

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102920\
 Data File : VN064382.D
 Acq On : 29 Oct 2020 18:31
 Operator : JC/MD
 Sample : L4215-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-05-102820

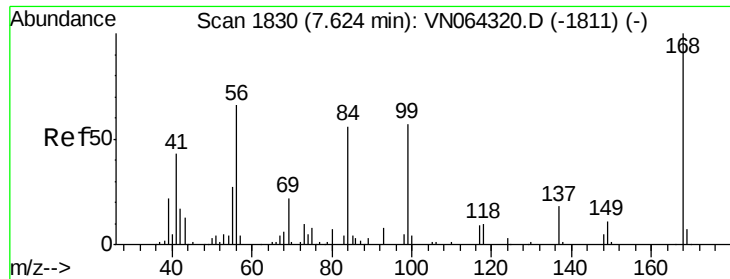
Quant Time: Oct 30 05:34:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	216264	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	393884	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	390564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	158914	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	175343	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
35) Dibromofluoromethane	7.55	113	132089	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
50) Toluene-d8	10.06	98	491832	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	12.38	95	207762	54.85	ug/l	0.00
Spiked Amount			Recovery	=	109.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	536	1.062	ug/l #	70
13) Acrolein	3.46	56	62	18.206	ug/l #	10
16) Acetone	3.78	43	12665	3.444	ug/l #	86
18) Methyl Acetate	4.29	43	3574	1.369	ug/l #	71
20) Methylene Chloride	4.51	84	13636	5.533	ug/l #	86
25) 2-Butanone	6.78	43	2335	1.338	ug/l #	52
29) Tetrahydrofuran	7.16	42	784	0.692	ug/l #	90
31) Cyclohexane	7.62	56	6405	1.588	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	19083	4.801	ug/l #	52
38) Carbon Tetrachloride	7.63	117	24027	5.214	ug/l #	18
43) Isopropyl Acetate	8.13	43	77610	11.307	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	641	0.216	ug/l #	44
48) Methyl methacrylate	9.14	41	4765	1.346	ug/l #	15
49) 1,4-Dioxane	9.23	88	112	2.146	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6888	1.726	ug/l	98
52) Toluene	10.12	92	1440	0.206	ug/l	79
54) cis-1,3-Dichloropropene	9.87	75	29515	5.903	ug/l #	67
56) Ethyl methacrylate	10.52	69	1079	0.259	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5080	1.081	ug/l #	42
59) 2-Hexanone	10.74	43	83853	28.536	ug/l #	51
74) N-amyl acetate	12.00	43	1847	0.353	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	116303	30.561	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	116303	88.033	ug/l #	8
95) Naphthalene	15.11	128	30	2.396	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

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ClientSampleId :

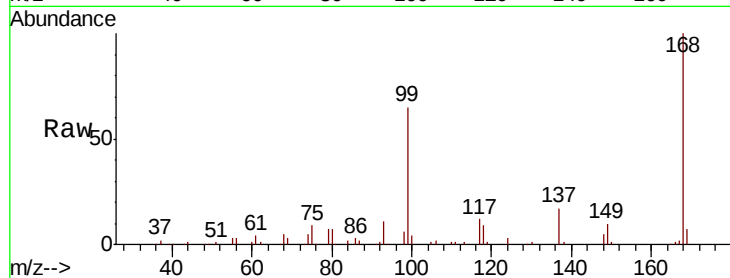
AU-05-102820

Tot Ion:168 Resp: 216264

Ion Ratio Lower Upper

168 100

99 64.9 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

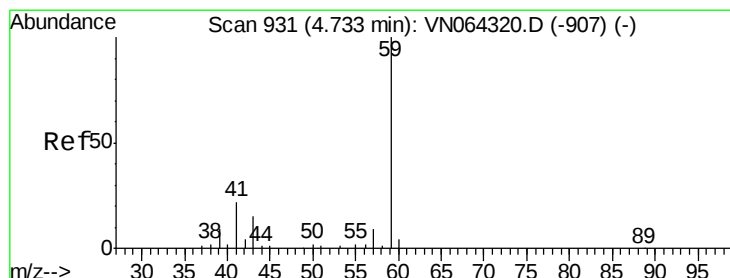
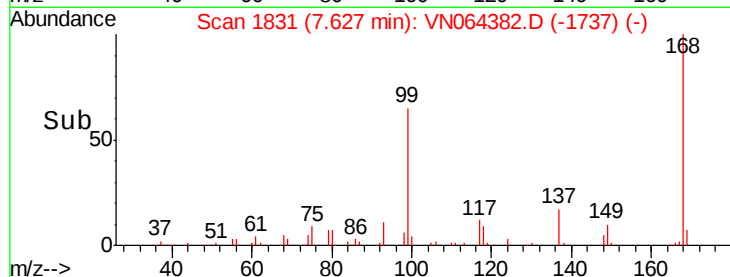
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.062 ug/l

RT: 4.71 min Scan# 925

Delta R.T. -0.02 min

Lab File: VN064382.D

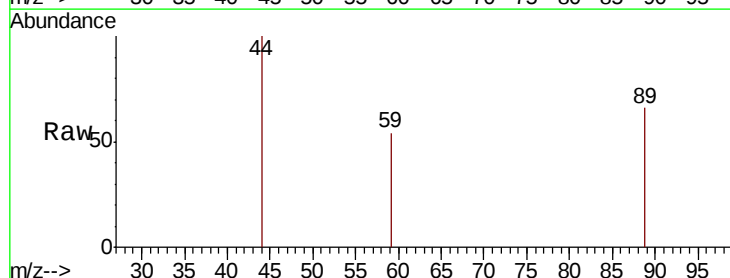
Acq: 29 Oct 2020 18:31

Tgt Ion: 59 Resp: 536

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.71

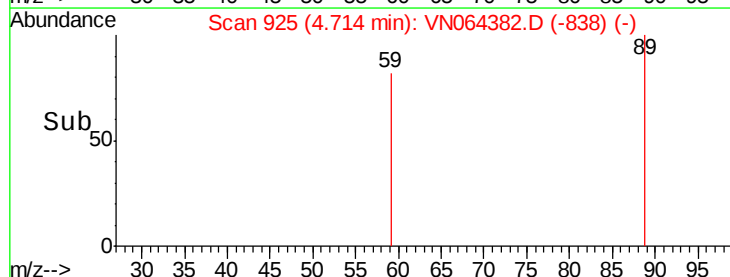
300

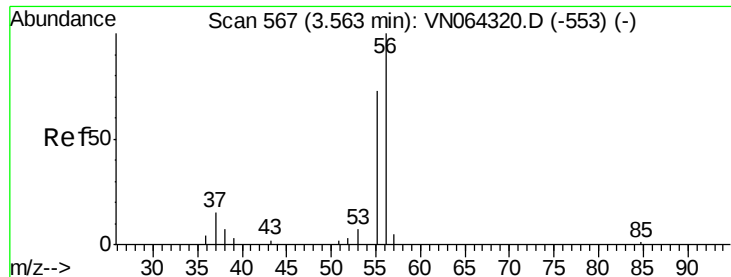
200

100

0

Time-->





#13

Acrolein

Concen: 18.206 ug/l

RT: 3.46 min Scan# 534

Delta R.T. -0.11 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

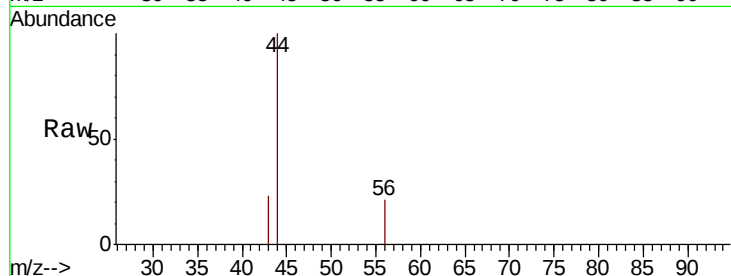
AU-05-102820

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.46

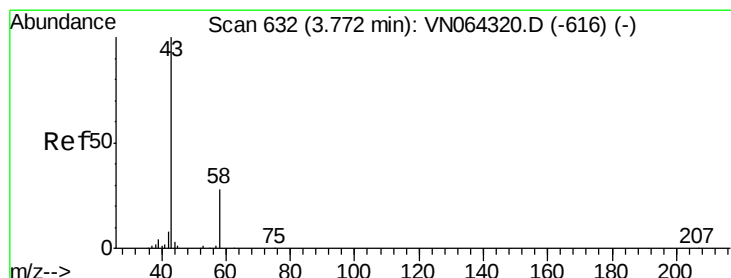
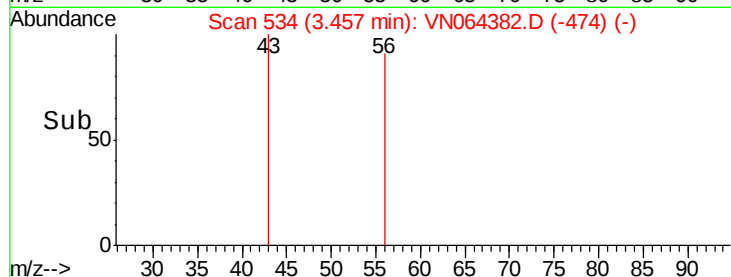
150

