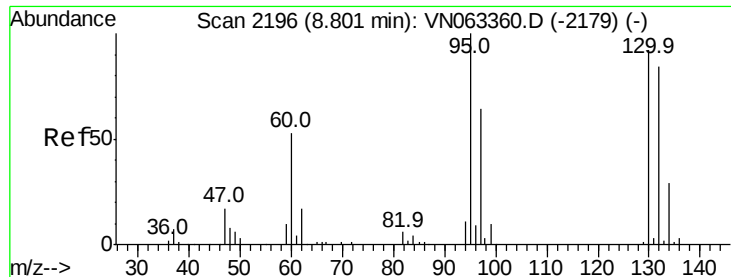


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 4.375 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampleId :

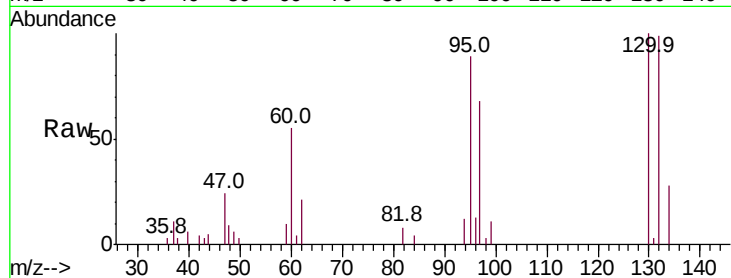
MW3

Tot Ion:130 Resp: 11678

Ion Ratio Lower Upper

130 100

95 89.2 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063360.D (-2179) (-)

8.80

6000

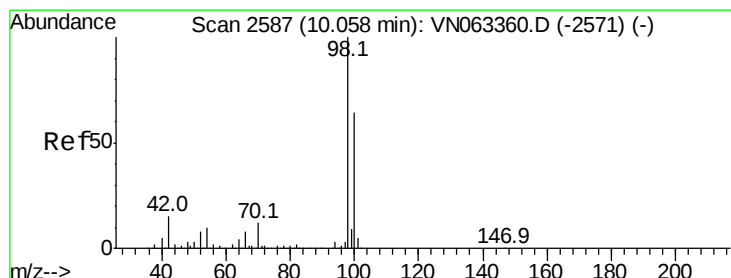
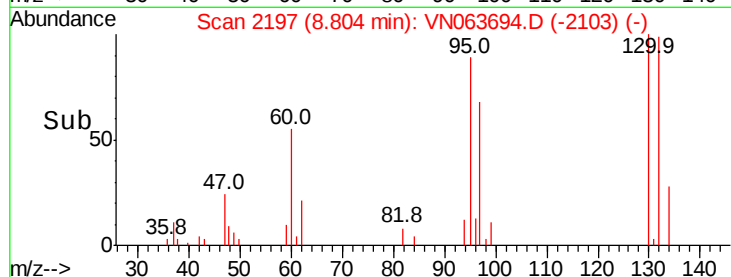
4000

2000

0

8.75 8.80 8.85

Time-->



#50

Toluene-d8

Concen: 49.480 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063694.D

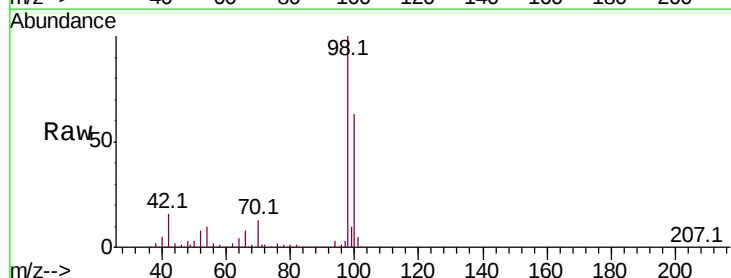
Acq: 25 Sep 2020 21:30

Tgt Ion: 98 Resp: 466087

Ion Ratio Lower Upper

98 100

100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)

