

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102920\
 Data File : VN064372.D
 Acq On : 29 Oct 2020 14:34
 Operator : JC/MD
 Sample : L4554-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Quant Time: Oct 30 05:31:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	246058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	432046	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	421927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	193585	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	194676	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
35) Dibromofluoromethane	7.55	113	142307	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	10.06	98	523193	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
62) 4-Bromofluorobenzene	12.38	95	224677	54.07	ug/l	0.00
Spiked Amount			Recovery	=	108.14%	

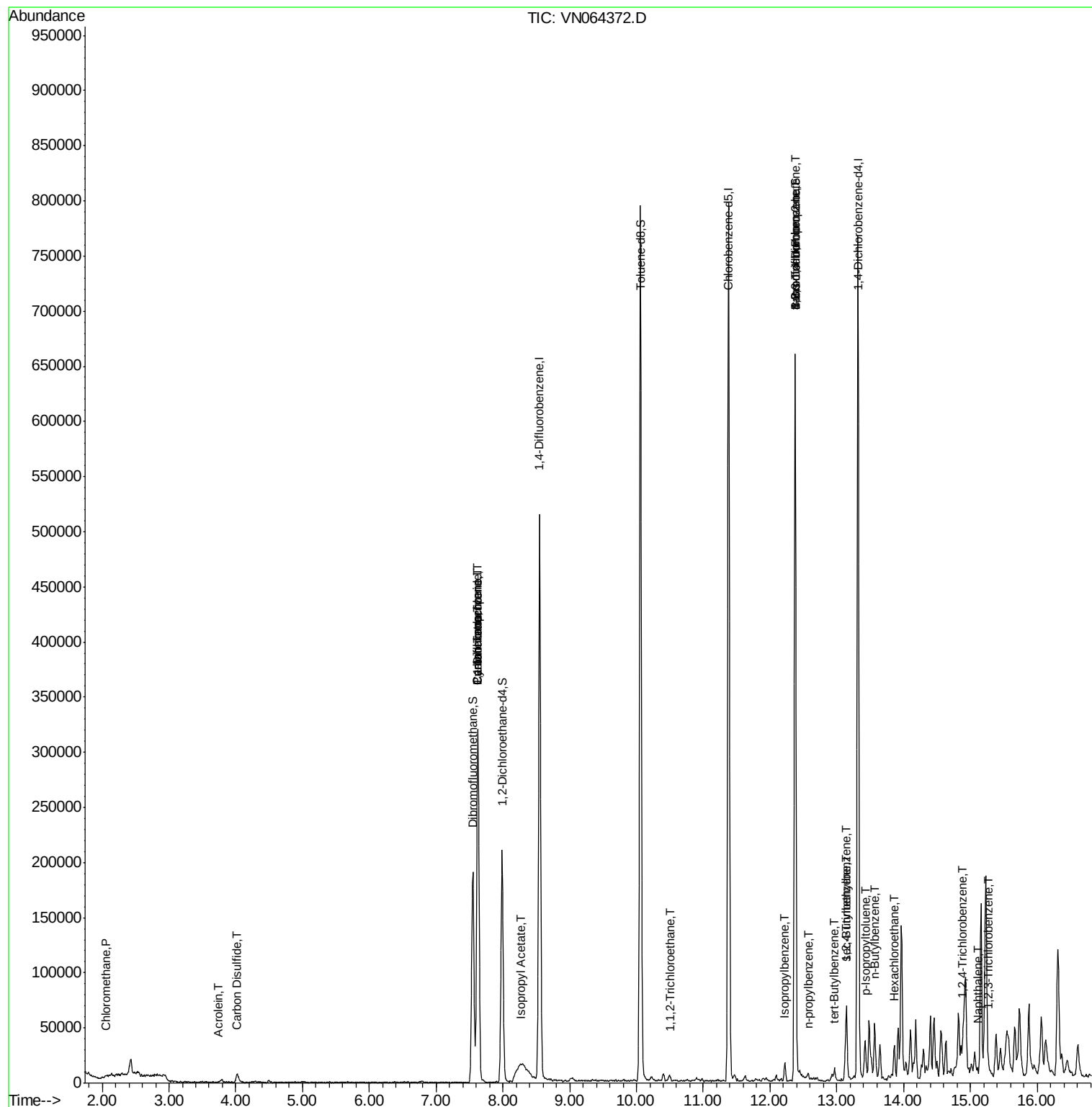
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1349	0.441	ug/l #	87
13) Acrolein	3.73	56	66	18.172	ug/l #	10
16) Acetone	3.78	43	4883	Below Cal	#	72
17) Carbon Disulfide	4.01	76	3430	0.493	ug/l #	90
31) Cyclohexane	7.62	56	6372	1.388	ug/l #	48
36) 1,1-Dichloropropene	7.63	75	20438	4.687	ug/l #	54
38) Carbon Tetrachloride	7.63	117	24821	4.910	ug/l #	16
43) Isopropyl Acetate	8.26	43	32141	4.269	ug/l #	57
55) 1,1,2-Trichloroethane	10.51	97	1400	0.463	ug/l #	15
71) Bromoform	12.37	173	798	0.294	ug/l #	1
73) Isopropylbenzene	12.23	105	10848	0.748	ug/l	99
76) 1,2,3-Trichloropropane	12.38	75	125890	27.156	ug/l #	100
78) n-propylbenzene	12.57	91	5341	0.325	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	125890	78.223	ug/l #	8
83) tert-Butylbenzene	12.97	119	5152	0.512	ug/l	90
84) 1,2,4-Trimethylbenzene	13.14	105	42627	3.477	ug/l #	33
85) sec-Butylbenzene	13.14	105	42627	3.272	ug/l	92
86) p-Isopropyltoluene	13.42	119	8507	0.725	ug/l	95
89) n-Butylbenzene	13.57	91	9786	0.946	ug/l #	14
90) Hexachloroethane	13.86	117	2330	1.057	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.87	180	74	2.038	ug/l #	1
95) Naphthalene	15.11	128	1614	2.533	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.28	180	90	2.207	ug/l #	1

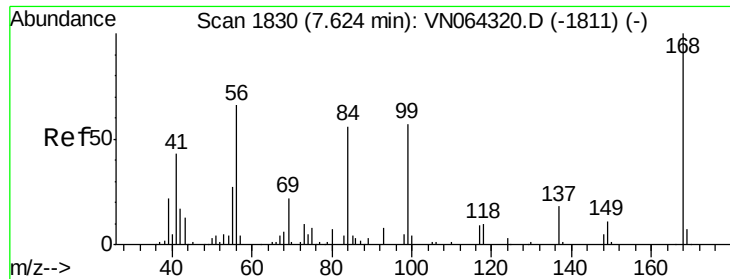
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampleId :

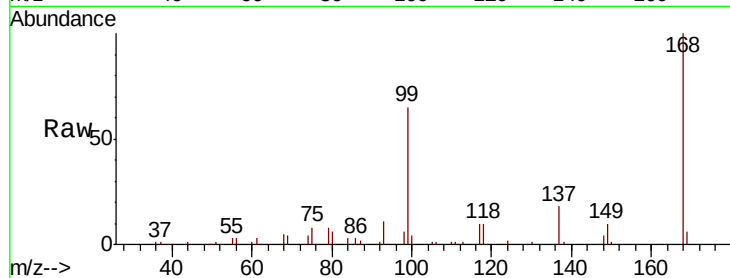
MW-3

Tot Ion:168 Resp: 246058

Ion Ratio Lower Upper

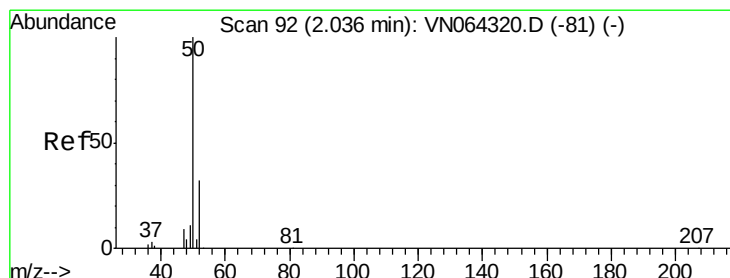
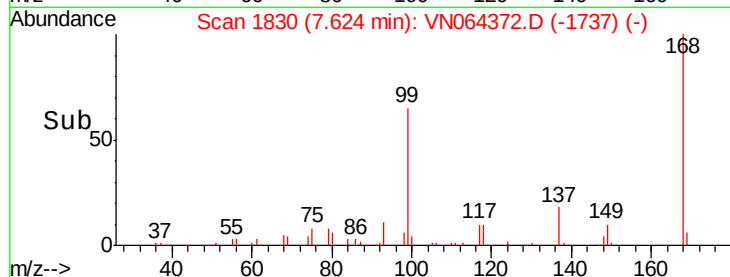
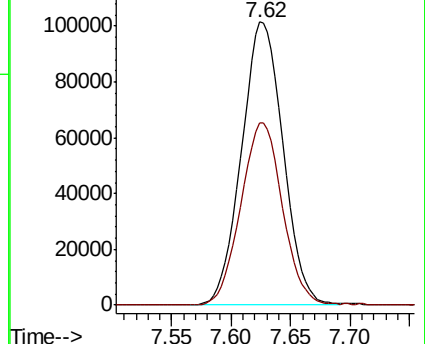
168 100

99 64.5 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.441 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.01 min

Lab File: VN064372.D

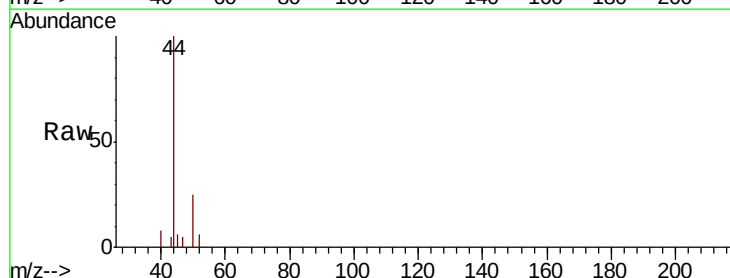
Acq: 29 Oct 2020 14:34

Tgt Ion: 50 Resp: 1349

Ion Ratio Lower Upper

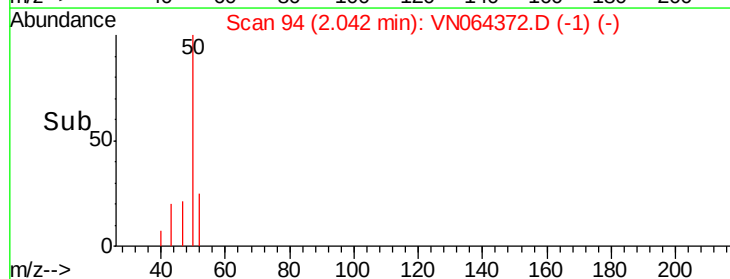
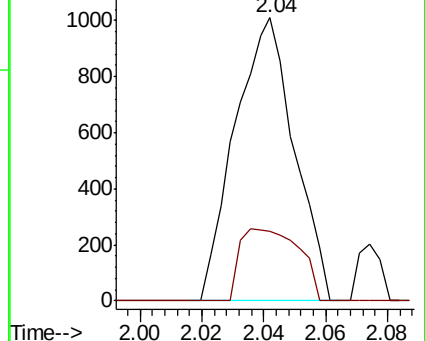
50 100