100

50

0

Time-->



#16

Acetone

Concen: 3.444 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064382.D

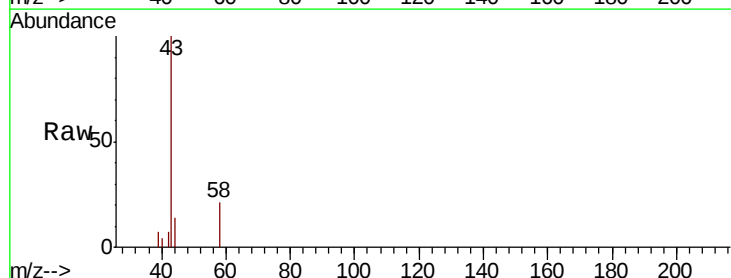
Acq: 29 Oct 2020 18:31

Tgt Ion: 43 Resp: 12665

Ion Ratio Lower Upper

43 100

58 20.5 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

5000

4000

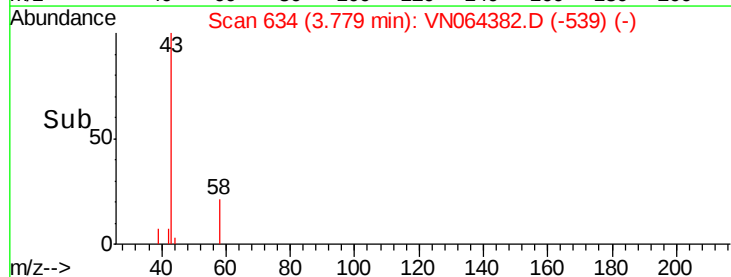
3000

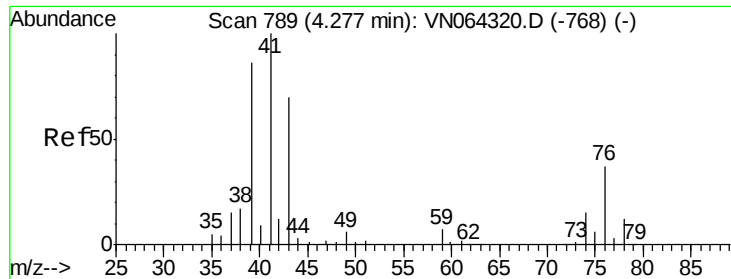
2000

1000

0

Time-->

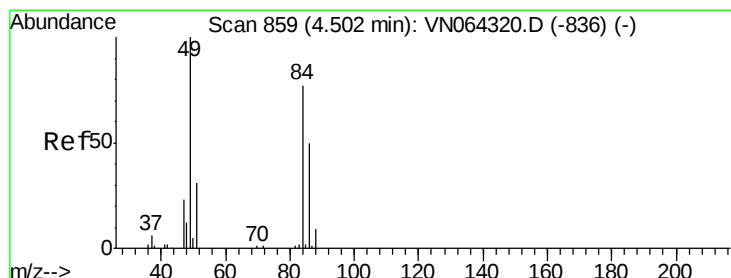
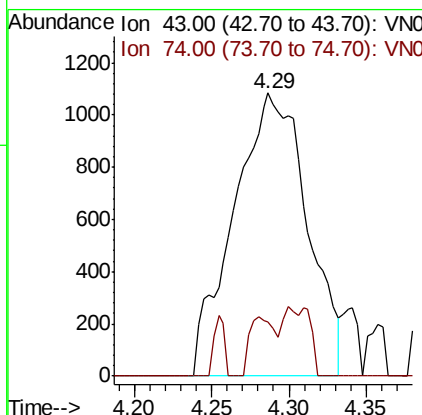
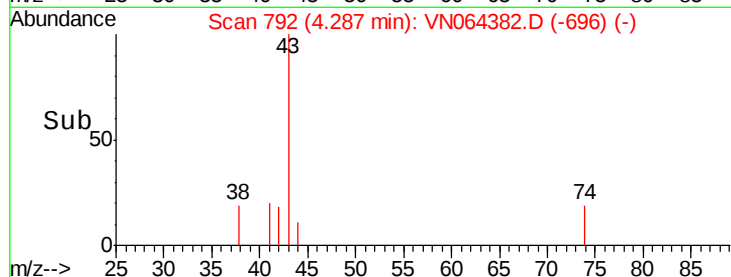
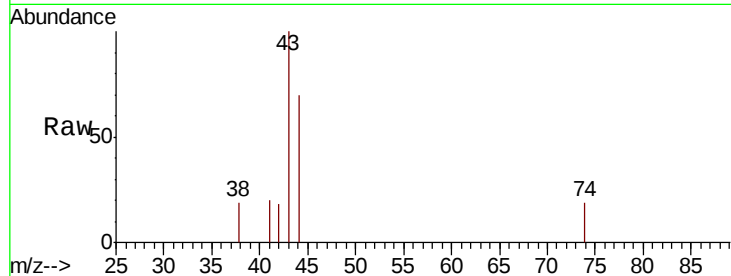




#18
Methyl Acetate
Concen: 1.369 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

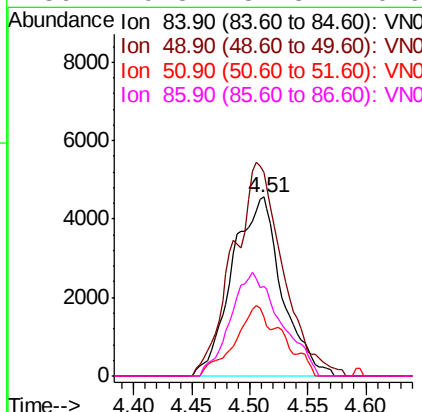
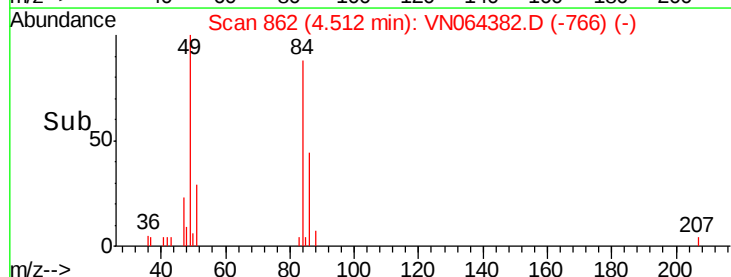
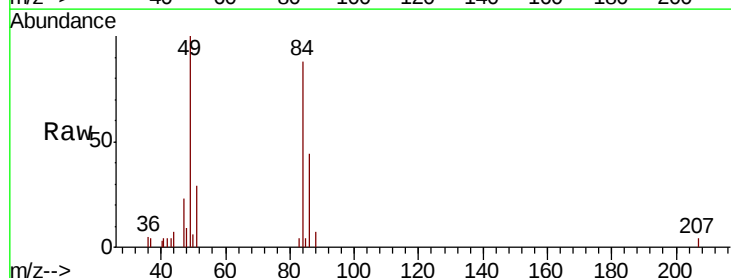
Instrument :
MSVOA_N
ClientSampled :
AU-05-102820

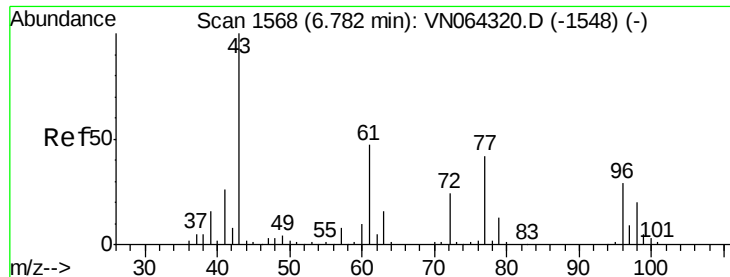
Tot Ion: 43 Resp: 3574
Ion Ratio Lower Upper
43 100
74 7.2 16.7 25.1#



#20
Methylene Chloride
Concen: 5.533 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

Tgt Ion: 84 Resp: 13636
Ion Ratio Lower Upper
84 100
49 113.8 103.6 155.4
51 32.7 31.8 47.8
86 49.8 51.3 76.9#





#25

2-Butanone

Concen: 1.338 ug/l

RT: 6.78 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

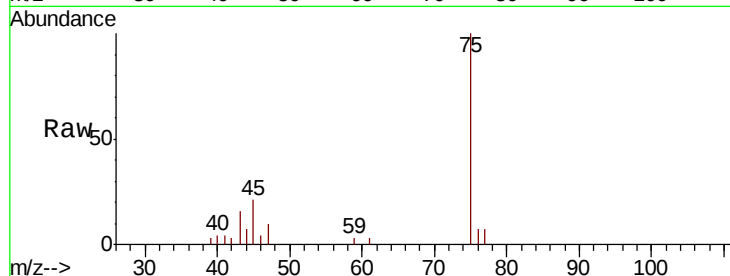
AU-05-102820

Tot Ion: 43 Resp: 2335

Ion Ratio Lower Upper

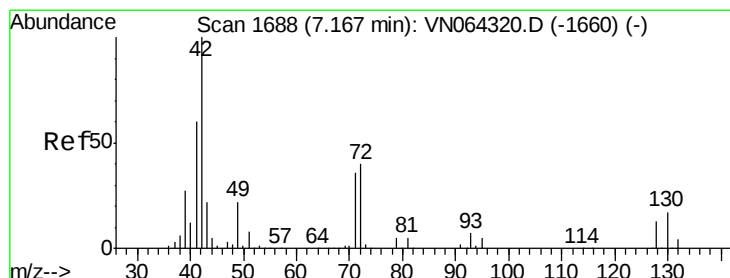
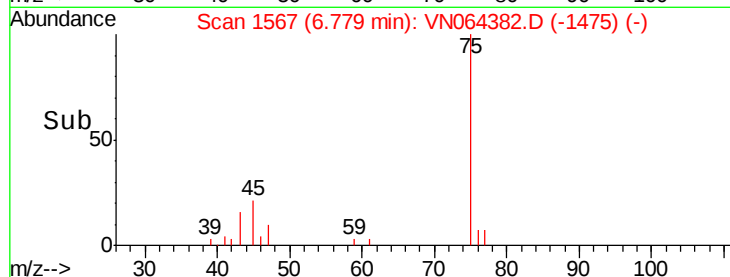
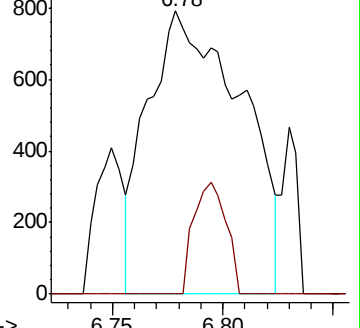
43 100

72 0.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.692 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

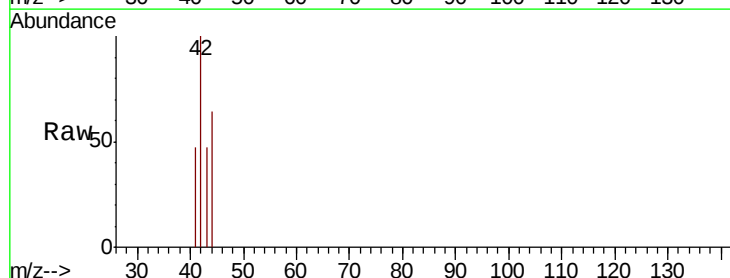
Tgt Ion: 42 Resp: 784

Ion Ratio Lower Upper

42 100

72 39.0 31.6 47.4

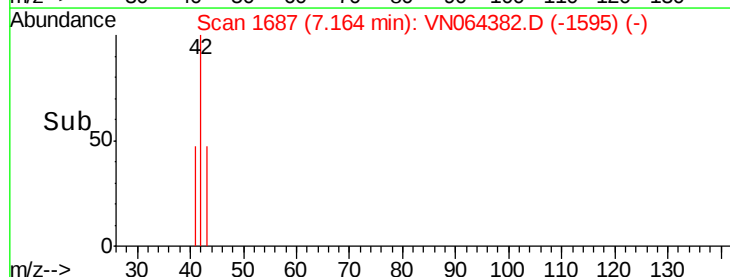
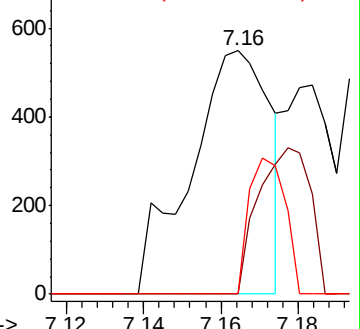
71 25.3 29.4 44.0#

