

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102720\
 Data File : VN064336.D
 Acq On : 27 Oct 2020 19:13
 Operator : JC/MD
 Sample : L4488-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1576

Quant Time: Oct 28 04:28:30 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	7.63	168	216747	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	387903	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	379014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	167703	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	181478	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
35) Dibromofluoromethane	7.55	113	126458	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
50) Toluene-d8	10.06	98	479131	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
62) 4-Bromofluorobenzene	12.38	95	206566	55.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.74%	

Target Compounds

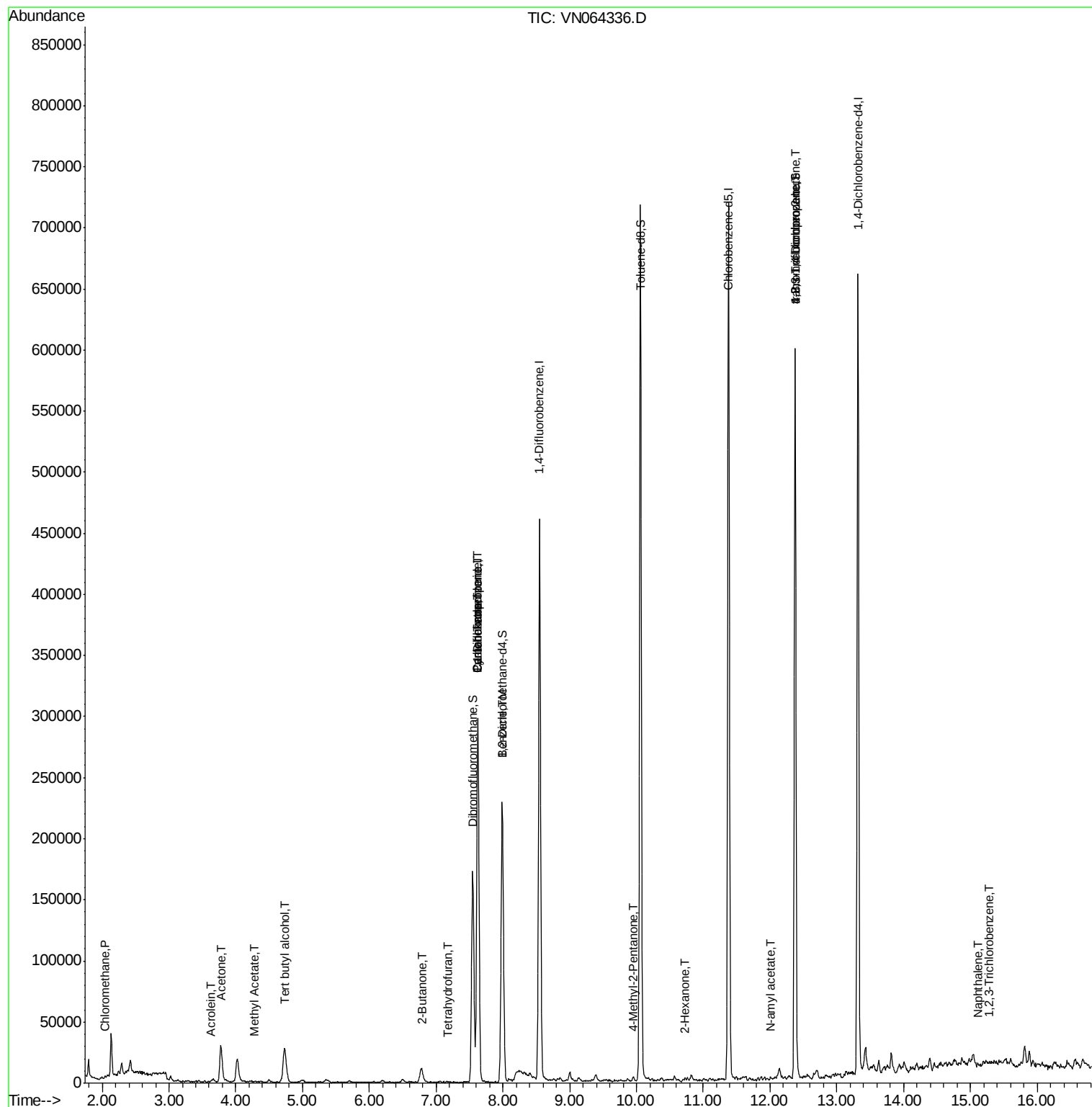
						Qvalue
3) Chloromethane	2.04	50	555	0.206	ug/l #	43
11) Tert butyl alcohol	4.73	59	51881	102.607	ug/l	94
13) Acrolein	3.62	56	29	17.925	ug/l #	10
16) Acetone	3.78	43	52500	37.981	ug/l	96
18) Methyl Acetate	4.29	43	1026	0.392	ug/l #	70
25) 2-Butanone	6.78	43	4071	2.328	ug/l	99
29) Tetrahydrofuran	7.17	42	471	0.415	ug/l #	64
31) Cyclohexane	7.62	56	5829	1.442	ug/l #	39
36) 1,1-Dichloropropene	7.63	75	18328	4.682	ug/l #	53
38) Carbon Tetrachloride	7.63	117	24459	5.389	ug/l #	17
40) Benzene	8.00	78	52544	4.822	ug/l	99
51) 4-Methyl-2-Pentanone	9.95	43	2092	0.532	ug/l	92
59) 2-Hexanone	10.74	43	1111	0.384	ug/l	75
74) N-amyl acetate	12.00	43	1192	0.216	ug/l #	54
76) 1,2,3-Trichloropropane	12.38	75	116403	28.985	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	116403	83.491	ug/l #	8
95) Naphthalene	15.11	128	793	2.472	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.28	180	208	2.249	ug/l #	28

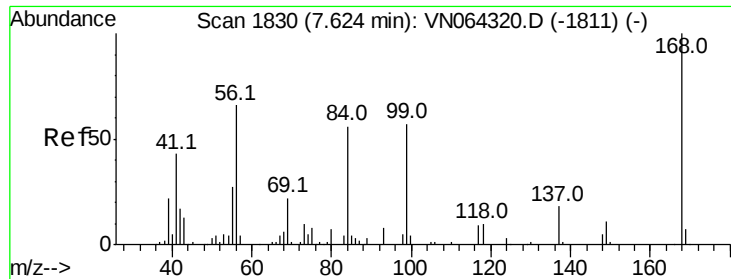
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064336.D

Acq: 27 Oct 2020 19:13

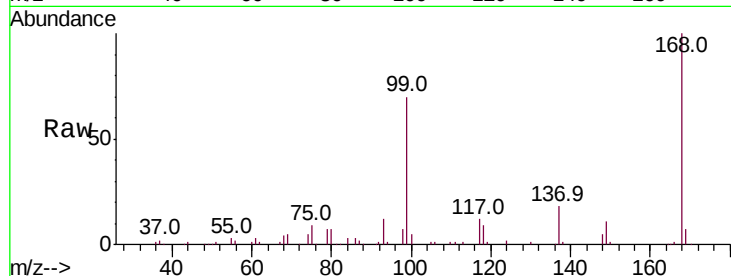
Instrument :
MSVOA_N
ClientSampled :
1576

Tot Ion:168 Resp: 216747

Ion Ratio Lower Upper

168 100

99 70.1 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

60000

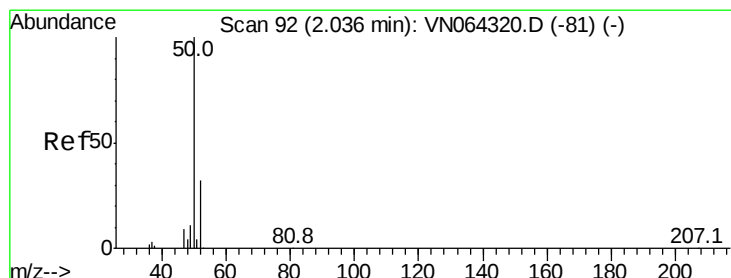
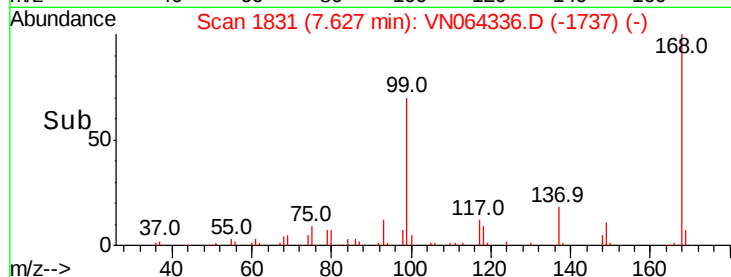
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.206 ug/l

