

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\
 Data File : VN063693.D
 Acq On : 25 Sep 2020 21:06
 Operator : JC/MD
 Sample : L4133-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2

Quant Time: Sep 28 02:05:14 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	197970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	362742	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	378961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	153886	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	171097	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
35) Dibromofluoromethane	7.55	113	124726	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	10.06	98	474154	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	12.38	95	182827	52.82	ug/l	0.00
Spiked Amount			Recovery	=	105.64%	

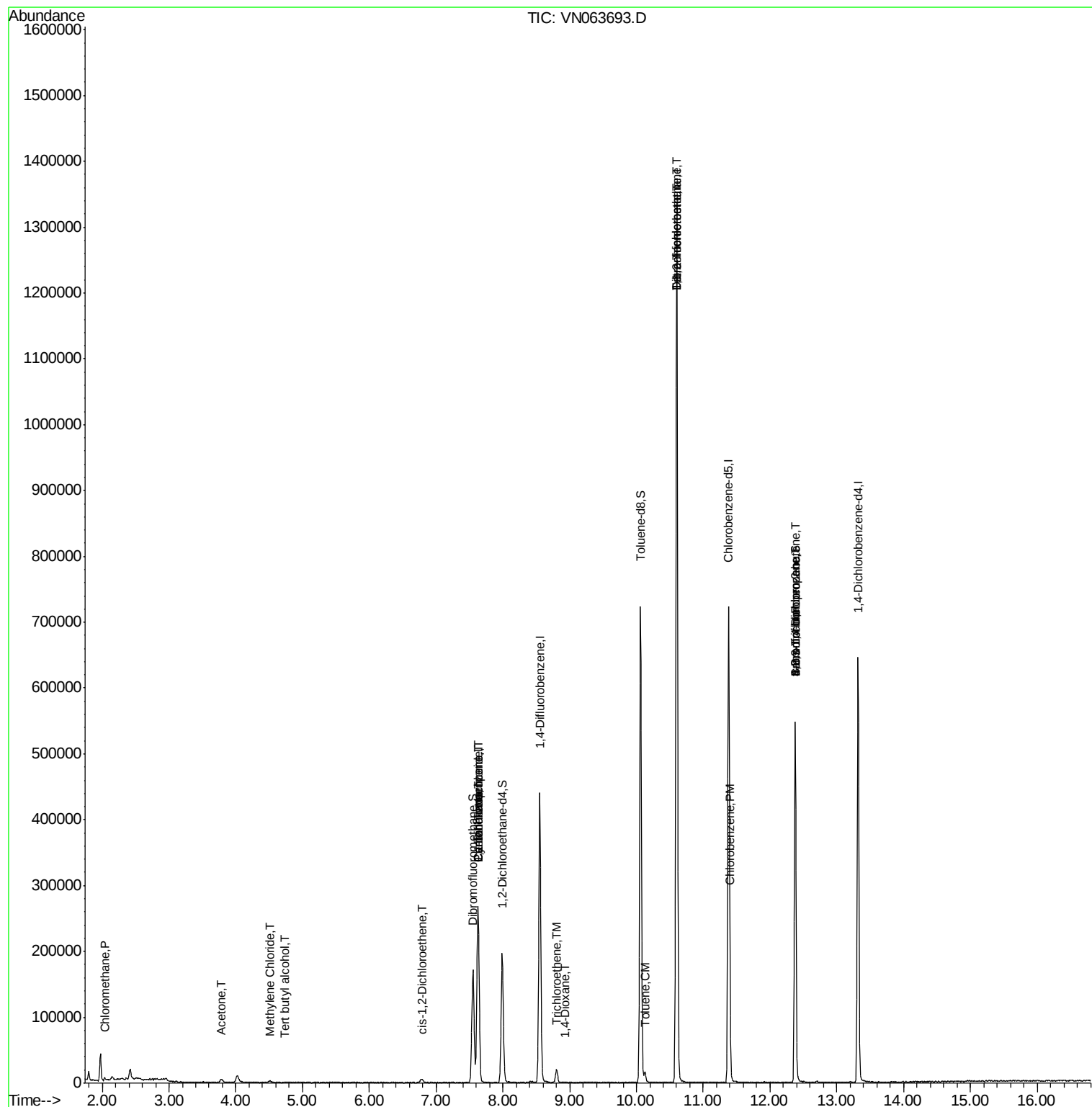
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2486	0.838	ug/l #	78
11) Tert butyl alcohol	4.74	59	136	0.291	ug/l #	72
16) Acetone	3.78	43	8516	7.863	ug/l	98
20) Methylene Chloride	4.50	84	1127	0.411	ug/l #	71
27) cis-1,2-Dichloroethene	6.78	96	2357	0.841	ug/l	40
31) Cyclohexane	7.63	56	5607	1.205	ug/l #	13
36) 1,1-Dichloropropene	7.63	75	18712	4.842	ug/l #	52
38) Carbon Tetrachloride	7.63	117	22034	5.585	ug/l #	17
44) Trichloroethene	8.80	130	6595	2.465	ug/l	97
49) 1,4-Dioxane	8.94	88	61	1.276	ug/l #	1
52) Toluene	10.13	92	5523	0.833	ug/l	96
55) 1,1,2-Trichloroethane	10.60	97	2584	0.981	ug/l #	1
60) Dibromochloromethane	10.60	129	268636	90.258	ug/l #	10
64) Tetrachloroethene	10.60	164	276165	107.022	ug/l	99
65) Chlorobenzene	11.41	112	7893	0.981	ug/l	97
71) Bromoform	12.37	173	534	0.243	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	103800	27.252	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	103800	74.715	ug/l #	7

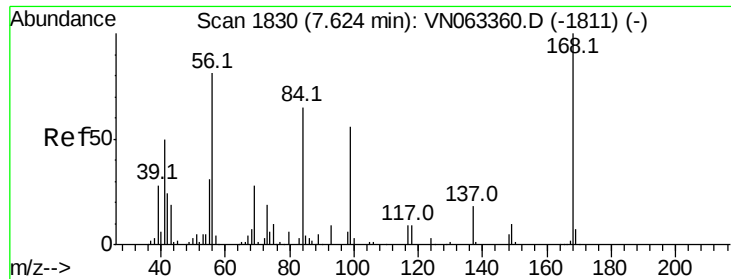
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

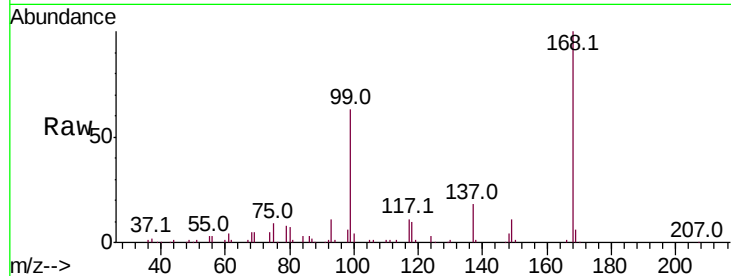
MW2

Tot Ion:168 Resp: 197970

Ion Ratio Lower Upper

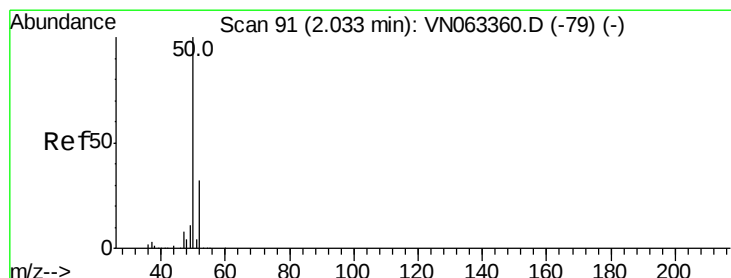
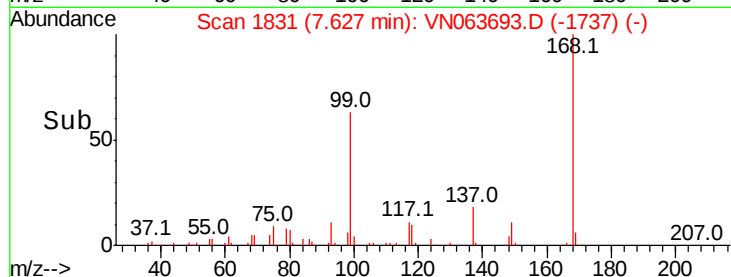
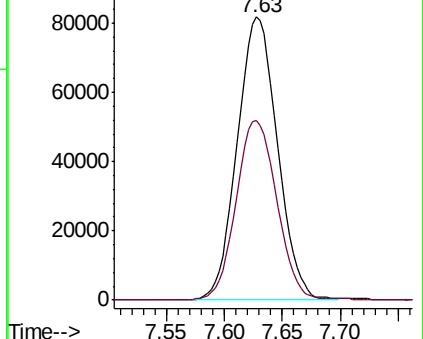
168 100

99 63.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.838 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063693.D