10.06

300000

250000

200000

150000

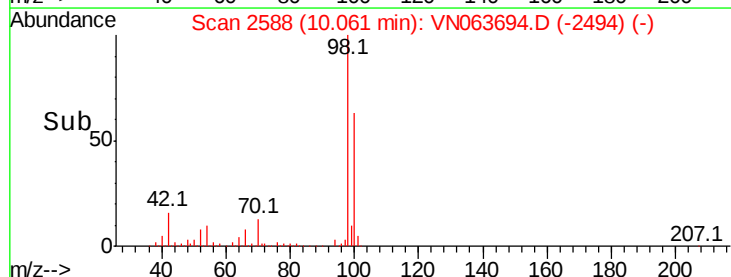
100000

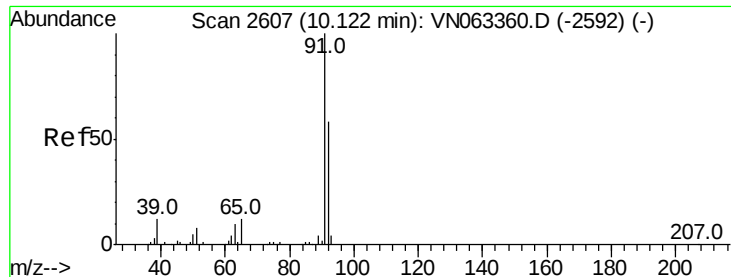
50000

0

10.00 10.10 10.20

Time-->





#52

Toluene

Concen: 0.483 ug/l

RT: 10.13 min Scan# 2609

Delta R.T. 0.01 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampled :

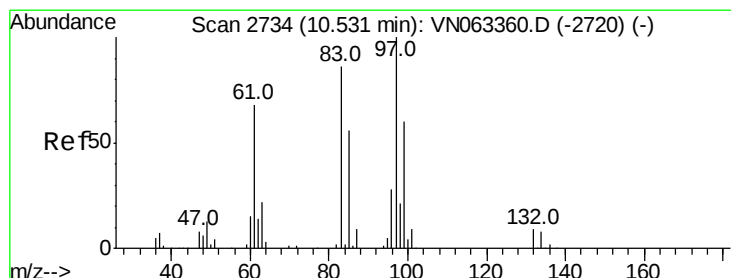
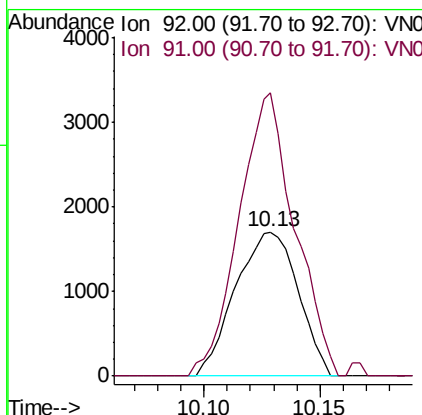
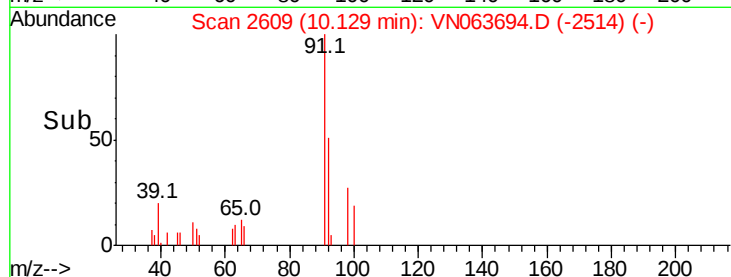
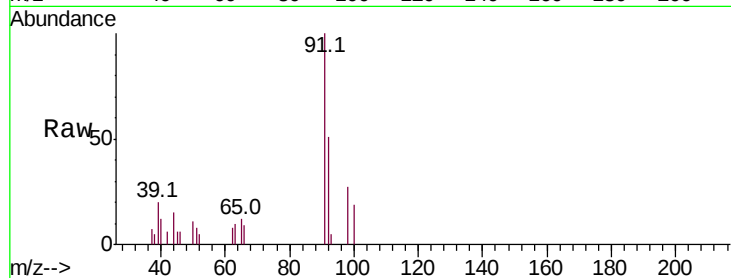
MW3