RT: 2.04 min Scan# 92

Delta R.T. -0.00 min

Lab File: VN064336.D

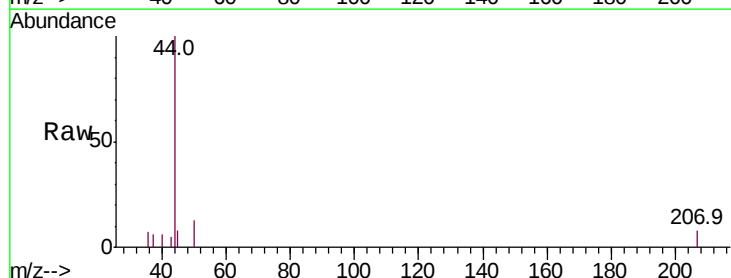
Acq: 27 Oct 2020 19:13

Tgt Ion: 50 Resp: 555

Ion Ratio Lower Upper

50 100

52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

500

400

300

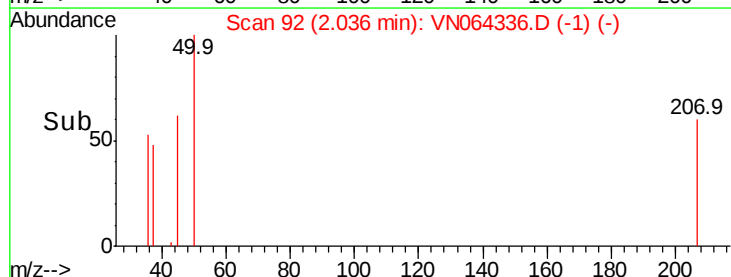
200

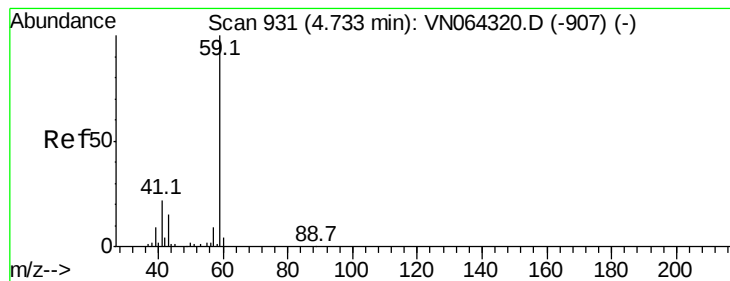
100

0

Time-->

2.00 2.02 2.04 2.06



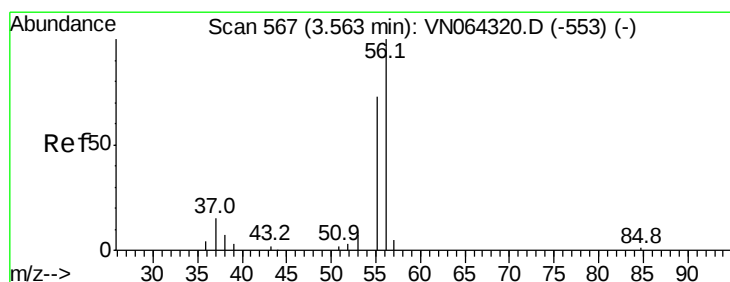
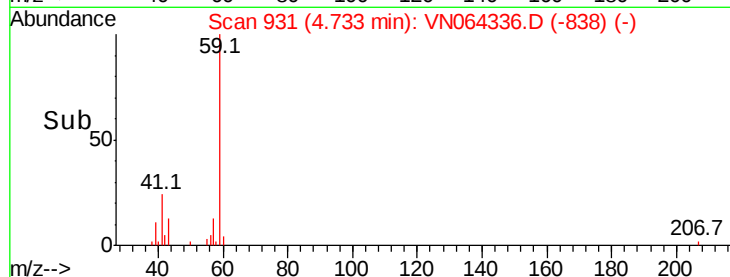
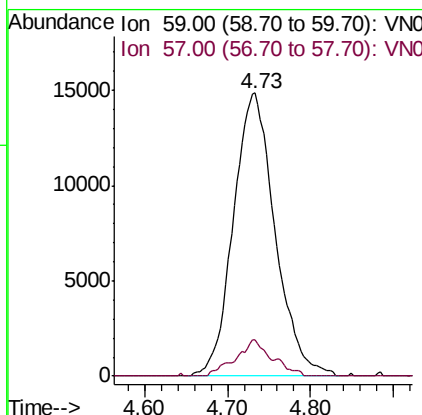
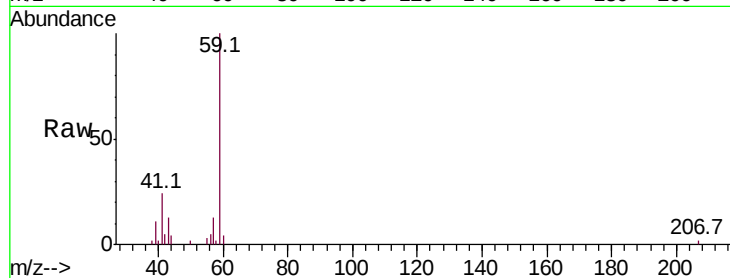


#11

Tert butyl alcohol
Concen: 102.607 ug/l
RT: 4.73 min Scan# 931
Delta R.T. -0.00 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

Instrument :
MSVOA_N
ClientSampled :
1576

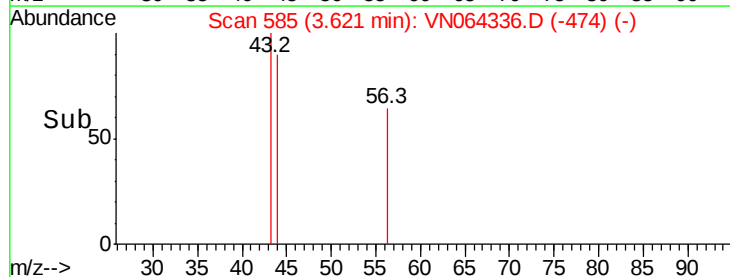
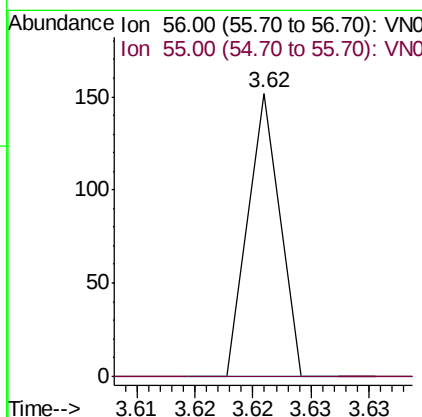
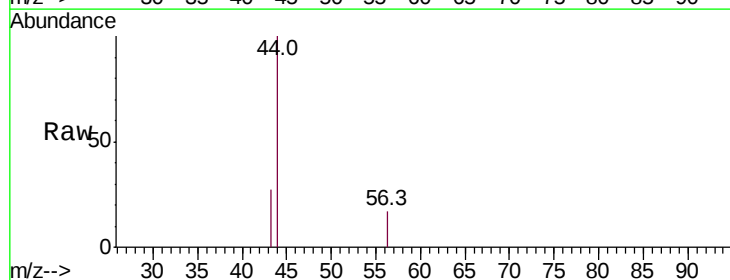
Tot Ion: 59 Resp: 51881
Ion Ratio Lower Upper
59 100
57 9.4 9.4 14.0

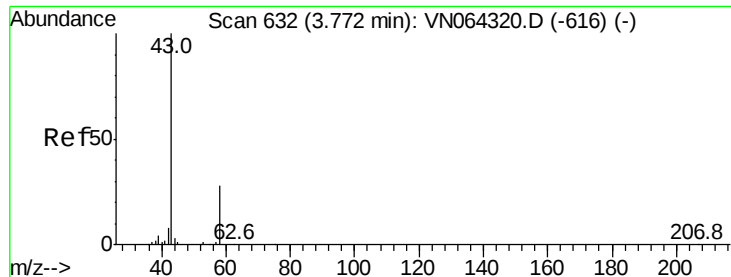


#13

Acrolein
Concen: 17.925 ug/l
RT: 3.62 min Scan# 585
Delta R.T. 0.06 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

Tgt Ion: 56 Resp: 29
Ion Ratio Lower Upper
56 100
55 0.0 62.6 94.0#





#16

Acetone

Concen: 37.981 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

Instrument :

MSVOA_N

ClientSampled :

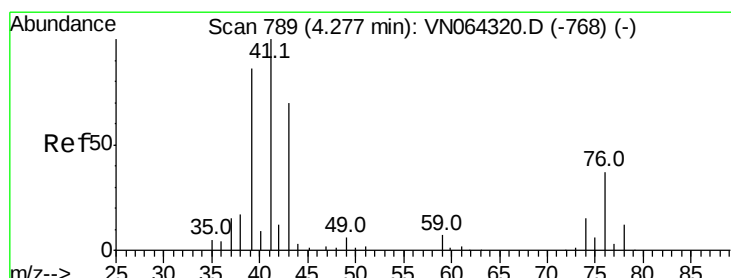
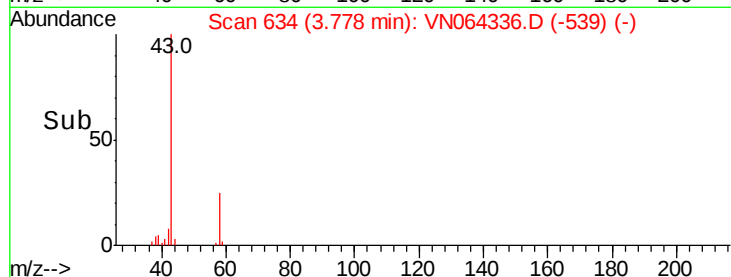
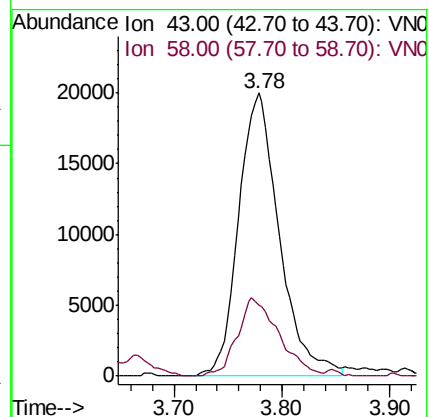
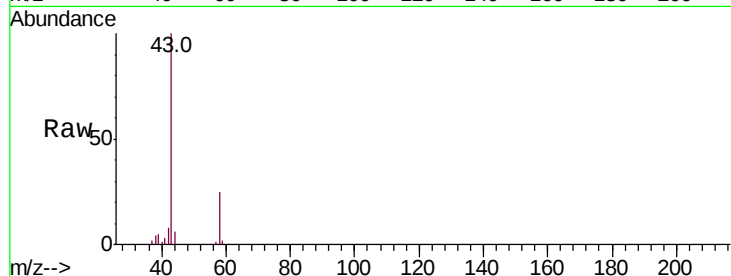
1576