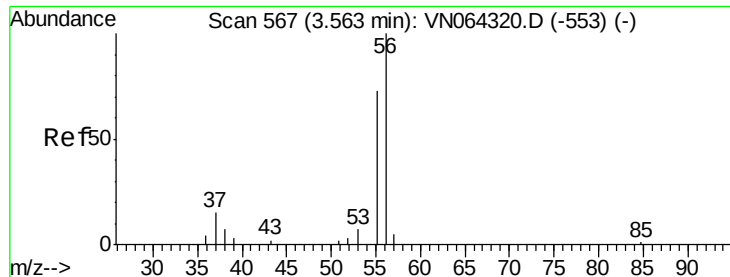
52 24.6 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#13

Acrolein

Concen: 18.172 ug/l

RT: 3.73 min Scan# 618

Delta R.T. 0.16 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampled :

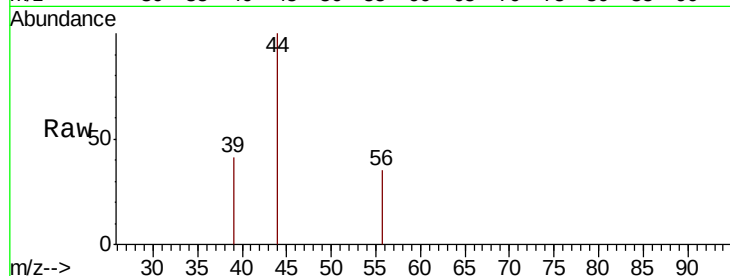
MW-3

Tot Ion: 56 Resp: 66

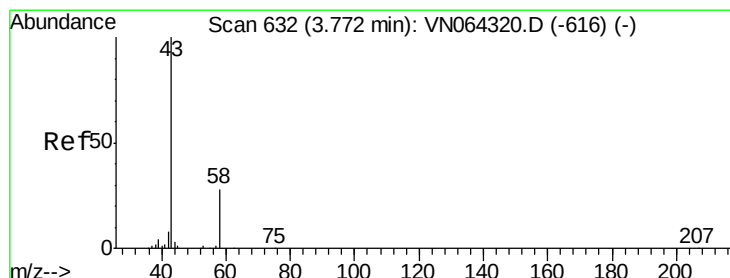
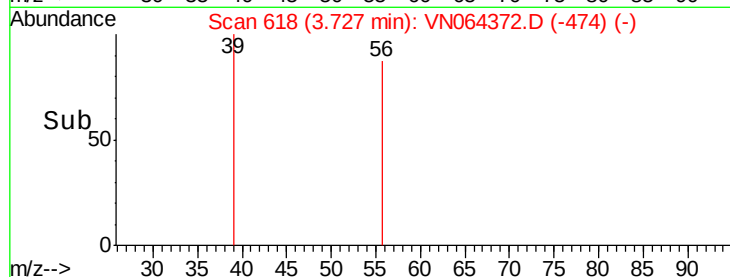
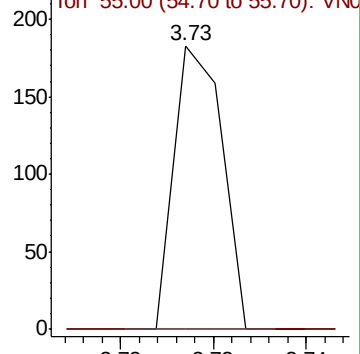
Ion Ratio Lower Upper

56 100

55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064372.D

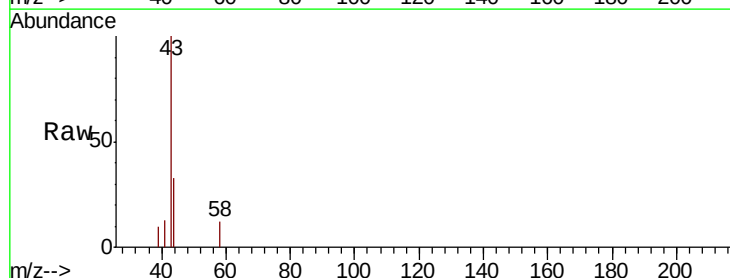
Acq: 29 Oct 2020 14:34

Tgt Ion: 43 Resp: 4883

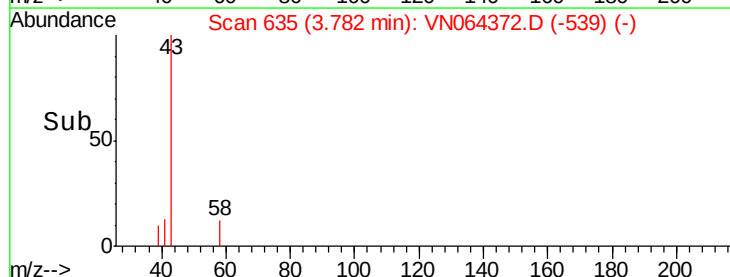
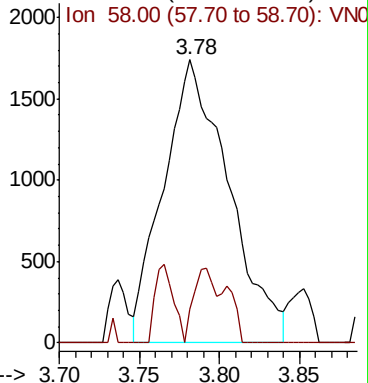
Ion Ratio Lower Upper

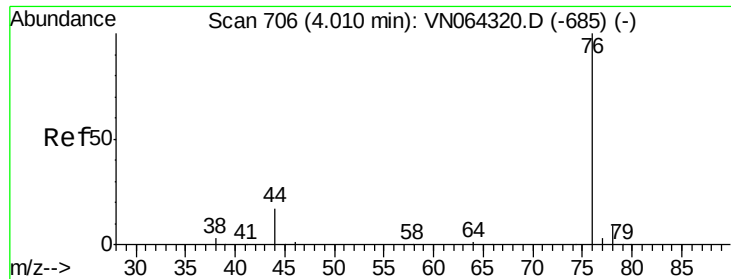
43 100

58 13.0 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0





#17

Carbon Disulfide

Concen: 0.493 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampled :

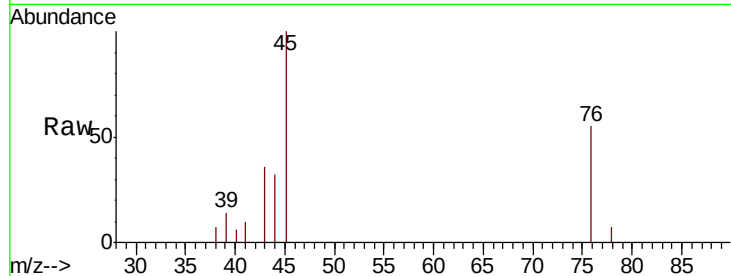
MW-3

Tot Ion: 76 Resp: 3430

Ion Ratio Lower Upper

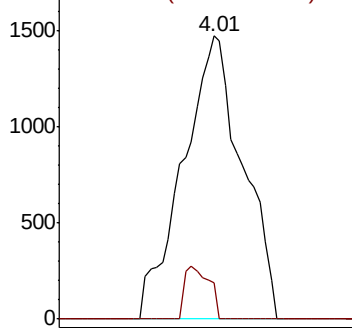
76 100

78 12.8 7.3 10.9#

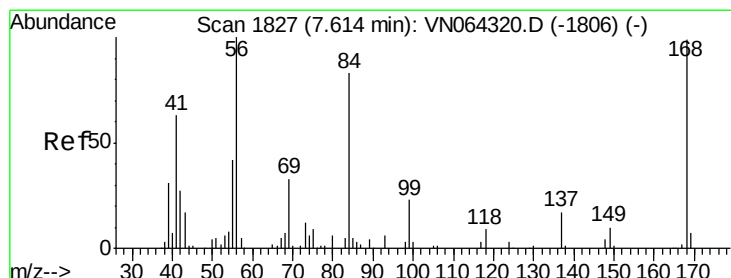
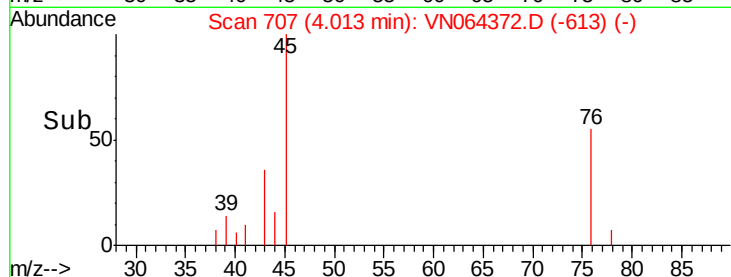


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#31

Cyclohexane

Concen: 1.388 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

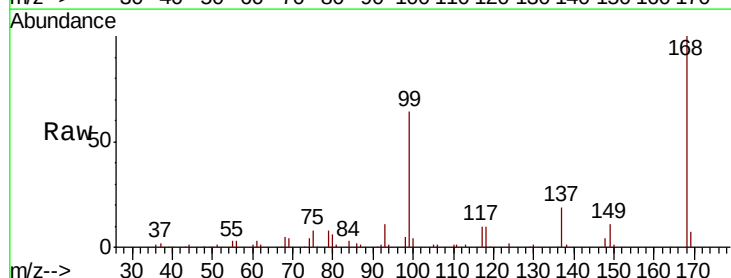
Tgt Ion: 56 Resp: 6372

Ion Ratio Lower Upper

56 100

69 128.4 25.8 38.8#

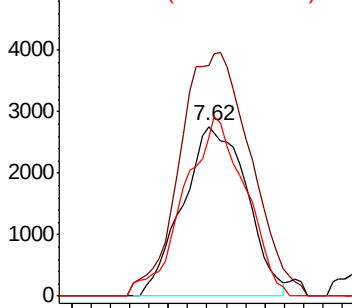
84 88.0 66.3 99.5



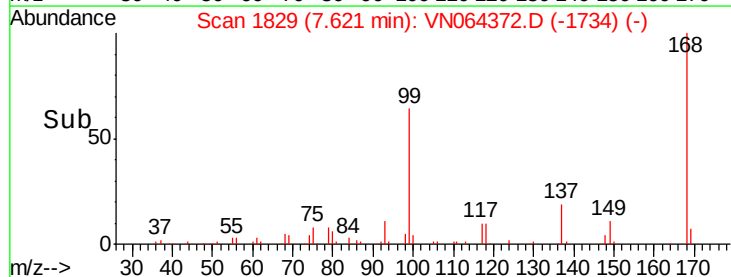
Abundance Ion 56.00 (55.70 to 56.70): VN0

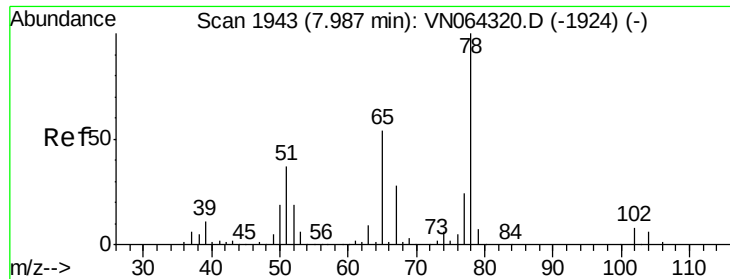
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