Tot Ion: 92 Resp: 3198

Ion Ratio Lower Upper

92 100

91 175.4 139.7 209.5



#55

1,1,2-Trichloroethane

Concen: 0.557 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.07 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Tgt Ion: 97 Resp: 1465

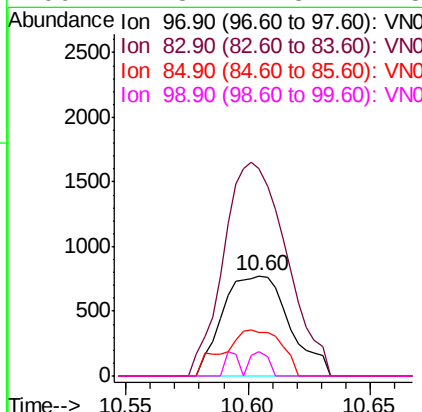
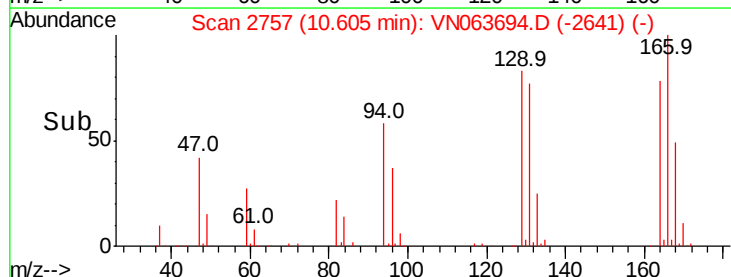
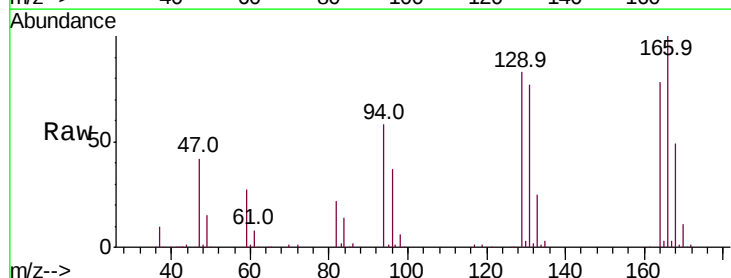
Ion Ratio Lower Upper

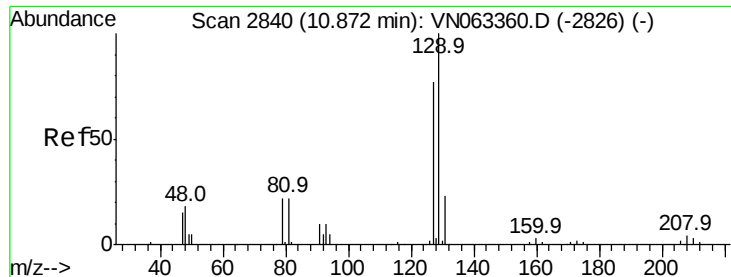
97 100

83 207.0 68.9 103.3#

85 43.5 44.8 67.2#

99 24.3 47.8 71.8#





#60

Dibromochloromethane

Concen: 42.701 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampleId :