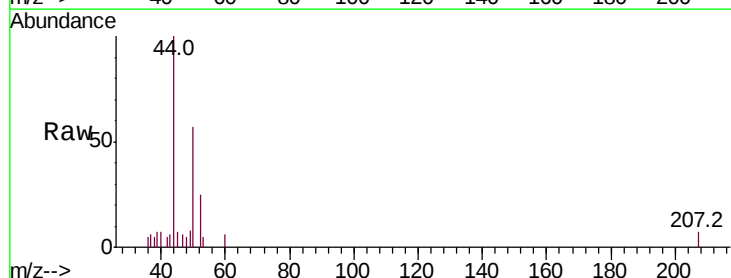
Acq: 25 Sep 2020 21:06

Tgt Ion: 50 Resp: 2486

Ion Ratio Lower Upper

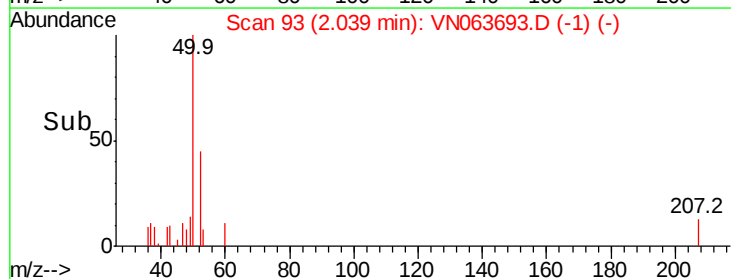
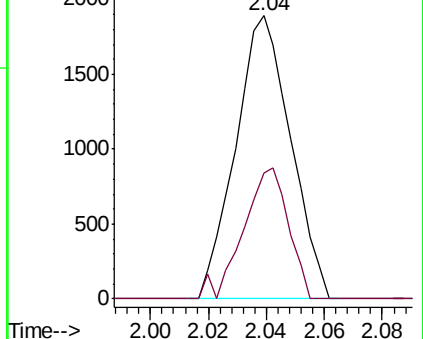
50 100

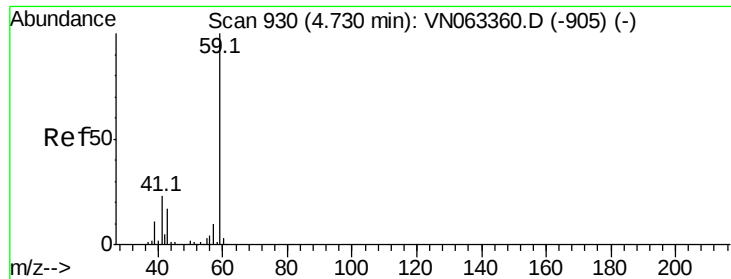
52 44.5 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

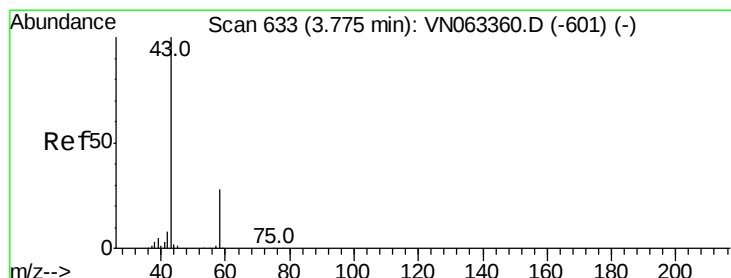
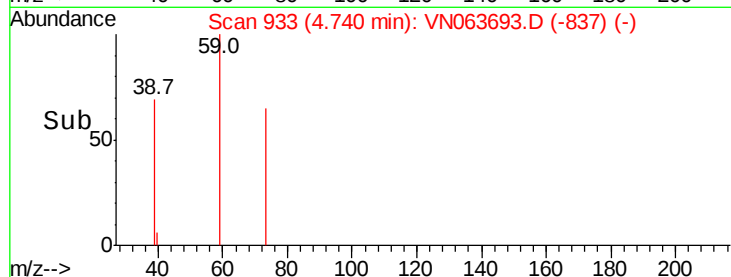
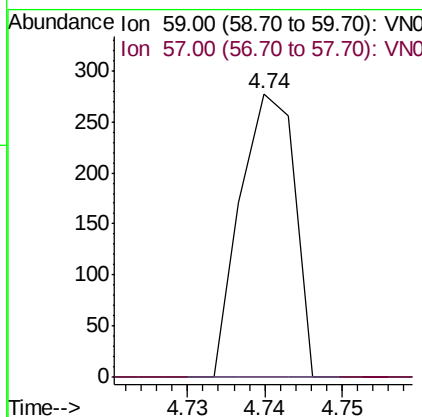
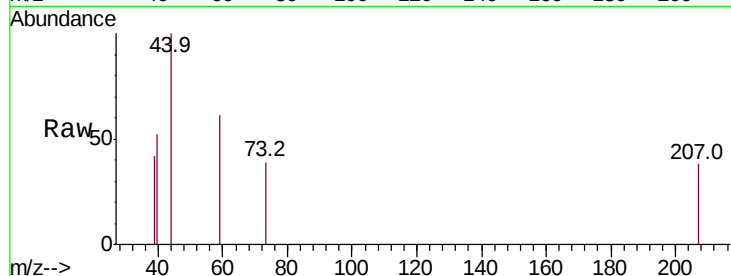




#11
Tert butyl alcohol
Concen: 0.291 ug/l
RT: 4.74 min Scan# 933
Delta R.T. 0.01 min
Lab File: VN063693.D
Acq: 25 Sep 2020 21:06

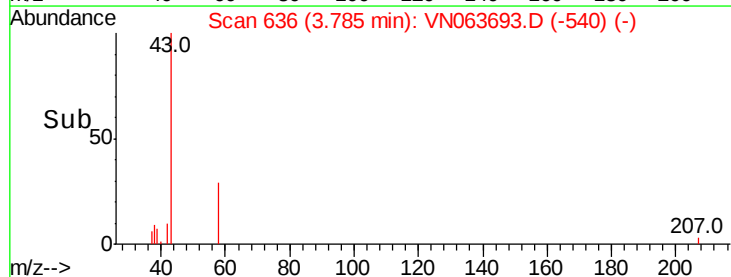
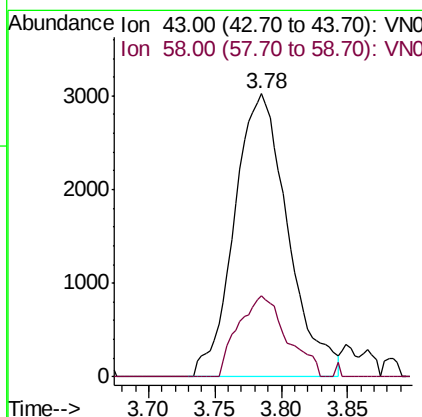
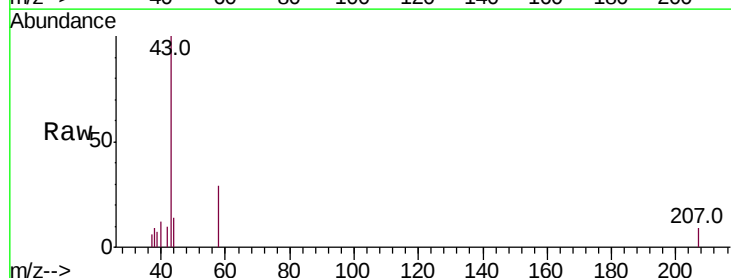
Instrument :
MSVOA_N
ClientSampled :
MW2

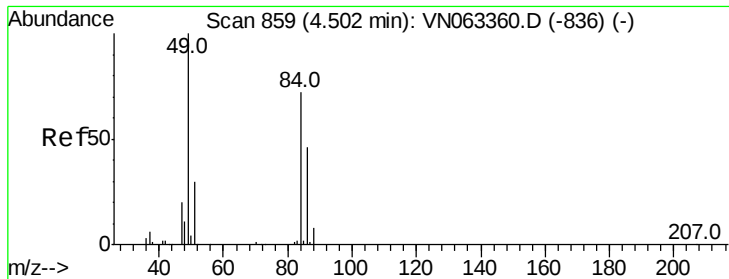
Tot Ion: 59 Resp: 136
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 7.863 ug/l
RT: 3.78 min Scan# 636
Delta R.T. 0.01 min
Lab File: VN063693.D
Acq: 25 Sep 2020 21:06