Tot Ion: 43 Resp: 52500

Ion Ratio Lower Upper

43 100

58 25.3 22.1 33.1



#18

Methyl Acetate

Concen: 0.392 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN064336.D

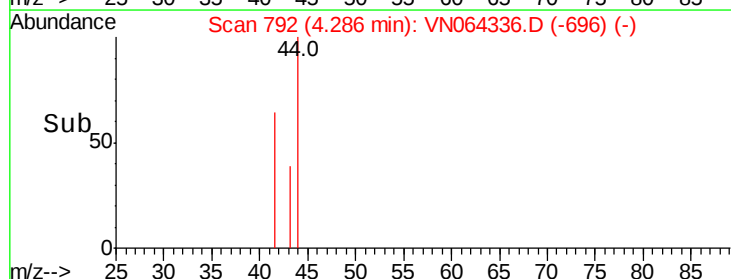
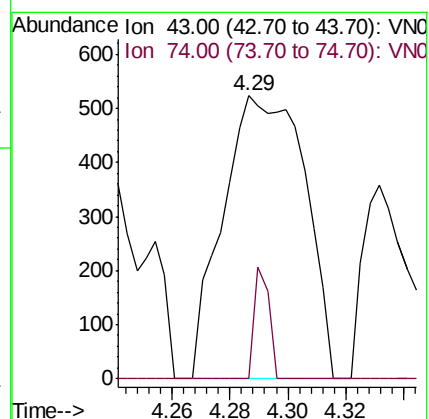
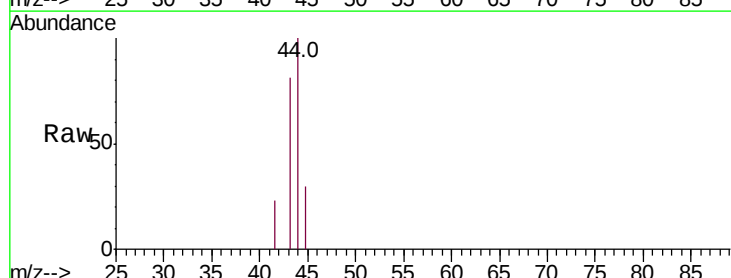
Acq: 27 Oct 2020 19:13

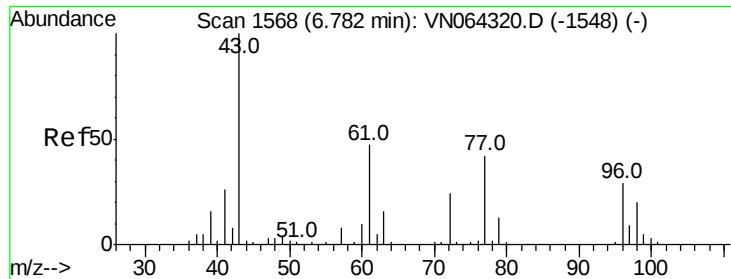
Tgt Ion: 43 Resp: 1026

Ion Ratio Lower Upper

43 100

74 6.9 16.7 25.1#





#25

2-Butanone

Concen: 2.328 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

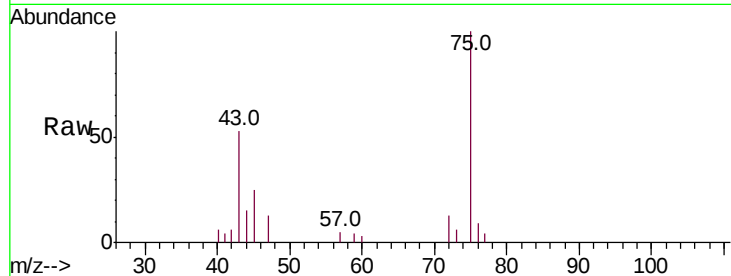
Instrument :
MSVOA_N
ClientSampled :
1576

Tot Ion: 43 Resp: 4071

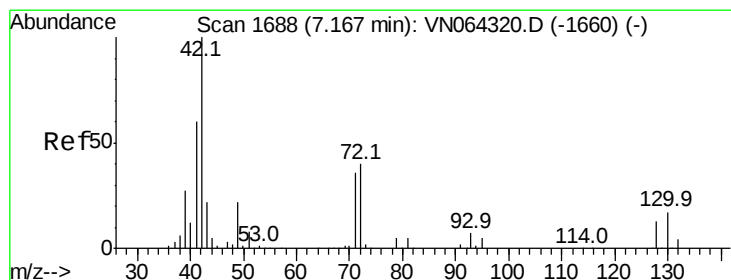
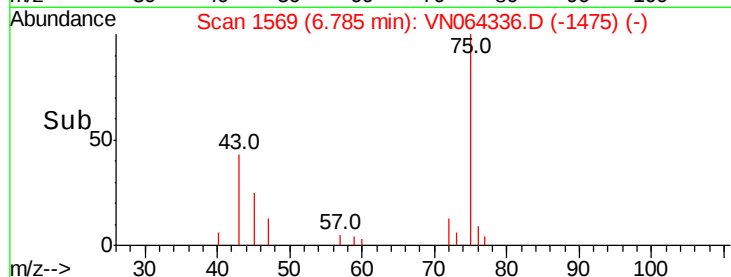
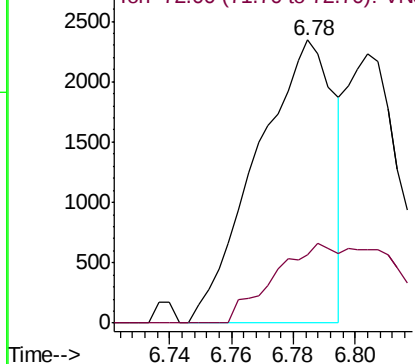
Ion Ratio Lower Upper

43 100

72 24.2 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO



#29

Tetrahydrofuran

Concen: 0.415 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

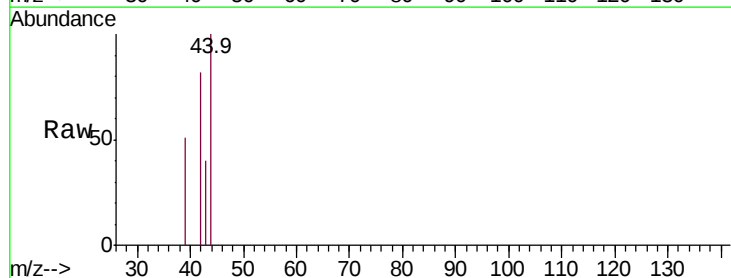
Tgt Ion: 42 Resp: 471

Ion Ratio Lower Upper

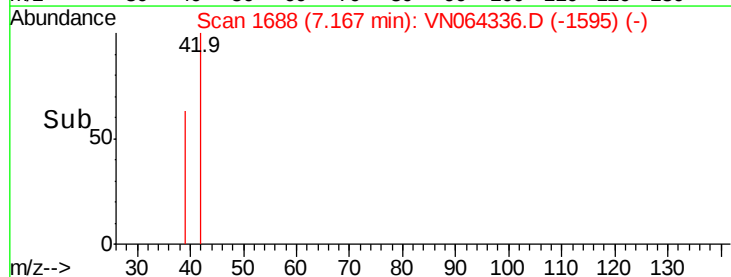
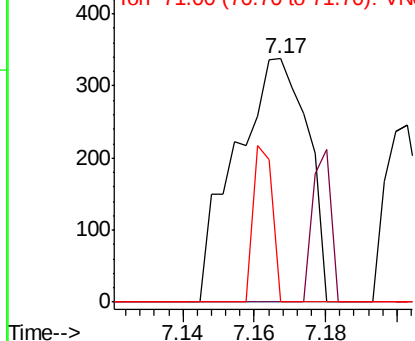
42 100