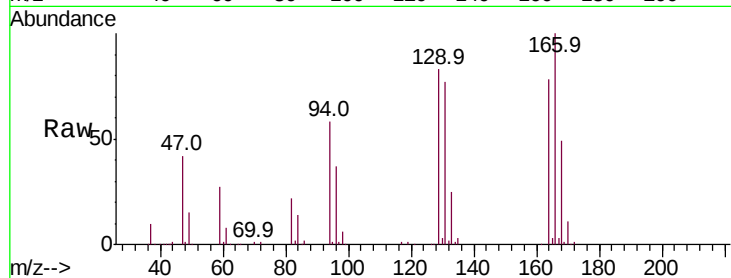
MW3

Tot Ion:129 Resp: 126783

Ion Ratio Lower Upper

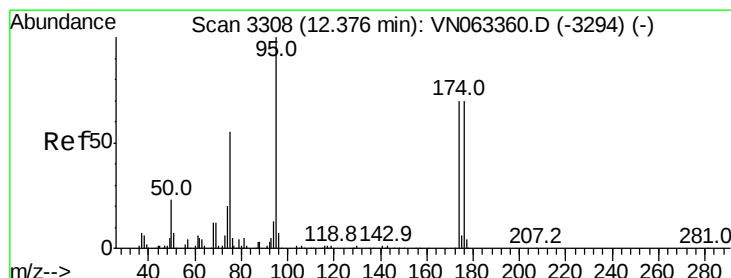
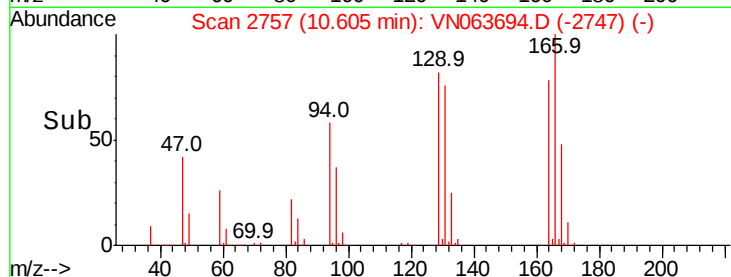
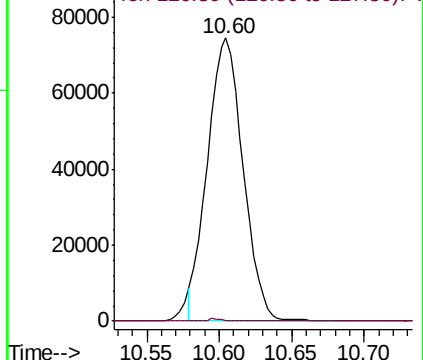
129 100

127 0.3 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 52.407 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

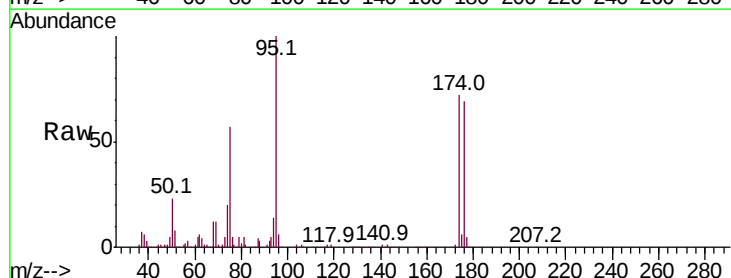
Tgt Ion: 95 Resp: 180966

Ion Ratio Lower Upper

95 100

174 73.2 0.0 140.8

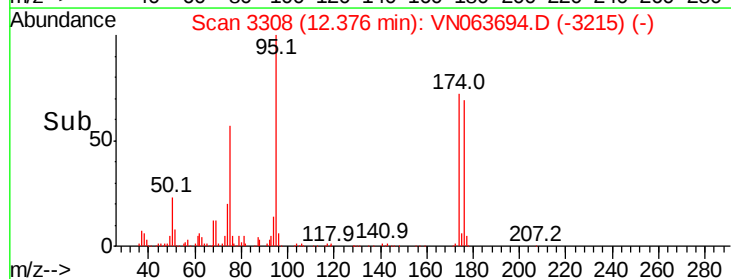
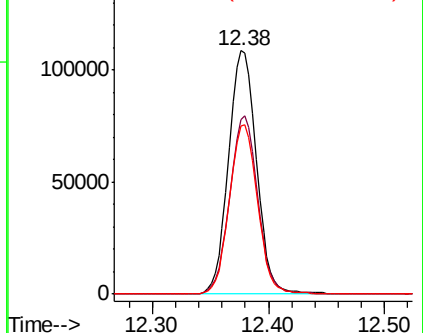
176 69.9 0.0 137.6