Tgt Ion: 43 Resp: 8516
Ion Ratio Lower Upper
43 100
58 28.8 22.3 33.5

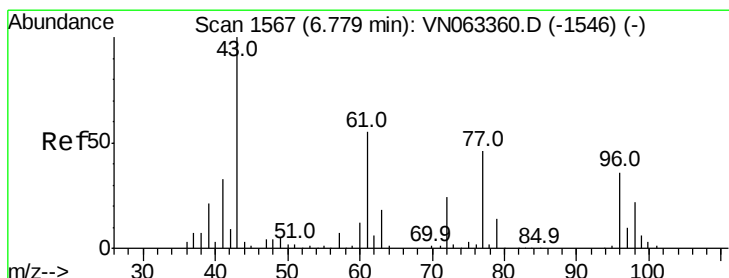
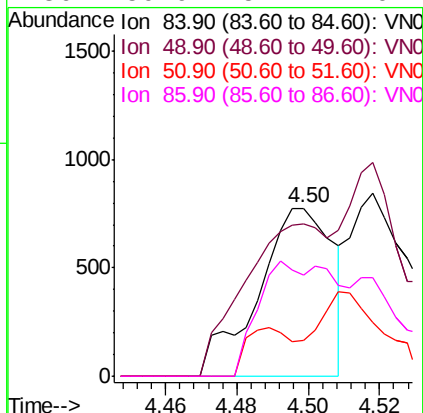
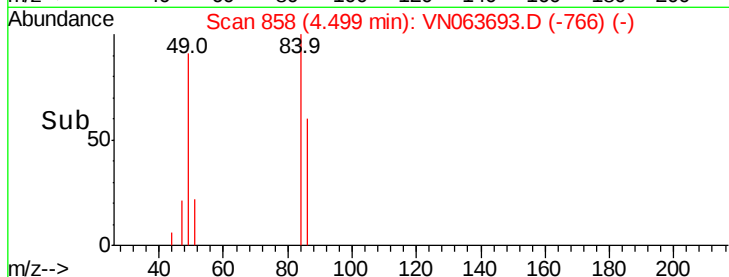
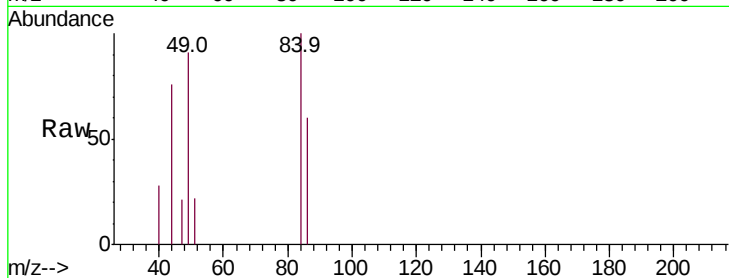




#20
Methvlene Chloride
Concen: 0.411 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN063693.D
Acq: 25 Sep 2020 21:06

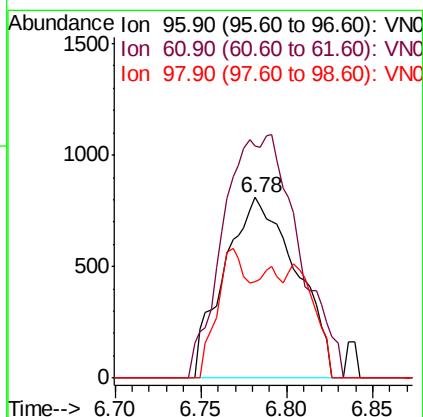
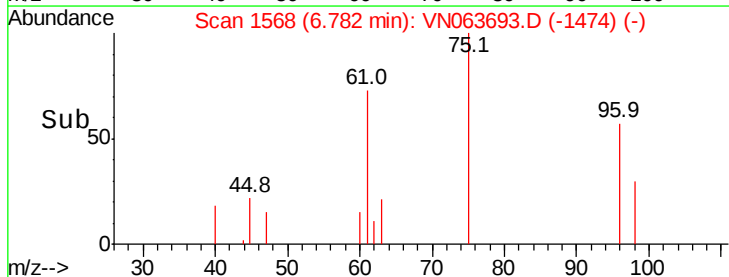
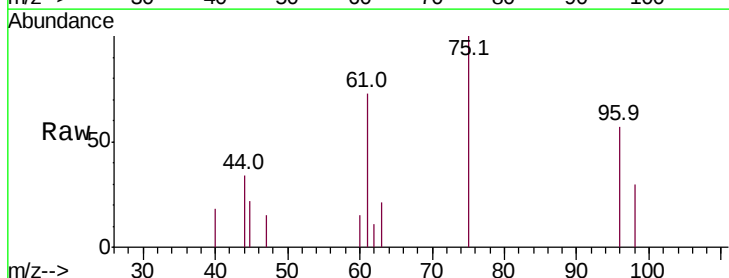
Instrument :
MSVOA_N
ClientSampled :
MW2

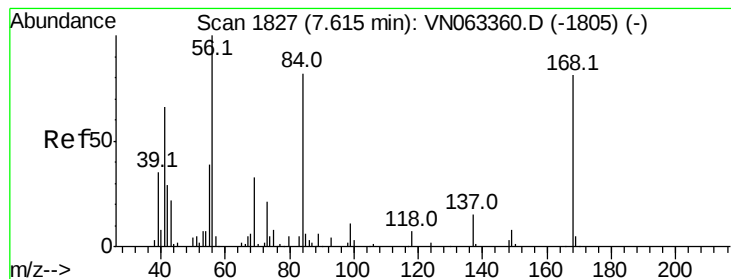
Tot Ion: 84 Resp: 1127
Ion Ratio Lower Upper
84 100
49 91.0 110.7 166.1#
51 21.6 32.9 49.3#
86 59.9 51.1 76.7



#27
cis-1,2-Dichloroethene
Concen: 0.841 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN063693.D
Acq: 25 Sep 2020 21:06

Tgt Ion: 96 Resp: 2357
Ion Ratio Lower Upper
96 100
61 72.8 0.0 319.6
98 29.7 0.0 127.8





#31

Cyclohexane

Concen: 1.205 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

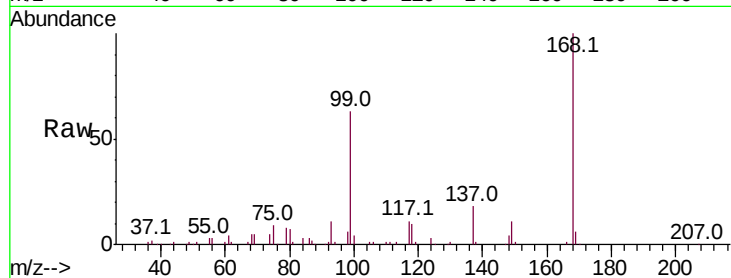
Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

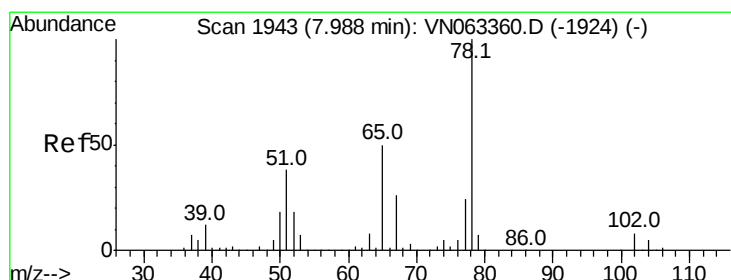
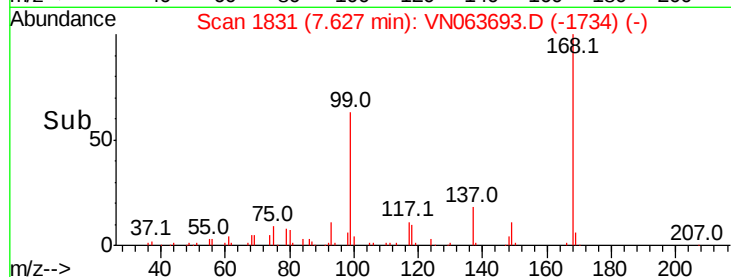
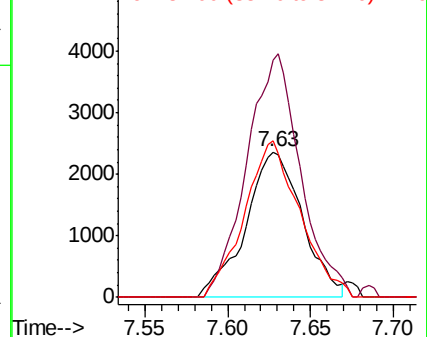
Instrument :
MSVOA_N
ClientSampled :
MW2

Tot Ion: 56 Resp: 5607

Ion	Ratio	Lower	Upper
56	100		
69	163.4	26.1	39.1#
84	107.6	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: 50.771 ug/l

RT: 7.99 min Scan# 1943

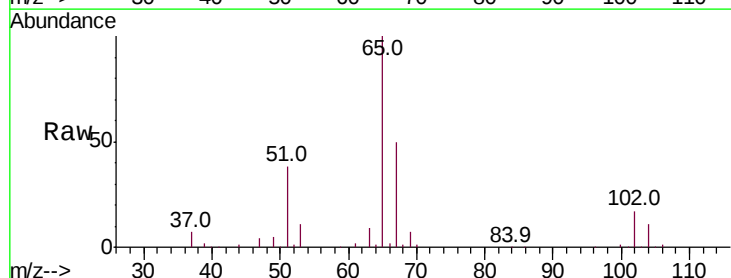
Delta R.T. -0.00 min

Lab File: VN063693.D

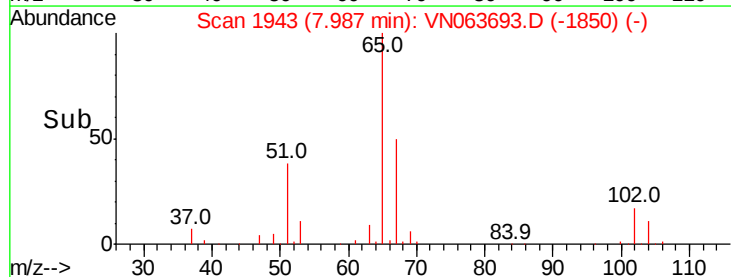
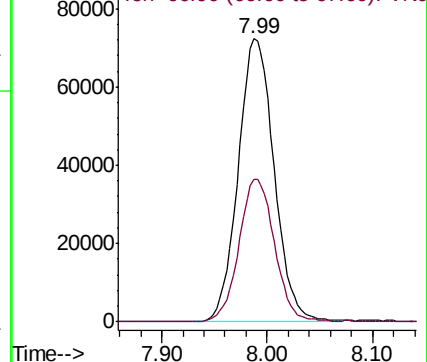
Acq: 25 Sep 2020 21:06

