

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063572.D
 Acq On : 23 Sep 2020 8:04
 Operator : JC/MD
 Sample : L3872-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-02-092120

Quant Time: Sep 23 08:40:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	204239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	395194	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	399094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	164018	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	177761	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
35) Dibromofluoromethane	7.55	113	126743	46.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.66%	
50) Toluene-d8	10.06	98	508403	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.38	95	198595	52.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.32%	

Target Compounds

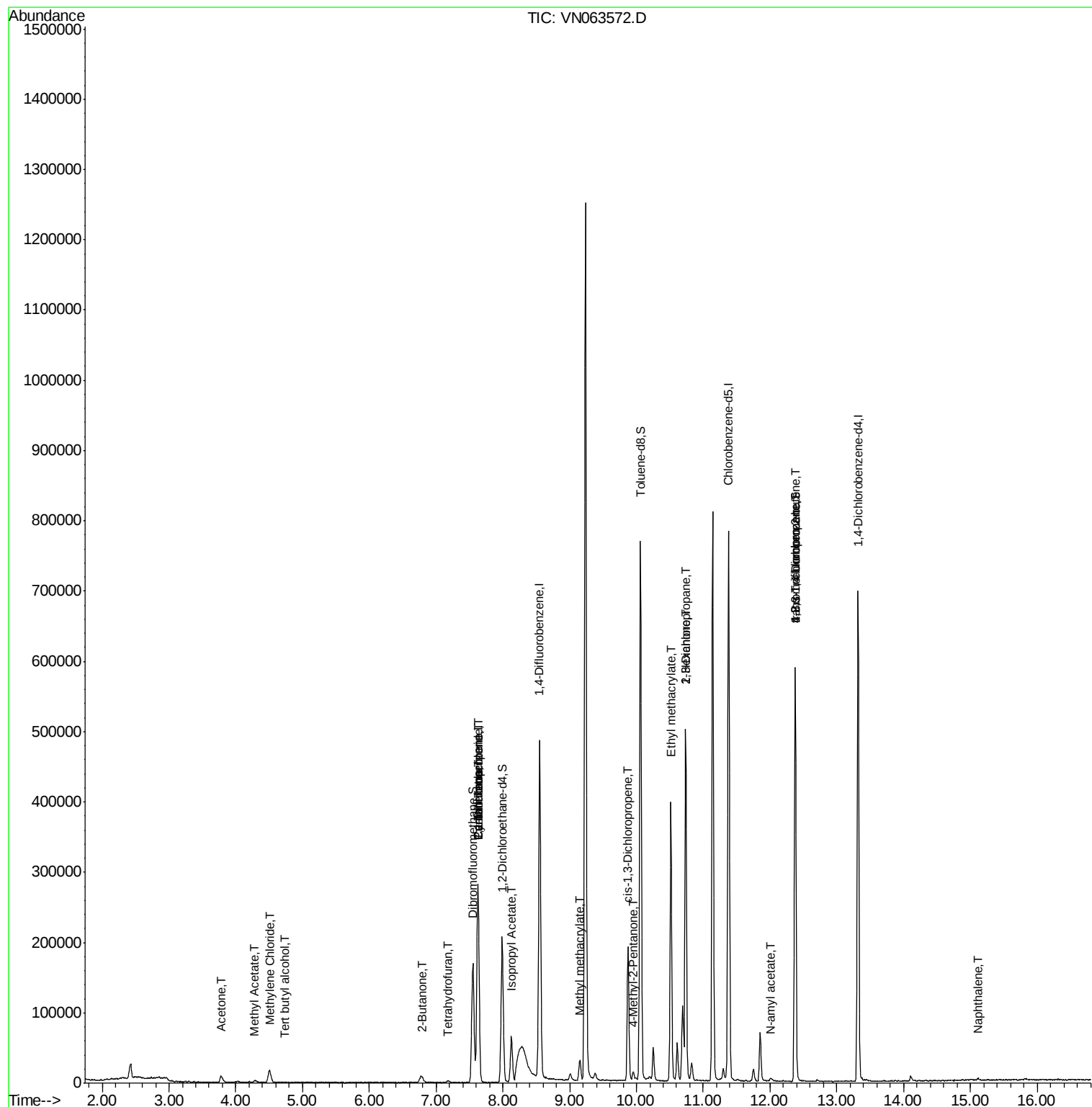
						Qvalue
11) Tert butyl alcohol	4.73	59	263	0.546	ug/l #	72
16) Acetone	3.78	43	16231	14.526	ug/l	98
18) Methyl Acetate	4.28	43	1946	0.686	ug/l #	74
20) Methylene Chloride	4.51	84	11816	4.174	ug/l	97
25) 2-Butanone	6.80	43	3365	1.958	ug/l	94
29) Tetrahydrofuran	7.16	42	722	0.615	ug/l #	56
31) Cyclohexane	7.62	56	5612	1.169	ug/l #	25
36) 1,1-Dichloropropene	7.63	75	18496	4.393	ug/l #	48
38) Carbon Tetrachloride	7.63	117	23388	5.442	ug/l #	17
43) Isopropyl Acetate	8.13	43	74915	10.139	ug/l	96
48) Methyl methacrylate	9.15	41	5074	1.398	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	8954	2.165	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	31888	6.059	ug/l #	64
56) Ethyl methacrylate	10.51	69	1707	0.381	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5035	0.973	ug/l #	42
59) 2-Hexanone	10.74	43	79357	26.481	ug/l #	53
74) N-amyl acetate	12.01	43	3383	0.544	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	111860	27.554	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111860	75.542	ug/l #	7
95) Naphthalene	15.11	128	2826	0.270	ug/l #	91

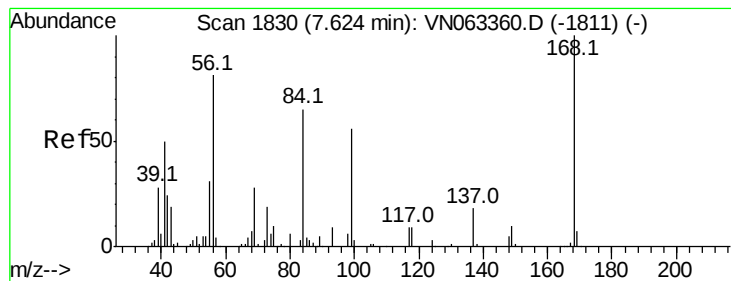
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

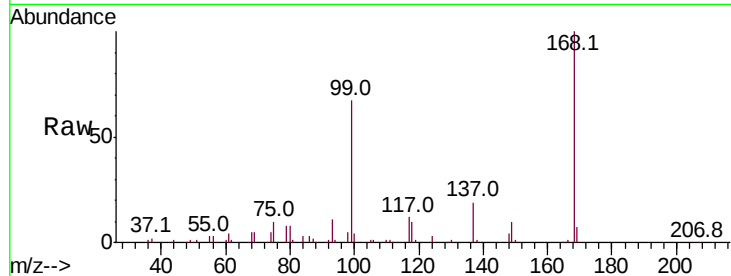
BU-02-092120

Tot Ion:168 Resp: 204239

Ion Ratio Lower Upper

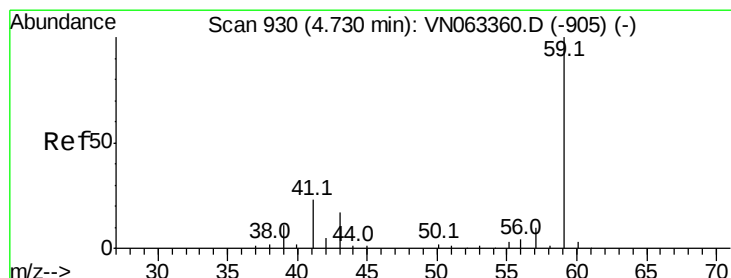
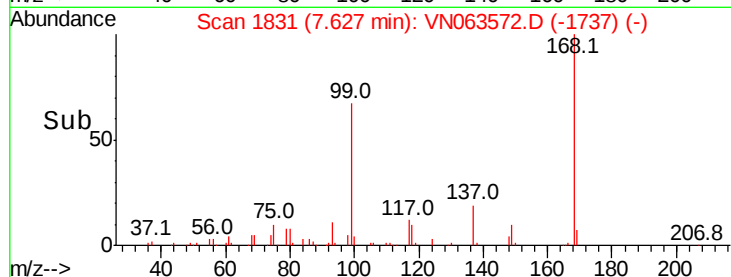
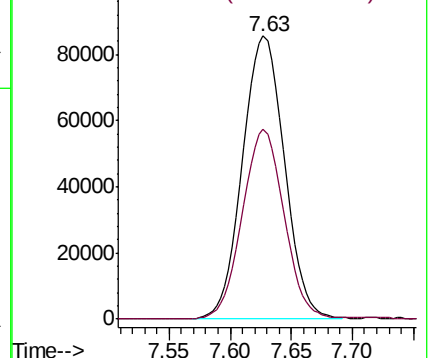
168 100

99 67.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.546 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN063572.D

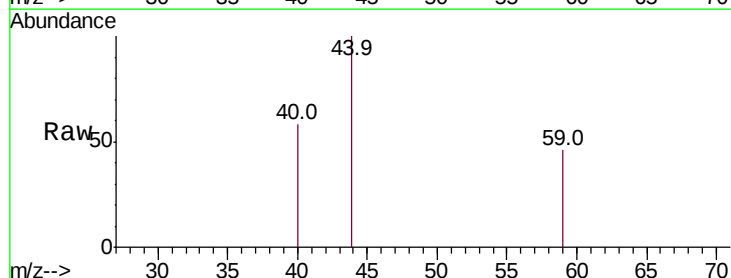
Acq: 23 Sep 2020 8:04

Tgt Ion: 59 Resp: 263

Ion Ratio Lower Upper

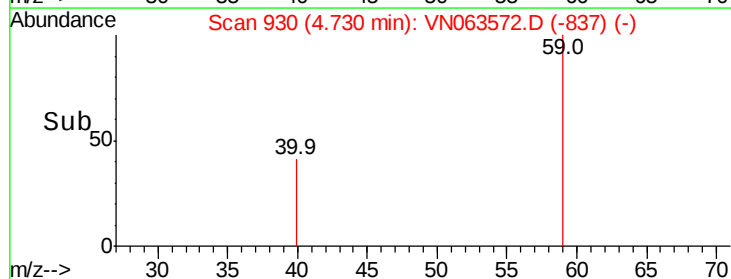
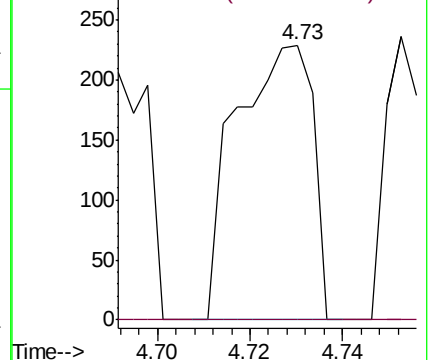
59 100