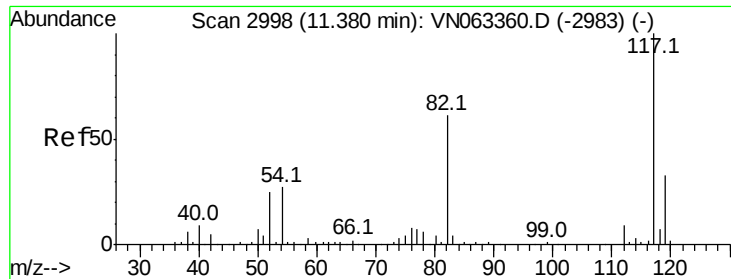


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

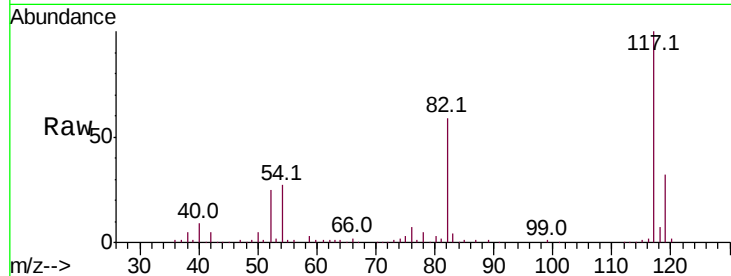




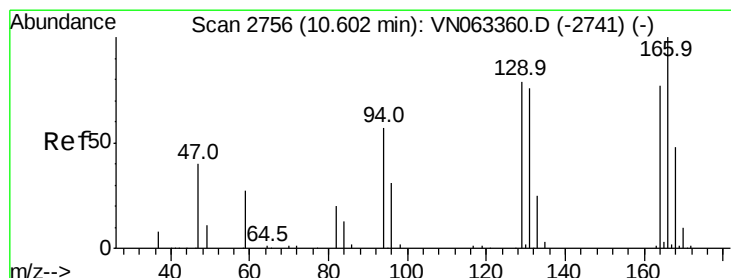
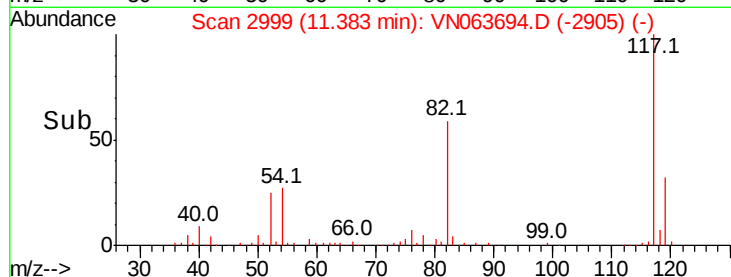
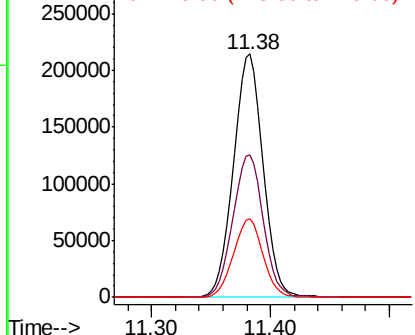
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN063694.D
Acq: 25 Sep 2020 21:30

Instrument :
MSVOA_N
ClientSampleId :
MW3

Tot Ion:117 Resp: 370314
Ion Ratio Lower Upper
117 100
82 58.6 49.2 73.8
119 32.3 26.2 39.4