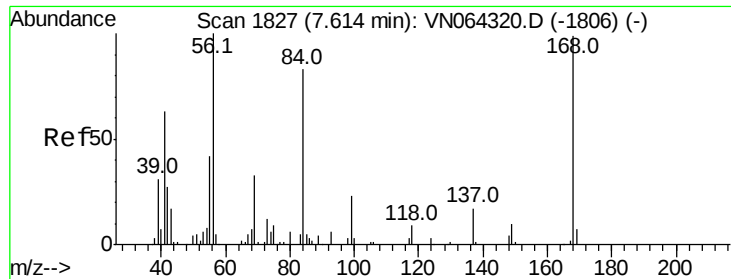
72 15.9 31.6 47.4#

71 17.0 29.4 44.0#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

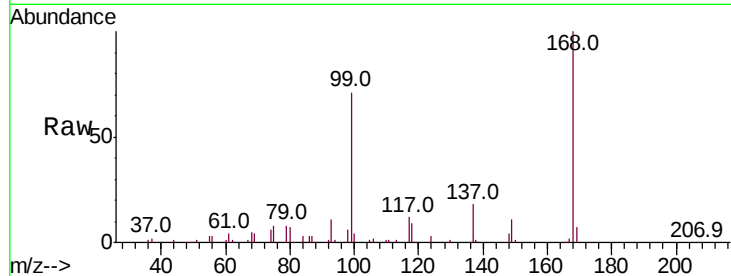




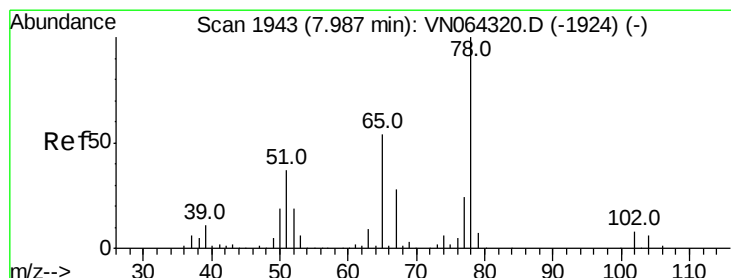
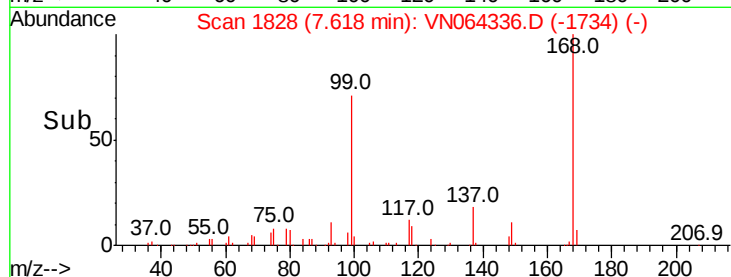
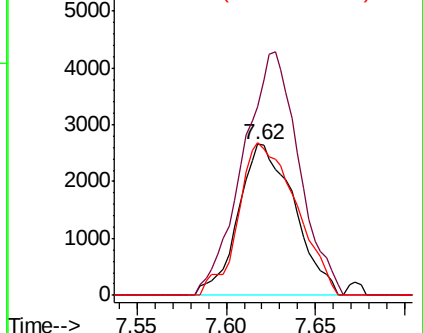
#31
Cyclohexane
Concen: 1.442 ug/l
RT: 7.62 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

Instrument :
MSVOA_N
ClientSampleId :
1576

Tot Ion: 56 Resp: 5829
Ion Ratio Lower Upper
56 100
69 124.9 25.8 38.8#
84 101.3 66.3 99.5#

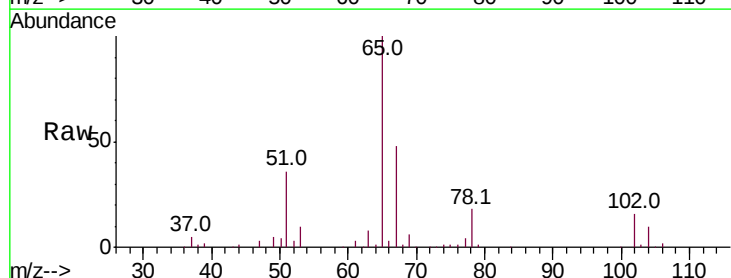


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

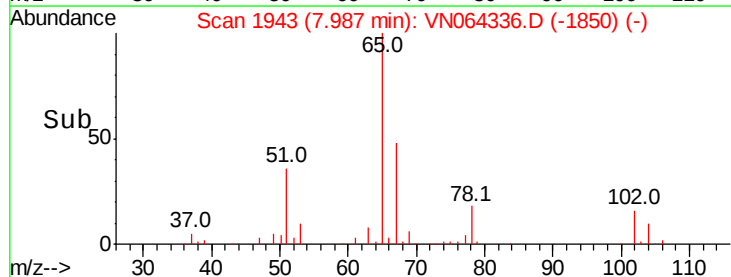
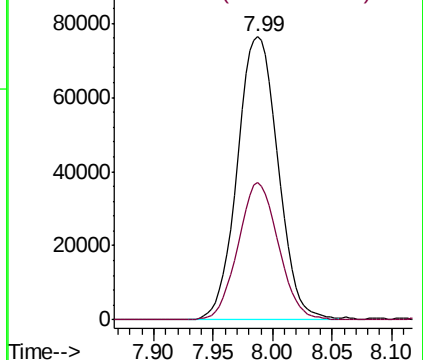


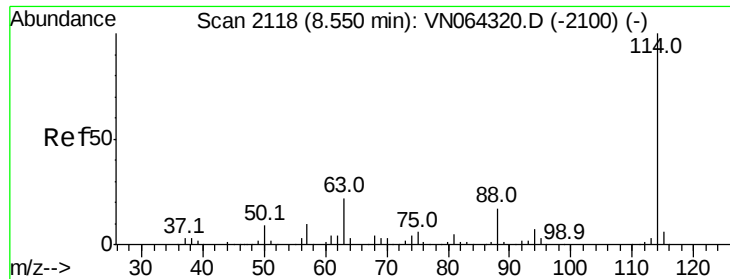
#33
1,2-Dichloroethane-d4
Concen: 52.103 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

Tgt Ion: 65 Resp: 181478
Ion Ratio Lower Upper
65 100
67 47.9 0.0 99.2



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

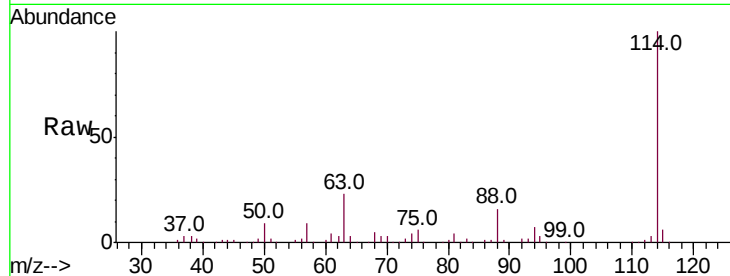




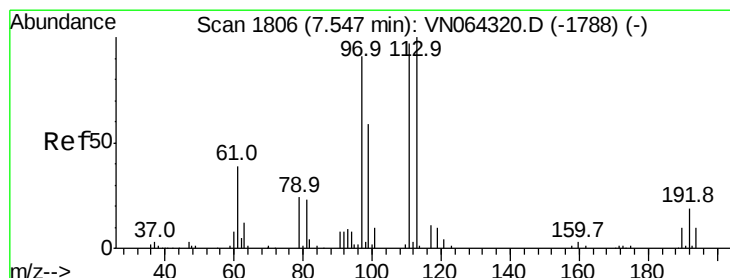
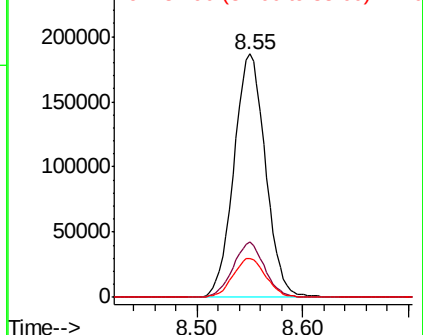
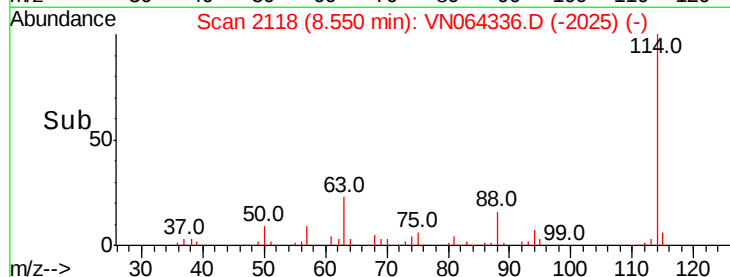
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064336.D
 Acq: 27 Oct 2020 19:13

Instrument :
 MSVOA_N
 ClientSampleId :
 1576

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.6
88	16.1	0.0	33.4

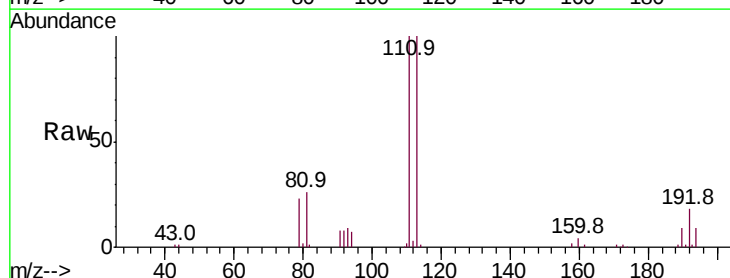


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

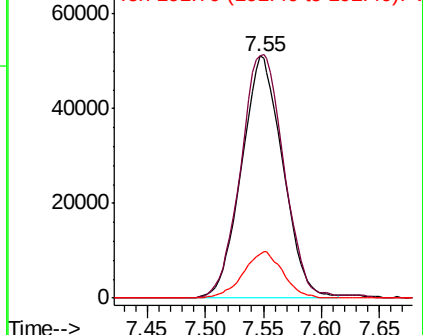
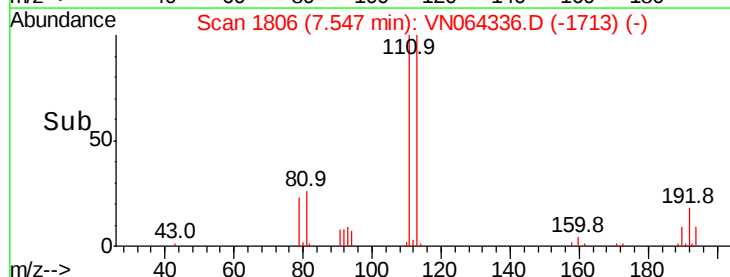