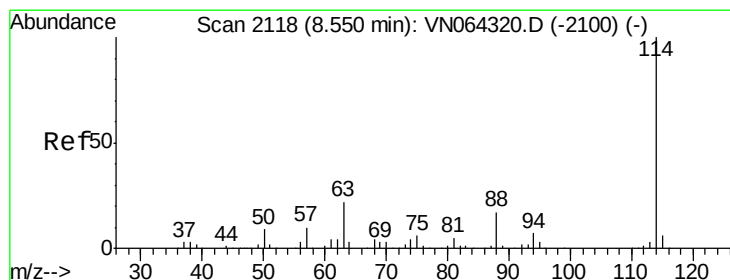
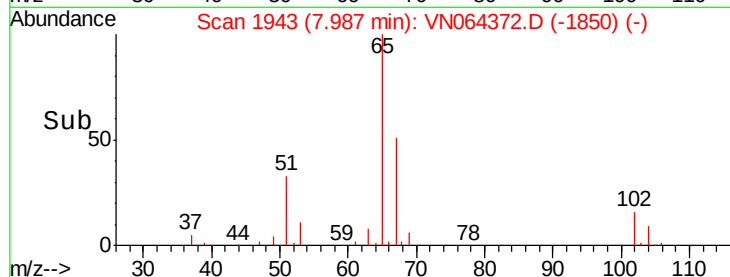
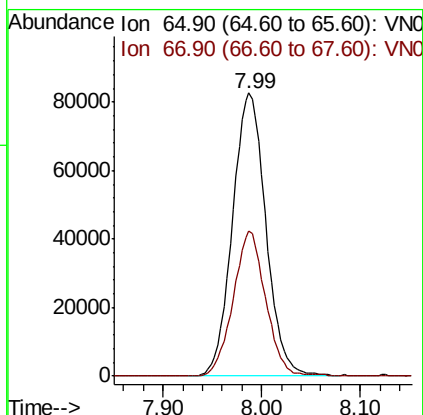
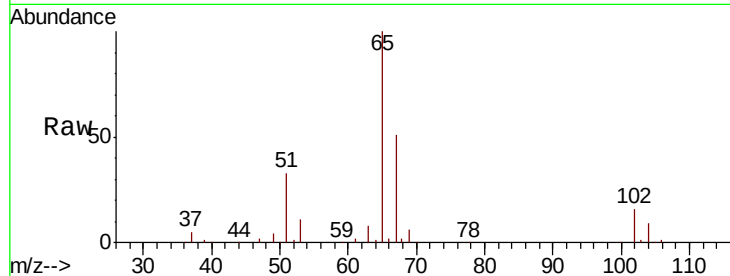




#33
 1,2-Dichloroethane-d4
 Concen: 49.234 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064372.D
 Acq: 29 Oct 2020 14:34

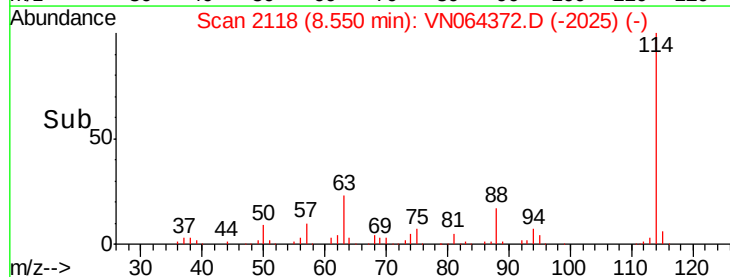
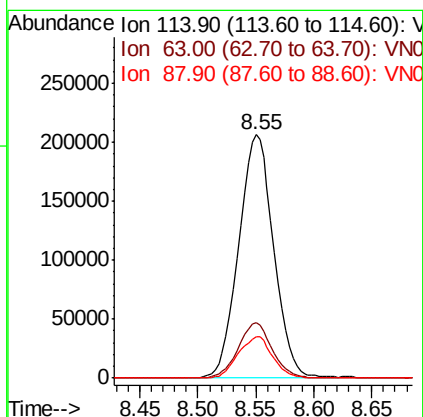
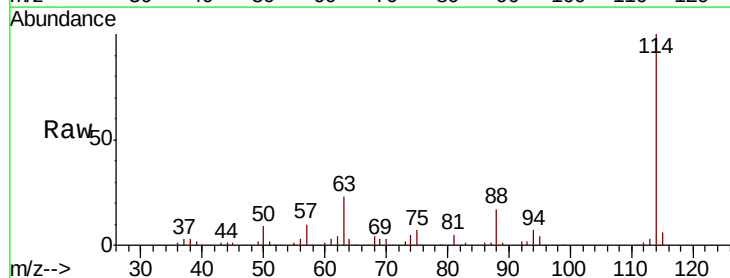
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

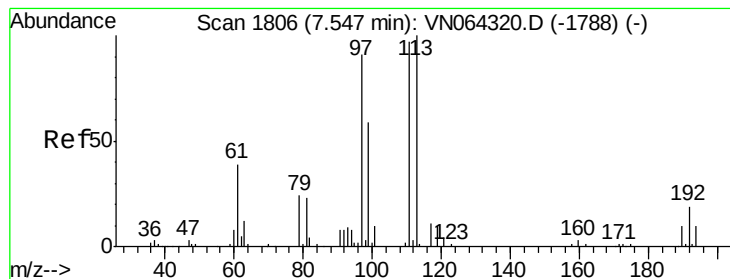
Tot Ion: 65 Resp: 194676
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 99.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064372.D
 Acq: 29 Oct 2020 14:34

Tgt Ion: 114 Resp: 432046
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.6
 88 16.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 49.391 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampleId :

MW-3

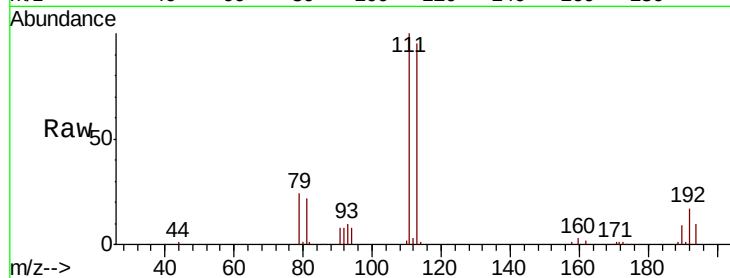
Tot Ion:113 Resp: 142307

Ion Ratio Lower Upper

113 100

111 100.4 81.5 122.3

192 18.2 15.0 22.4

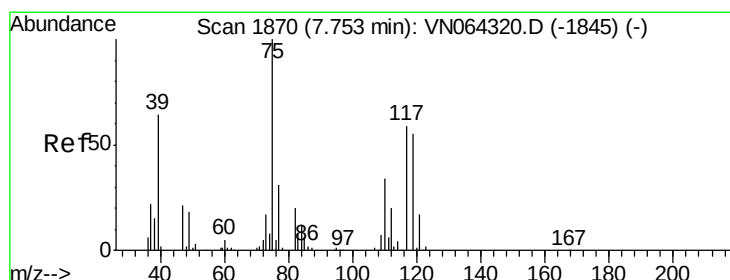
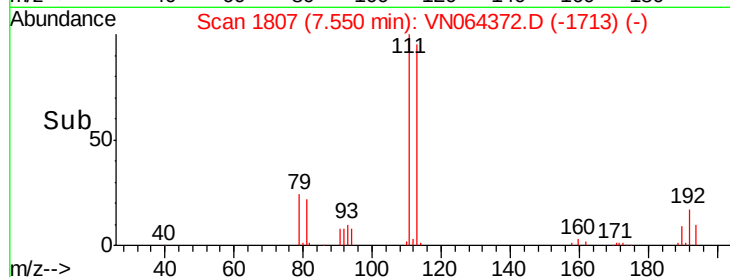
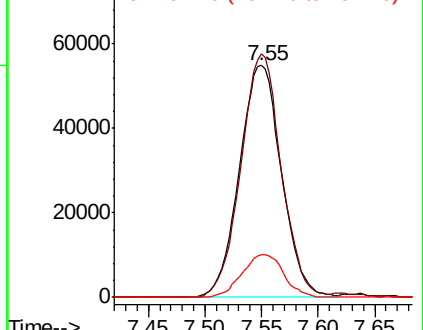


Abundance

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: 4.687 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

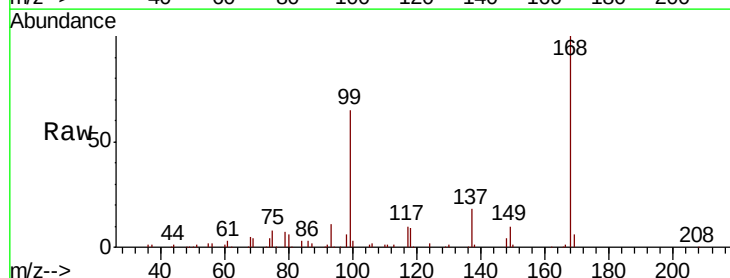
Tgt Ion: 75 Resp: 20438

Ion Ratio Lower Upper

75 100

110 11.9 16.8 50.3#

77 0.0 24.2 36.4#

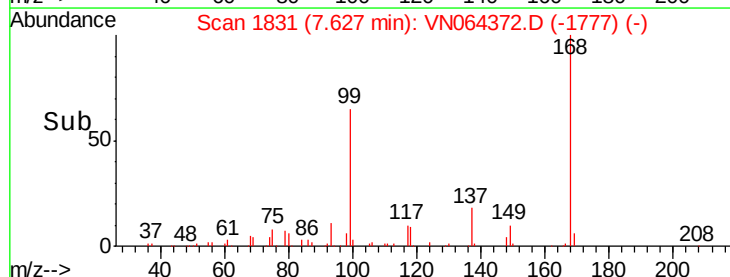
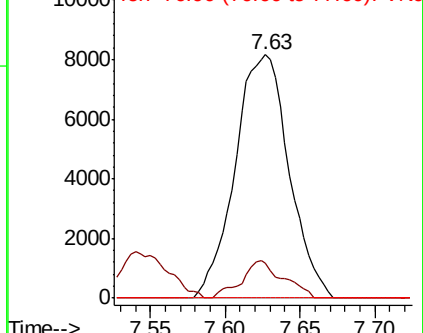


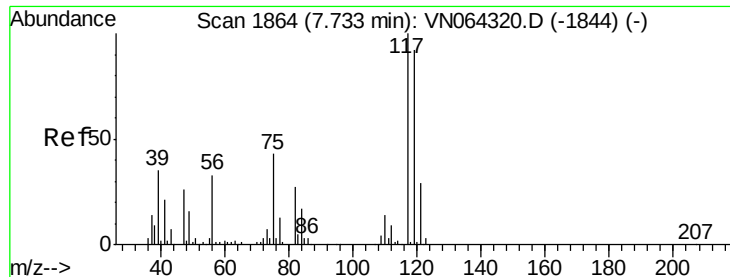
Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 4.910 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampled :