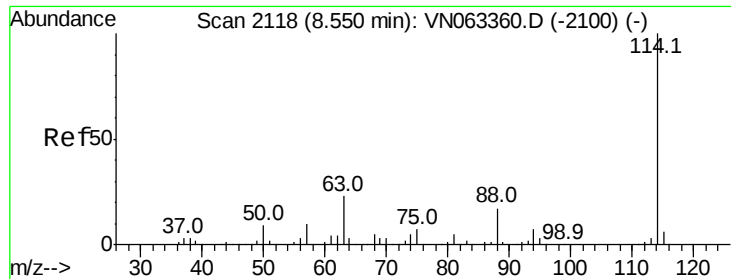
Tgt Ion: 65 Resp: 171097

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	104.2



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

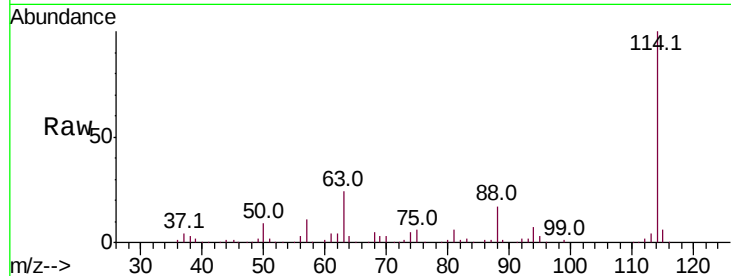




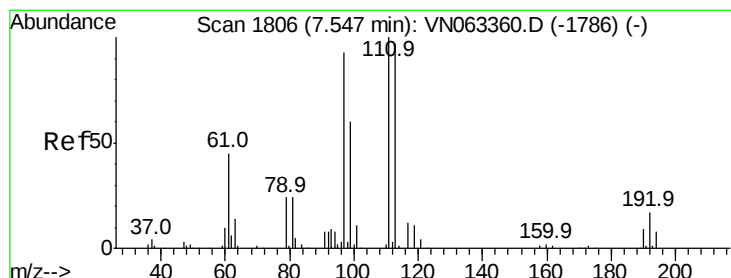
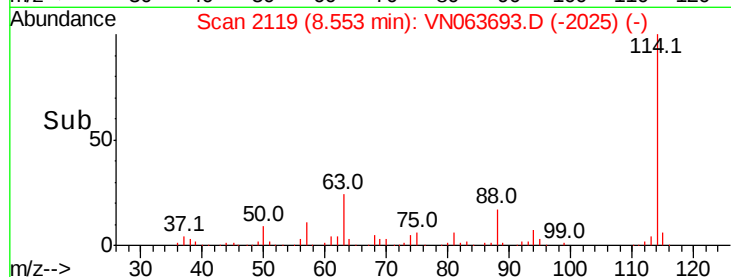
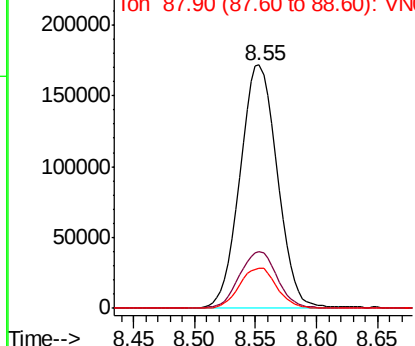
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063693.D
 Acq: 25 Sep 2020 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion:114 Resp: 362742
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.4
 88 16.5 0.0 33.2

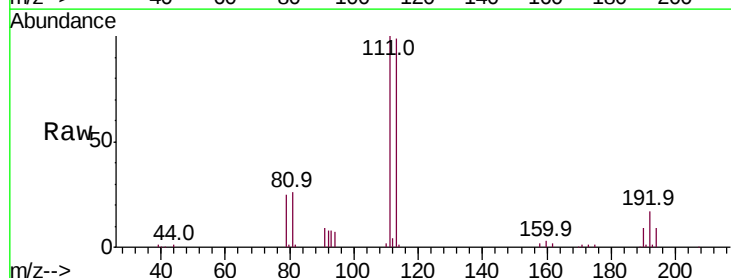


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

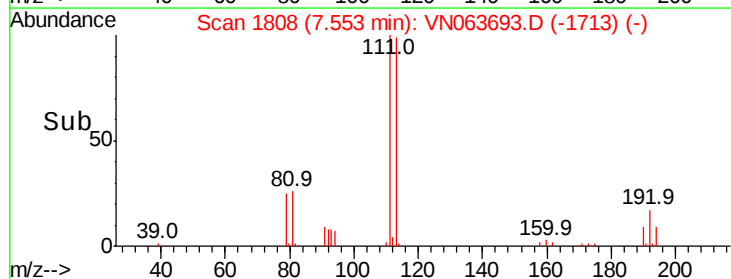
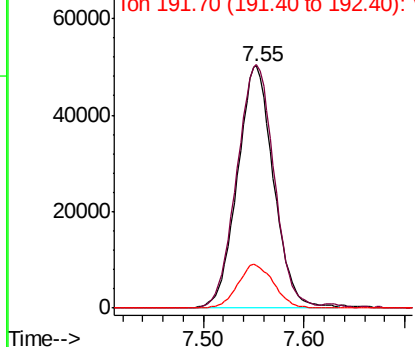


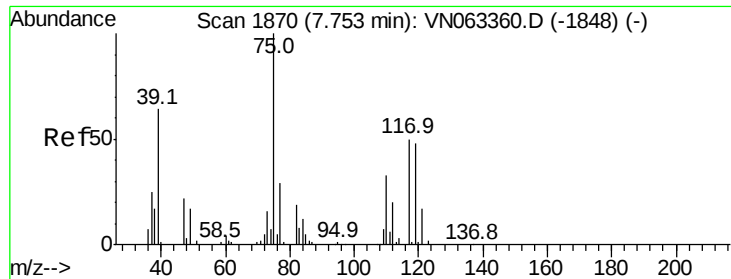
#35
 Dibromofluoromethane
 Concen: 49.668 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063693.D
 Acq: 25 Sep 2020 21:06

Tgt Ion:113 Resp: 124726
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.9 124.3
 192 17.9 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: 4.842 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

MW2

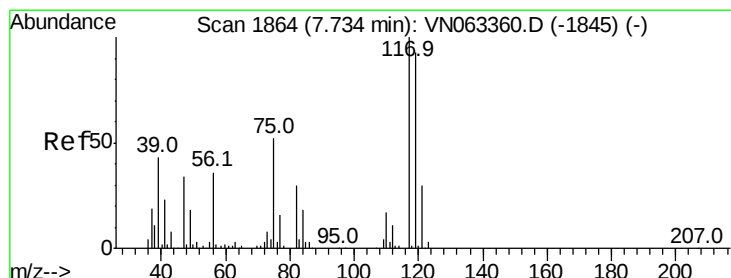
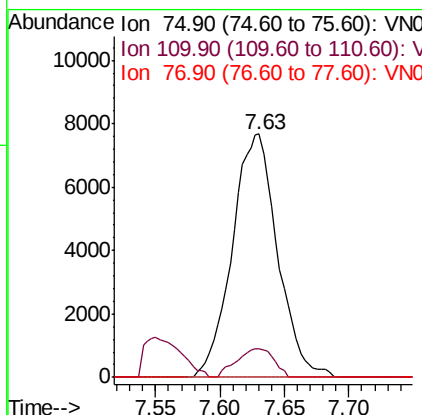
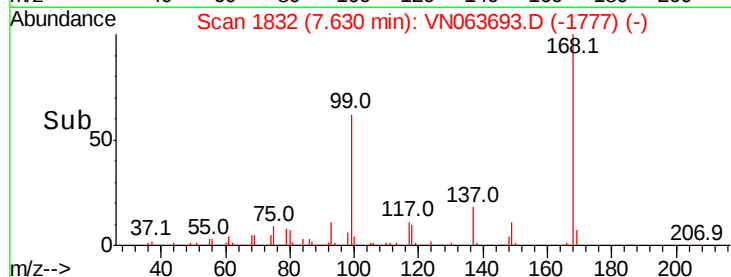
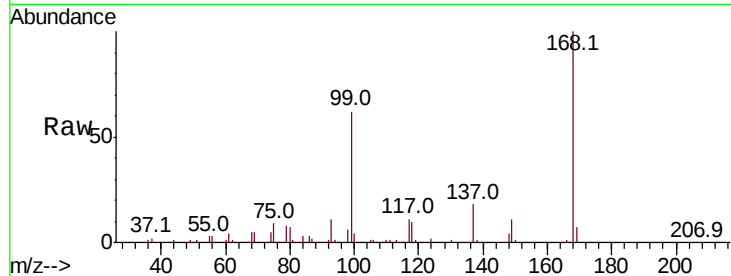
Tot Ion: 75 Resp: 18712