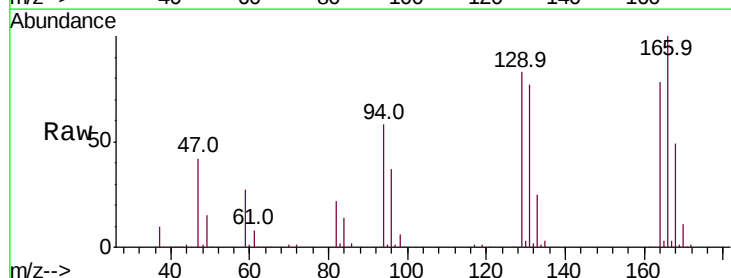


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

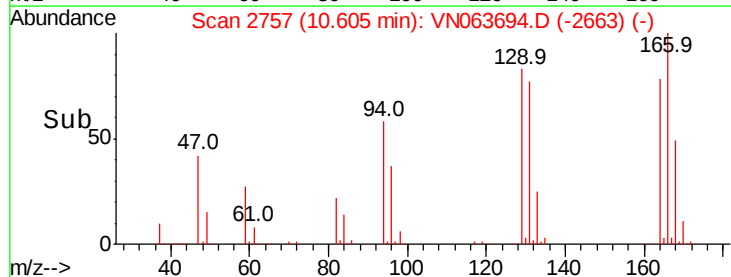
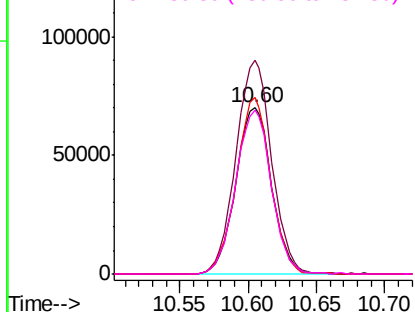


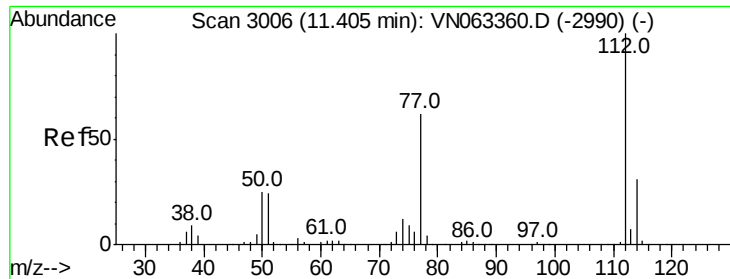
#64
Tetrachloroethene
Concen: 50.641 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063694.D
Acq: 25 Sep 2020 21:30

Tgt Ion:164 Resp: 127694
Ion Ratio Lower Upper
164 100
166 128.8 103.4 155.0
129 106.5 81.8 122.6
131 98.8 78.2 117.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

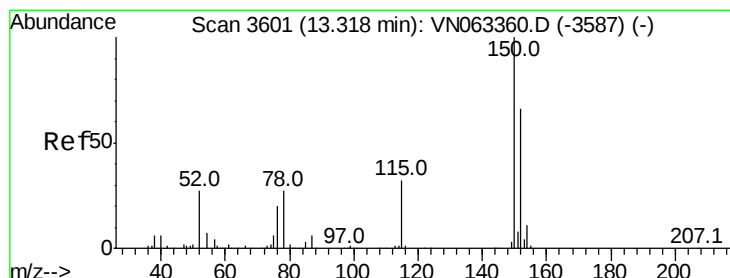
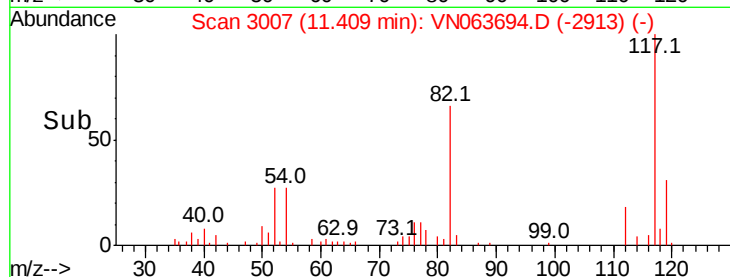
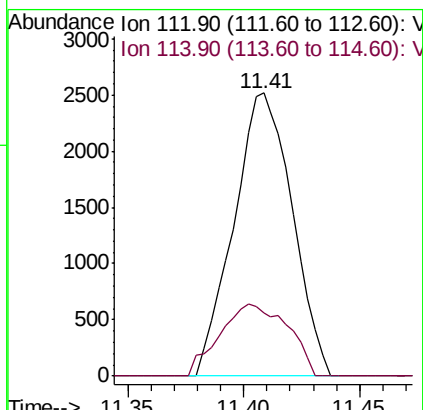
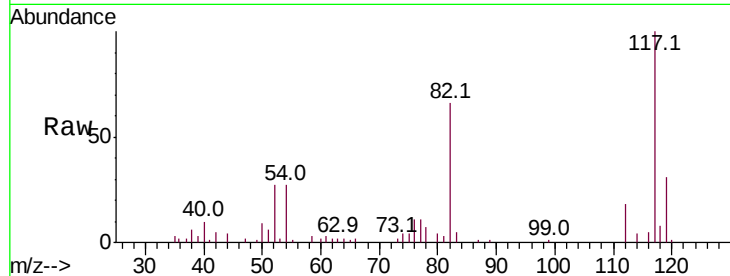