MW-3

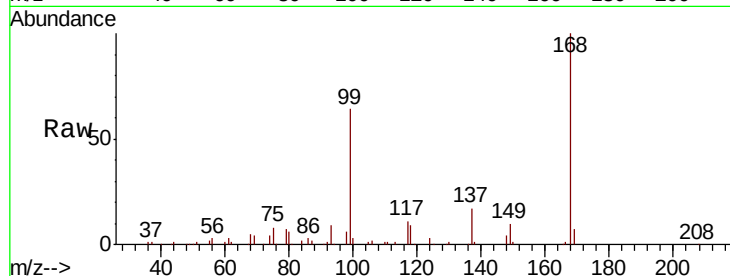
Tot Ion:117 Resp: 24821

Ion Ratio Lower Upper

117 100

119 3.2 73.7 110.5#

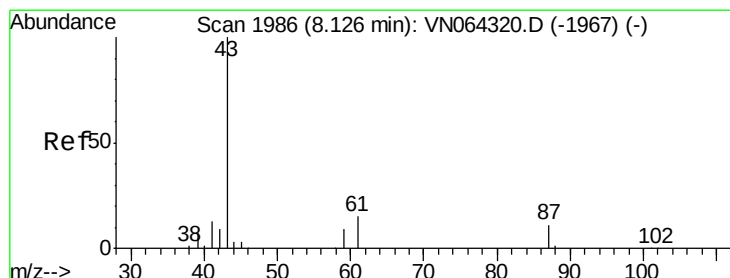
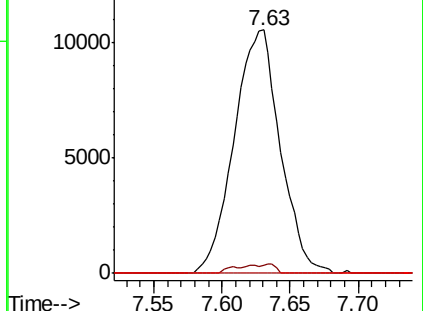
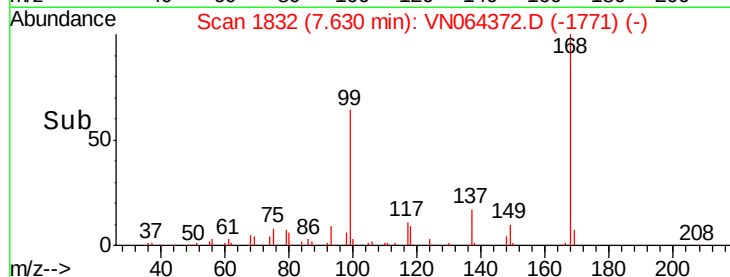
121 0.0 22.8 34.2#



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: 4.269 ug/l

RT: 8.26 min Scan# 2029

Delta R.T. 0.14 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

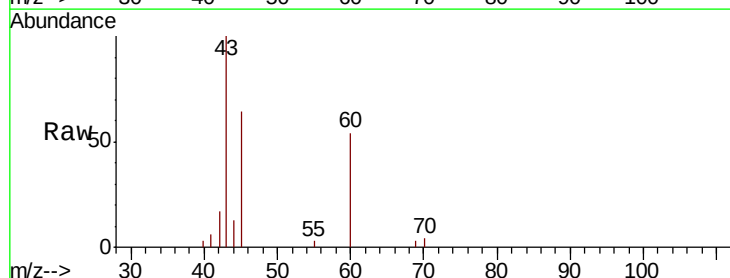
Tgt Ion: 43 Resp: 32141

Ion Ratio Lower Upper

43 100

61 0.0 19.1 28.7#

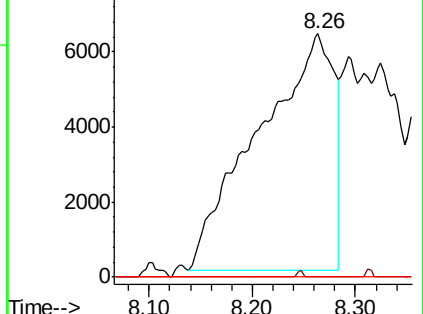
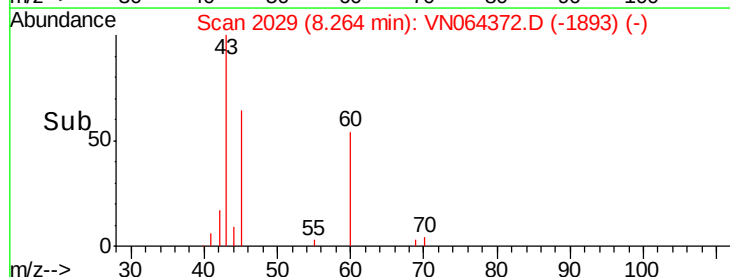
87 0.0 9.3 13.9#

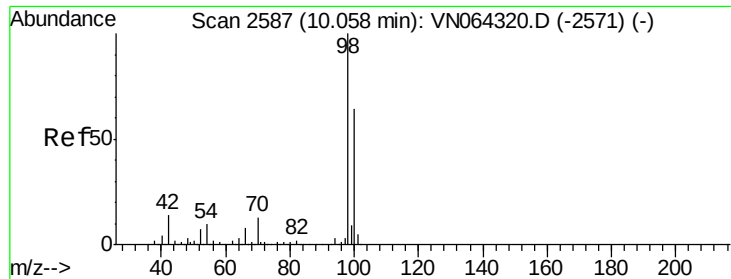


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

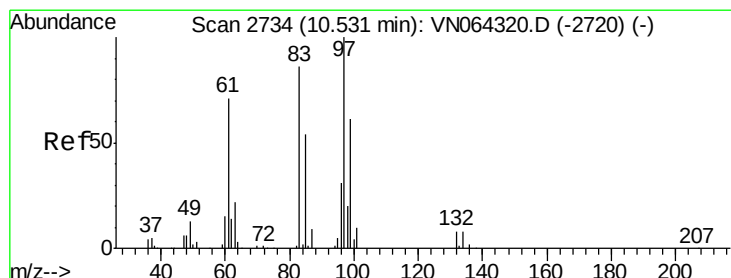
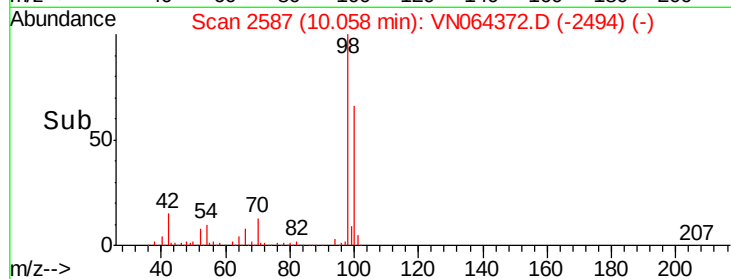
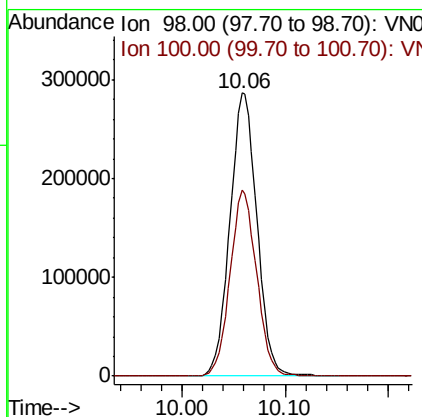
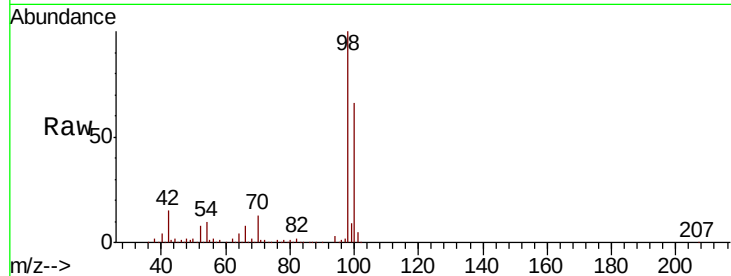




#50
Toluene-d8
Concen: 49.093 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN064372.D
Acq: 29 Oct 2020 14:34

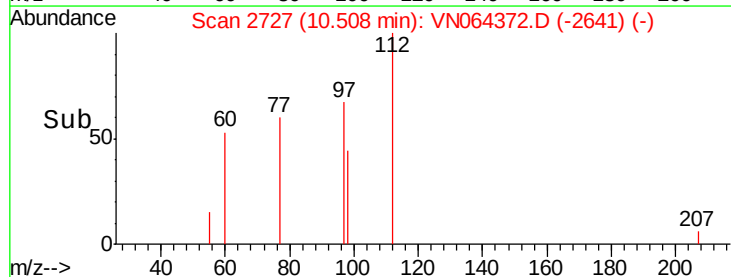
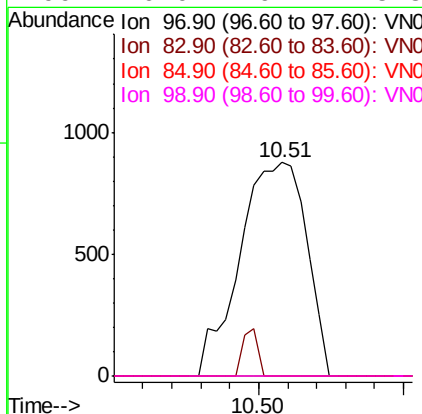
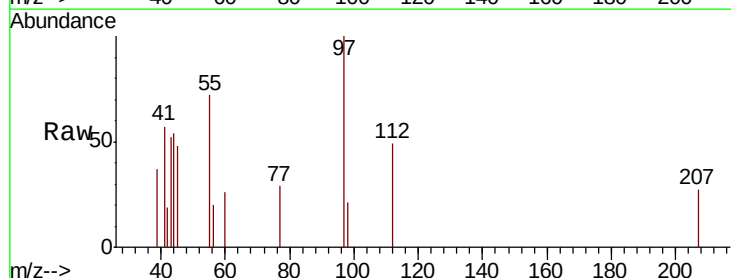
Instrument :
MSVOA_N
ClientSampled :
MW-3

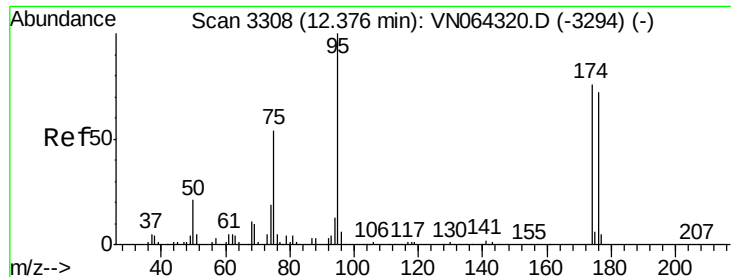
Tot Ion: 98 Resp: 523193
Ion Ratio Lower Upper
98 100
100 64.6 50.9 76.3



#55
1,1,2-Trichloroethane
Concen: 0.463 ug/l
RT: 10.51 min Scan# 2727
Delta R.T. -0.02 min
Lab File: VN064372.D
Acq: 29 Oct 2020 14:34

Tgt Ion: 97 Resp: 1400
Ion Ratio Lower Upper
97 100
83 0.0 68.9 103.3#
85 0.0 43.6 65.4#
99 0.0 49.2 73.8#