Ion Ratio Lower Upper

75 100

110 9.6 16.5 49.5#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.585 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

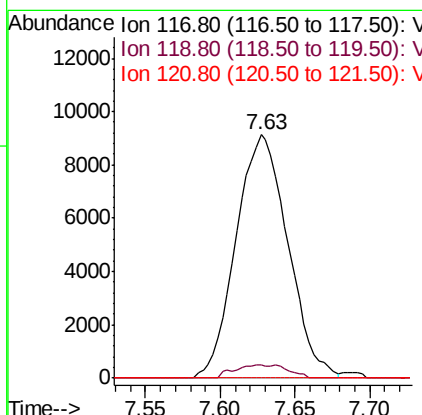
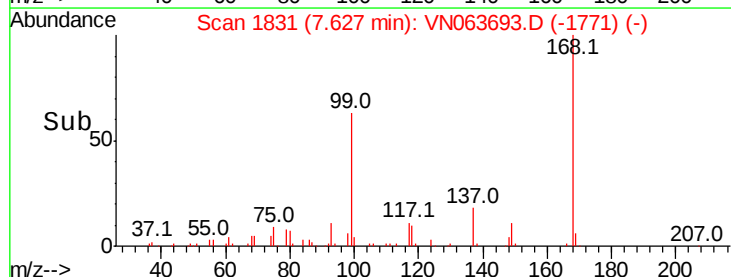
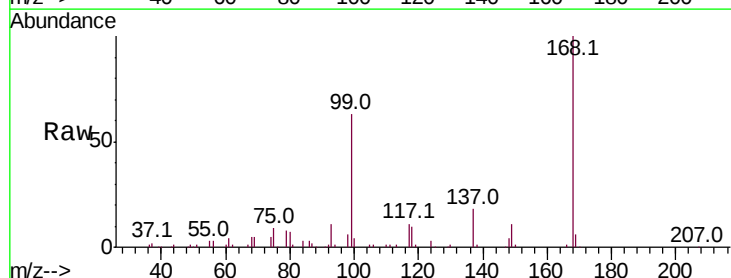
Tgt Ion: 117 Resp: 22034

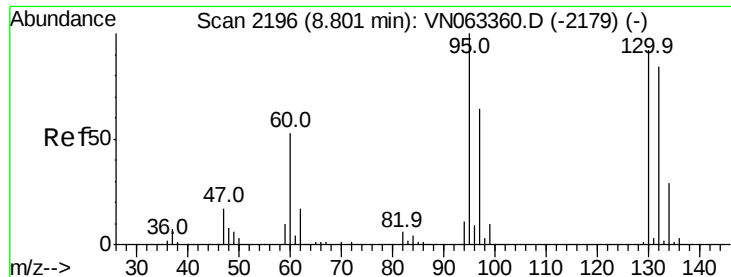
Ion Ratio Lower Upper

117 100

119 5.4 74.5 111.7#

121 0.0 24.1 36.1#





#44

Trichloroethene

Concen: 2.465 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

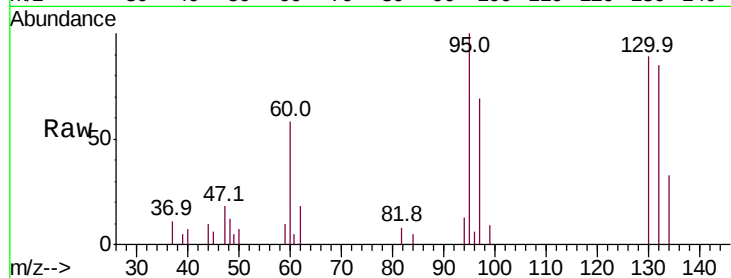
MW2

Tot Ion:130 Resp: 6595

Ion Ratio Lower Upper

130 100

95 111.8 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

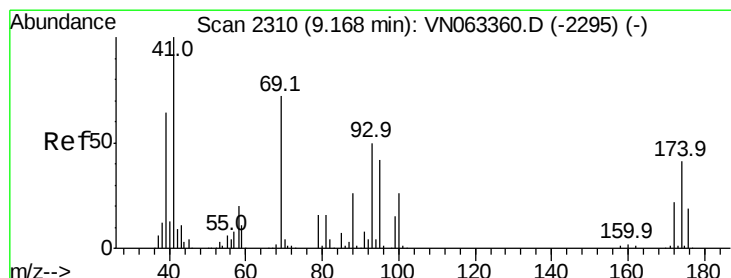
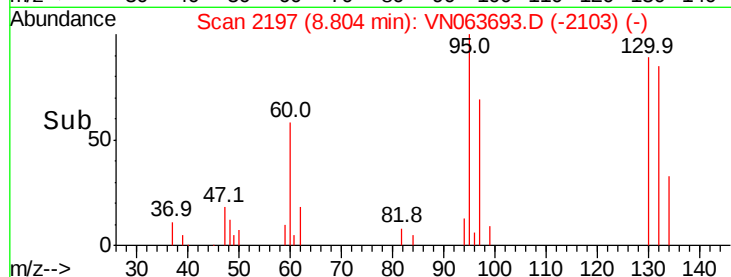
3000

2000

1000

0

Time-->



#49

1,4-Dioxane

Concen: 1.276 ug/l

RT: 8.94 min Scan# 2239

Delta R.T. -0.23 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

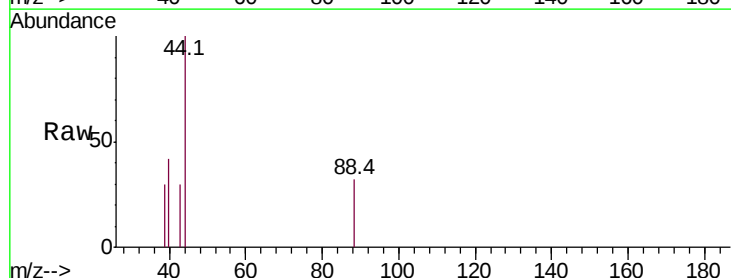
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 437.7 32.6 49.0#

58 0.0 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN063360.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2295) (-)

250

200

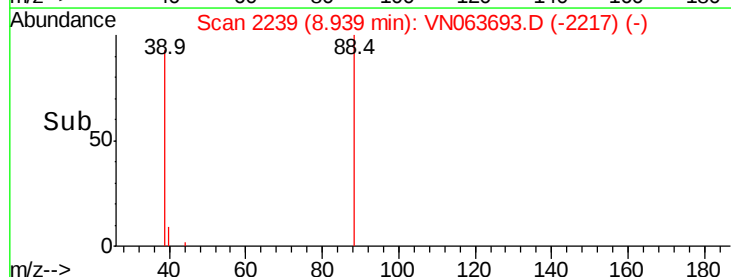
150

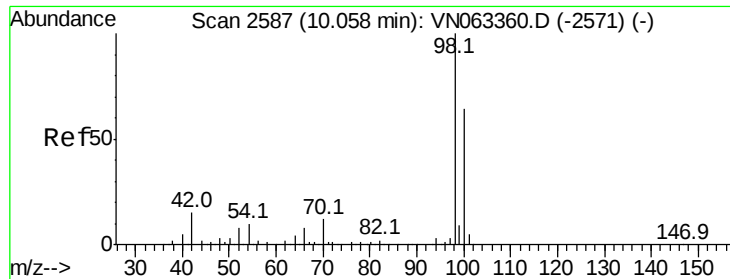
100

50

0

Time-->





#50

Toluene-d8

Concen: 50.215 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

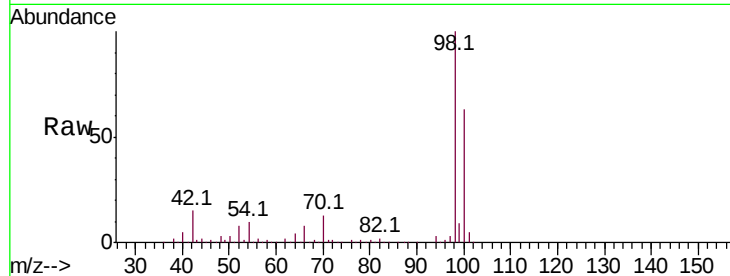
MW2

Tot Ion: 98 Resp: 474154

Ion Ratio Lower Upper

98 100

100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

250000

200000

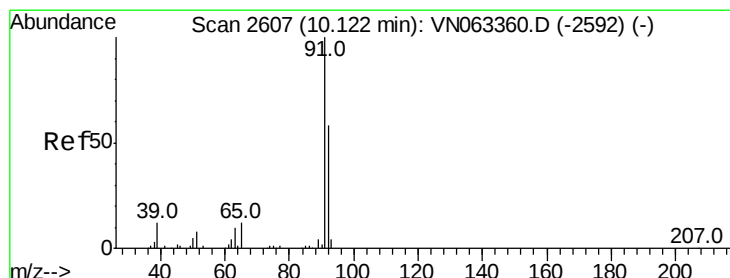
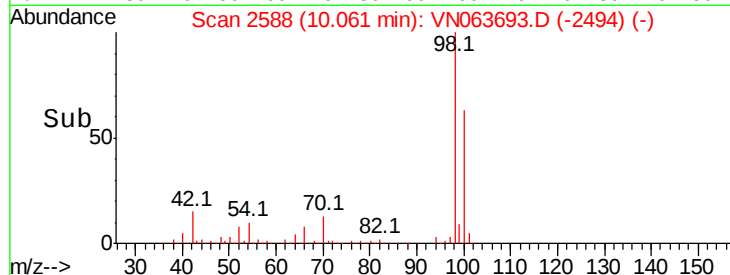
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 0.833 ug/l