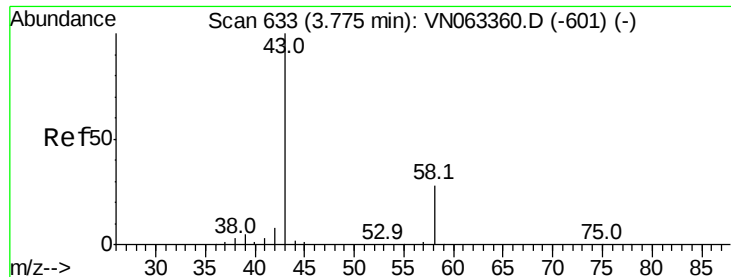
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 14.526 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

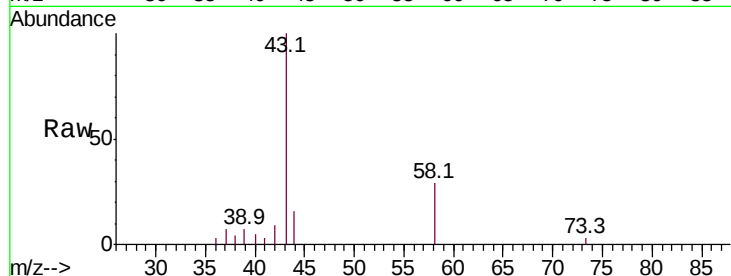
BU-02-092120

Tot Ion: 43 Resp: 16231

Ion Ratio Lower Upper

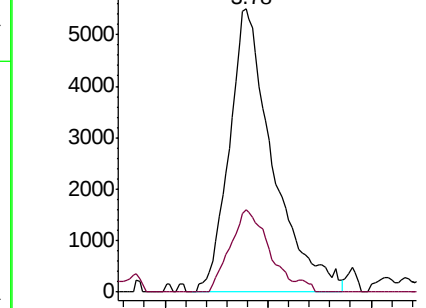
43 100

58 29.2 22.3 33.5

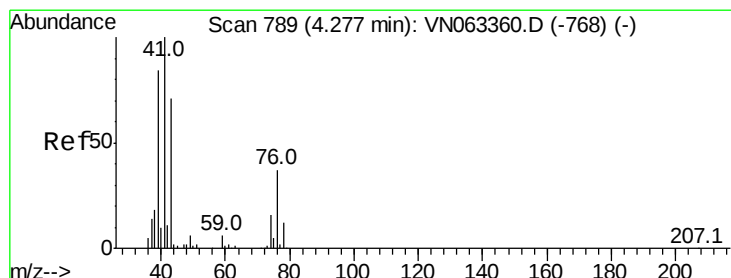
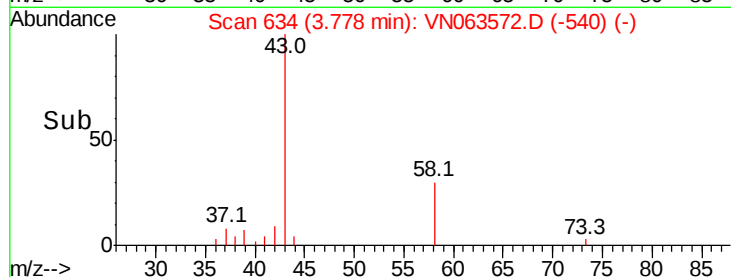


Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)



Time-->



#18

Methyl Acetate

Concen: 0.686 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063572.D

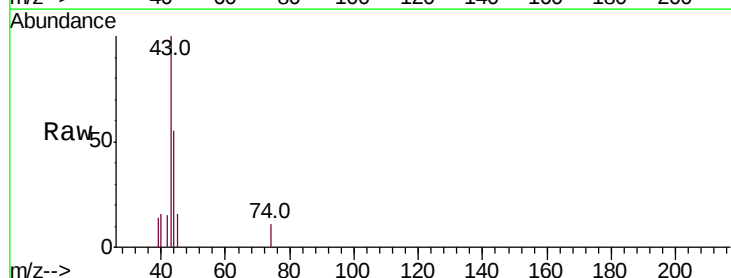
Acq: 23 Sep 2020 8:04

Tgt Ion: 43 Resp: 1946

Ion Ratio Lower Upper

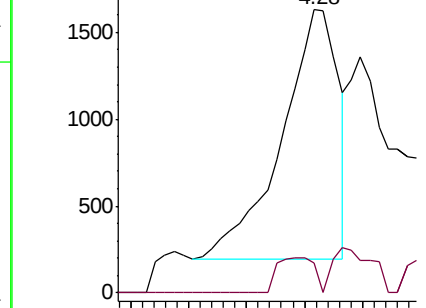
43 100

74 9.4 17.4 26.2#

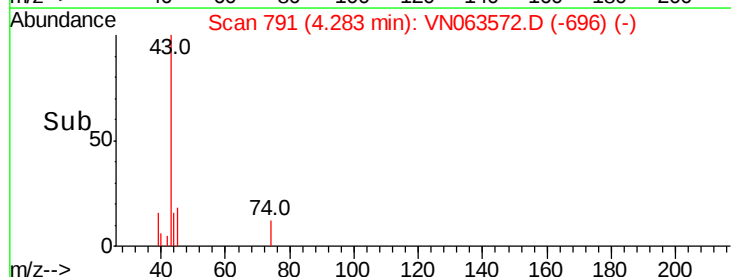


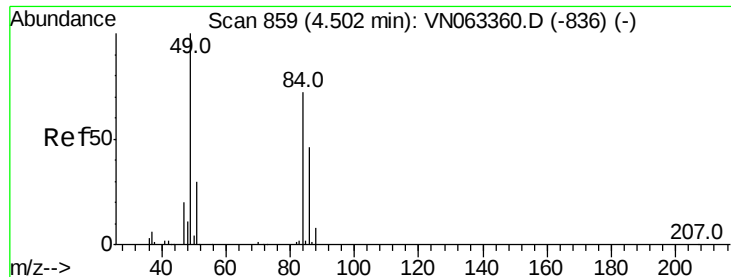
Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063360.D (-768) (-)



Time-->

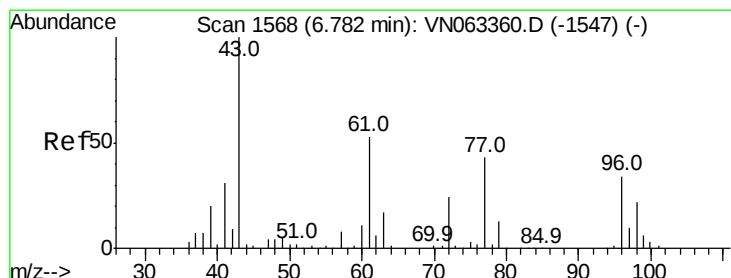
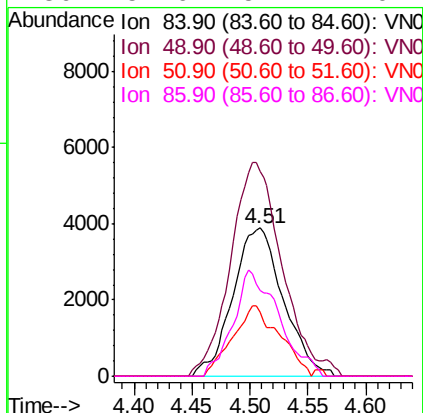
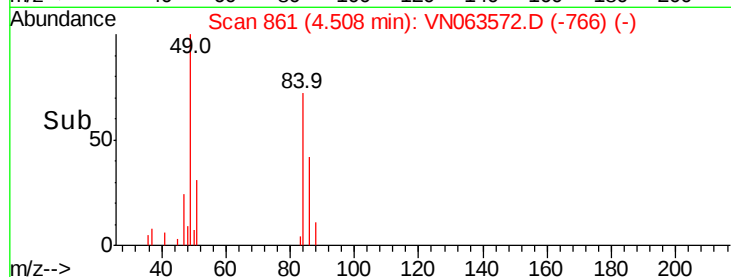
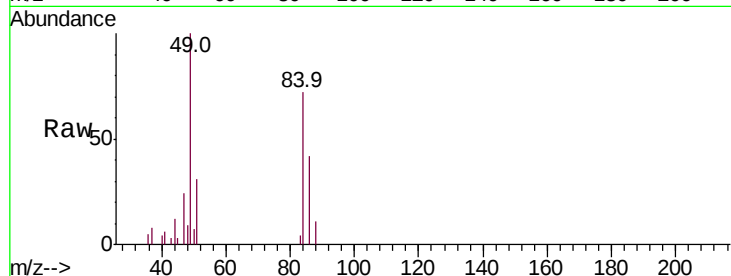




#20
Methvlene Chloride
Concen: 4.174 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