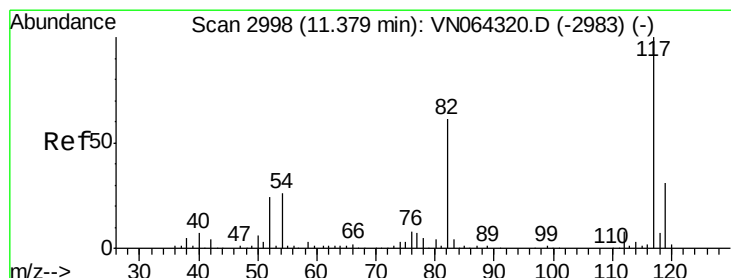
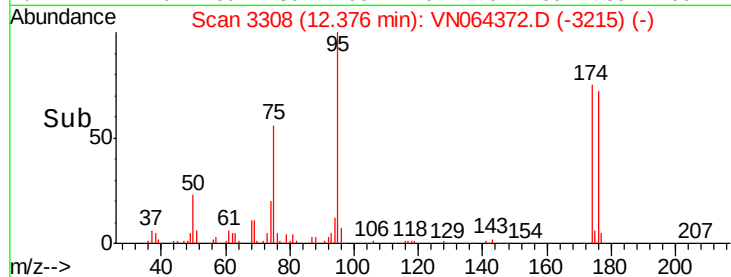
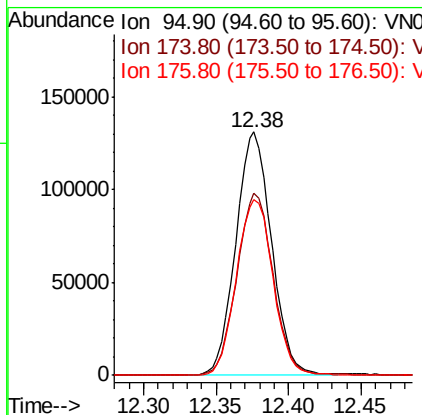
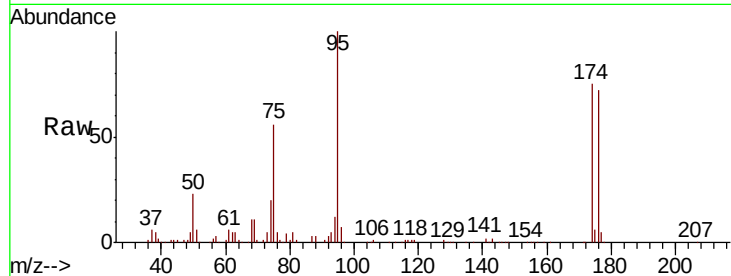




#62
4-Bromofluorobenzene
Concen: 54.072 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064372.D
Acq: 29 Oct 2020 14:34

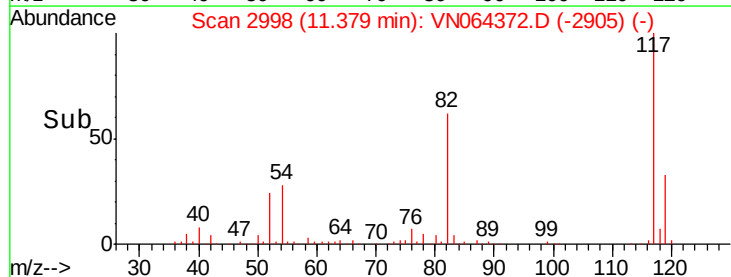
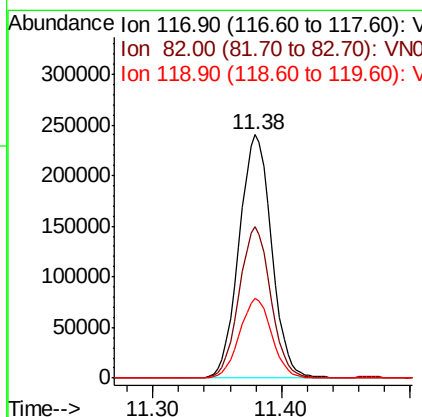
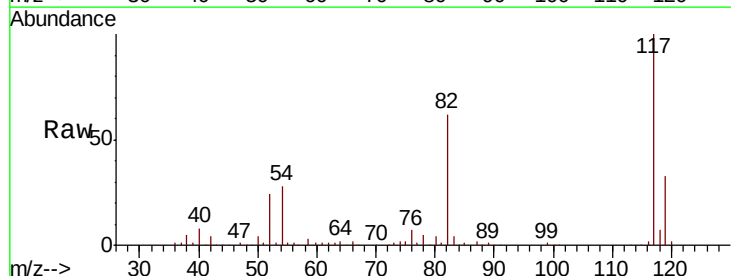
Instrument :
MSVOA_N
ClientSampleId :
MW-3

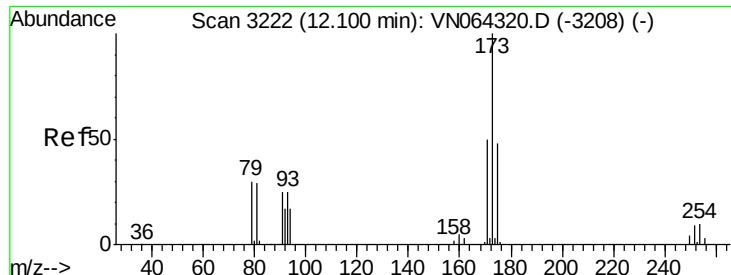
Tot Ion: 95 Resp: 224677
Ion Ratio Lower Upper
95 100
174 76.2 0.0 147.4
176 74.1 0.0 143.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064372.D
Acq: 29 Oct 2020 14:34

Tgt Ion: 117 Resp: 421927
Ion Ratio Lower Upper
117 100
82 62.1 48.8 73.2
119 32.6 25.1 37.7





#71

Bromoform

Concen: 0.294 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampled :

MW-3

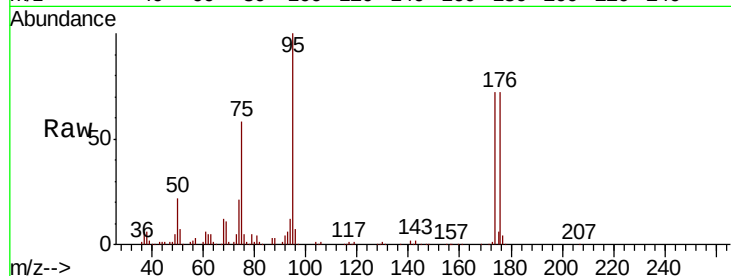
Tot Ion:173 Resp: 798

Ion Ratio Lower Upper

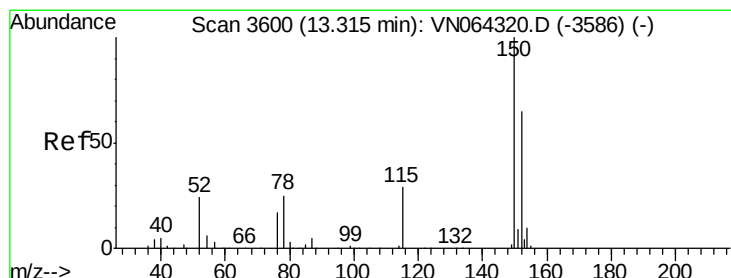
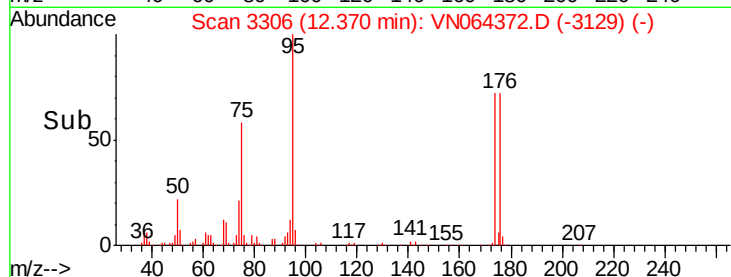
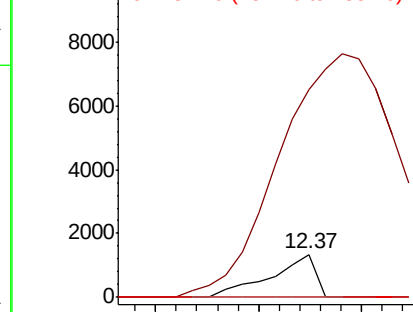
173 100

175 1344.6 25.4 76.0#

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: VN064372.D

Acq: 29 Oct 2020 14:34

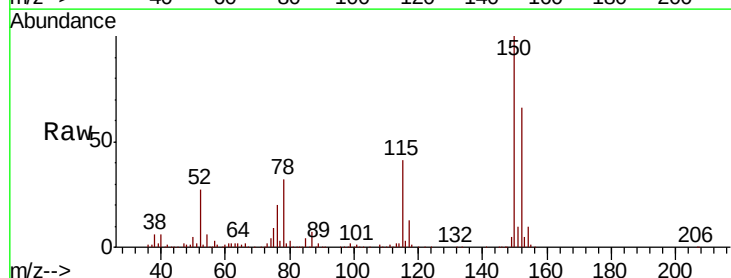
Tgt Ion:152 Resp: 193585

Ion Ratio Lower Upper

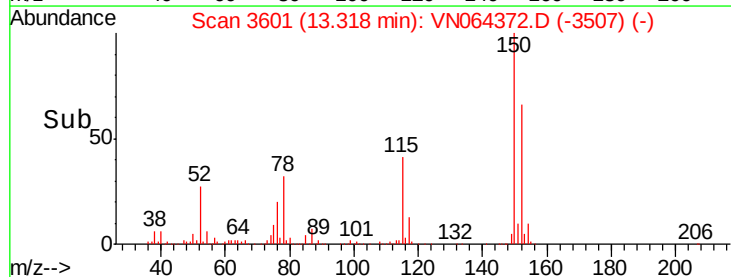
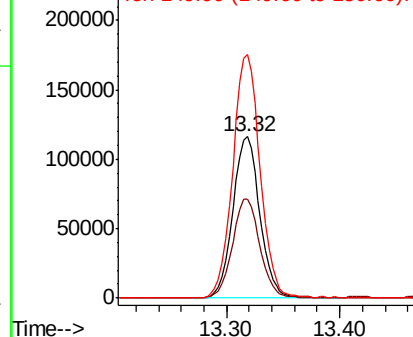
152 100

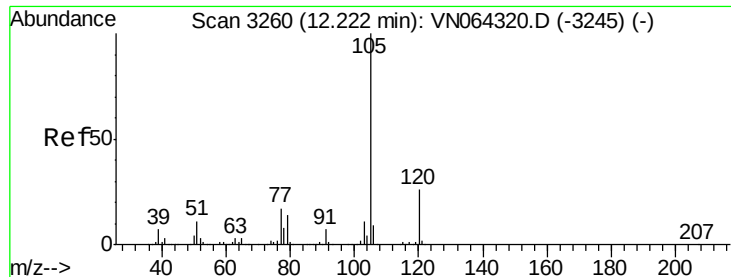
115 62.4 31.5 94.5

150 152.4 0.0 346.2



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





#73

Isopropylbenzene

Concen: 0.748 ug/l

RT: 12.23 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampleId :