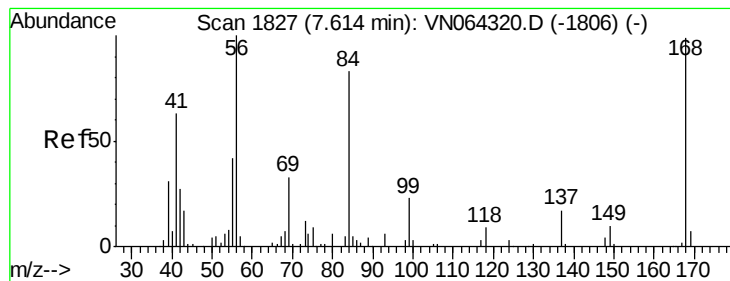


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 1.588 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

AU-05-102820

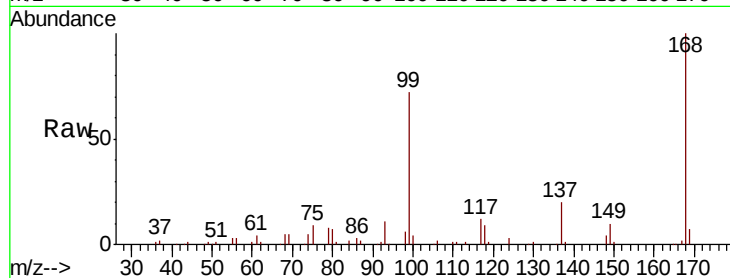
Tot Ion: 56 Resp: 6405

Ion Ratio Lower Upper

56 100

69 139.0 25.8 38.8#

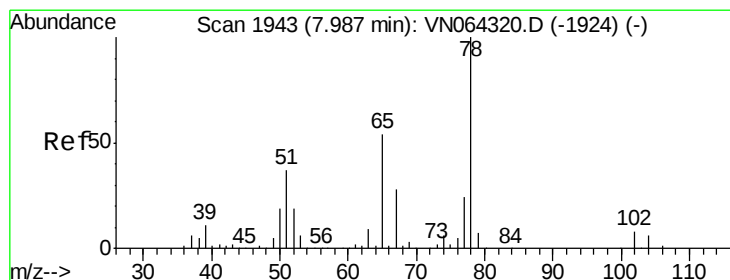
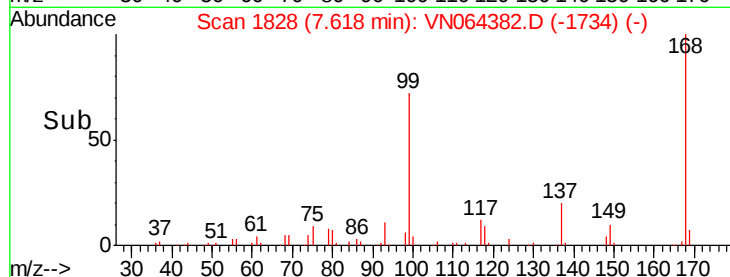
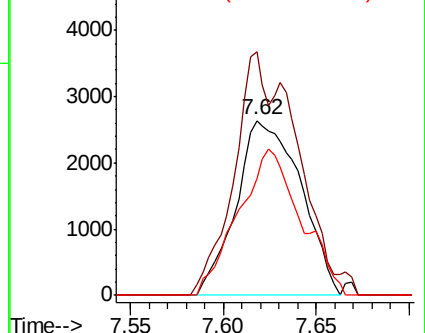
84 66.6 66.3 99.5



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



#33

1,2-Dichloroethane-d4

Concen: 50.454 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064382.D

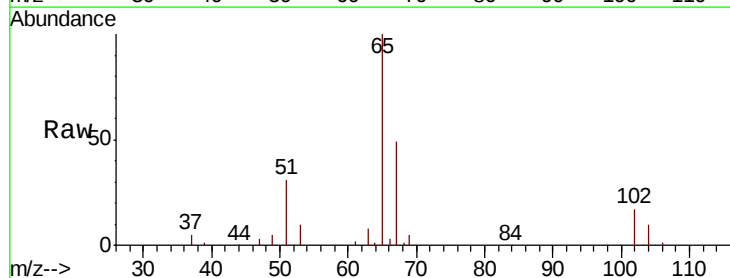
Acq: 29 Oct 2020 18:31

Tgt Ion: 65 Resp: 175343

Ion Ratio Lower Upper

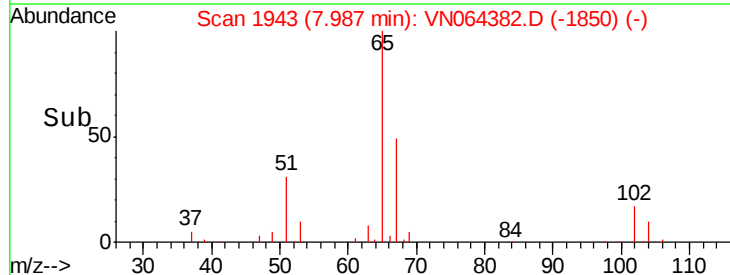
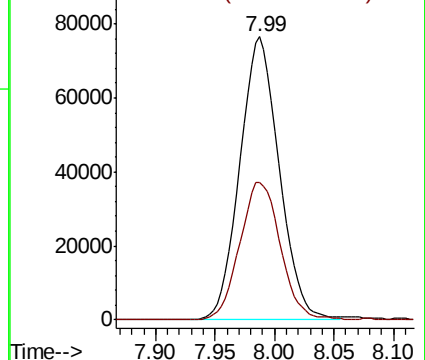
65 100

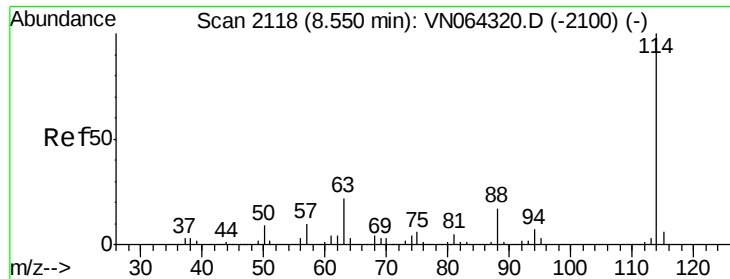
67 50.1 0.0 99.2



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# 2118

Delta R.T. 0.00 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

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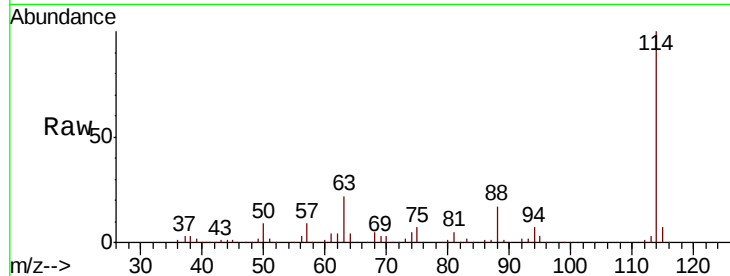
Tot Ion:114 Resp: 393884

Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.6

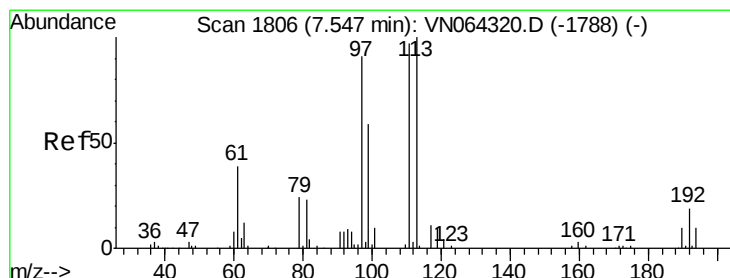
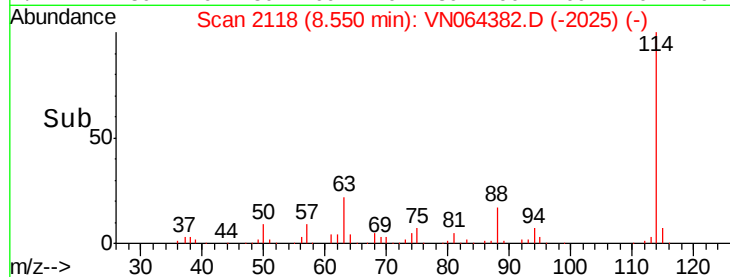
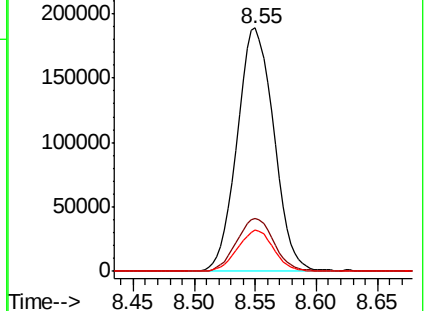
88 16.8 0.0 33.4



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: 50.287 ug/l

RT: 7.55 min Scan# 1808

Delta R.T. 0.01 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

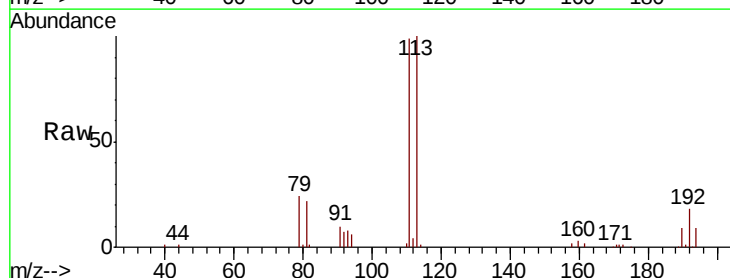
Tgt Ion:113 Resp: 132089

Ion Ratio Lower Upper

113 100

111 103.3 81.5 122.3

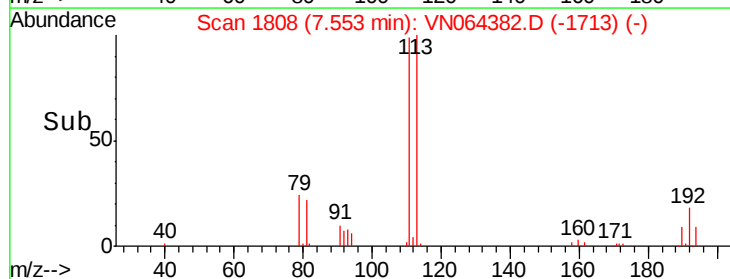
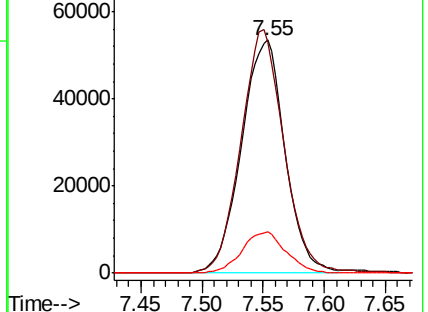
192 17.9 15.0 22.4