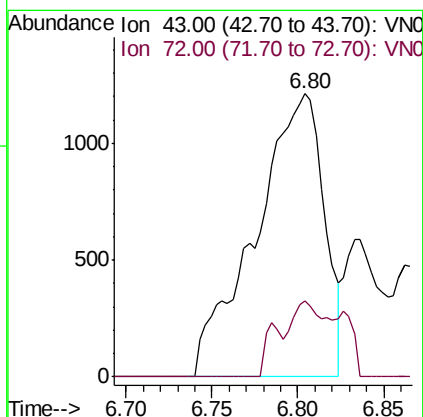
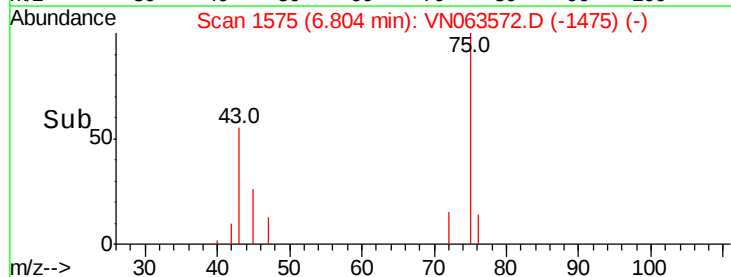
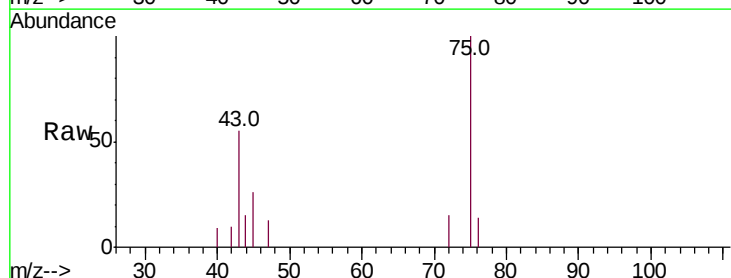
Instrument :
MSVOA_N
ClientSampleId :
BU-02-092120

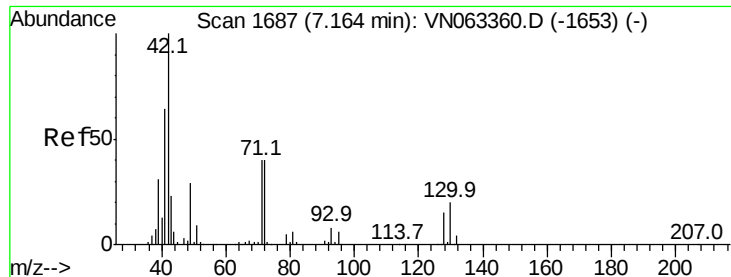
Tot Ion: 84 Resp: 11816
Ion Ratio Lower Upper
84 100
49 138.4 110.7 166.1
51 42.9 32.9 49.3
86 57.6 51.1 76.7



#25
2-Butanone
Concen: 1.958 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

Tgt Ion: 43 Resp: 3365
Ion Ratio Lower Upper
43 100
72 27.0 19.2 28.8





#29

Tetrahydrofuran

Concen: 0.615 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

BU-02-092120

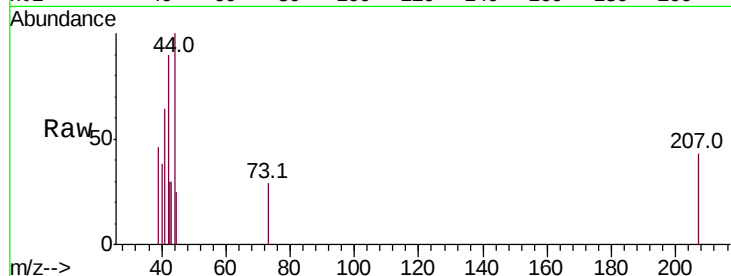
Tot Ion: 42 Resp: 722

Ion Ratio Lower Upper

42 100

72 24.8 32.1 48.1#

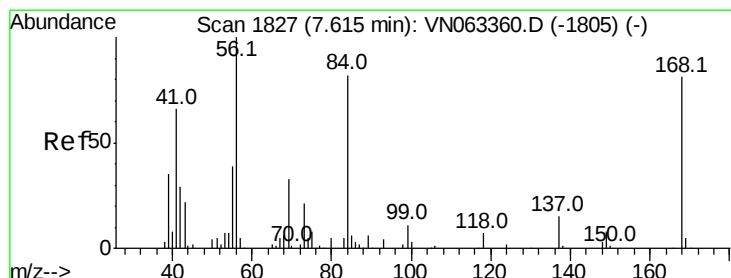
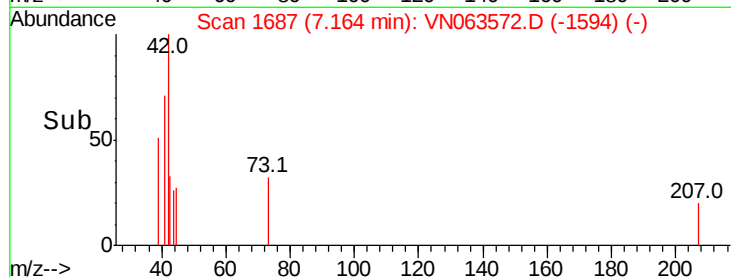
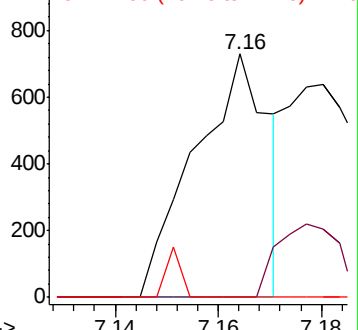
71 0.0 31.2 46.8#



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: 1.169 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

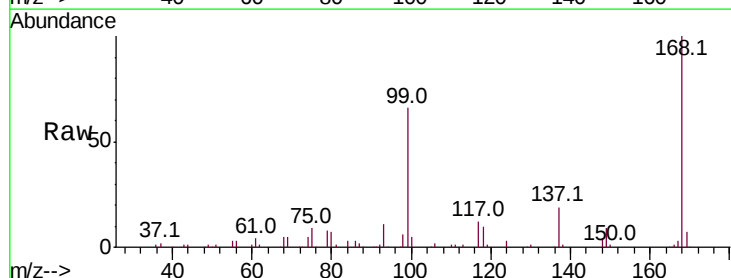
Tgt Ion: 56 Resp: 5612

Ion Ratio Lower Upper

56 100

69 164.3 26.1 39.1#

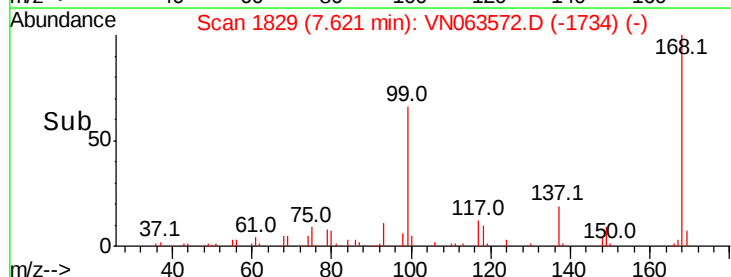
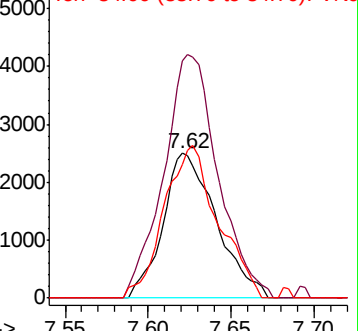
84 92.2 65.4 98.2

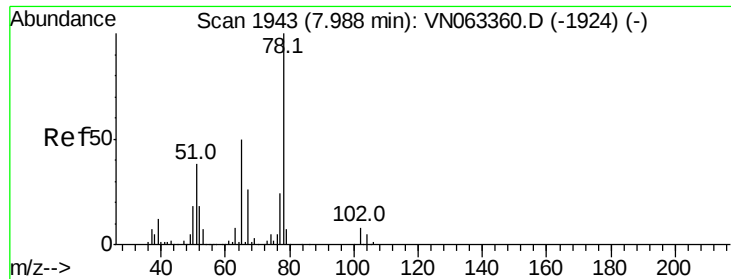


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 51.129 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

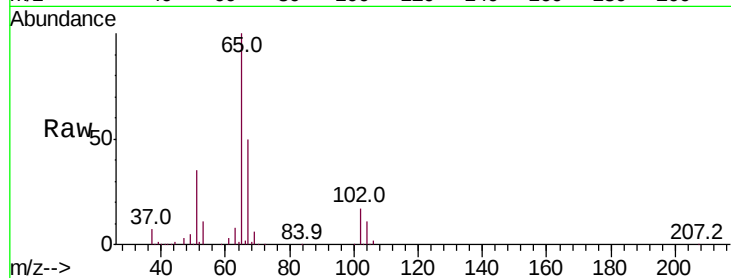
BU-02-092120

Tot Ion: 65 Resp: 177761

Ion Ratio Lower Upper

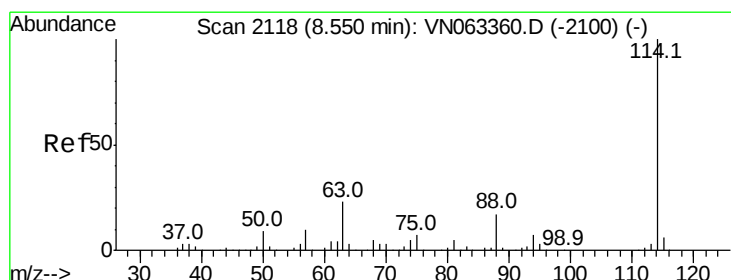
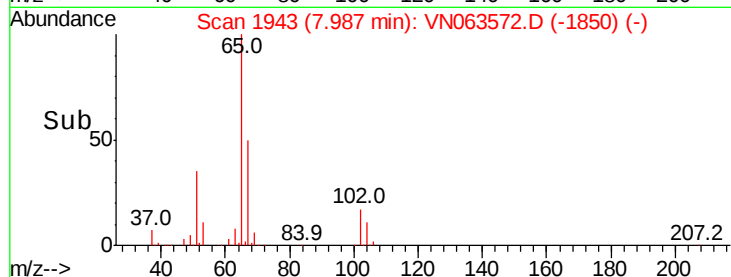
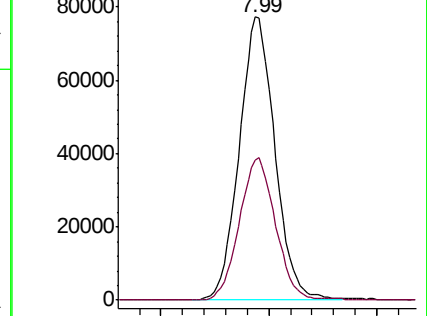
65 100