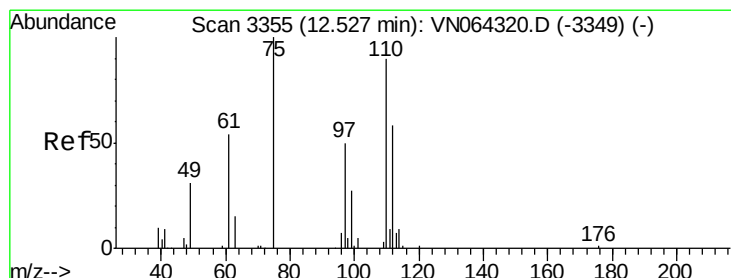
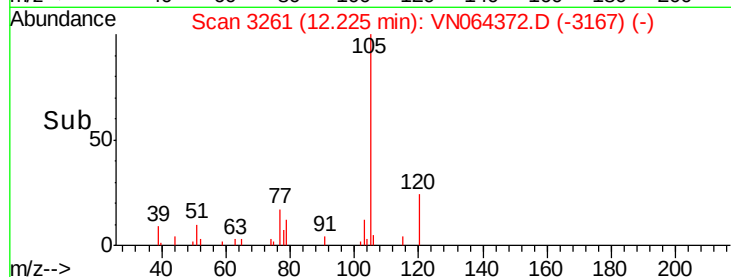
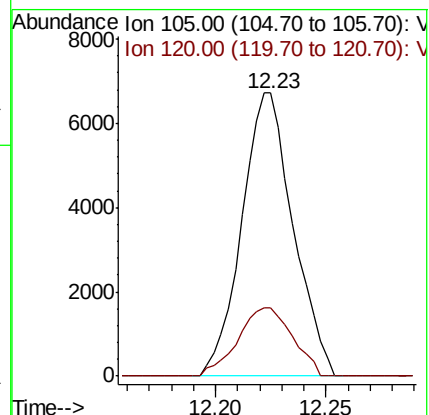
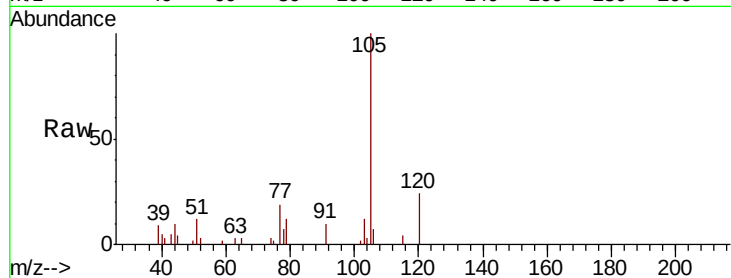
MW-3

Tot Ion:105 Resp: 10848

Ion Ratio Lower Upper

105 100

120 25.7 13.2 39.5



#76

1,2,3-Trichloropropane

Concen: 27.156 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064372.D

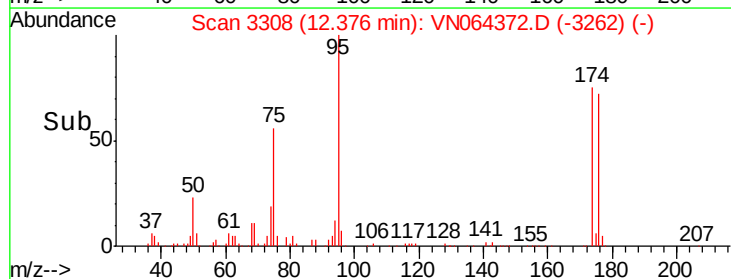
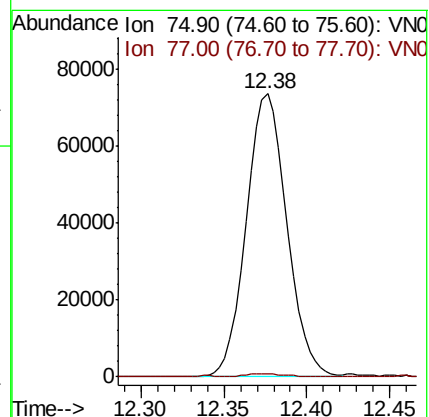
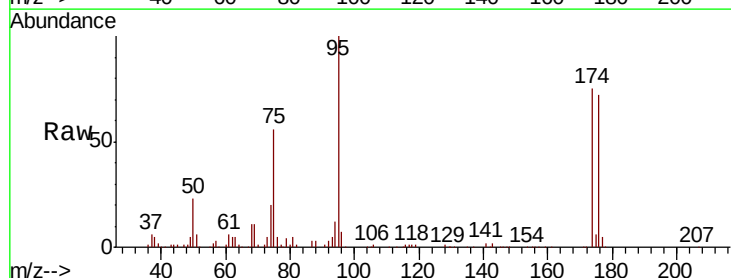
Acq: 29 Oct 2020 14:34

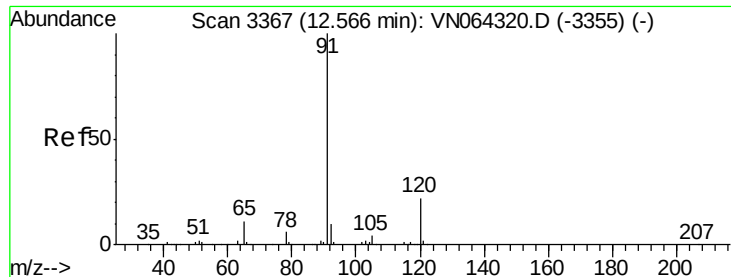
Tgt Ion: 75 Resp: 125890

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#78

n-propylbenzene

Concen: 0.325 ug/l

RT: 12.57 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampleId :

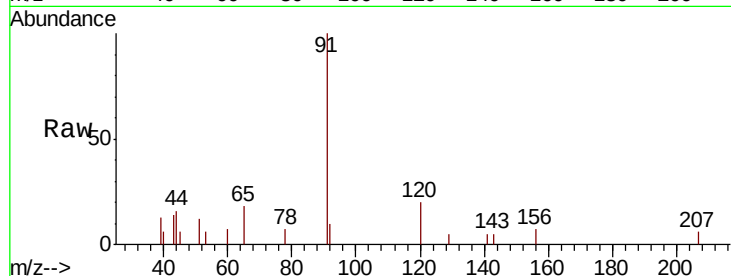
MW-3

Tot Ion: 91 Resp: 5341

Ion Ratio Lower Upper

91 100

120 19.5 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN064320.D (-3355) (-)

Ion 120.00 (119.70 to 120.70): VN064320.D (-3355) (-)

12.57

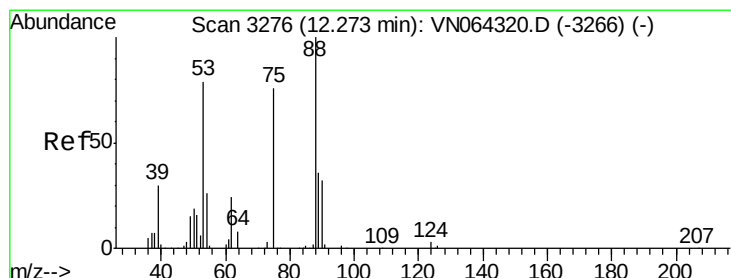
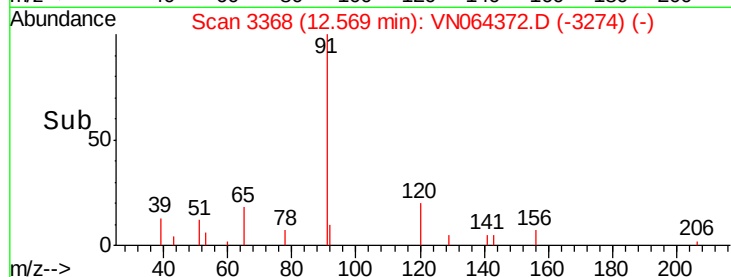
3000

2000

1000

0

Time--> 12.50 12.55 12.60



#81

trans-1,4-Dichloro-2-butene

Concen: 78.223 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

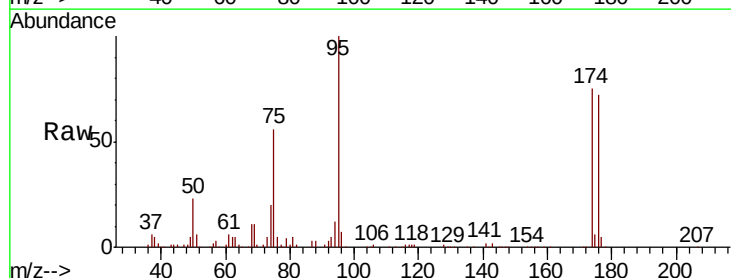
Tgt Ion: 75 Resp: 125890

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

89 0.0 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN064320.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN064320.D (-3266) (-)

12.38

100000

80000

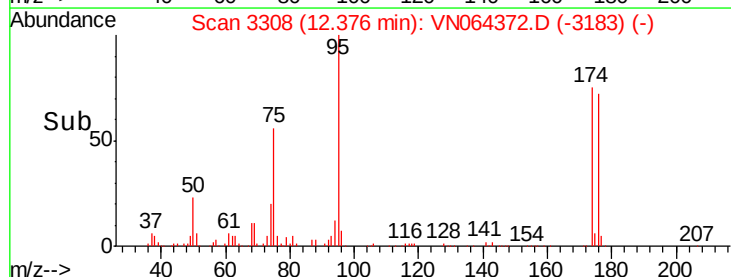
60000

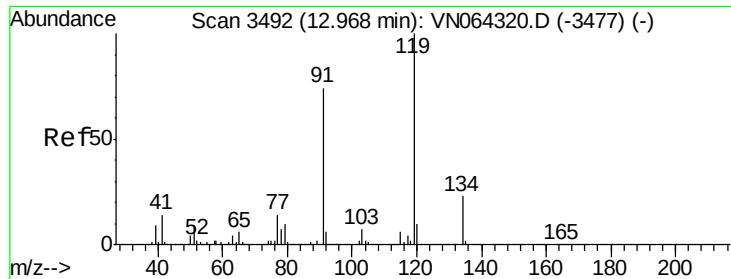
40000

20000

0

Time--> 12.30 12.35 12.40 12.45

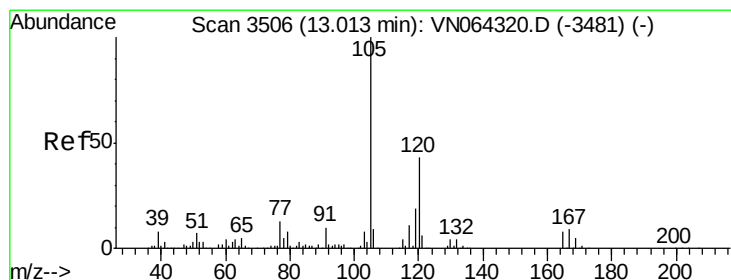
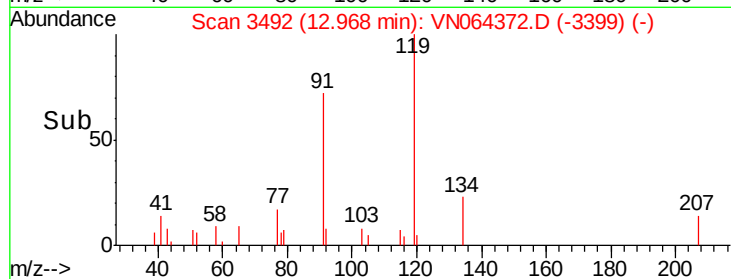
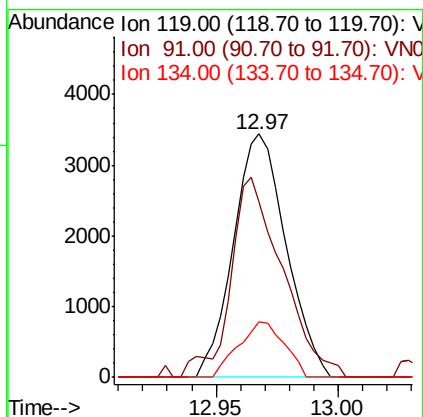
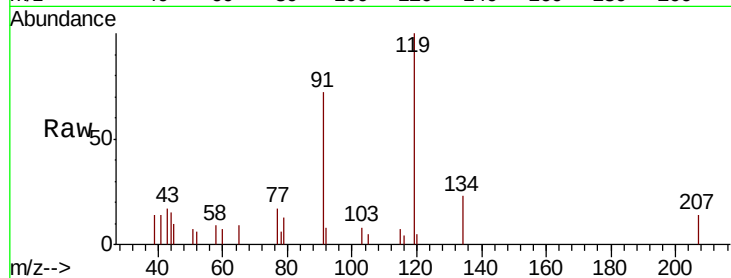