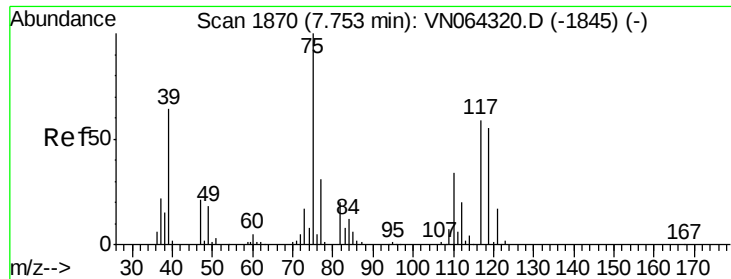


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

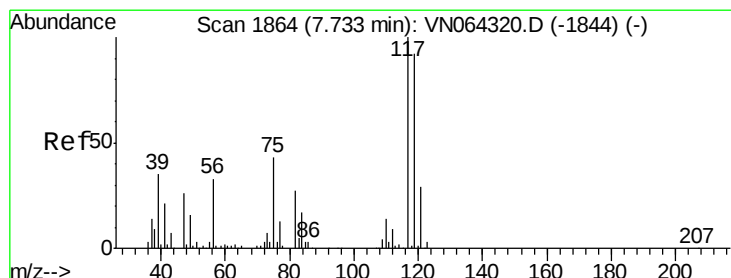
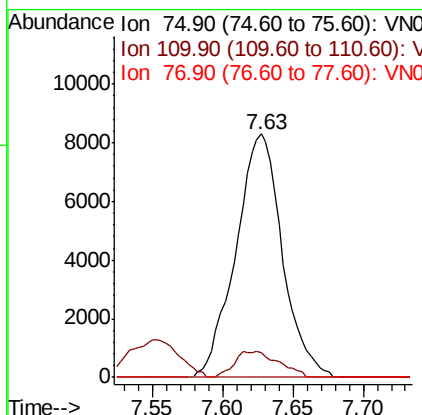
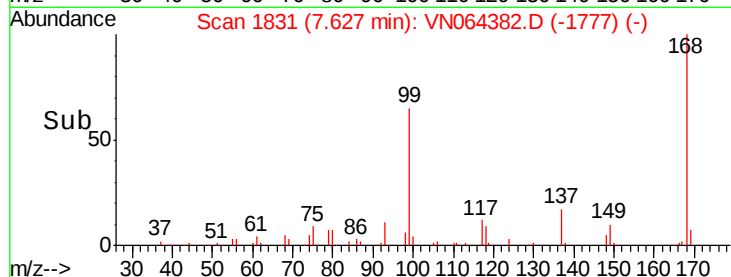
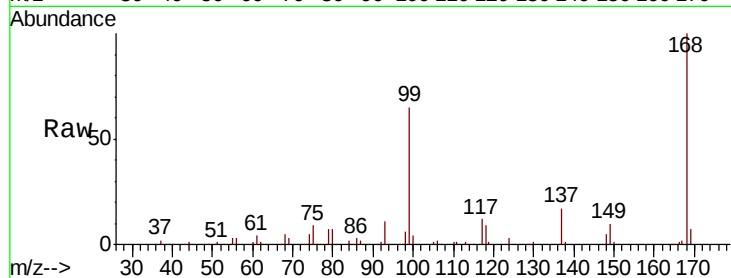




#36
 1,1-Dichloropropene
 Concen: 4.801 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064382.D
 Acq: 29 Oct 2020 18:31

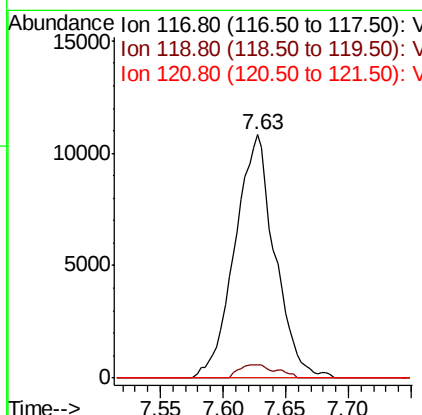
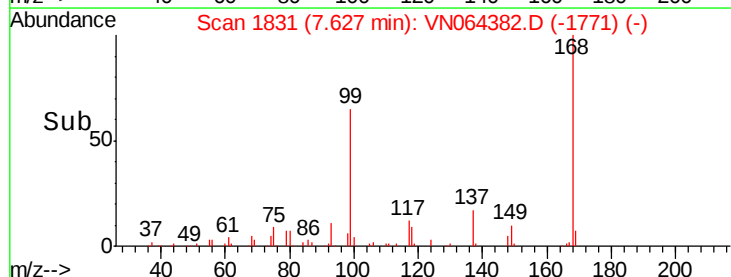
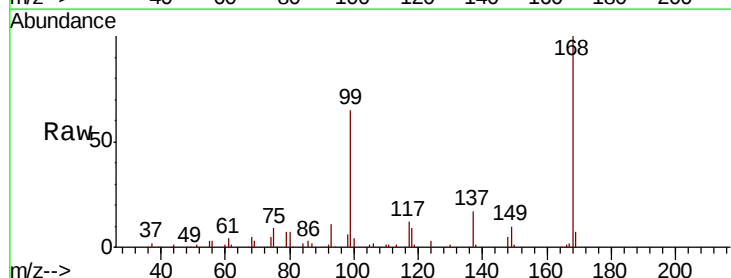
Instrument :
 MSVOA_N
 ClientSampleId :
 AU-05-102820

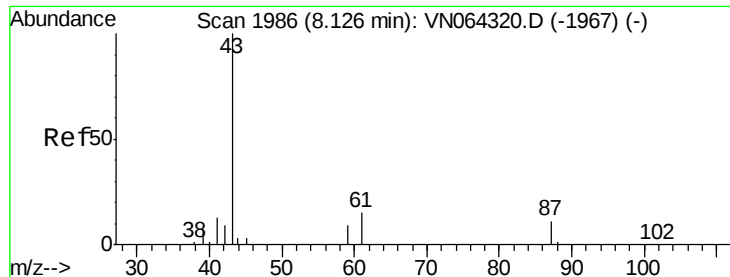
Tot Ion: 75 Resp: 19083
 Ion Ratio Lower Upper
 75 100
 110 10.1 16.8 50.3#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 5.214 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064382.D
 Acq: 29 Oct 2020 18:31

Tgt Ion: 117 Resp: 24027
 Ion Ratio Lower Upper
 117 100
 119 5.7 73.7 110.5#
 121 0.0 22.8 34.2#





#43

Isopropyl Acetate

Concen: 11.307 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

AU-05-102820

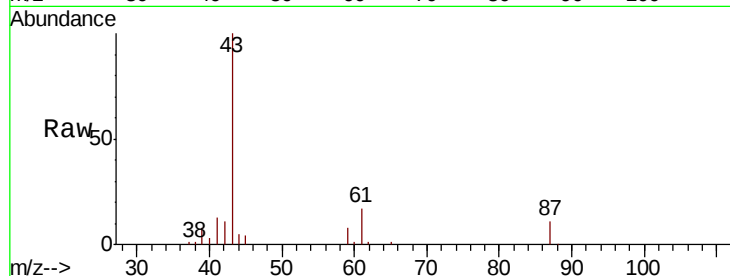
Tot Ion: 43 Resp: 77610

Ion Ratio Lower Upper

43 100

61 16.5 19.1 28.7#

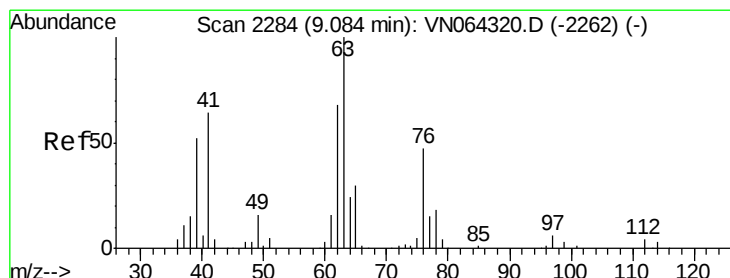
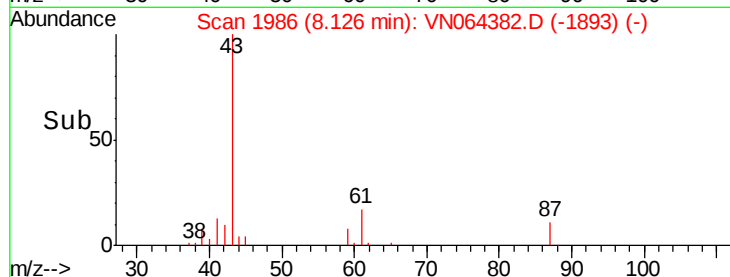
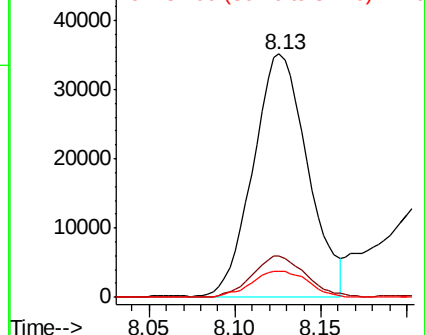
87 11.2 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.216 ug/l

RT: 9.23 min Scan# 2328

Delta R.T. 0.14 min

Lab File: VN064382.D

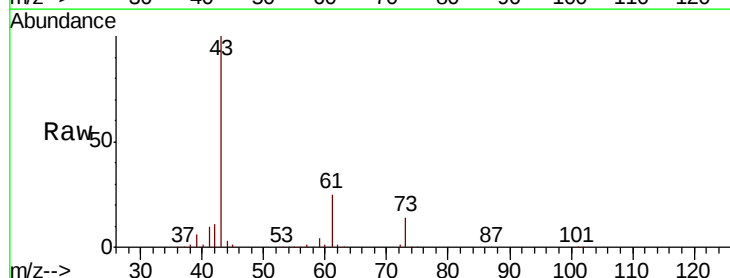
Acq: 29 Oct 2020 18:31

Tgt Ion: 63 Resp: 641

Ion Ratio Lower Upper

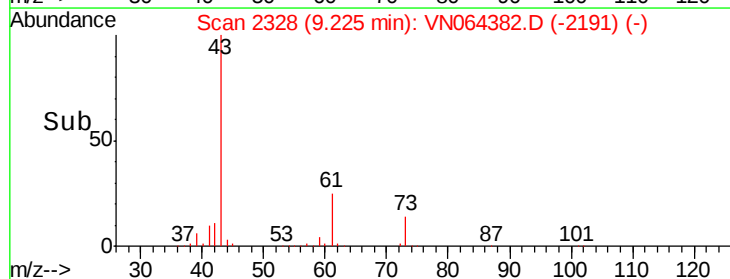
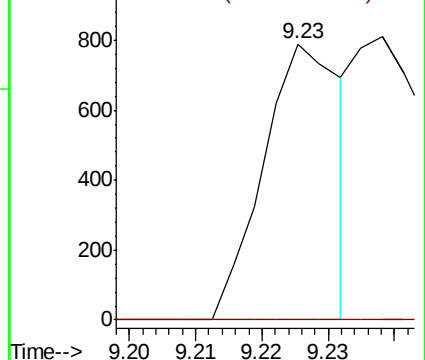
63 100