#65
Chlorobenzene
Concen: 0.561 ug/l
RT: 11.41 min Scan# 3007
Delta R.T. 0.00 min
Lab File: VN063694.D
Acq: 25 Sep 2020 21:30

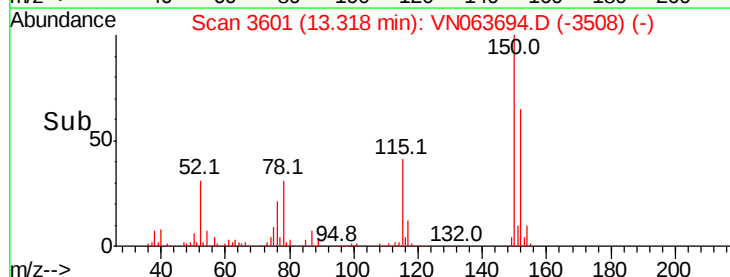
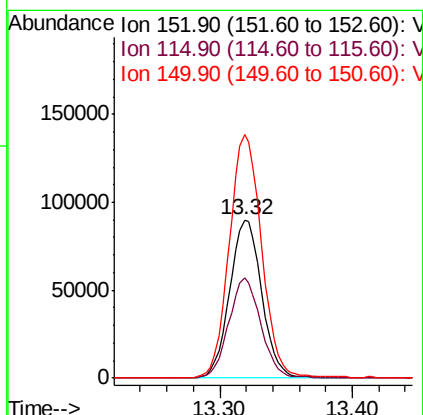
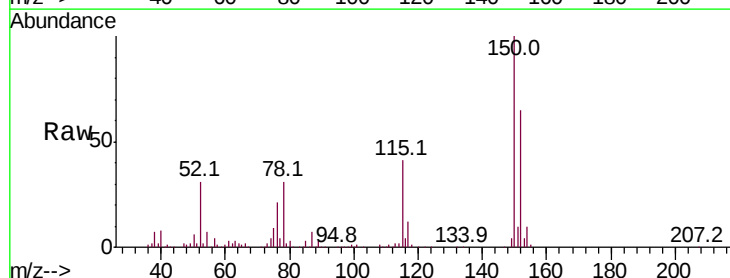
Instrument :
MSVOA_N
ClientSampleId :
MW3

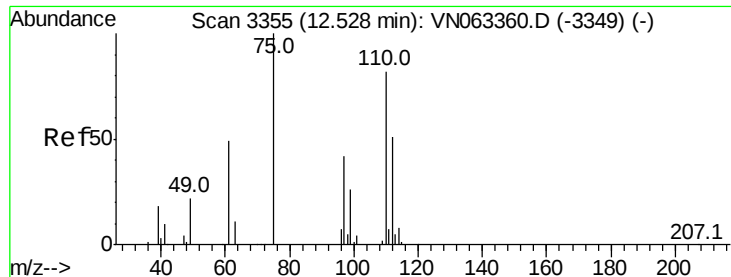
Tot Ion:112 Resp: 4407
Ion Ratio Lower Upper
112 100
114 22.3 25.0 37.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063694.D
Acq: 25 Sep 2020 21:30