RT: 10.13 min Scan# 2610

Delta R.T. 0.01 min

Lab File: VN063693.D

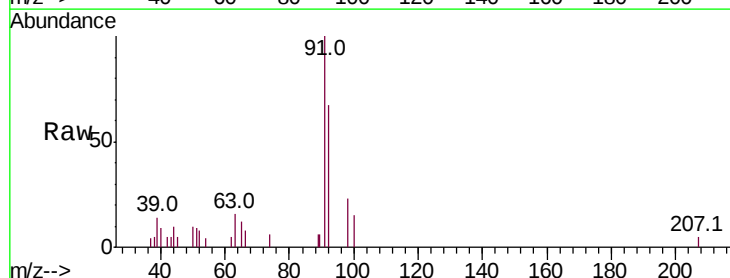
Acq: 25 Sep 2020 21:06

Tgt Ion: 92 Resp: 5523

Ion Ratio Lower Upper

92 100

91 180.7 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

6000

5000

4000

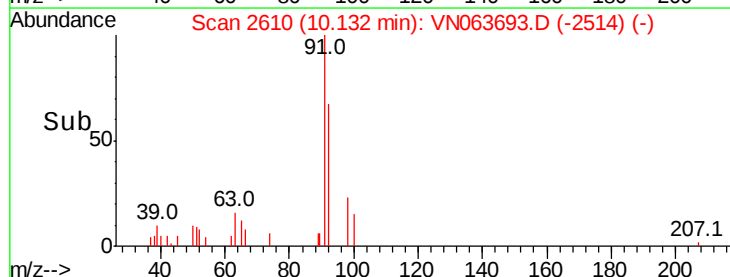
3000

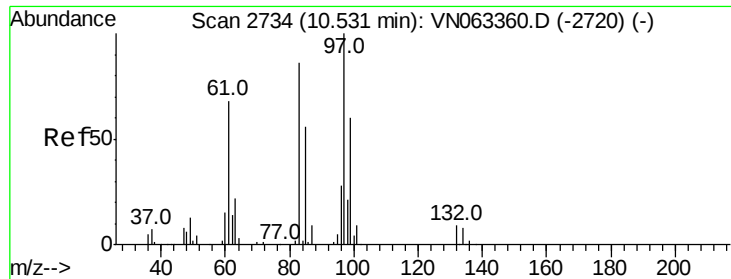
2000

1000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 0.981 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. 0.07 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampled :

MW2

Tot Ion: 97 Resp: 2584

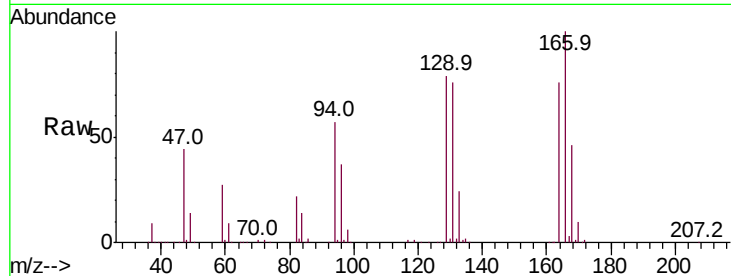
Ion Ratio Lower Upper

97 100

83 274.4 68.9 103.3#

85 66.4 44.8 67.2

99 23.5 47.8 71.8#

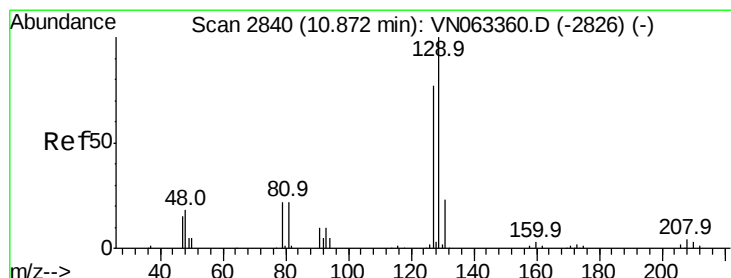
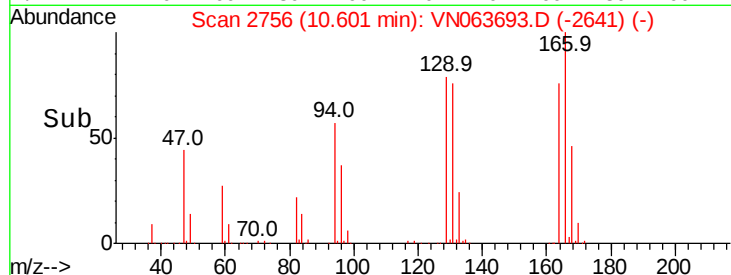
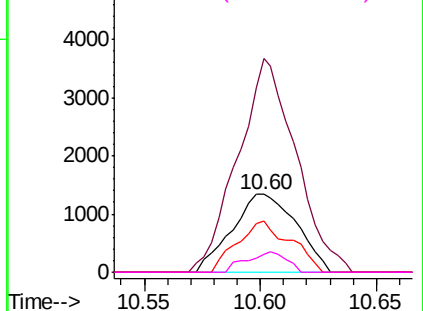


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#60

Dibromochloromethane

Concen: 90.258 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063693.D

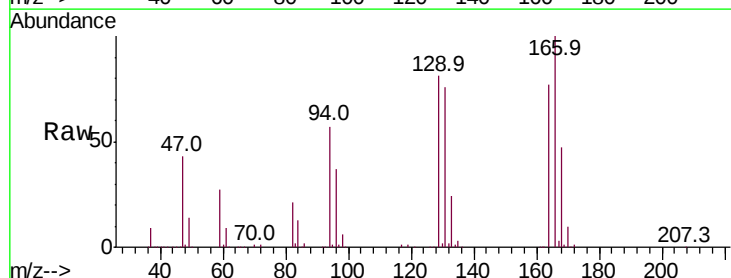
Acq: 25 Sep 2020 21:06

Tgt Ion: 129 Resp: 268636

Ion Ratio Lower Upper

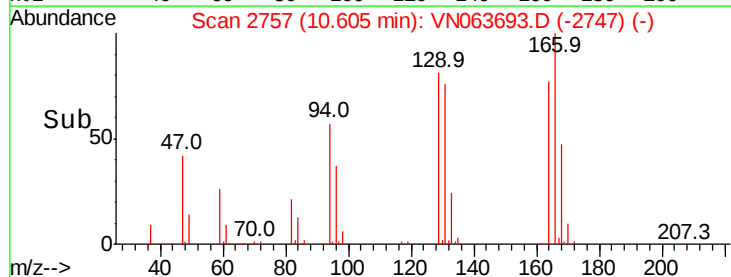
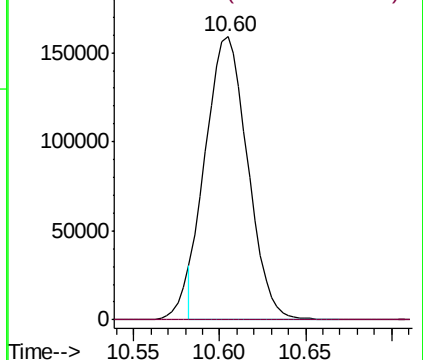
129 100

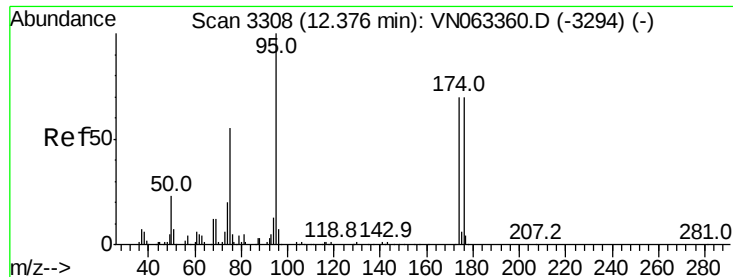
127 0.2 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 52.818 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