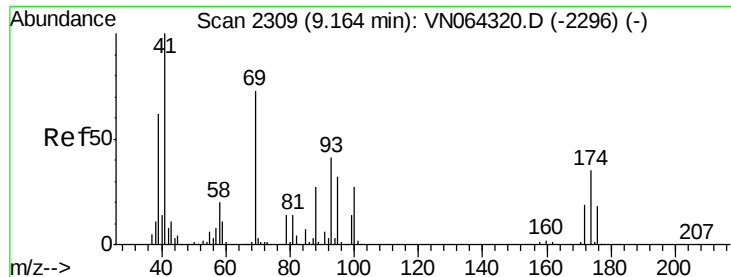
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

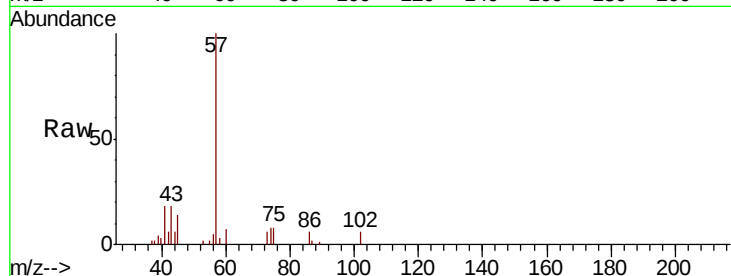




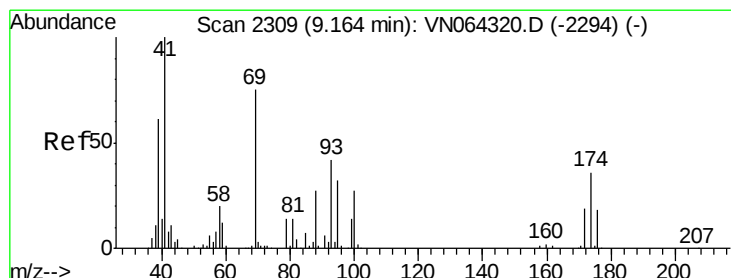
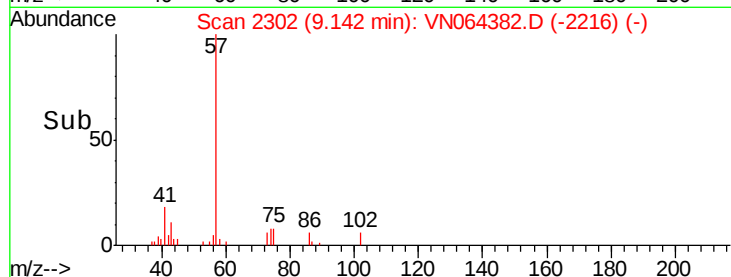
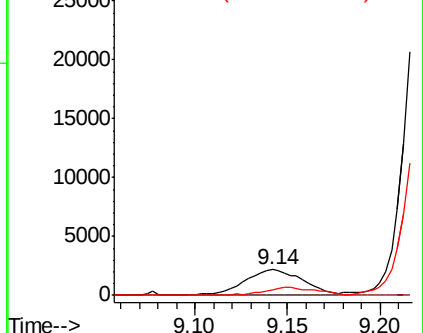
#48
Methvl methacrylate
Concen: 1.346 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

Instrument :
MSVOA_N
ClientSampled :
AU-05-102820

Tot Ion: 41 Resp: 4765
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 0.0 51.3 76.9#

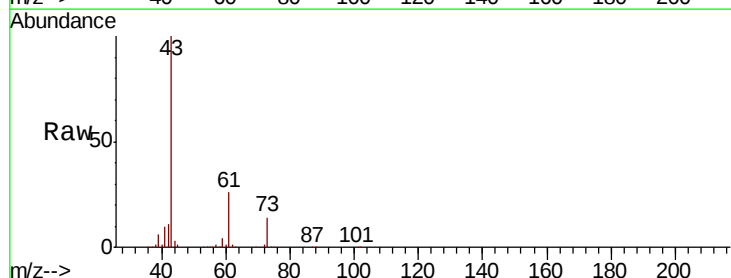


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

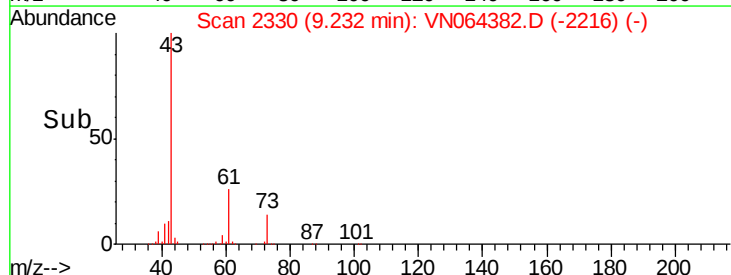
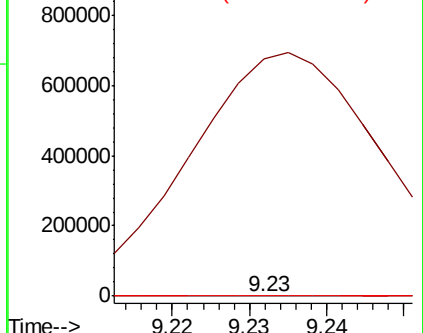


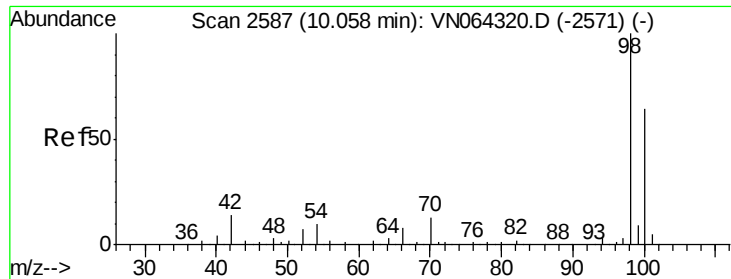
#49
1,4-Dioxane
Concen: 2.146 ug/l
RT: 9.23 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

Tgt Ion: 88 Resp: 112
Ion Ratio Lower Upper
88 100
43 1139444.6 31.8 47.8#
58 4258.0 60.3 90.5#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 50.621 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

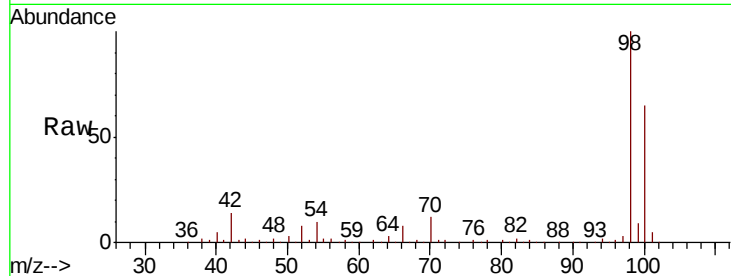
AU-05-102820

Tot Ion: 98 Resp: 491832

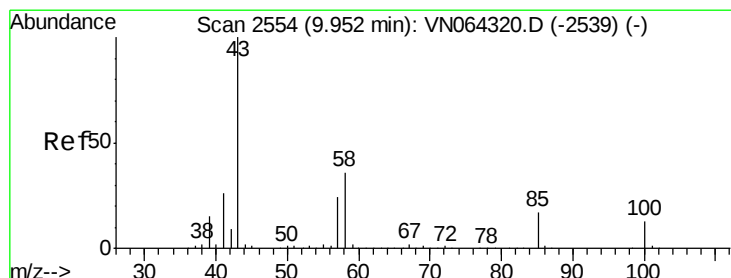
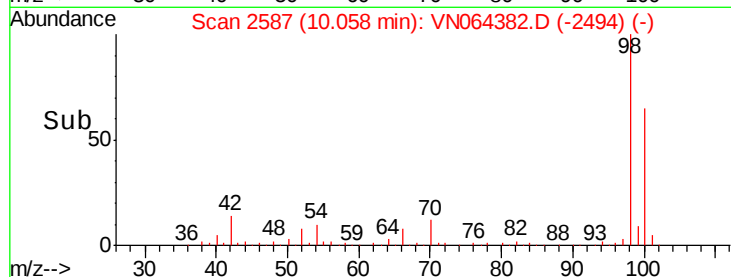
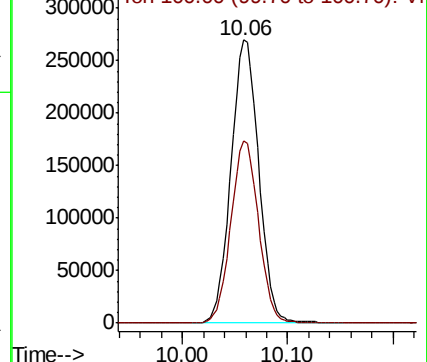
Ion Ratio Lower Upper

98 100

100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN064382.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.726 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064382.D

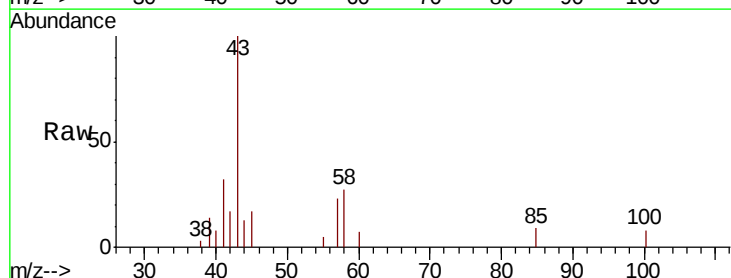
Acq: 29 Oct 2020 18:31

Tgt Ion: 43 Resp: 6888

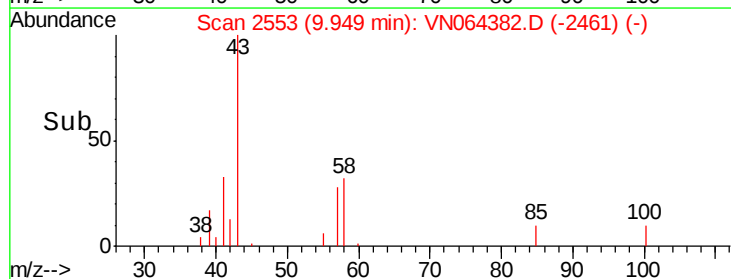
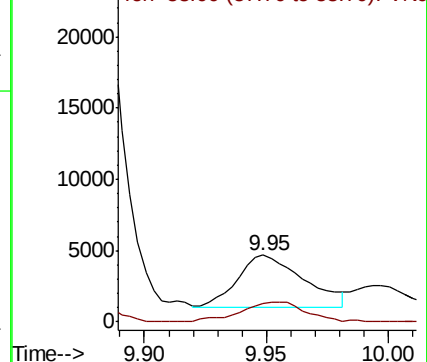
Ion Ratio Lower Upper