Tgt Ion:152 Resp: 151270
Ion Ratio Lower Upper
152 100
115 63.8 32.2 96.6
150 155.7 0.0 343.4





#76

1,2,3-Trichloropropane

Concen: 27.253 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

Instrument :

MSVOA_N

ClientSampled :

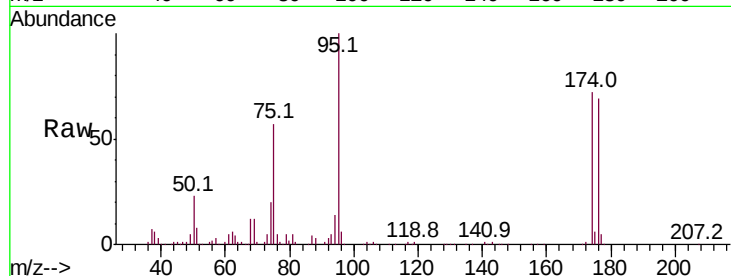
MW3

Tot Ion: 75 Resp: 102039

Ion Ratio Lower Upper

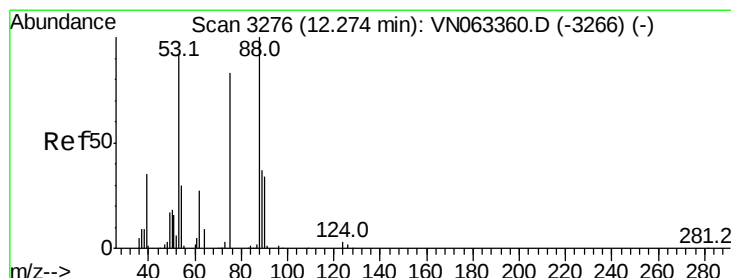
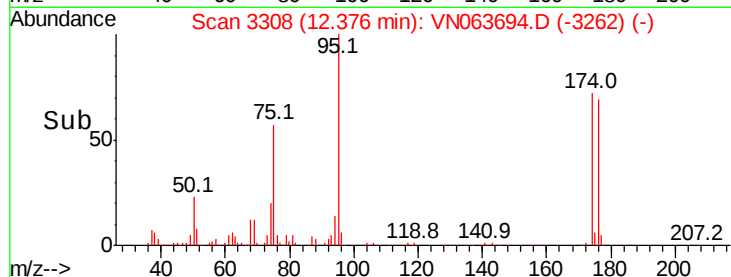
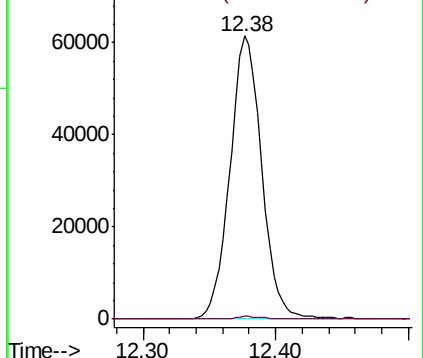
75 100

77 0.8 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: 74.717 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063694.D

Acq: 25 Sep 2020 21:30

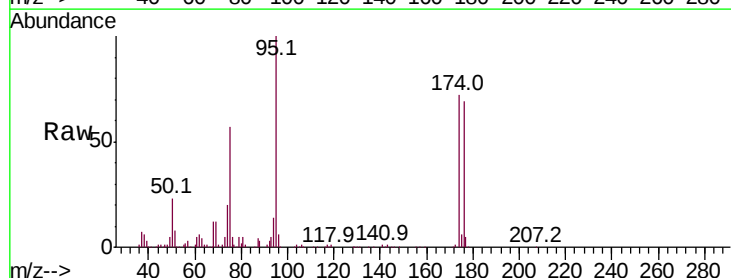
Tgt Ion: 75 Resp: 102039

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