MW2

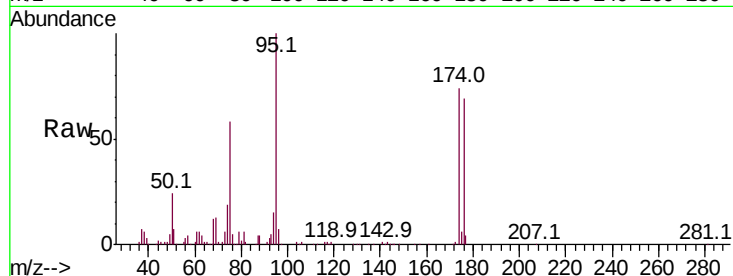
Tot Ion: 95 Resp: 182827

Ion Ratio Lower Upper

95 100

174 74.3 0.0 140.8

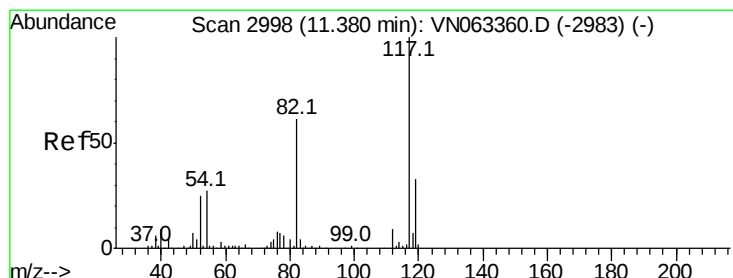
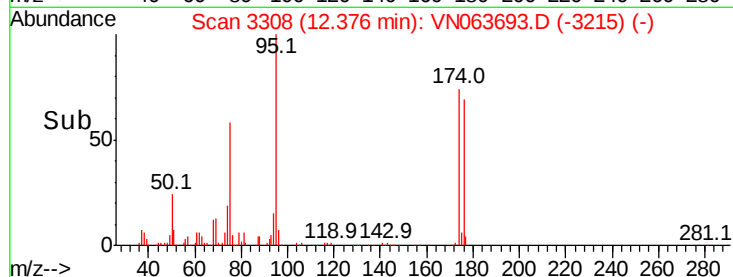
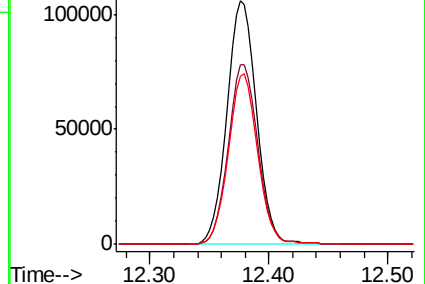
176 69.3 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063693.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063693.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063693.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

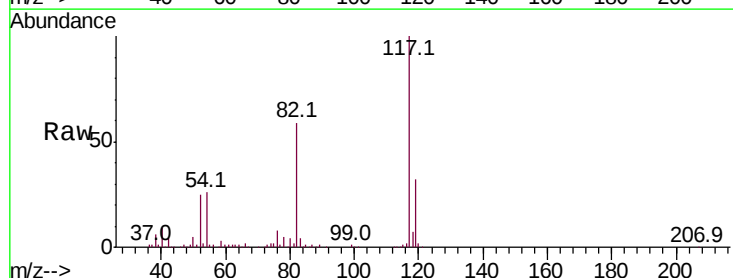
Tgt Ion: 117 Resp: 378961

Ion Ratio Lower Upper

117 100

82 58.8 49.2 73.8

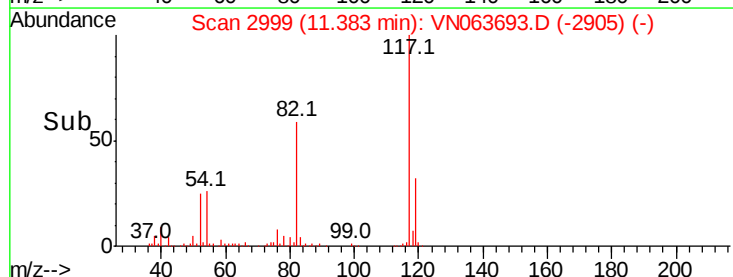
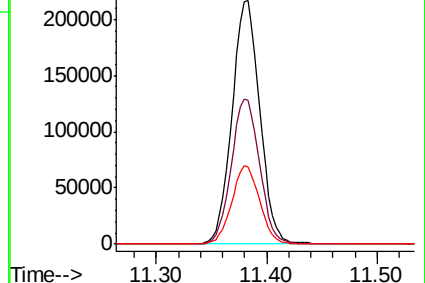
119 31.6 26.2 39.4

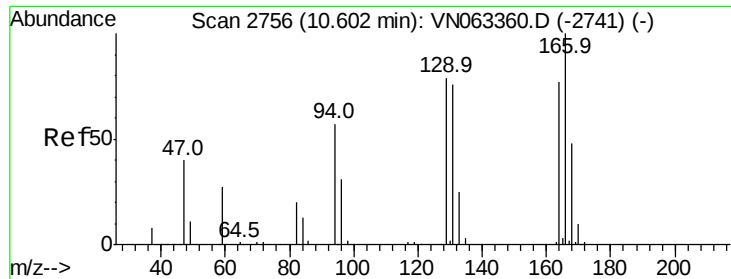


Abundance Ion 116.90 (116.60 to 117.60): VN063693.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063693.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063693.D (-2983) (-)





#64

Tetrachloroethene

Concen: 107.022 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

MW2

Tot Ion:164 Resp: 276165

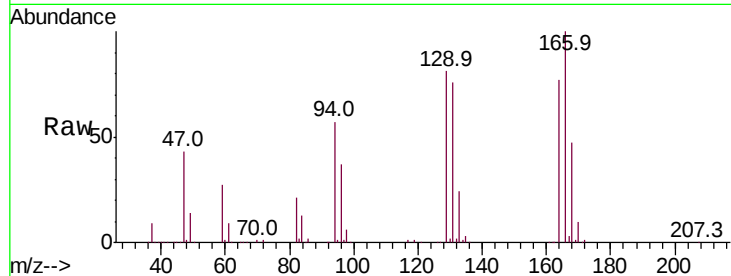
Ion Ratio Lower Upper

164 100

166 129.8 103.4 155.0

129 104.8 81.8 122.6

131 99.2 78.2 117.4

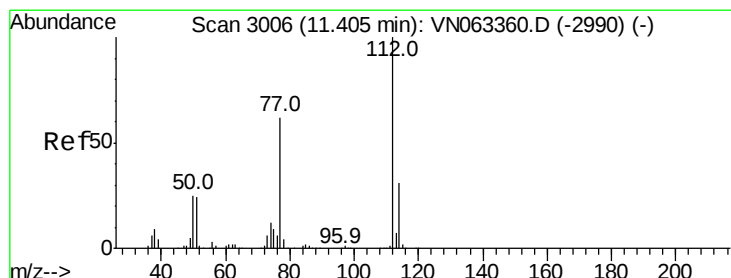
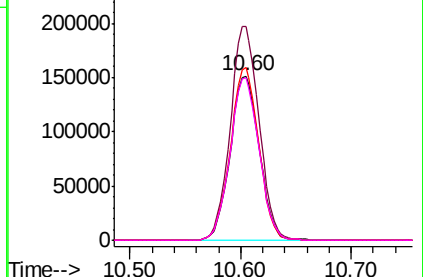
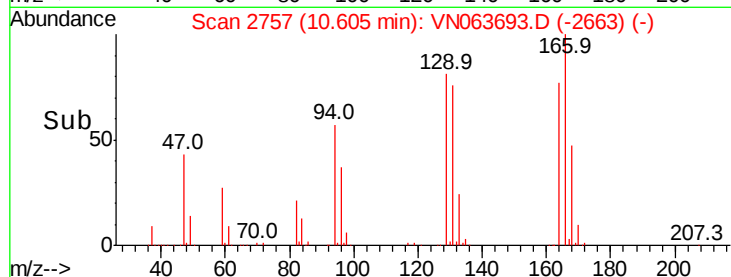


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.981 ug/l

RT: 11.41 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VN063693.D

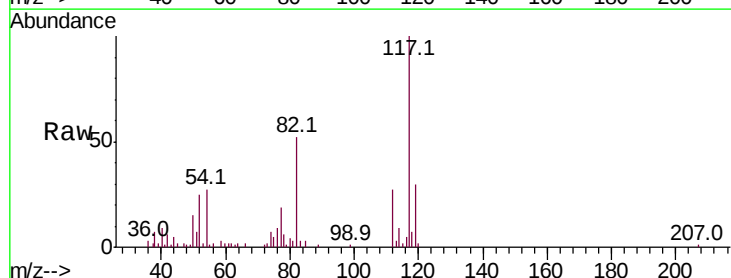
Acq: 25 Sep 2020 21:06

Tgt Ion:112 Resp: 7893

Ion Ratio Lower Upper

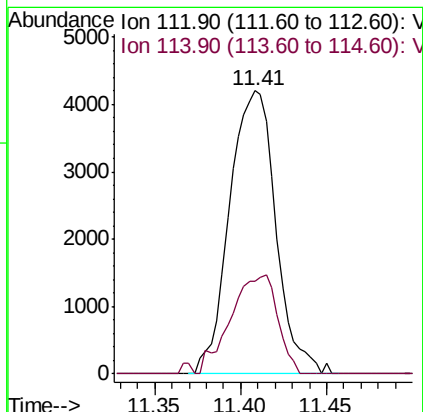
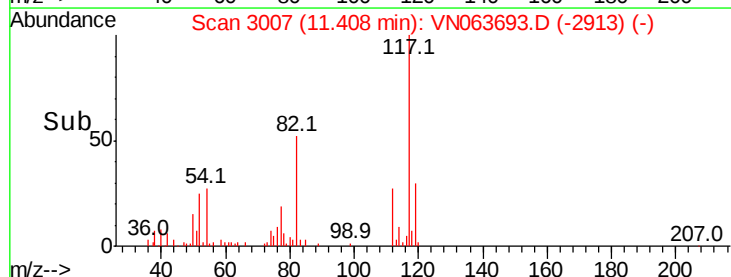
112 100