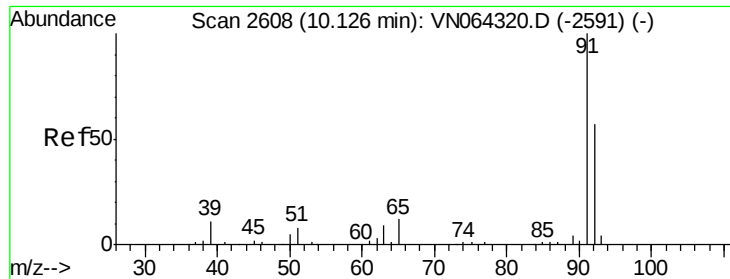
43 100

58 36.8 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064382.D (-2539) (-)





#52

Toluene

Concen: 0.206 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampled :

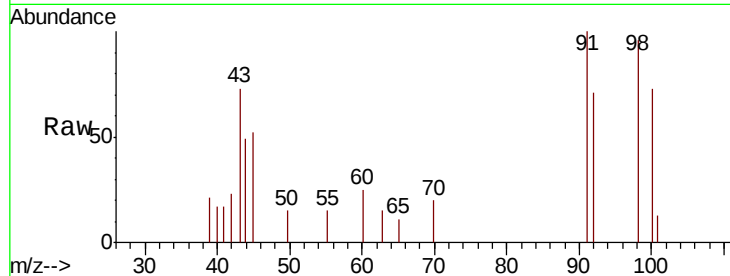
AU-05-102820

Tot Ion: 92 Resp: 1440

Ion Ratio Lower Upper

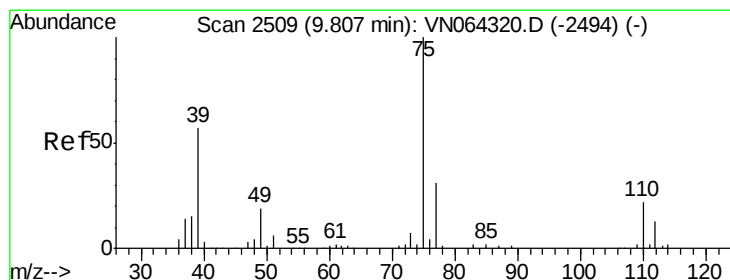
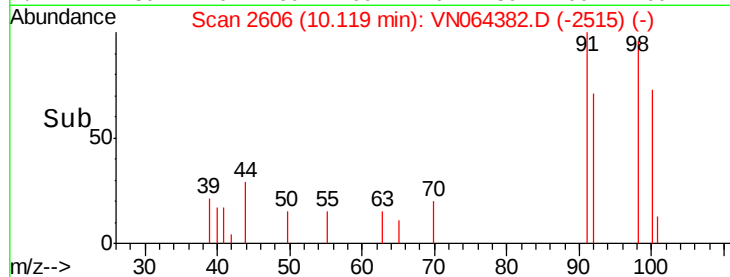
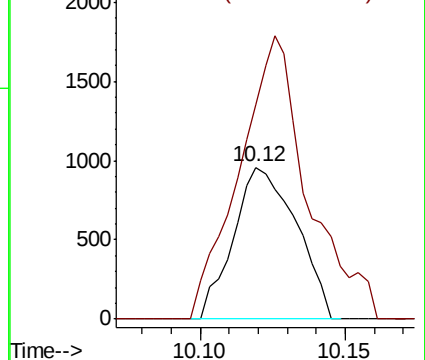
92 100

91 203.7 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN064382.D (-2515) (-)

Ion 91.00 (90.70 to 91.70): VN064382.D (-2515) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.903 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

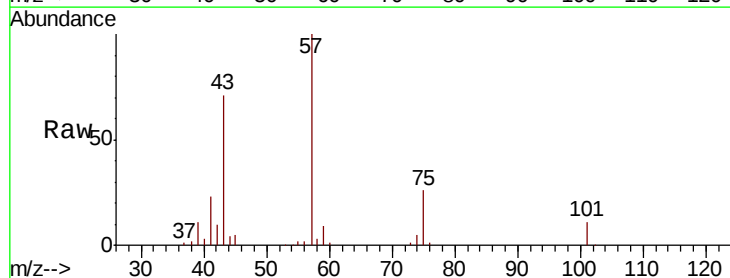
Tgt Ion: 75 Resp: 29515

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

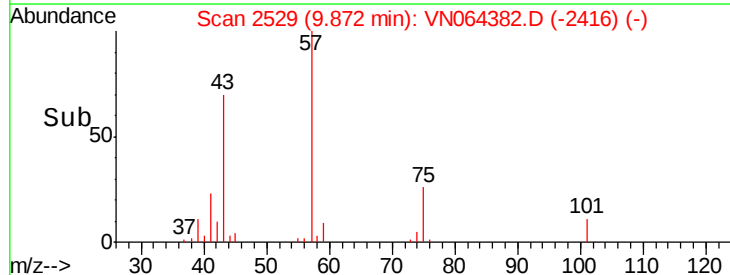
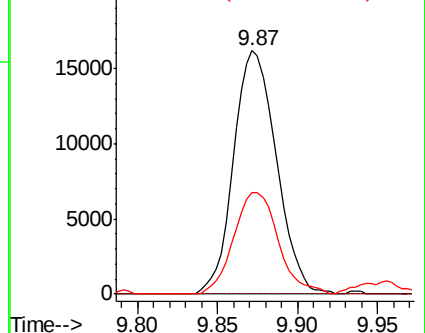
39 41.8 45.5 68.3#

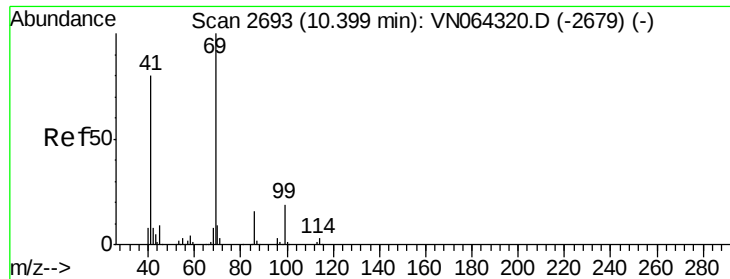


Abundance Ion 74.90 (74.60 to 75.60): VN064382.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN064382.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN064382.D (-2416) (-)





#56

Ethyl methacrylate

Concen: 0.259 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampled :

AU-05-102820

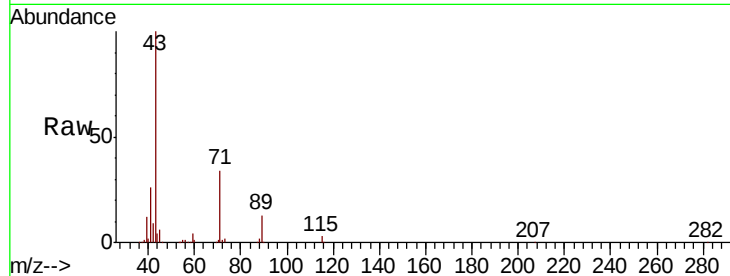
Tot Ion: 69 Resp: 1079

Ion Ratio Lower Upper

69 100

41 6799.0 61.4 92.2#

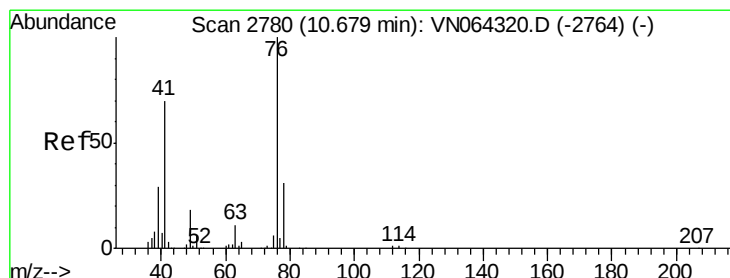
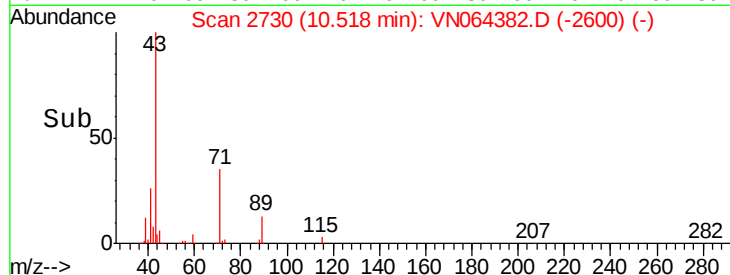
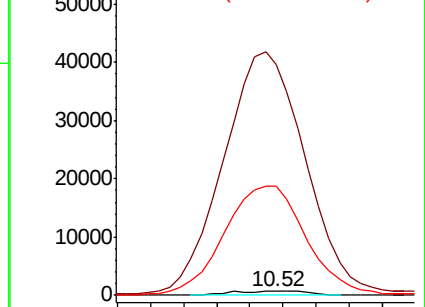
39 3014.6 36.5 54.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.081 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064382.D

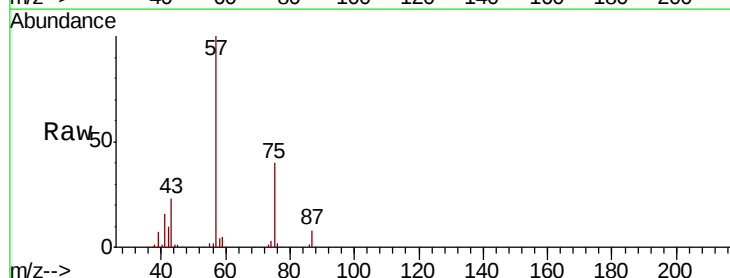
Acq: 29 Oct 2020 18:31

Tgt Ion: 76 Resp: 5080

Ion Ratio Lower Upper

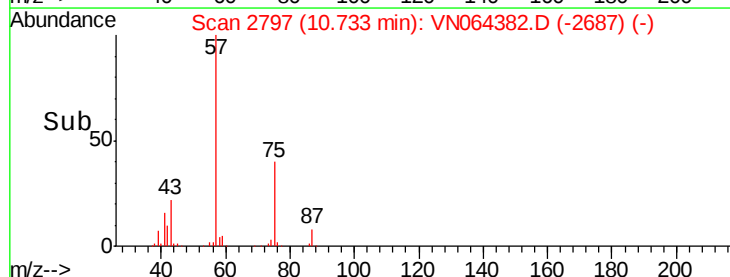
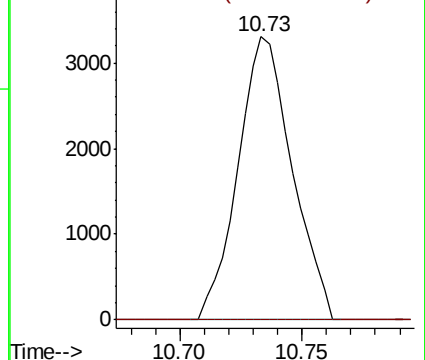
76 100