67 51.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

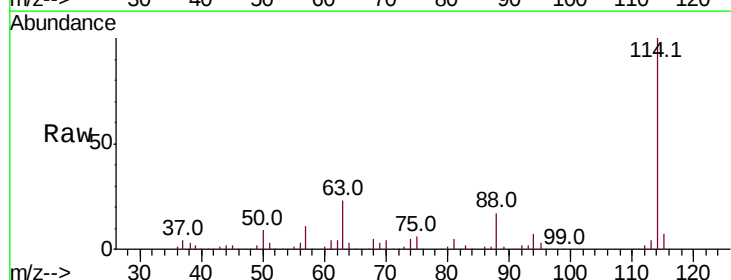
Tgt Ion: 114 Resp: 395194

Ion Ratio Lower Upper

114 100

63 23.5 0.0 46.4

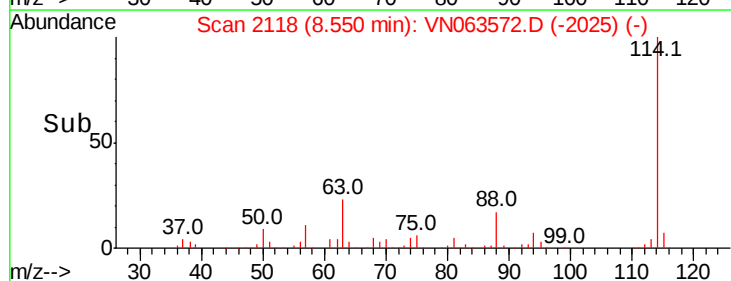
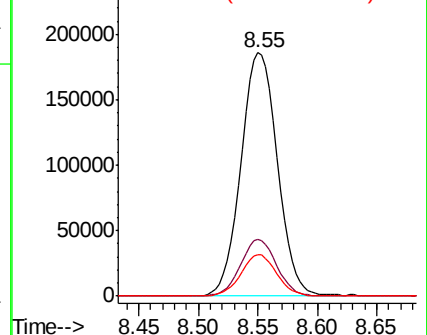
88 17.1 0.0 33.2

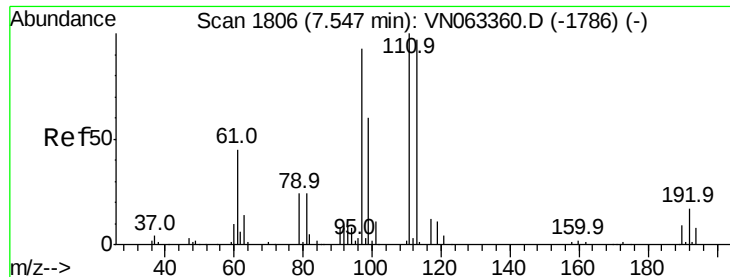


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

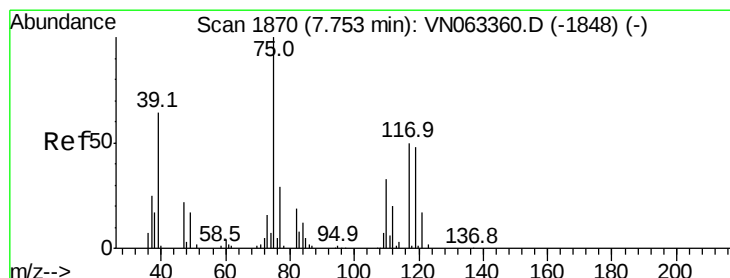
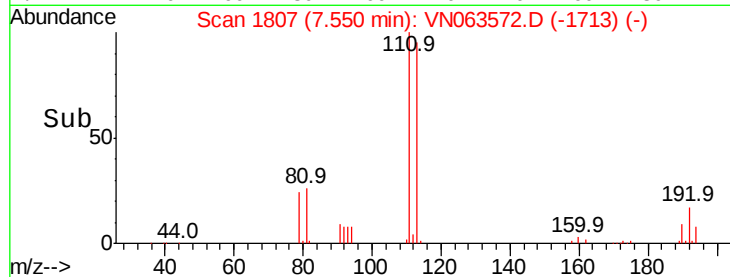
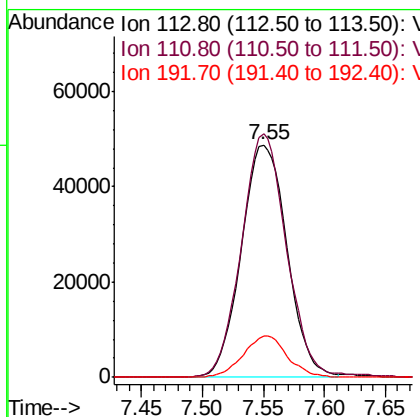
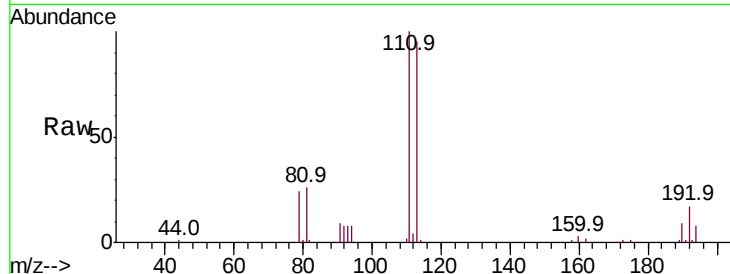




#35
 Dibromofluoromethane
 Concen: 46.327 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063572.D
 Acq: 23 Sep 2020 8:04

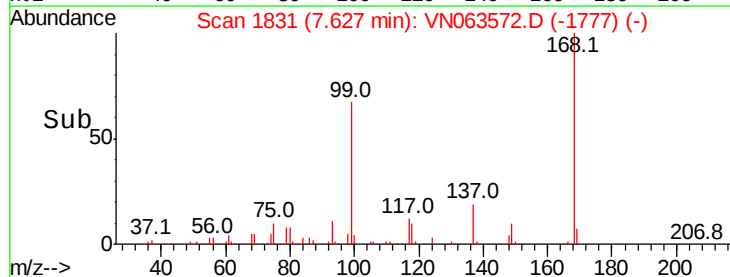
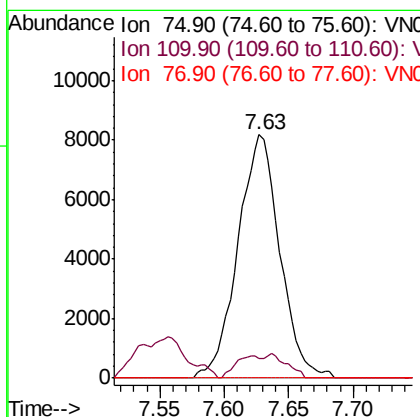
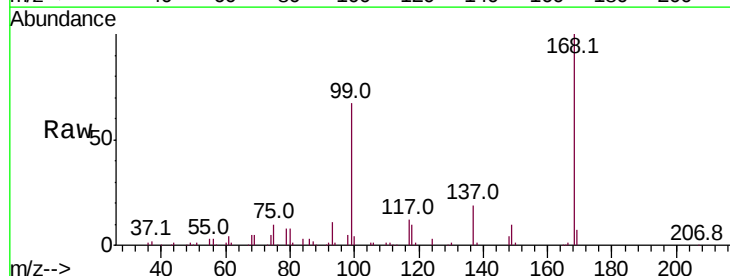
Instrument :
 MSVOA_N
 ClientSampleId :
 BU-02-092120

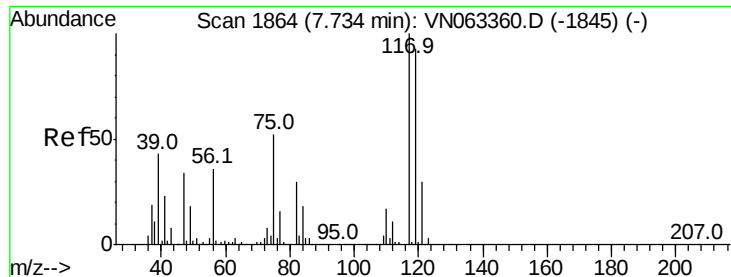
Tot Ion:113 Resp: 126743
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.9 124.3
 192 17.1 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.393 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063572.D
 Acq: 23 Sep 2020 8:04

Tgt Ion: 75 Resp: 18496
 Ion Ratio Lower Upper
 75 100
 110 6.0 16.5 49.5#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.442 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