#83
 tert-Butylbenzene
 Concen: 0.512 ug/l
 RT: 12.97 min Scan# 3492
 Delta R.T. -0.00 min
 Lab File: VN064372.D
 Acq: 29 Oct 2020 14:34

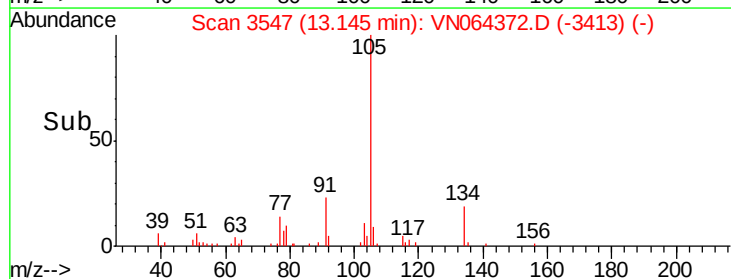
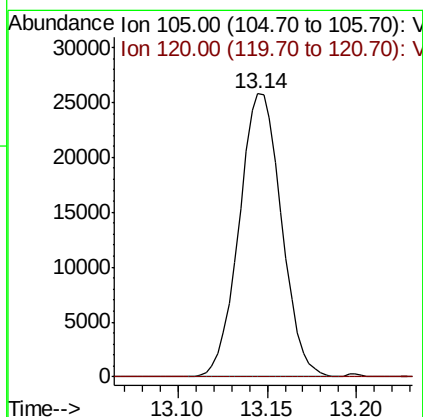
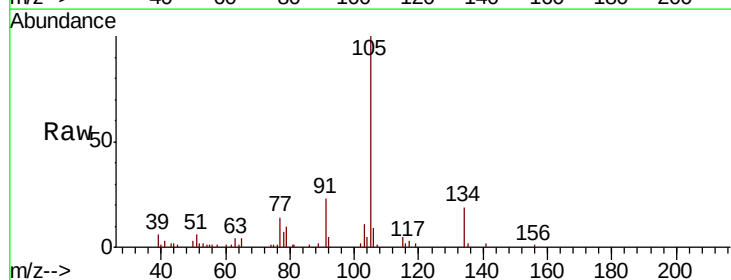
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

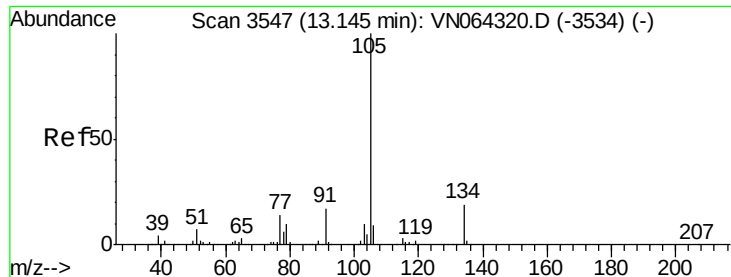
Tot Ion:119 Resp: 5152
 Ion Ratio Lower Upper
 119 100
 91 80.9 36.4 109.1
 134 19.8 12.0 36.1



#84
 1,2,4-Trimethylbenzene
 Concen: 3.477 ug/l
 RT: 13.14 min Scan# 3547
 Delta R.T. 0.13 min
 Lab File: VN064372.D
 Acq: 29 Oct 2020 14:34

Tgt Ion:105 Resp: 42627
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.3 64.0#





#85

sec-Butylbenzene

Concen: 3.272 ug/l

RT: 13.14 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampleId :

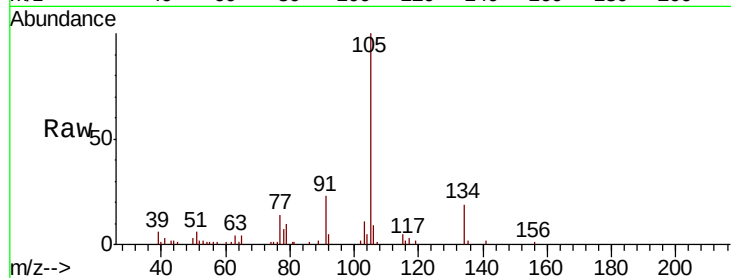
MW-3

Tot Ion:105 Resp: 42627

Ion Ratio Lower Upper

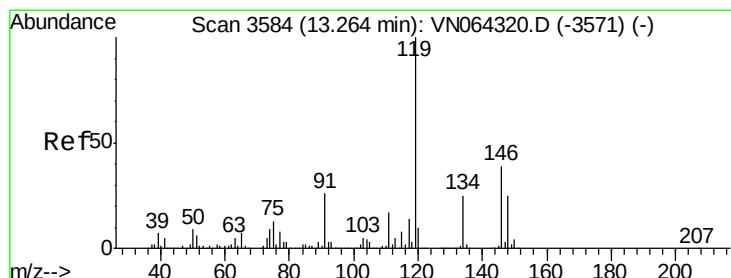
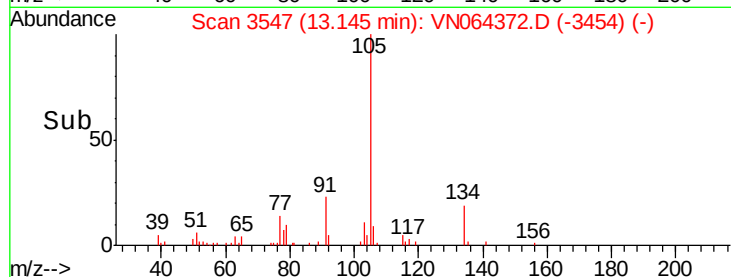
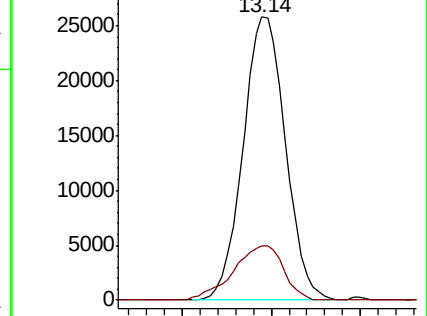
105 100

134 22.7 9.6 28.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.725 ug/l

RT: 13.42 min Scan# 3632

Delta R.T. 0.15 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

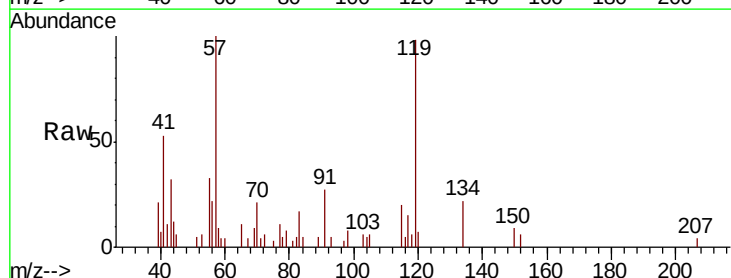
Tgt Ion:119 Resp: 8507

Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

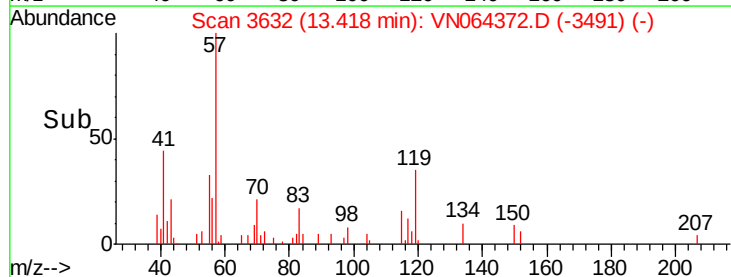
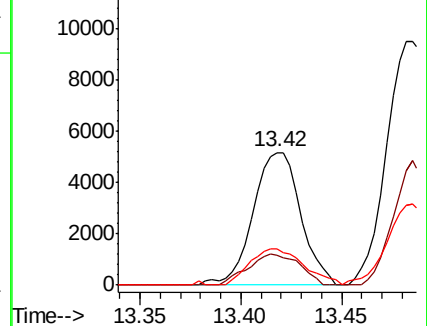
91 31.3 13.0 38.9

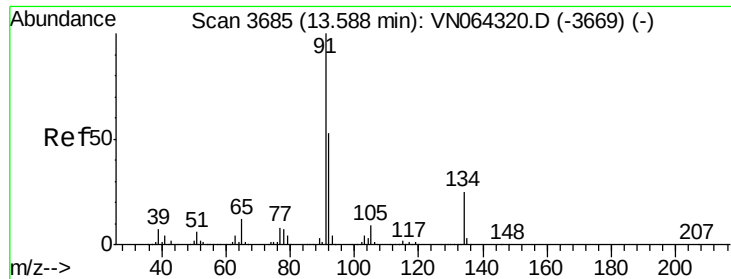


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 0.946 ug/l

RT: 13.57 min Scan# 3679

Delta R.T. -0.02 min

Lab File: VN064372.D

Acq: 29 Oct 2020 14:34

Instrument :

MSVOA_N

ClientSampled :