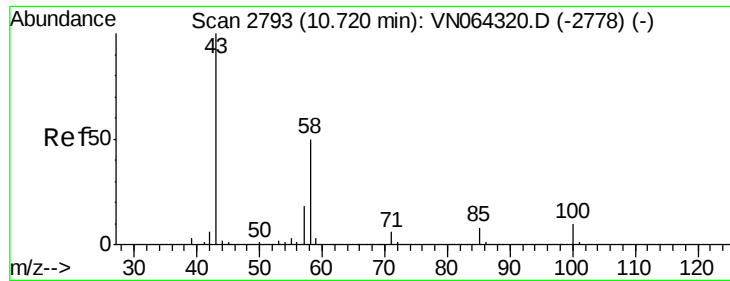
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

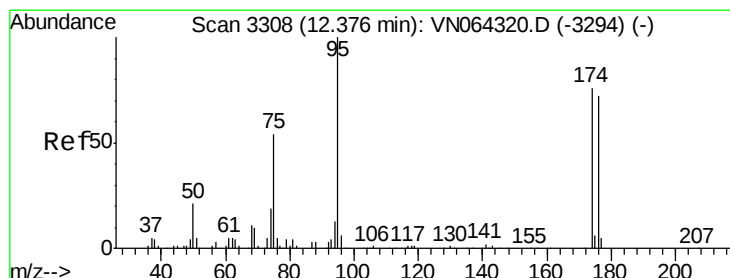
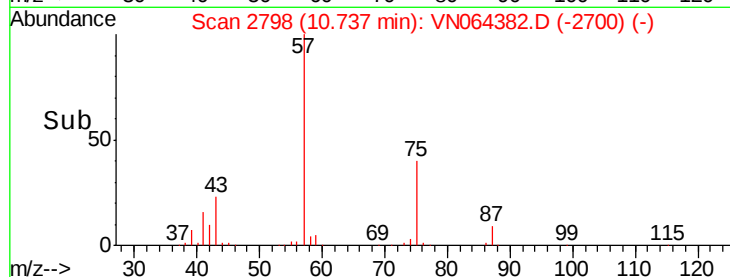
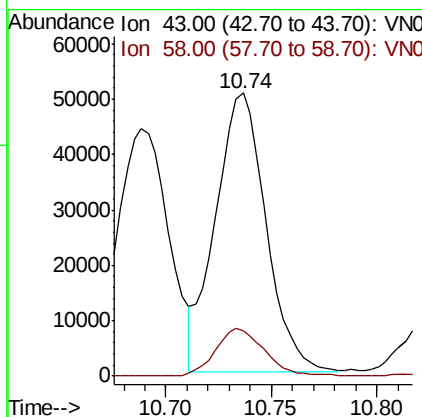
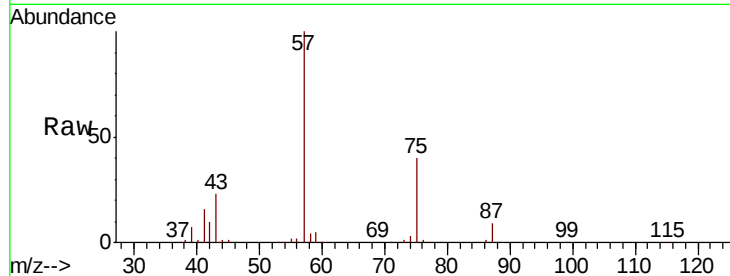




#59
2-Hexanone
Concen: 28.536 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

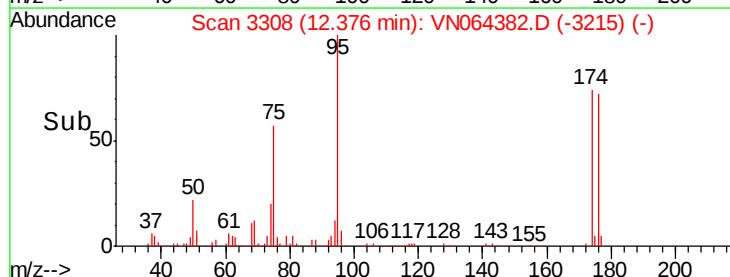
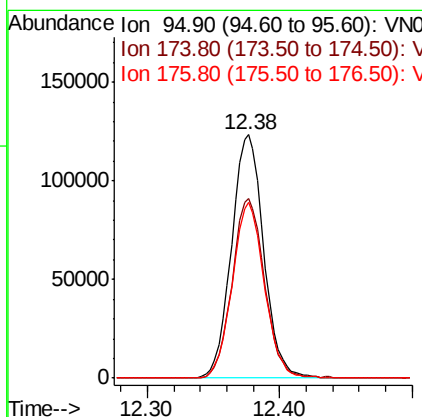
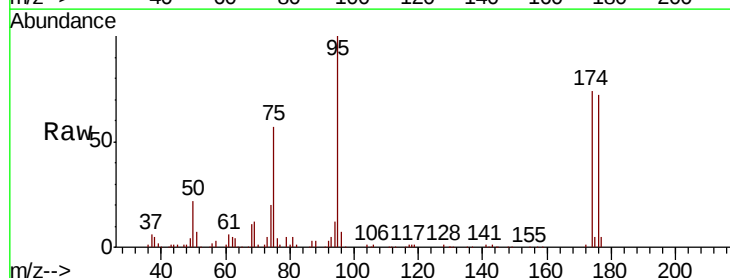
Instrument :
MSVOA_N
ClientSampled :
AU-05-102820

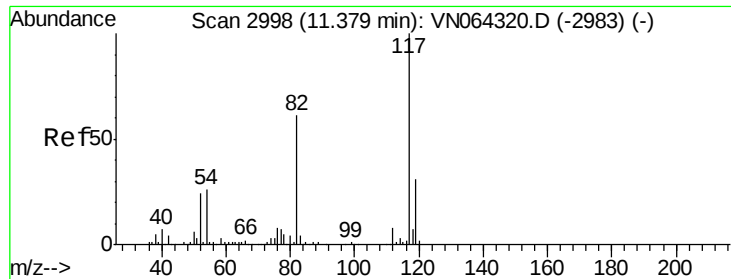
Tot Ion: 43 Resp: 83853
Ion Ratio Lower Upper
43 100
58 16.5 25.0 75.0#



#62
4-Bromofluorobenzene
Concen: 54.845 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

Tgt Ion: 95 Resp: 207762
Ion Ratio Lower Upper
95 100
174 74.1 0.0 147.4
176 72.0 0.0 143.6

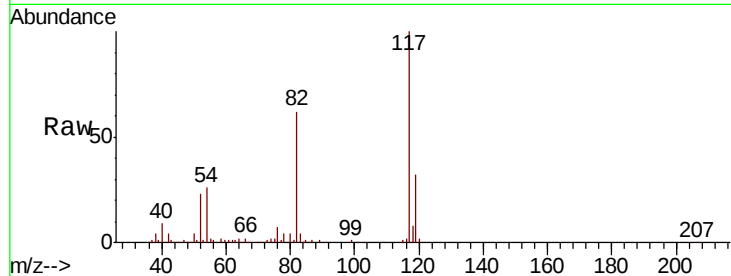




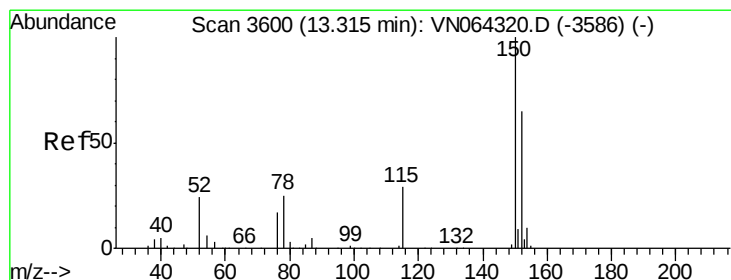
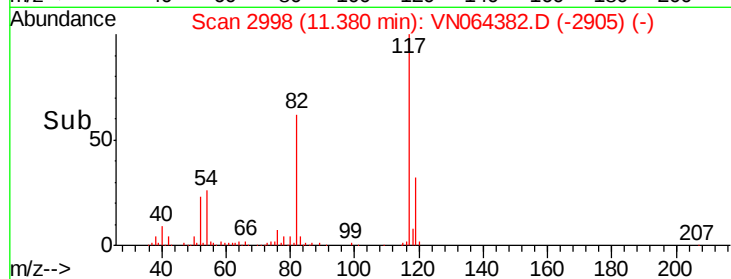
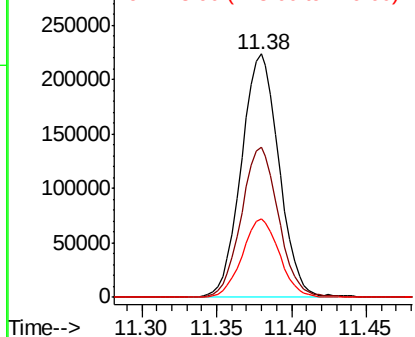
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

Instrument :
MSVOA_N
ClientSampleId :
AU-05-102820

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.9	48.8	73.2
119	32.4	25.1	37.7