BU-02-092120

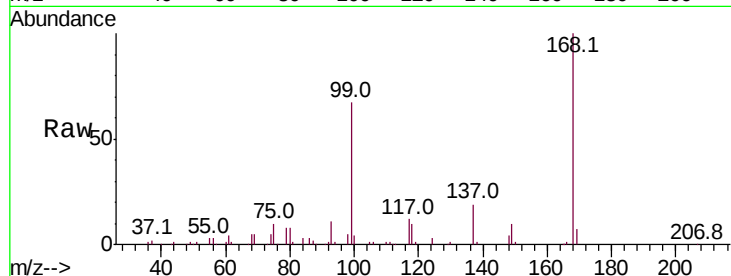
Tot Ion:117 Resp: 23388

Ion Ratio Lower Upper

117 100

119 4.7 74.5 111.7#

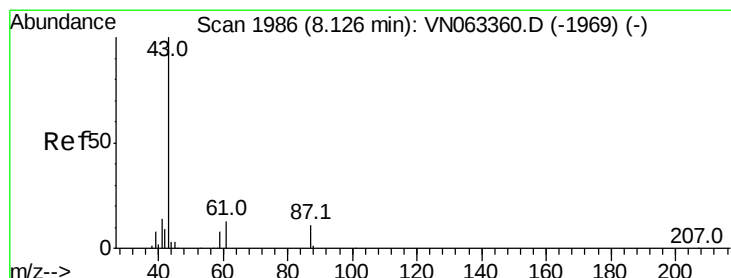
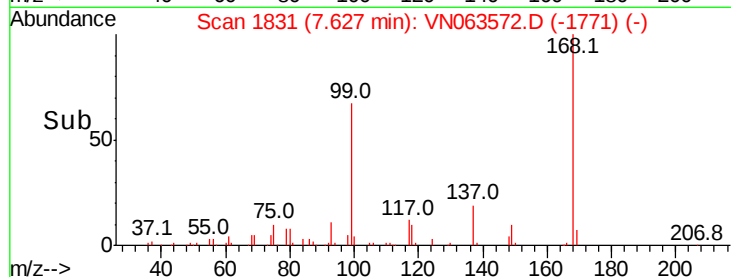
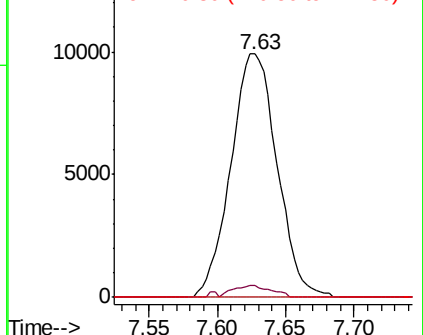
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.139 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

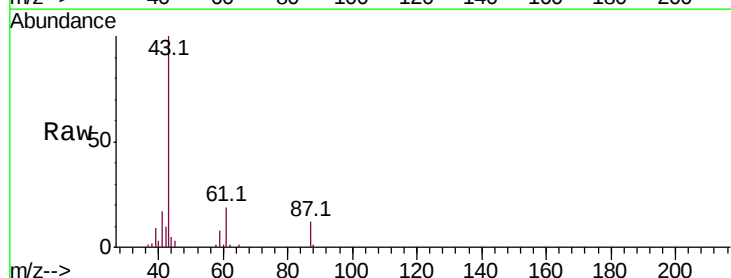
Tgt Ion: 43 Resp: 74915

Ion Ratio Lower Upper

43 100

61 19.4 14.2 21.2

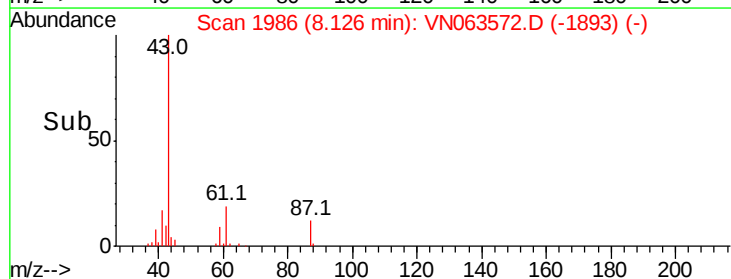
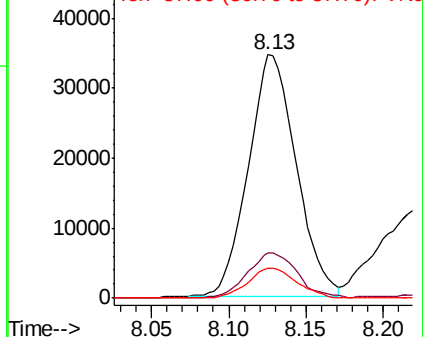
87 12.5 9.0 13.6

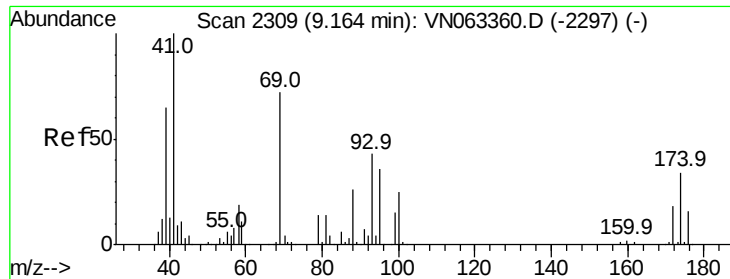


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

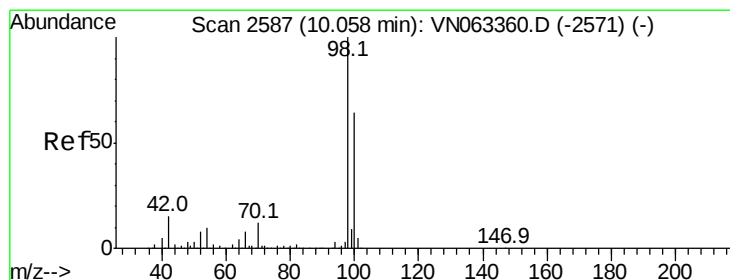
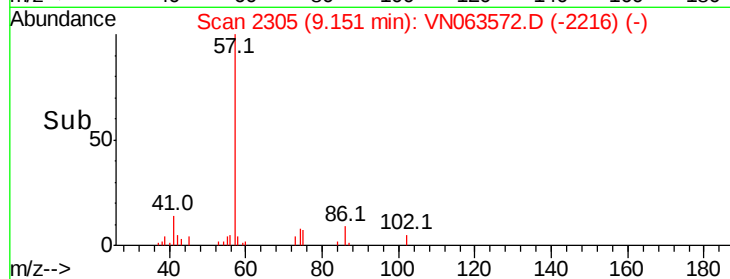
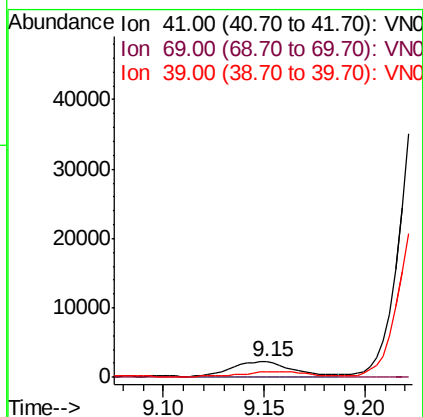
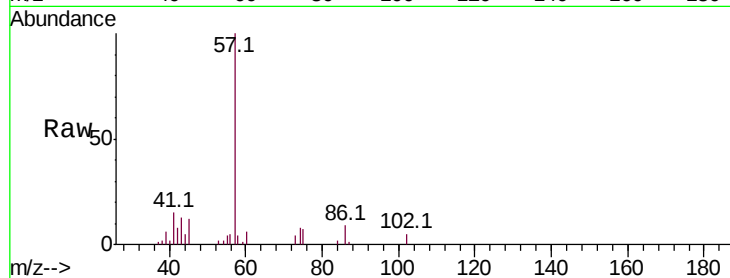




#48
Methyl methacrylate
Concen: 1.398 ug/l
RT: 9.15 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

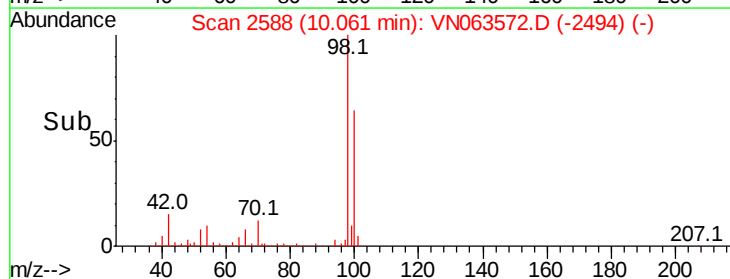
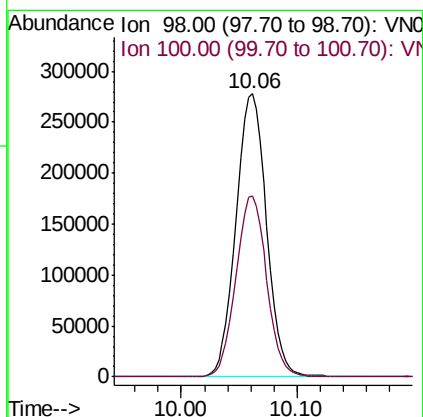
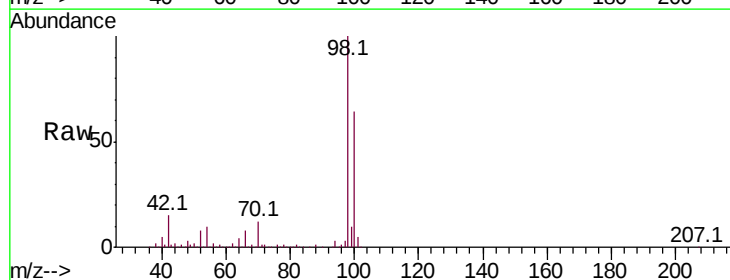
Instrument :
MSVOA_N
ClientSampled :
BU-02-092120

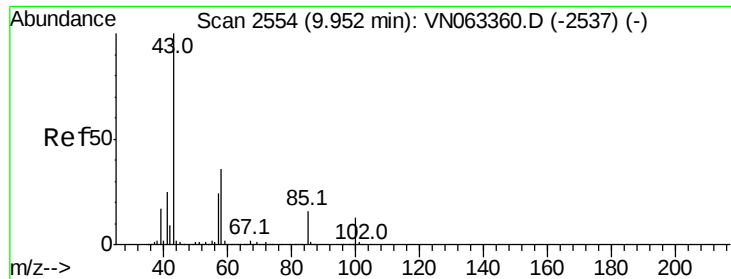
Tot Ion: 41 Resp: 5074
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#50
Toluene-d8
Concen: 49.421 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

Tgt Ion: 98 Resp: 508403
Ion Ratio Lower Upper
98 100
100 64.1 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 2.165 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