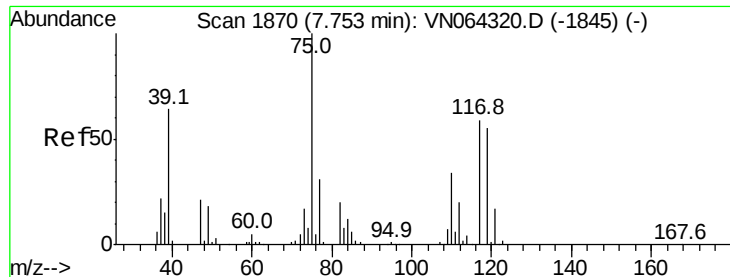
#35
 Dibromofluoromethane
 Concen: 48.885 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064336.D
 Acq: 27 Oct 2020 19:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.6	81.5	122.3
192	18.5	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: 4.682 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

Instrument :

MSVOA_N

ClientSampled :

1576

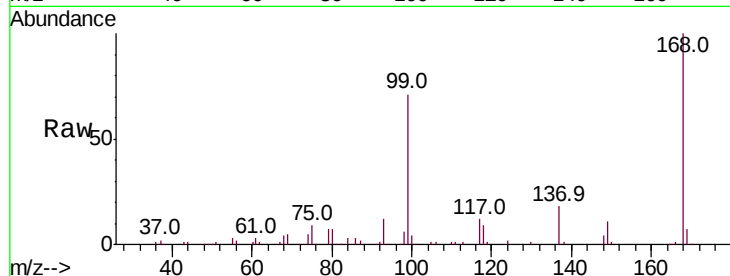
Tot Ion: 75 Resp: 18328

Ion Ratio Lower Upper

75 100

110 11.3 16.8 50.3#

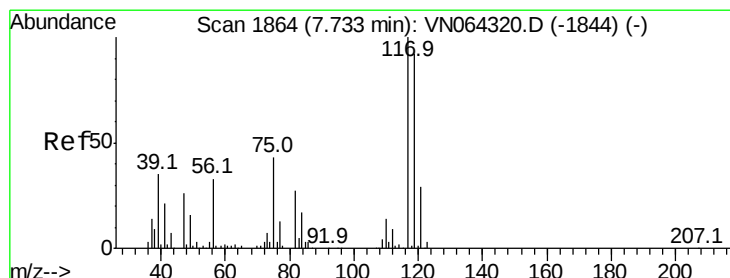
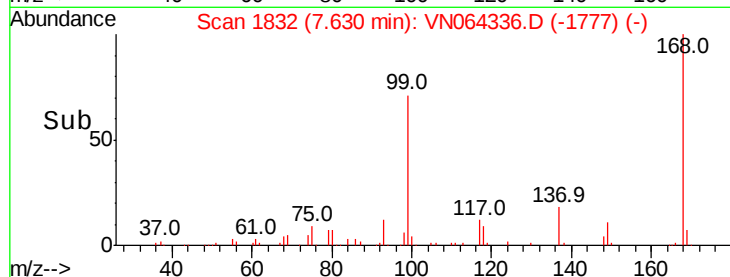
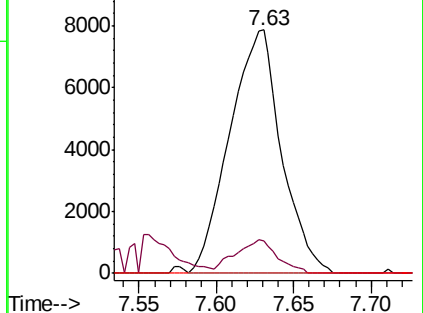
77 0.0 24.2 36.4#



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: 5.389 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

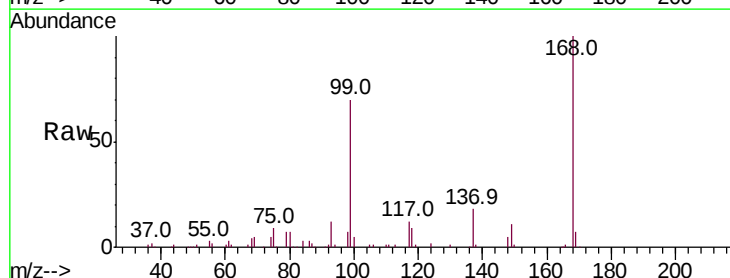
Tgt Ion:117 Resp: 24459

Ion Ratio Lower Upper

117 100

119 4.5 73.7 110.5#

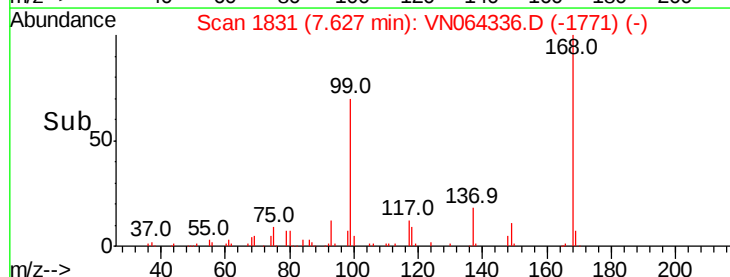
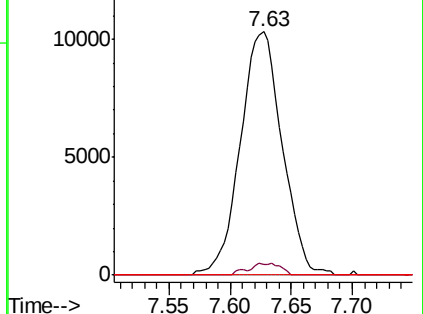
121 0.0 22.8 34.2#

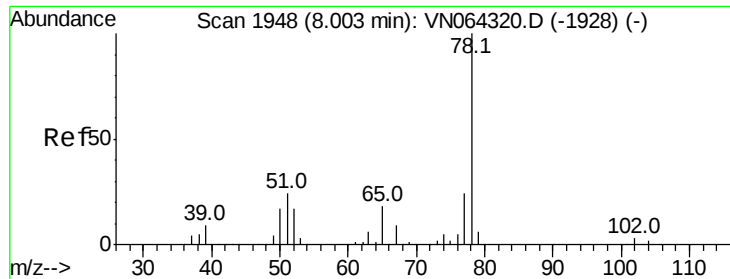


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 4.822 ug/l

RT: 8.00 min Scan# 1947

Delta R.T. -0.00 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

Instrument :

MSVOA_N

ClientSampleId :

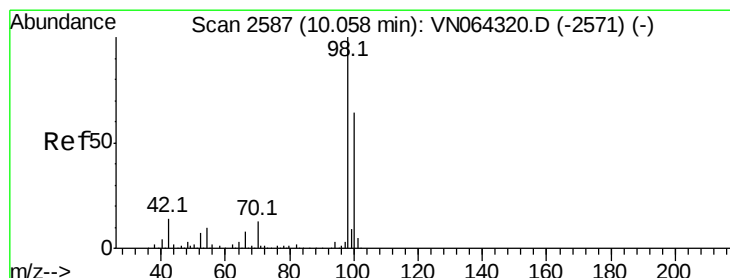
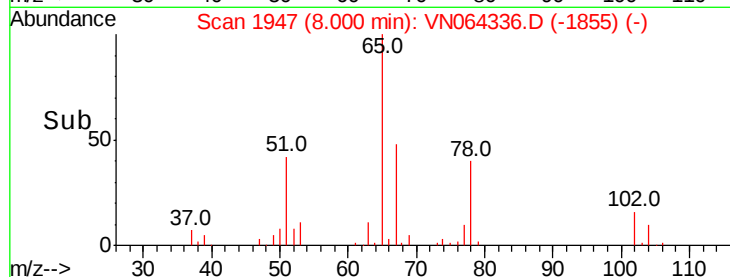
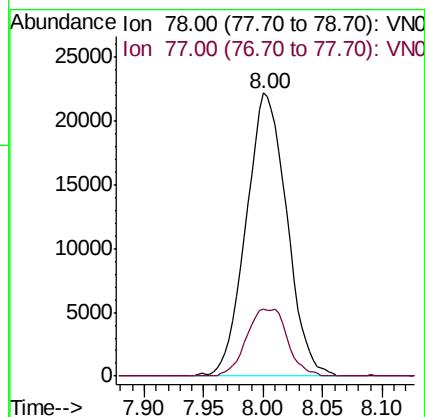
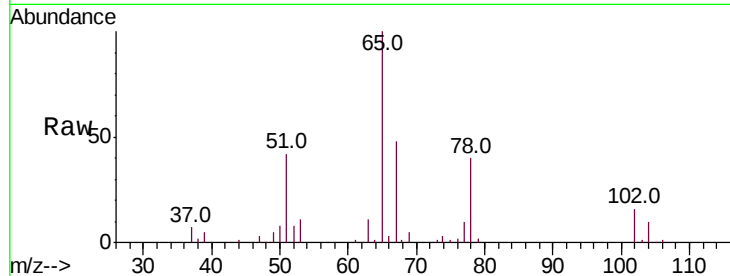
1576