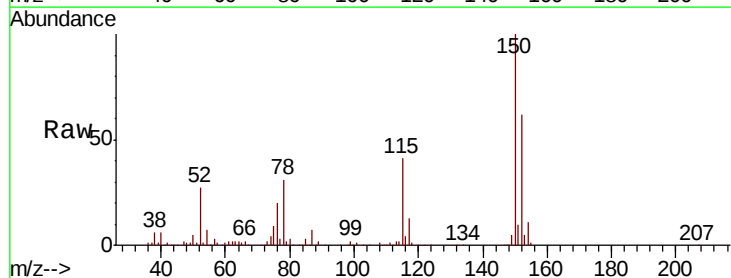


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

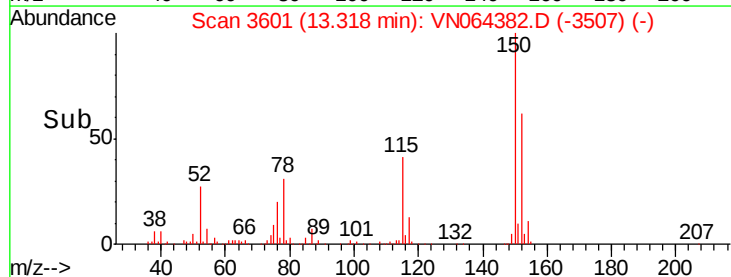
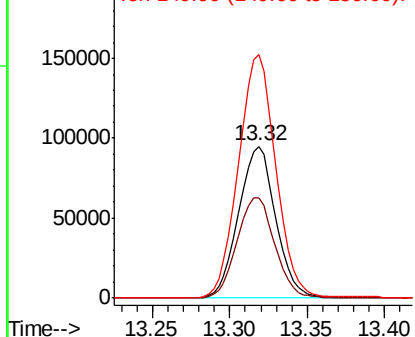


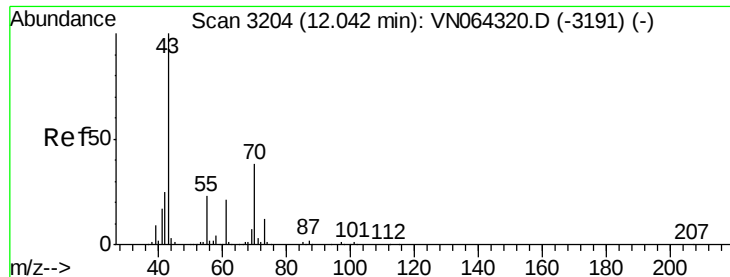
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	67.0	31.5	94.5
150	161.7	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

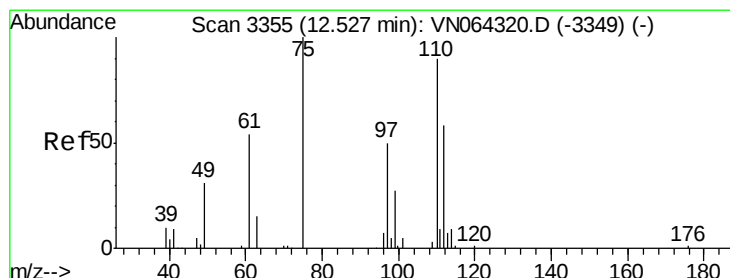
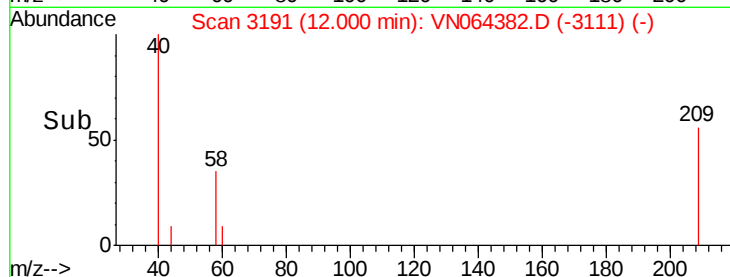
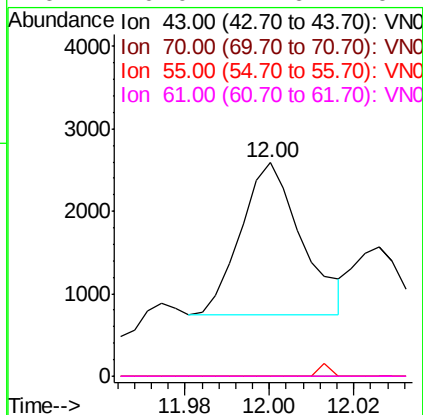
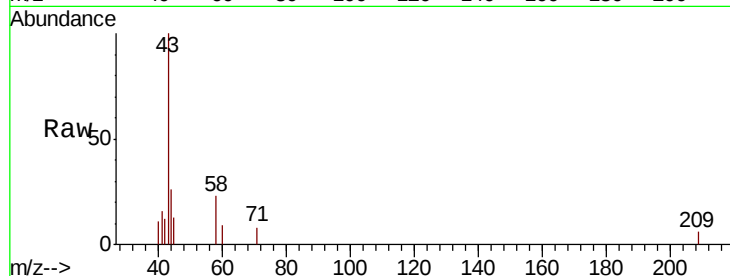




#74
N-amvl acetate
Concen: 0.353 ug/l
RT: 12.00 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

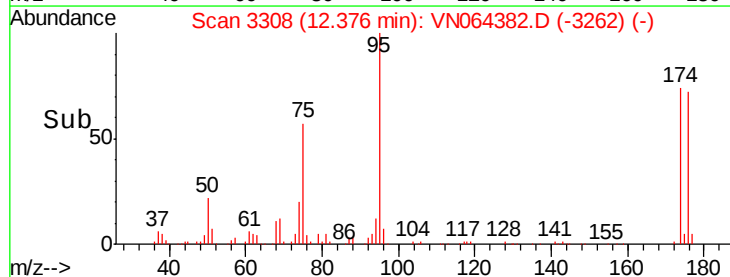
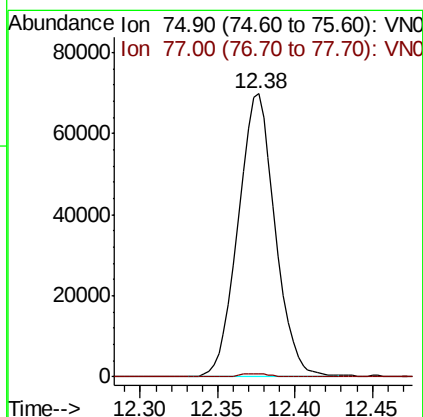
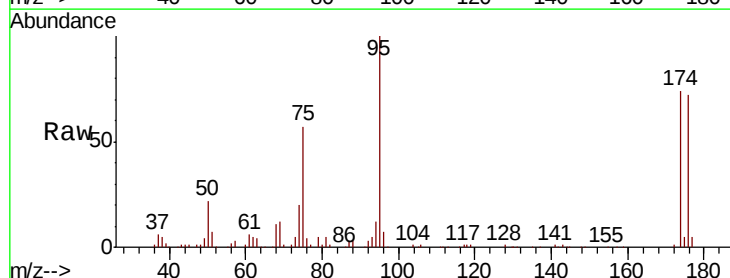
Instrument :
MSVOA_N
ClientSampleId :
AU-05-102820

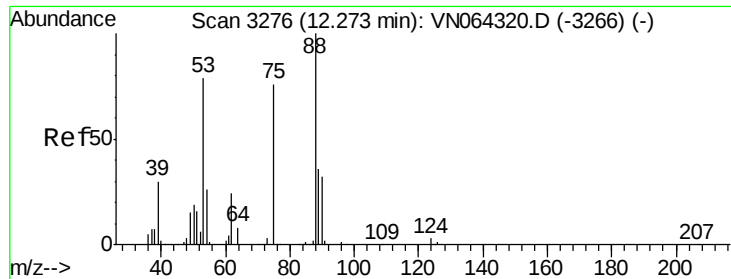
Tot Ion: 43 Resp: 1847
Ion Ratio Lower Upper
43 100
70 0.0 30.6 45.8#
55 0.0 18.2 27.4#
61 0.0 17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 30.561 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064382.D
Acq: 29 Oct 2020 18:31

Tgt Ion: 75 Resp: 116303
Ion Ratio Lower Upper
75 100
77 0.9 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 88.033 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

AU-05-102820

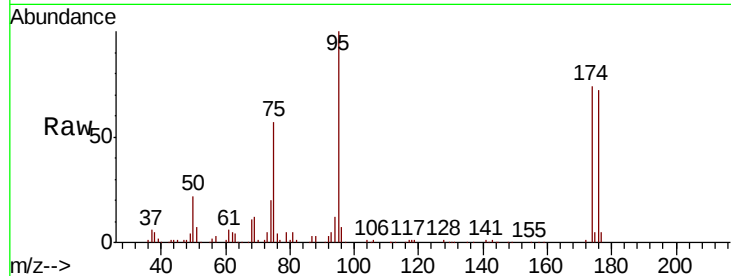
Tot Ion: 75 Resp: 116303

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

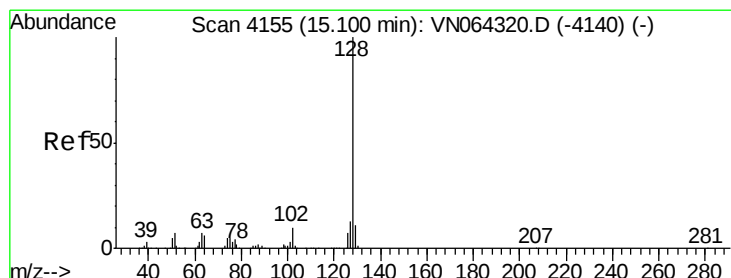
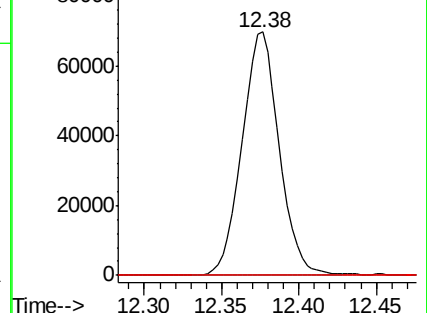
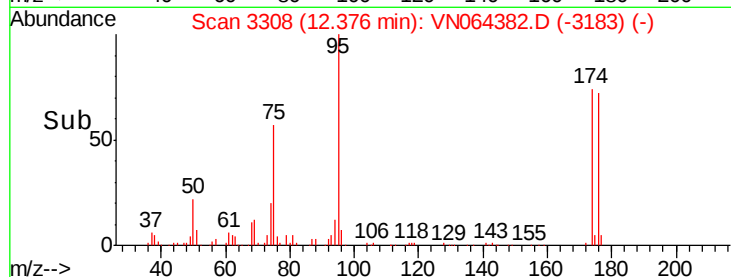
89 0.0 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 2.396 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064382.D

Acq: 29 Oct 2020 18:31

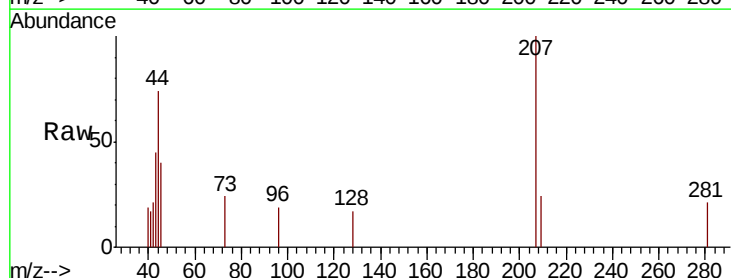
Tgt Ion: 128 Resp: 30

Ion Ratio Lower Upper

128 100

127 0.0 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