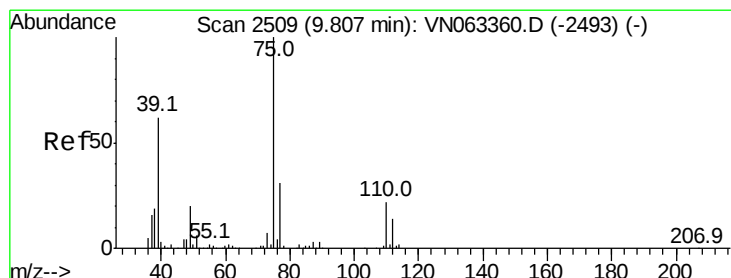
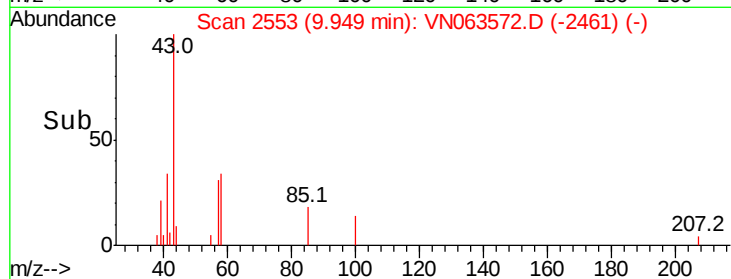
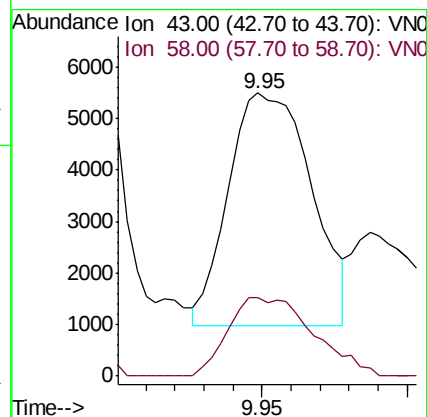
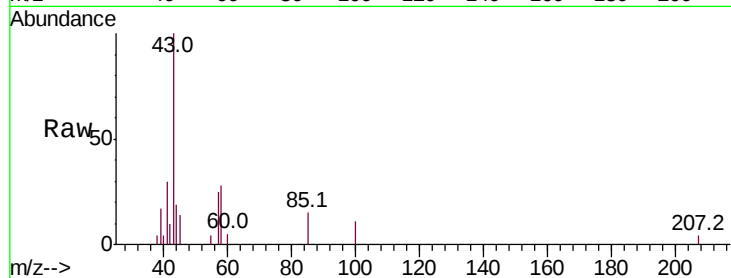
BU-02-092120

Tot Ion: 43 Resp: 8954

Ion Ratio Lower Upper

43 100

58 34.9 29.0 43.6



#54

cis-1,3-Dichloropropene

Concen: 6.059 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

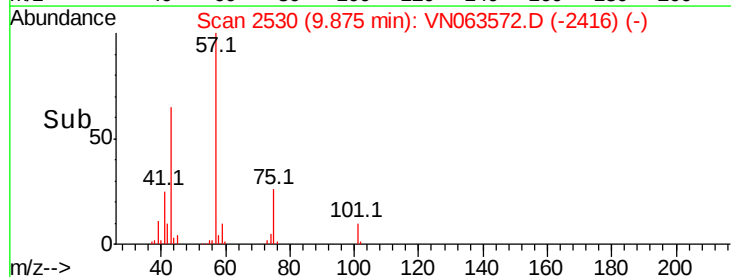
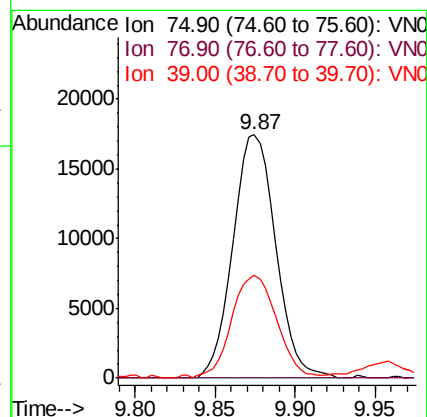
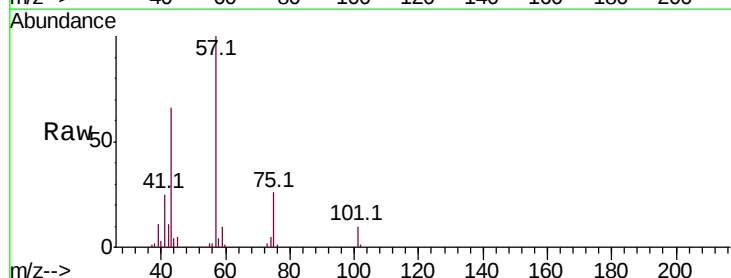
Tgt Ion: 75 Resp: 31888

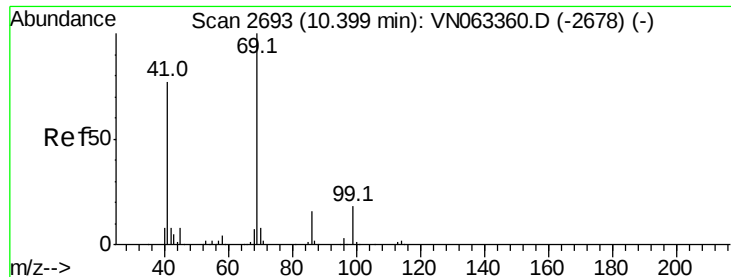
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 42.1 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.381 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

BU-02-092120

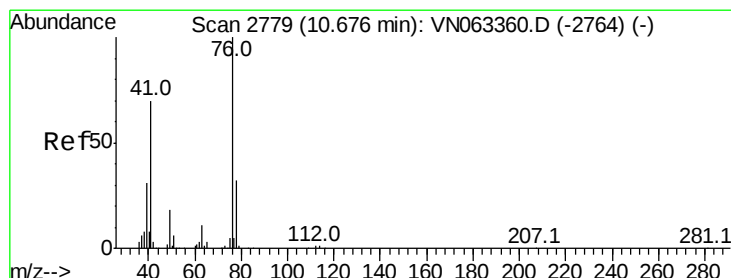
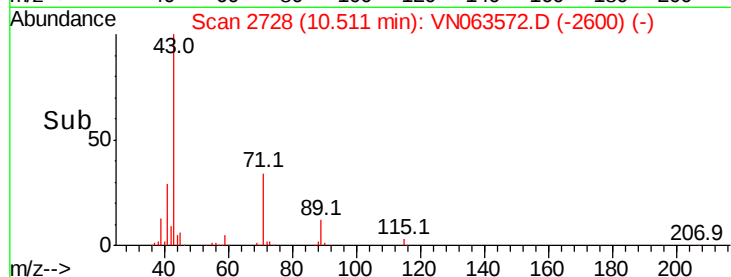
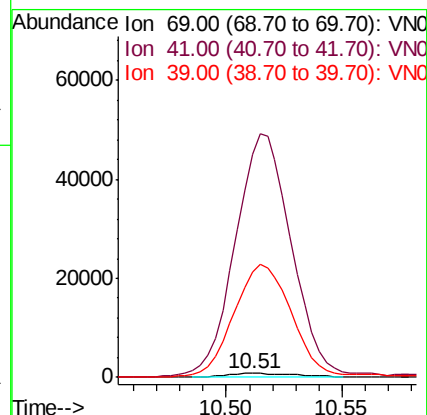
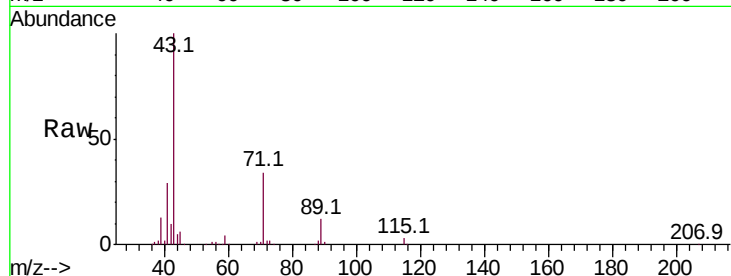
Tot Ion: 69 Resp: 1707

Ion Ratio Lower Upper

69 100

41 4901.1 61.0 91.6#

39 2362.0 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.973 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063572.D

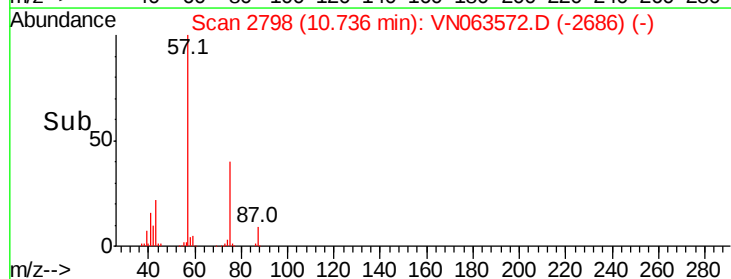
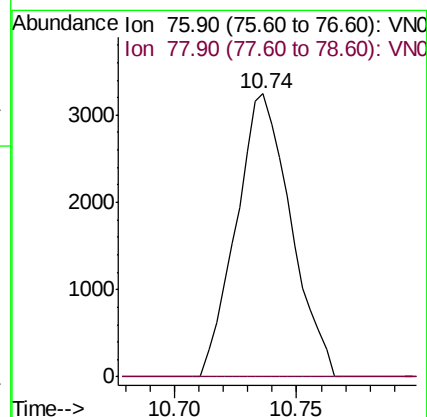
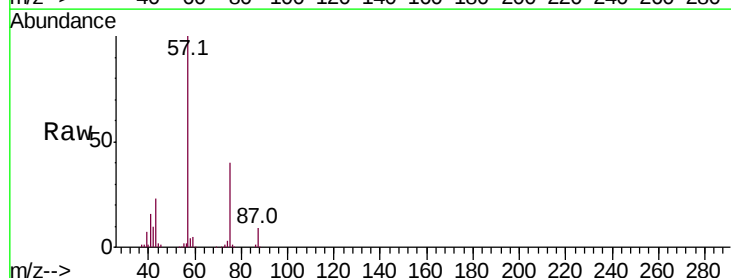
Acq: 23 Sep 2020 8:04