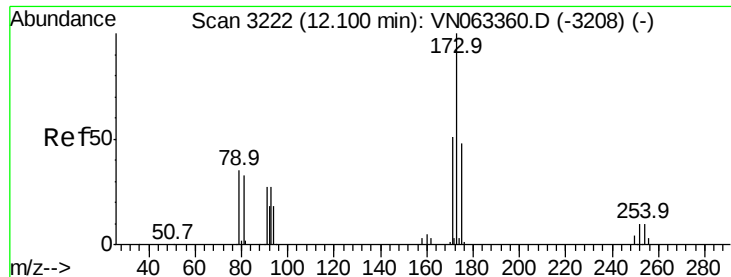
114 32.7 25.0 37.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.243 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

MW2

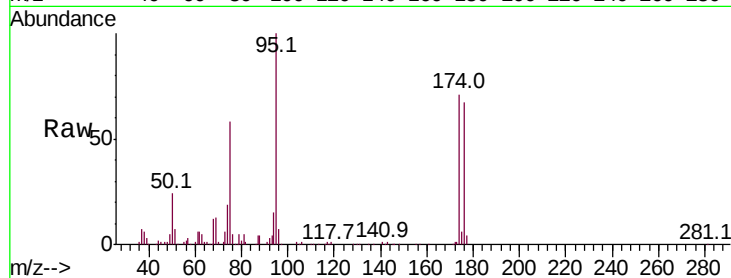
Tot Ion:173 Resp: 534

Ion Ratio Lower Upper

173 100

175 1632.8 24.0 72.0#

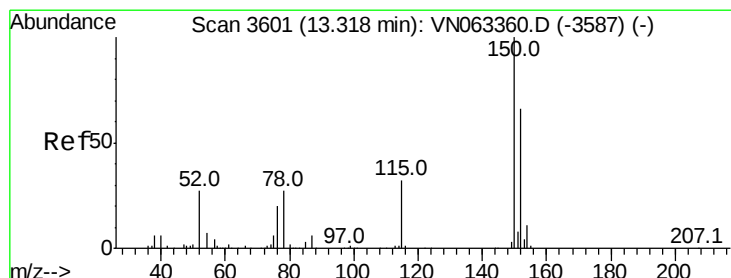
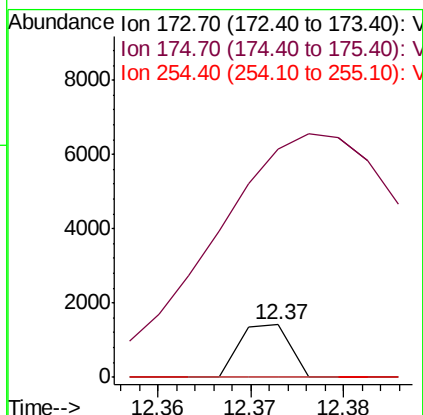
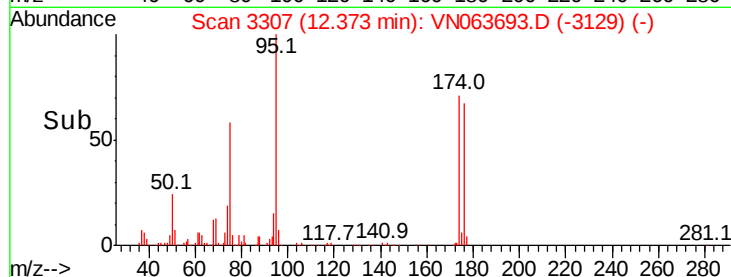
254 0.0 0.0 0.0



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: VN063693.D

Acq: 25 Sep 2020 21:06

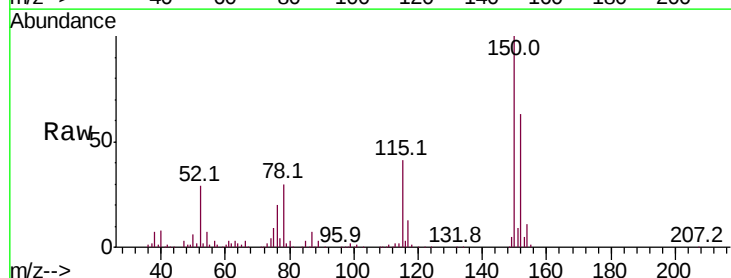
Tgt Ion:152 Resp: 153886

Ion Ratio Lower Upper

152 100

115 64.6 32.2 96.6

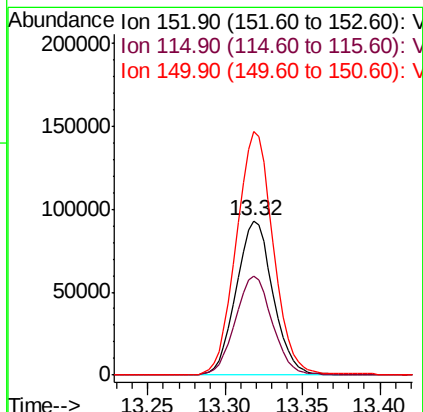
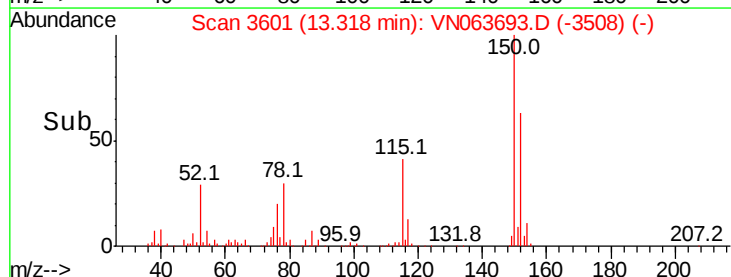
150 158.2 0.0 343.4

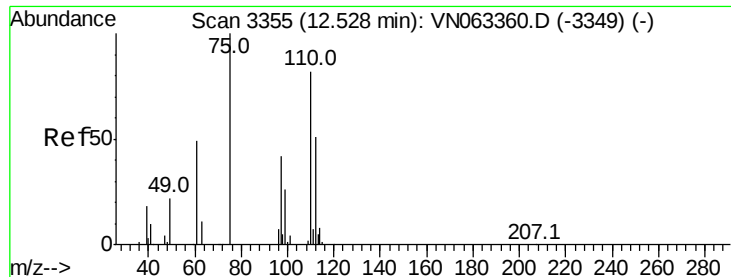


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.252 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Instrument :

MSVOA_N

ClientSampleId :

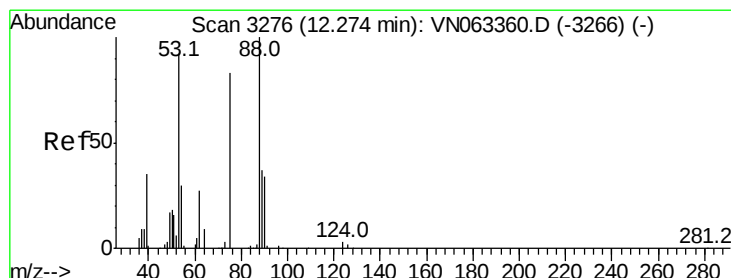
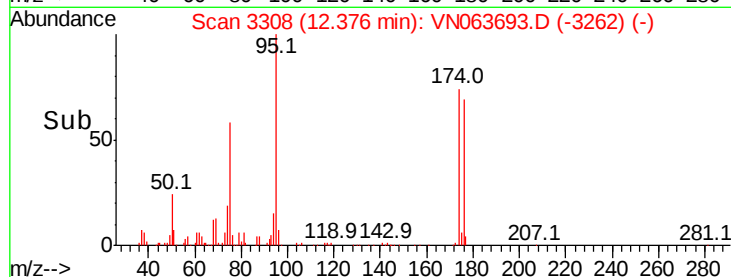
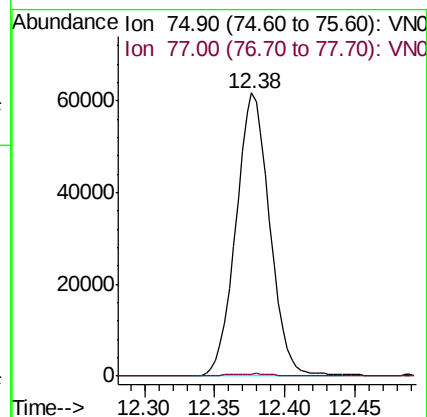
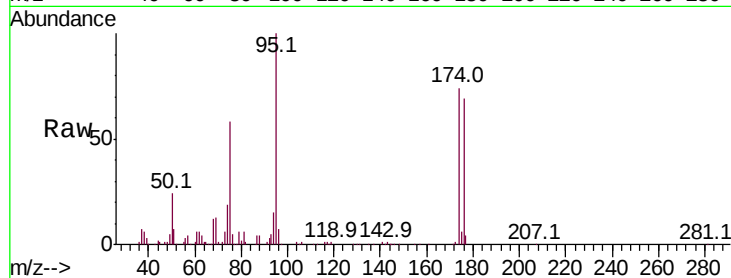
MW2

Tot Ion: 75 Resp: 103800

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.715 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063693.D

Acq: 25 Sep 2020 21:06

Tgt Ion: 75 Resp: 103800

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