Tot Ion: 78 Resp: 52544

Ion Ratio Lower Upper

78 100

77 23.9 18.8 28.2



#50

Toluene-d8

Concen: 50.074 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064336.D

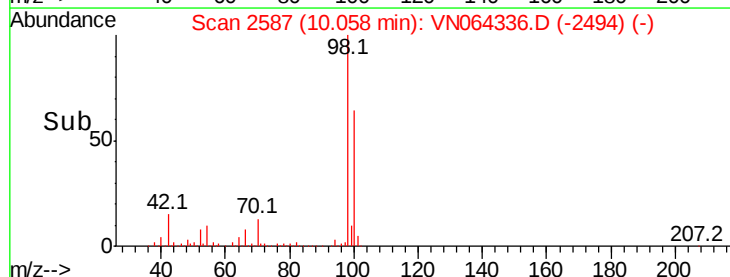
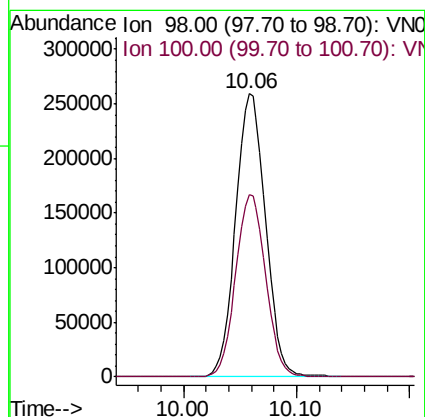
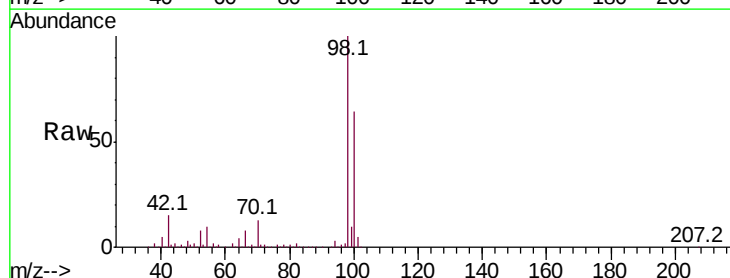
Acq: 27 Oct 2020 19:13

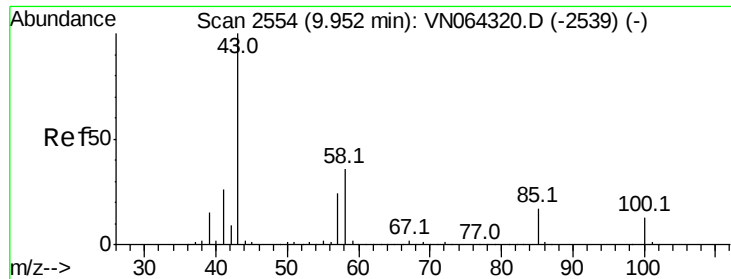
Tgt Ion: 98 Resp: 479131

Ion Ratio Lower Upper

98 100

100 64.5 50.9 76.3

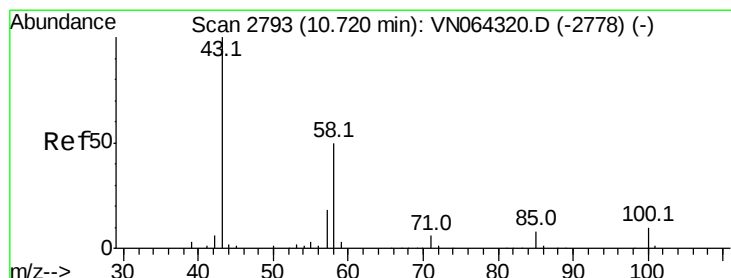
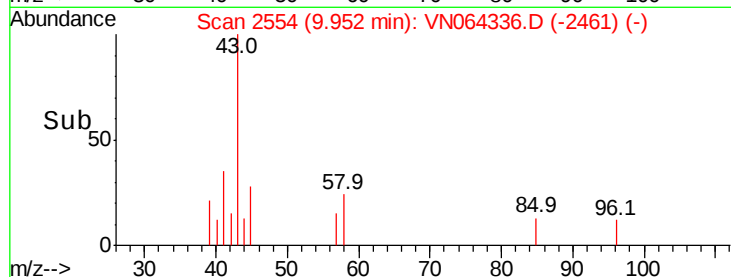
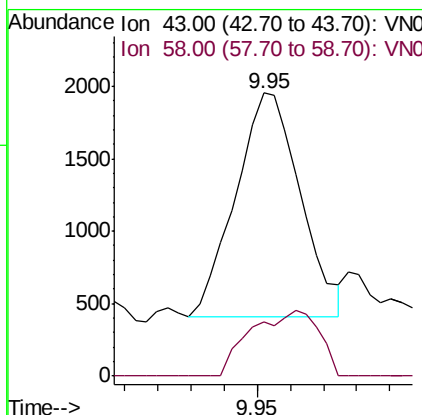
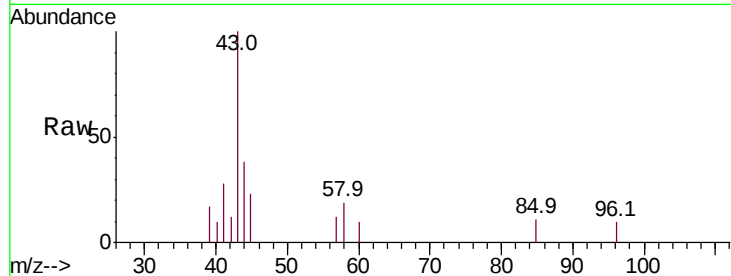




#51
4-Methyl-2-Pentanone
Concen: 0.532 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

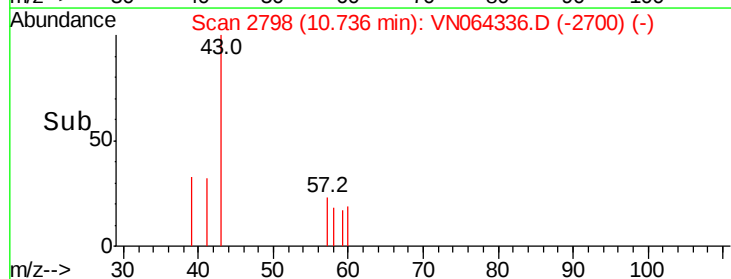
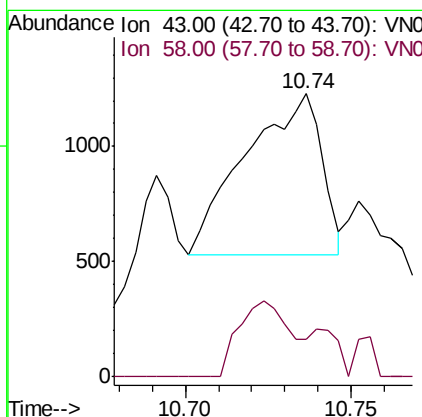
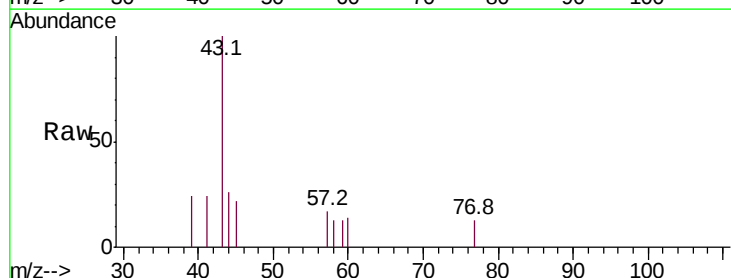
Instrument :
MSVOA_N
ClientSampled :
1576

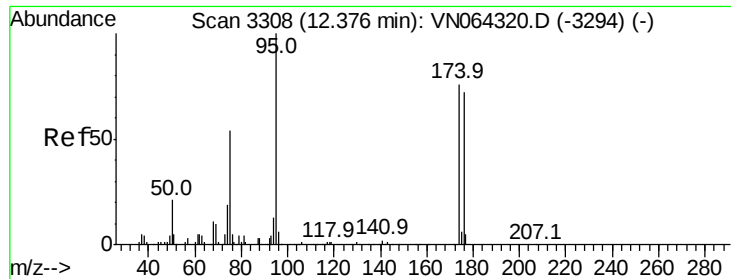
Tot Ion: 43 Resp: 2092
Ion Ratio Lower Upper
43 100
58 30.9 28.6 42.8



#59
2-Hexanone
Concen: 0.384 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