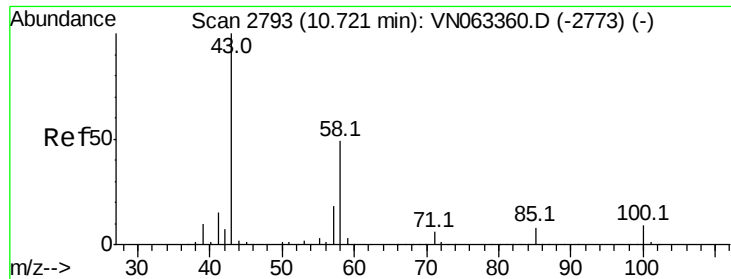
Tgt Ion: 76 Resp: 5035

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

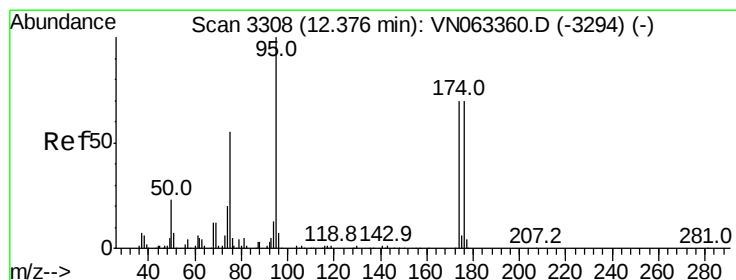
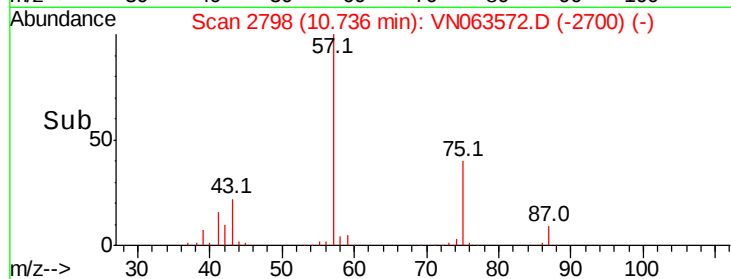
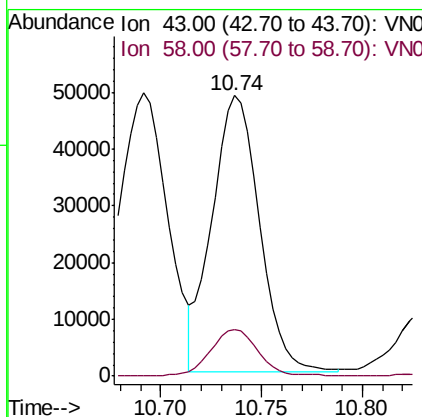
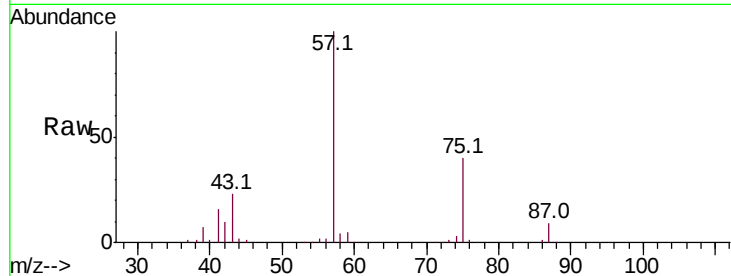




#59
2-Hexanone
Concen: 26.481 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

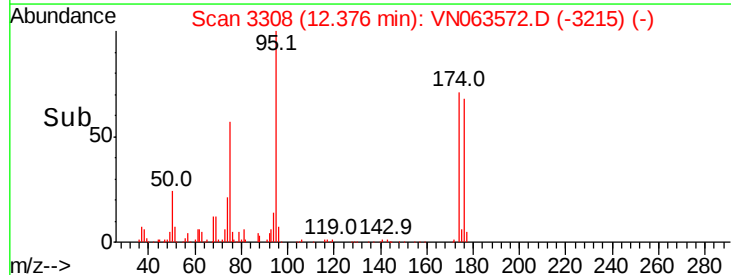
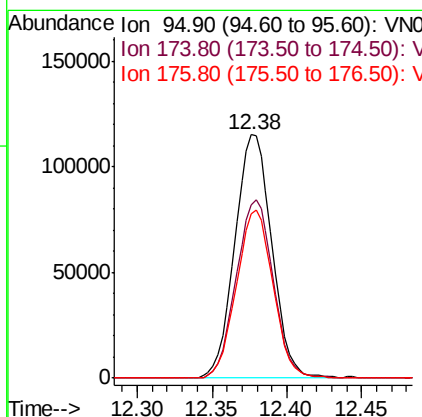
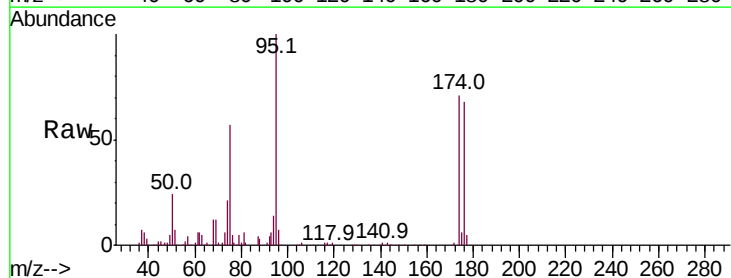
Instrument :
MSVOA_N
ClientSampled :
BU-02-092120

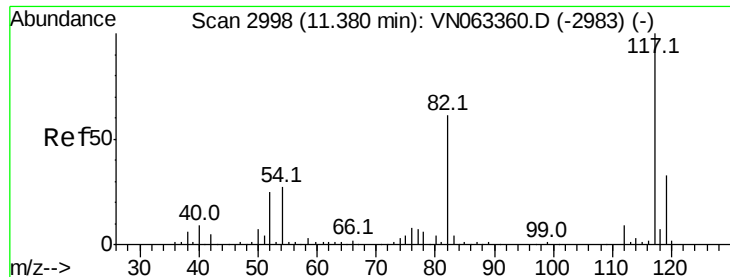
Tot Ion: 43 Resp: 79357
Ion Ratio Lower Upper
43 100
58 17.2 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 52.662 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

Tgt Ion: 95 Resp: 198595
Ion Ratio Lower Upper
95 100
174 73.5 0.0 140.8
176 68.5 0.0 137.6

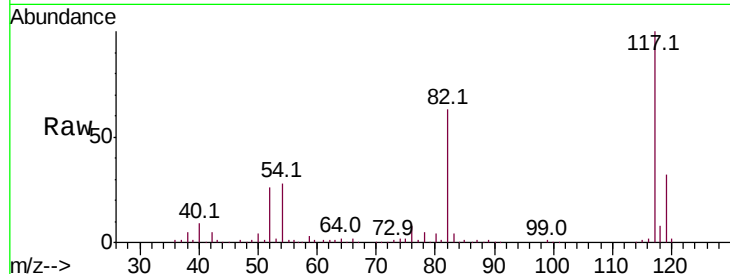




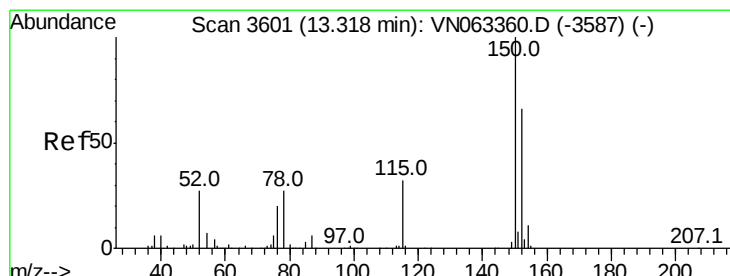
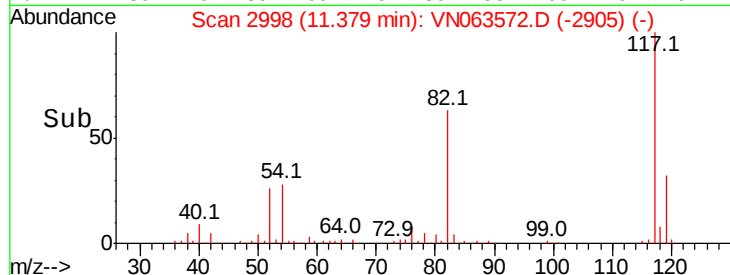
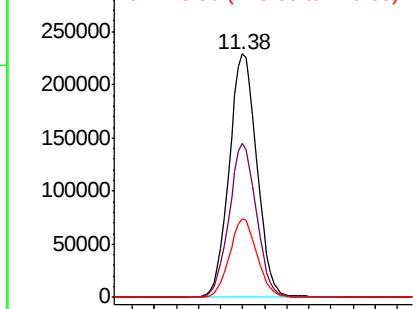
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

Instrument :
MSVOA_N
ClientSampleId :
BU-02-092120

Tot Ion:117 Resp: 399094
Ion Ratio Lower Upper
117 100
82 63.1 49.2 73.8
119 32.2 26.2 39.4

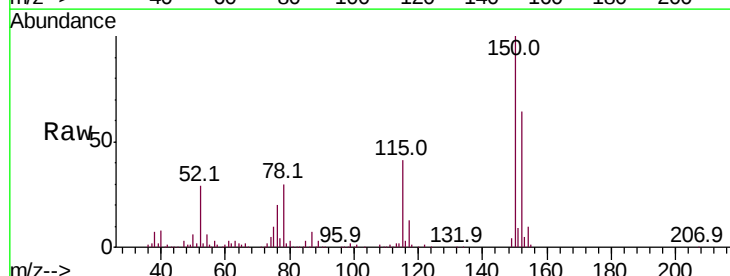


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

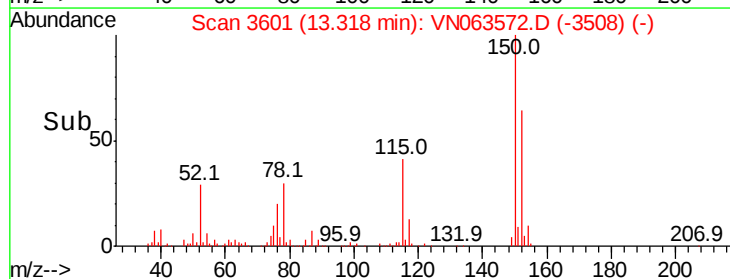
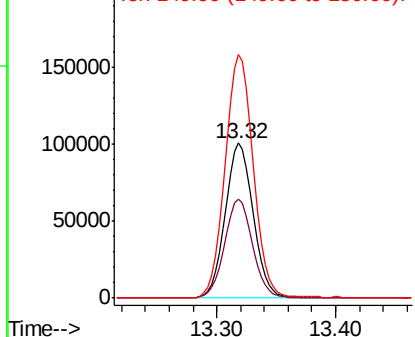