MW-3

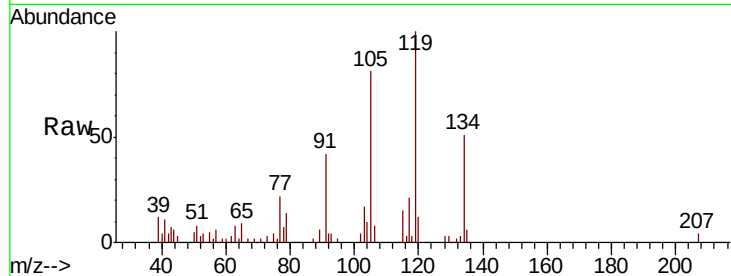
Tot Ion: 91 Resp: 9786

Ion Ratio Lower Upper

91 100

92 0.0 26.2 78.5#

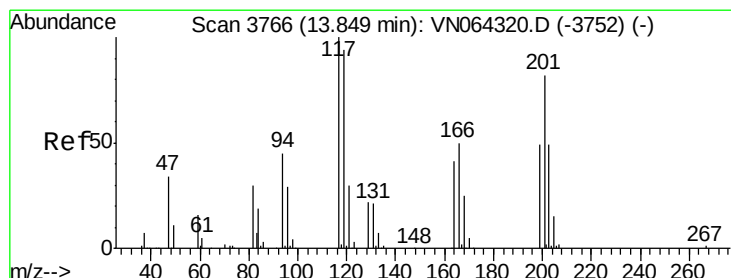
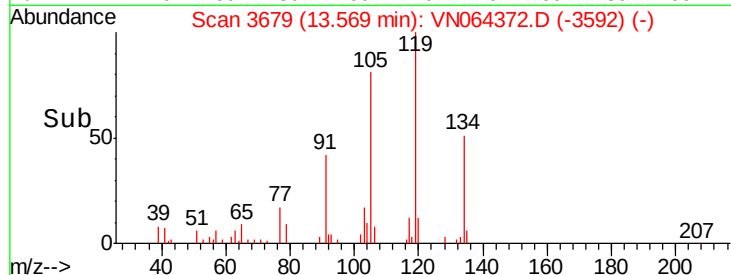
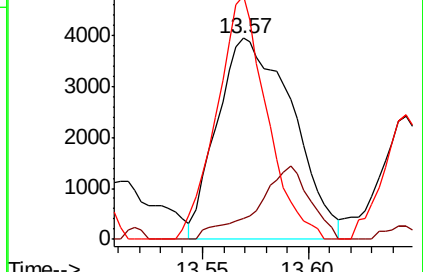
134 80.4 12.4 37.4#



Abundance Ion 91.00 (90.70 to 91.70): VN064372.D (-3673) (-)

Ion 92.00 (91.70 to 92.70): VN064372.D (-3673) (-)

Ion 134.00 (133.70 to 134.70): VN064372.D (-3673) (-)



#90

Hexachloroethane

Concen: 1.057 ug/l

RT: 13.86 min Scan# 3771

Delta R.T. 0.02 min

Lab File: VN064372.D

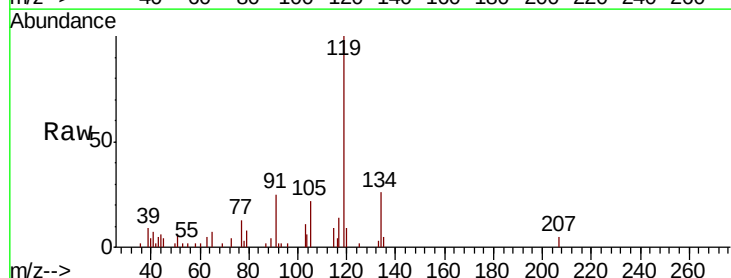
Acq: 29 Oct 2020 14:34

Tgt Ion: 117 Resp: 2330

Ion Ratio Lower Upper

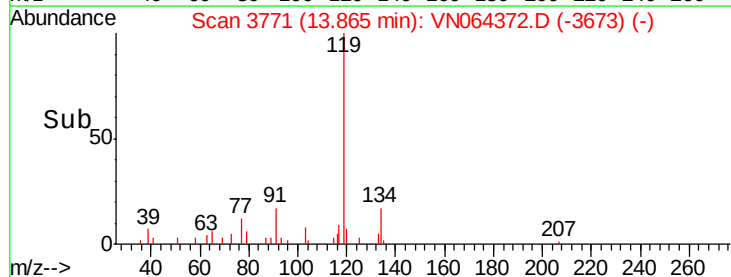
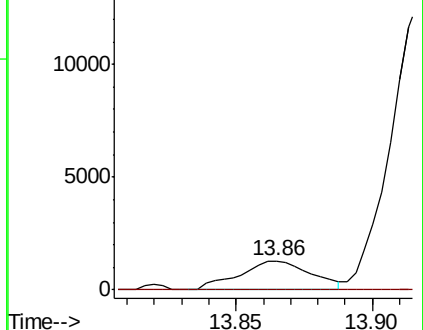
117 100

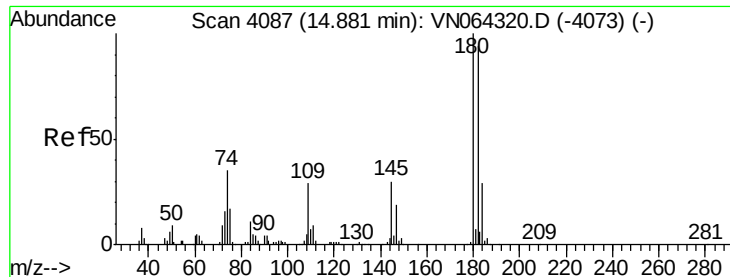
201 0.0 39.8 119.3#



Abundance Ion 116.80 (116.50 to 117.50): VN064372.D (-3673) (-)

Ion 200.70 (200.40 to 201.40): VN064372.D (-3673) (-)

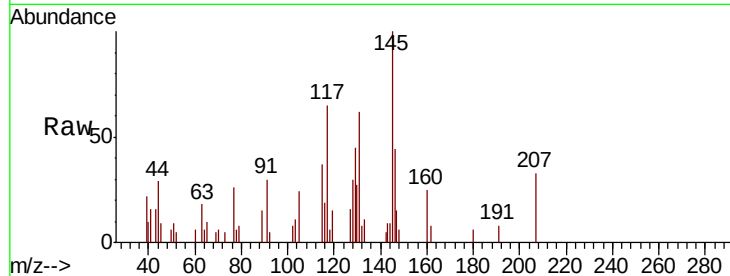




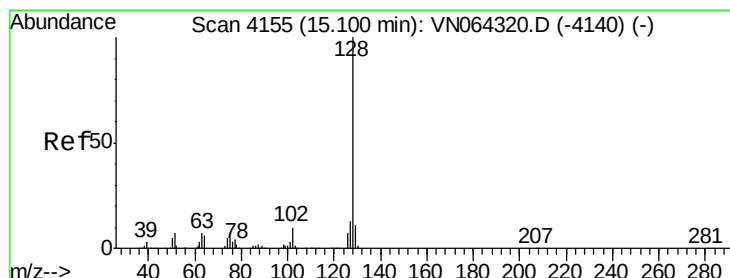
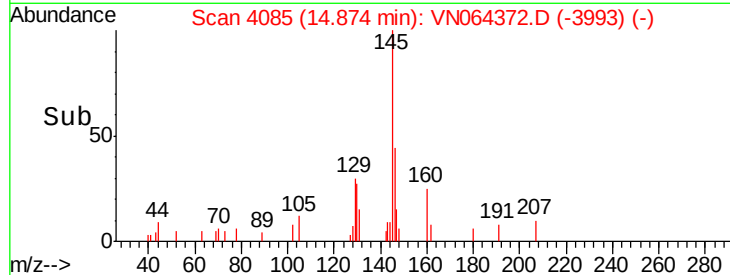
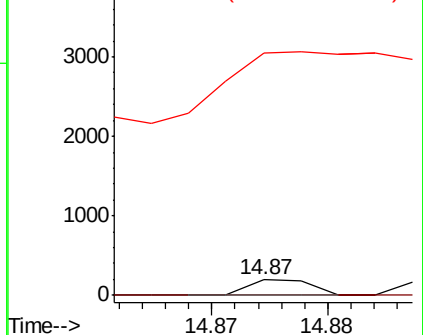
#93
 1,2,4-Trichlorobenzene
 Concen: 2.038 ug/l
 RT: 14.87 min Scan# 4085
 Delta R.T. -0.01 min
 Lab File: VN064372.D
 Acq: 29 Oct 2020 14:34

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion:180 Resp: 74
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.6 139.7#
 145 9001.4 15.3 45.9#

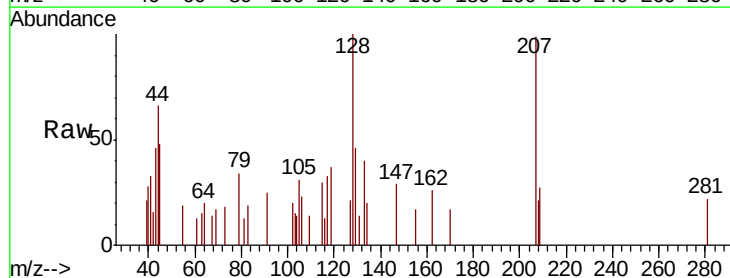


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

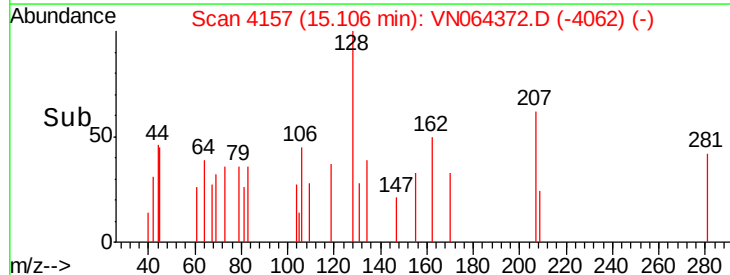
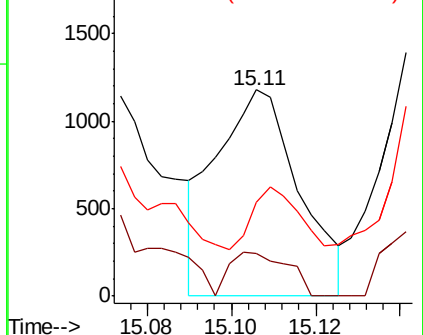


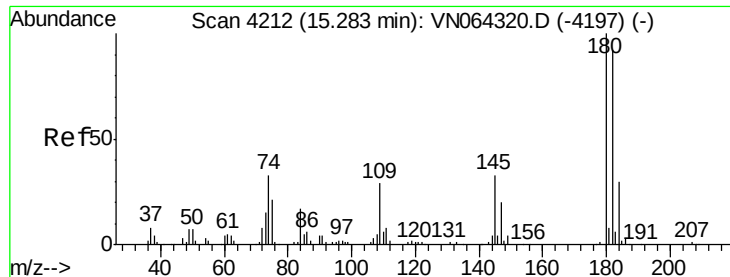
#95
 Naphthalene
 Concen: 2.533 ug/l
 RT: 15.11 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN064372.D
 Acq: 29 Oct 2020 14:34

Tgt Ion:128 Resp: 1614
 Ion Ratio Lower Upper
 128 100
 127 14.7 10.4 15.6
 129 0.0 8.6 13.0#



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

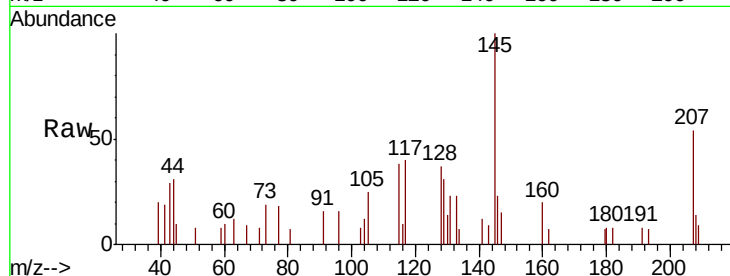




#96
 1,2,3-Trichlorobenzene
 Concen: 2.207 ug/l
 RT: 15.28 min Scan# 4210
 Delta R.T. -0.01 min
 Lab File: VN064372.D
 Acq: 29 Oct 2020 14:34

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion:180 Resp: 90
 Ion Ratio Lower Upper
 180 100
 182 75.6 46.1 138.3
 145 4505.6 16.2 48.5#



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