Tgt Ion: 43 Resp: 1111
Ion Ratio Lower Upper
43 100
58 33.0 25.0 75.0

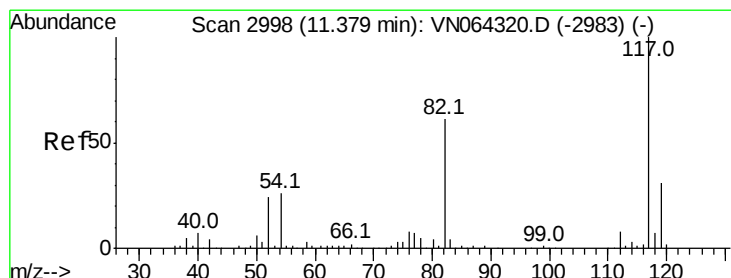
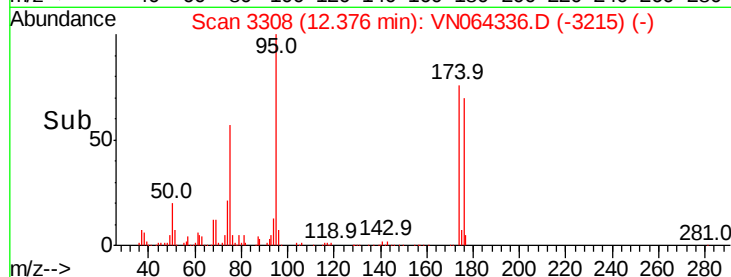
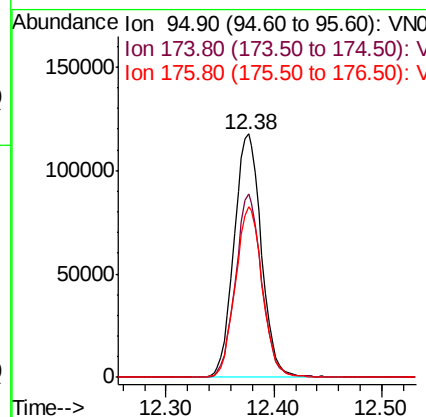
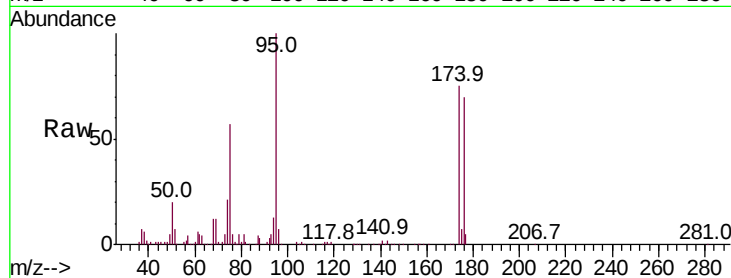




#62
4-Bromofluorobenzene
Concen: 55.370 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

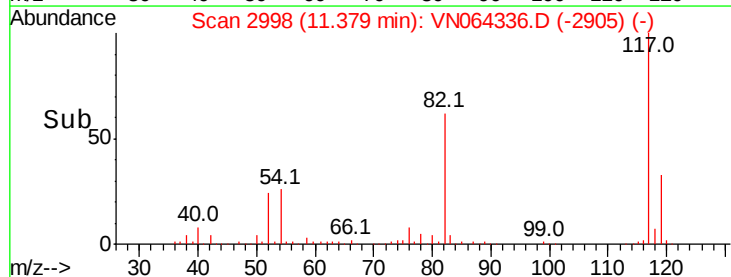
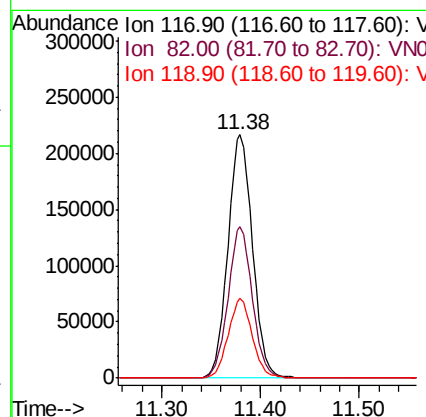
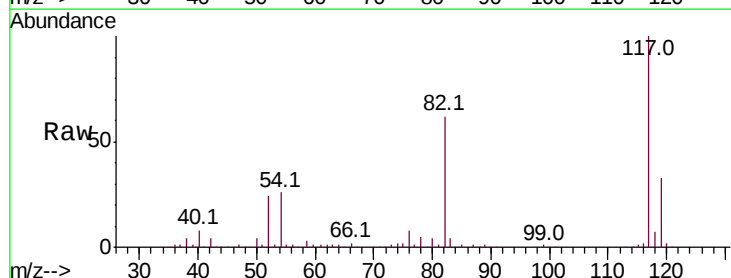
Instrument :
MSVOA_N
ClientSampleId :
1576

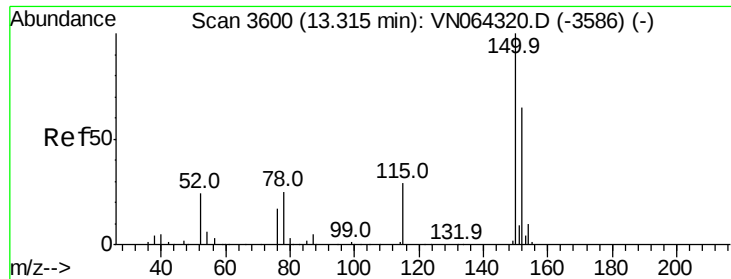
Tot Ion: 95 Resp: 206566
Ion Ratio Lower Upper
95 100
174 72.9 0.0 147.4
176 69.8 0.0 143.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064336.D
Acq: 27 Oct 2020 19:13

Tgt Ion: 117 Resp: 379014
Ion Ratio Lower Upper
117 100
82 62.4 48.8 73.2
119 32.6 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

Instrument :

MSVOA_N

ClientSampled :

1576

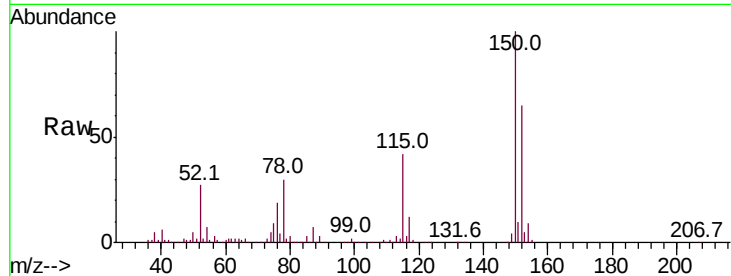
Tot Ion:152 Resp: 167703

Ion Ratio Lower Upper

152 100

115 64.2 31.5 94.5

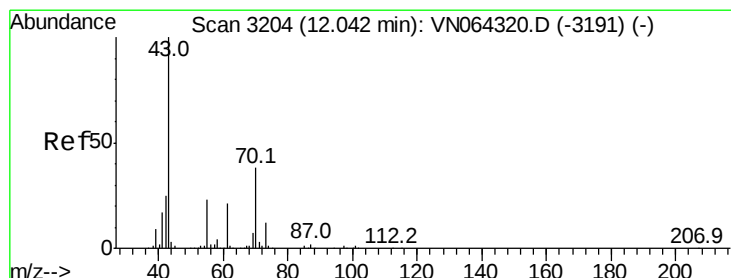
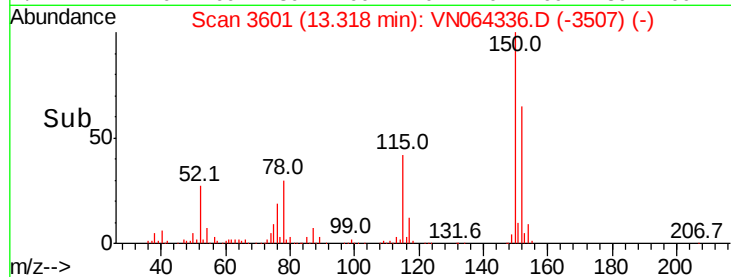
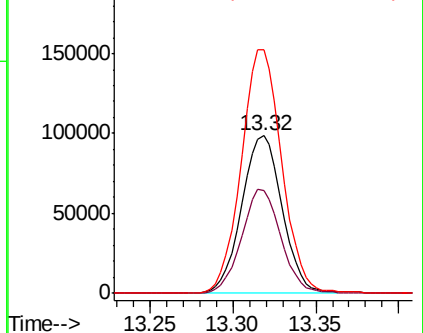
150 154.4 0.0 346.2



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



#74

N-ethyl acetate

Concen: 0.216 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

Tgt Ion: 43 Resp: 1192

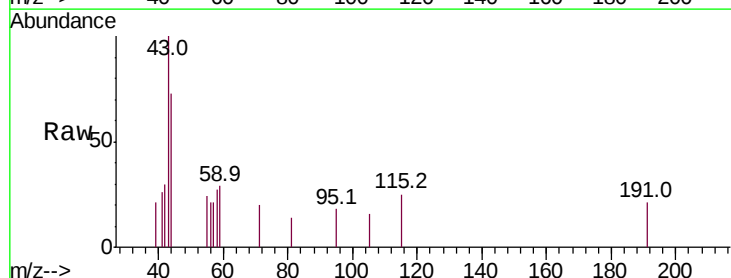
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 15.0 18.2 27.4#

61 0.0 17.6 26.4#

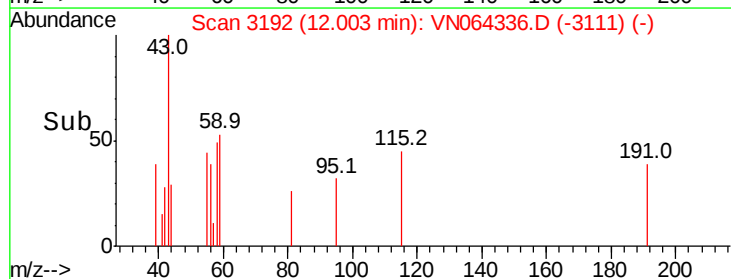
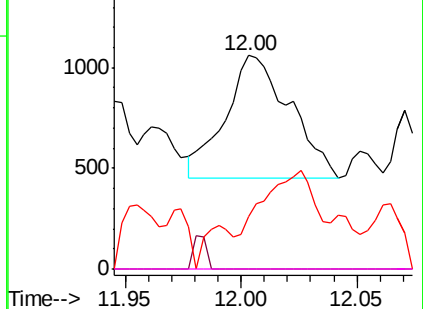