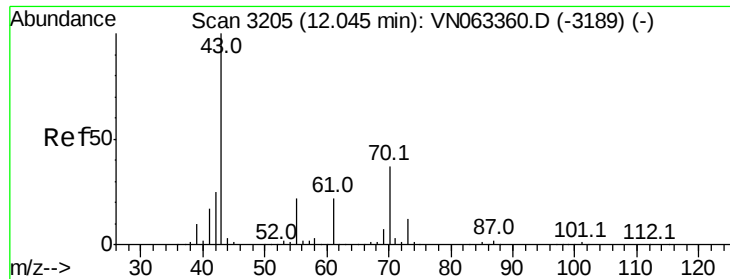
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

Tgt Ion:152 Resp: 164018
Ion Ratio Lower Upper
152 100
115 63.5 32.2 96.6
150 158.1 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

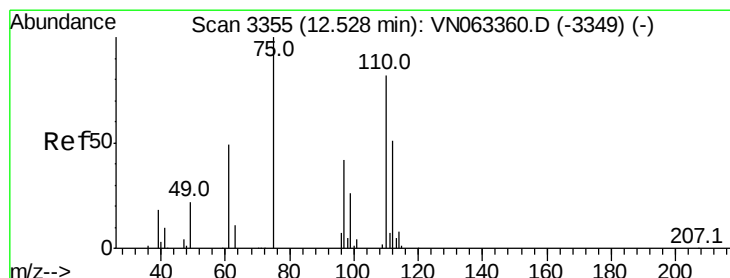
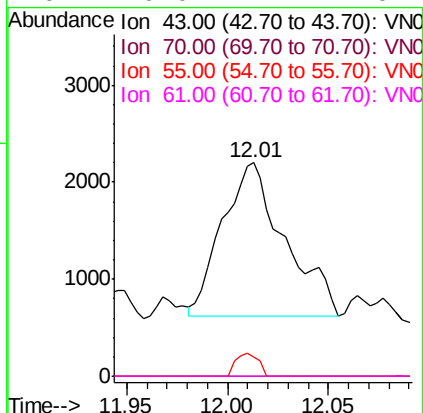
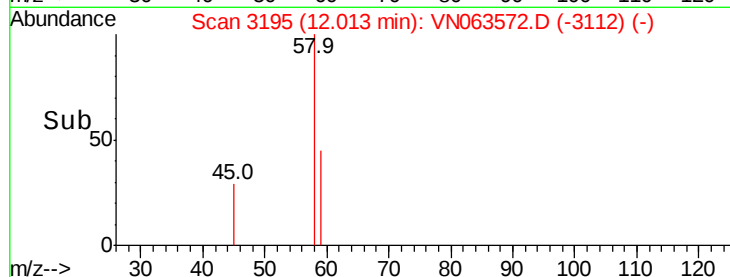
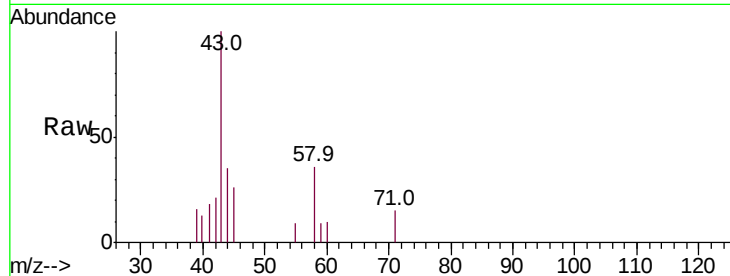




#74
N-amyl acetate
Concen: 0.544 ug/l
RT: 12.01 min Scan# 3195
Delta R.T. -0.03 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

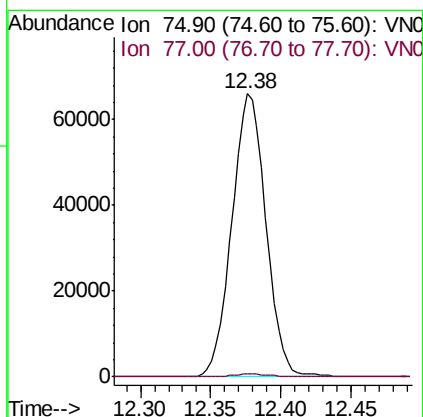
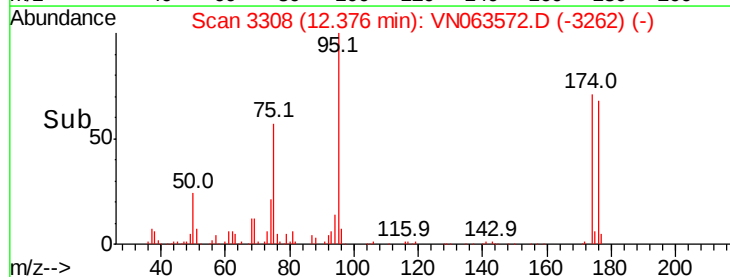
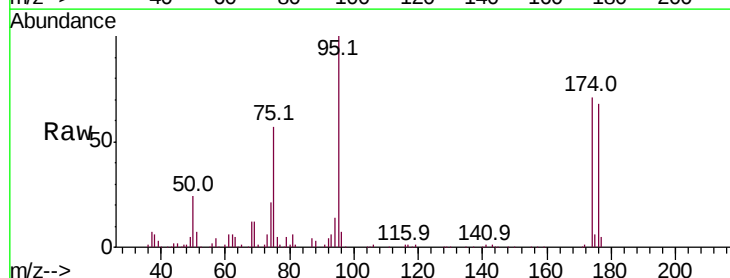
Instrument :
MSVOA_N
ClientSampled :
BU-02-092120

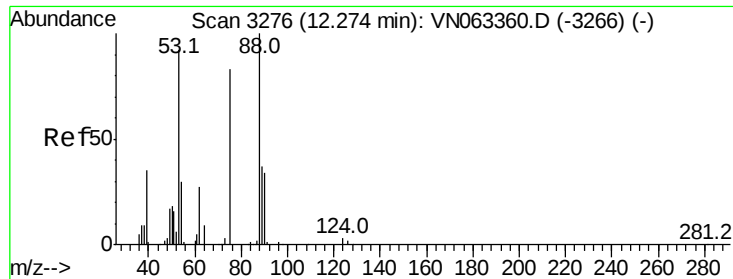
Tot Ion: 43 Resp: 3383
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 5.5 17.7 26.5#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 27.554 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063572.D
Acq: 23 Sep 2020 8:04

Tgt Ion: 75 Resp: 111860
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 75.542 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

BU-02-092120

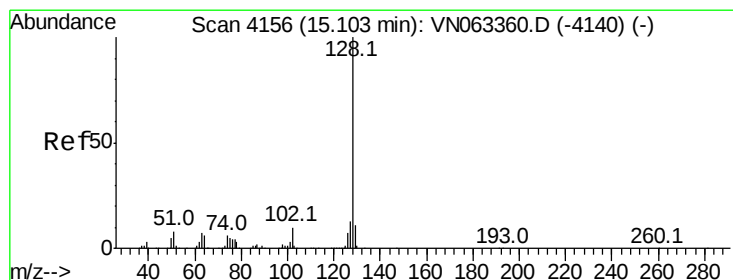
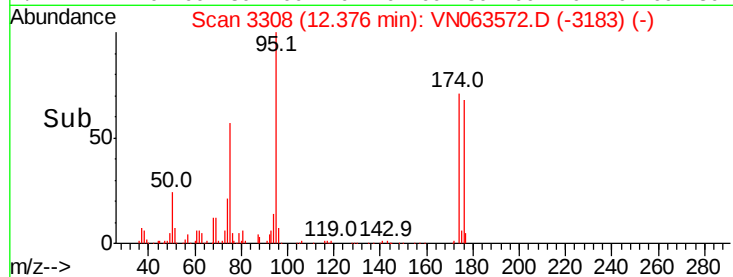
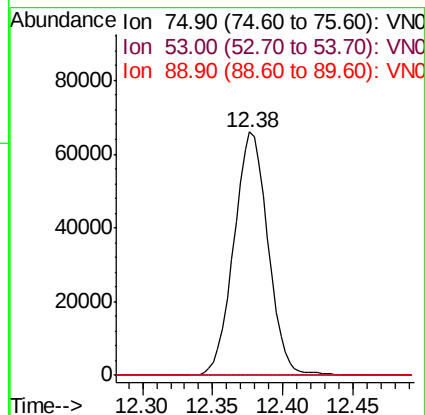
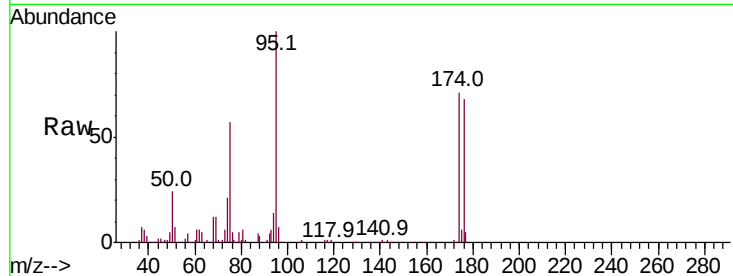
Tot Ion: 75 Resp: 111860

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



#95

Naphthalene

Concen: 0.270 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063572.D

Acq: 23 Sep 2020 8:04

Tgt Ion: 128 Resp: 2826

Ion Ratio Lower Upper

128 100

127 15.6 10.6 15.8

129 6.2 8.8 13.2#