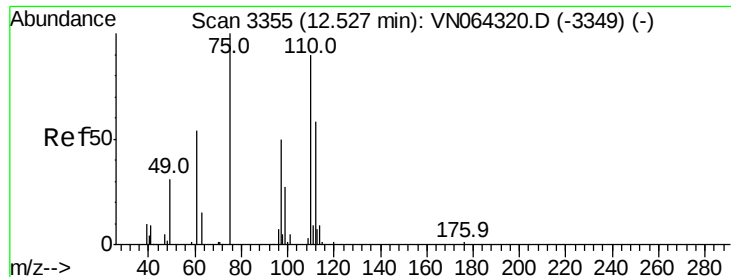
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 28.985 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

Instrument :

MSVOA_N

ClientSampleId :

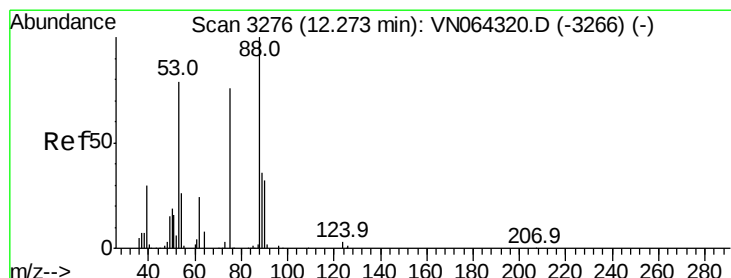
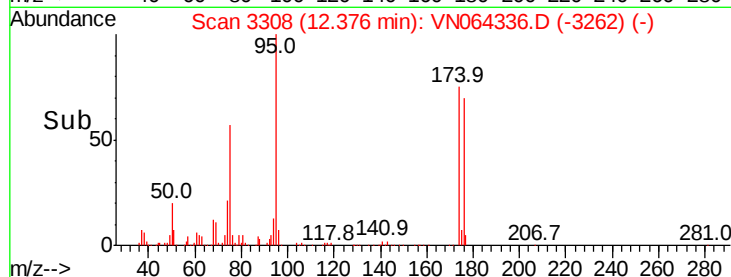
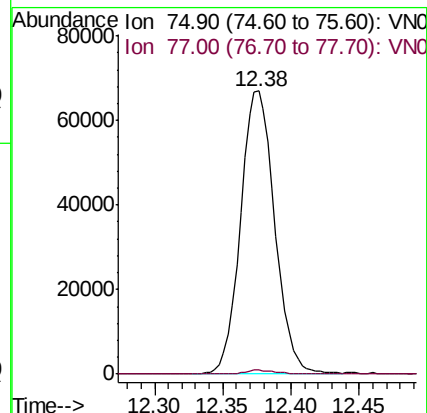
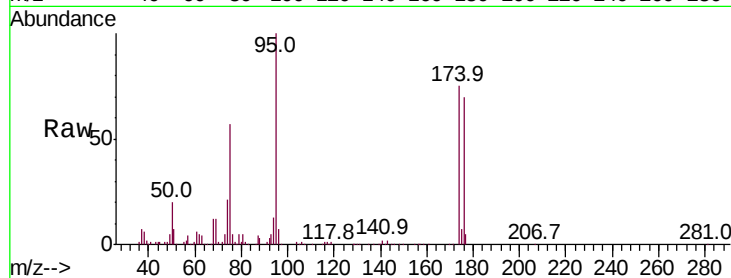
1576

Tot Ion: 75 Resp: 116403

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.491 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

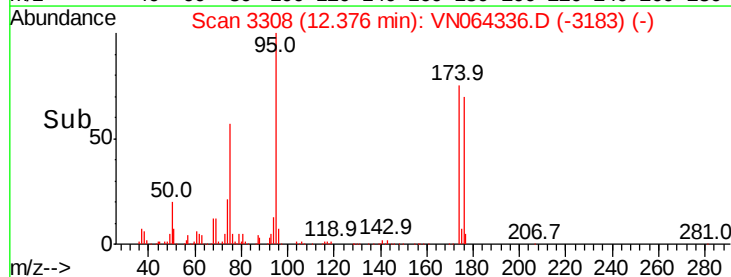
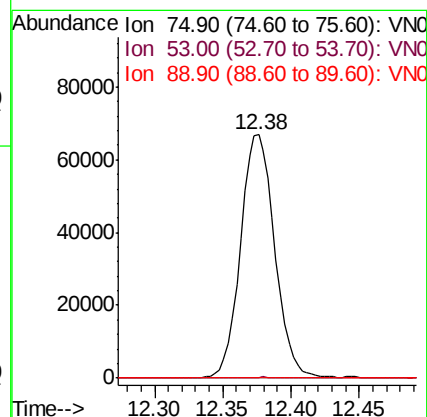
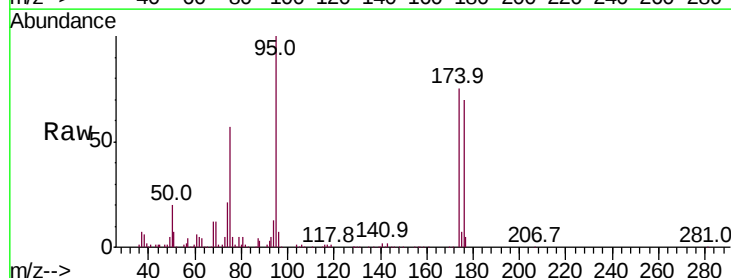
Tgt Ion: 75 Resp: 116403

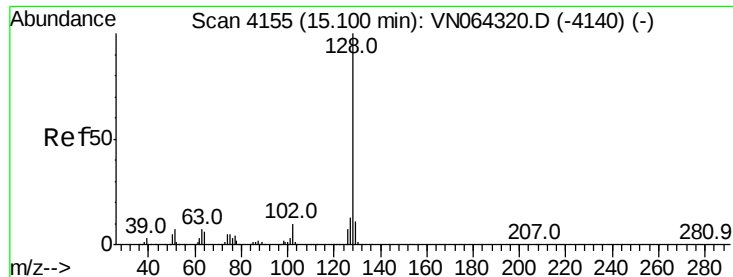
Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.8#

89 0.0 39.9 59.9#





#95

Naphthalene

Concen: 2.472 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

Instrument :

MSVOA_N

ClientSampled :

1576

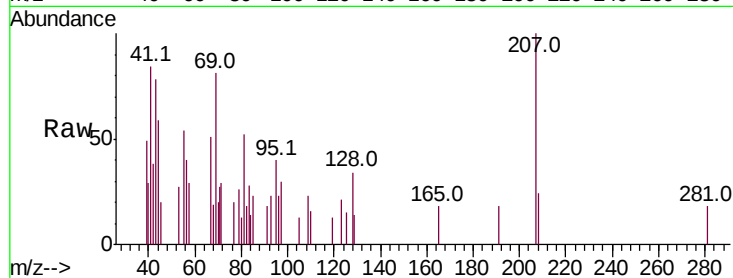
Tot Ion:128 Resp: 793

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

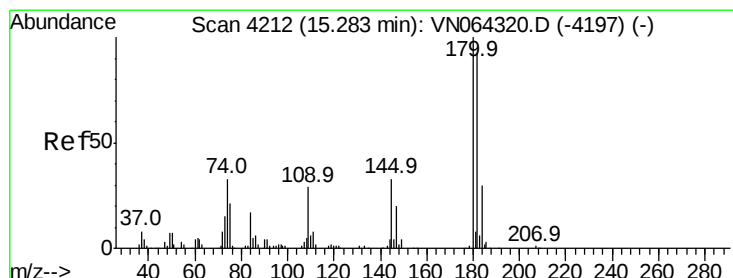
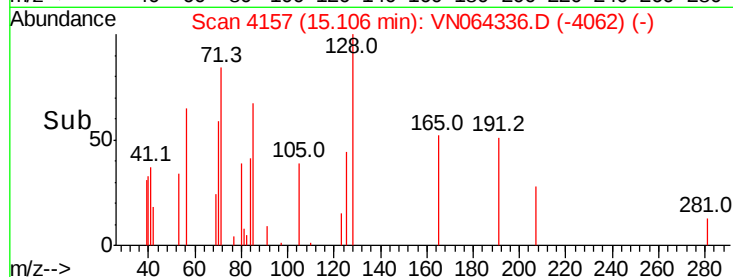
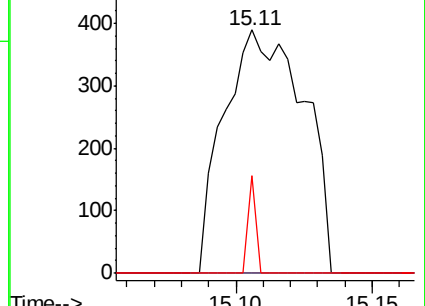
129 3.8 8.6 13.0#



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: 2.249 ug/l

RT: 15.28 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN064336.D

Acq: 27 Oct 2020 19:13

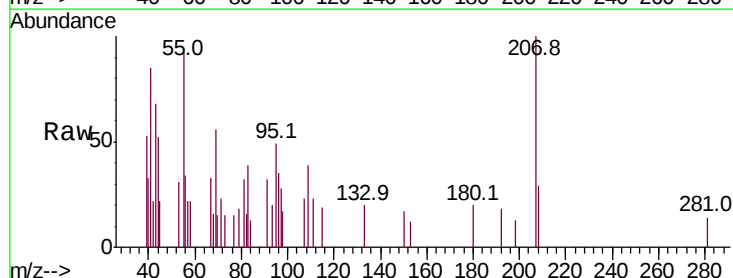
Tgt Ion:180 Resp: 208

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.3#

145 30.8 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

