

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103020\
 Data File : VN064406.D
 Acq On : 30 Oct 2020 17:40
 Operator : JC/MD
 Sample : L4222-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-102920

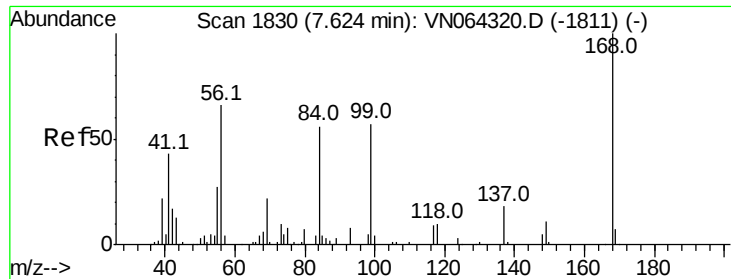
Quant Time: Nov 02 02:07:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	200353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	370445	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	374999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	153915	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	169250	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	7.55	113	123134	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
50) Toluene-d8	10.06	98	475851	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
62) 4-Bromofluorobenzene	12.37	95	198178	55.63	ug/l	0.00
Spiked Amount			Recovery	=	111.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.54	56	59	18.220	ug/l #	10
16) Acetone	3.78	43	20773	11.929	ug/l	95
18) Methyl Acetate	4.29	43	2710	1.120	ug/l #	66
20) Methylene Chloride	4.51	84	11577	5.070	ug/l #	89
25) 2-Butanone	6.79	43	518	0.320	ug/l #	52
31) Cyclohexane	7.61	56	2564	0.686	ug/l #	31
36) 1,1-Dichloropropene	7.62	75	18480	4.943	ug/l #	49
38) Carbon Tetrachloride	7.62	117	23662	5.459	ug/l #	18
43) Isopropyl Acetate	8.13	43	70195	10.874	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	924	0.332	ug/l #	44
48) Methyl methacrylate	9.15	41	4198	1.260	ug/l #	15
49) 1,4-Dioxane	9.24	88	66	1.344	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	5275	1.406	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	27903	5.934	ug/l #	62
56) Ethyl methacrylate	10.52	69	1369	0.349	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4070	0.920	ug/l #	42
59) 2-Hexanone	10.74	43	69811	25.260	ug/l #	50
74) N-amyl acetate	12.00	43	1837	0.362	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	112550	30.536	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112550	87.959	ug/l #	8
95) Naphthalene	15.11	128	1210	2.525	ug/l #	73

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

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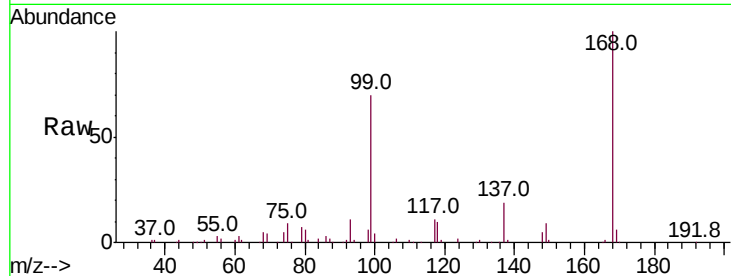
EO-02-102920

Tot Ion:168 Resp: 200353

Ion Ratio Lower Upper

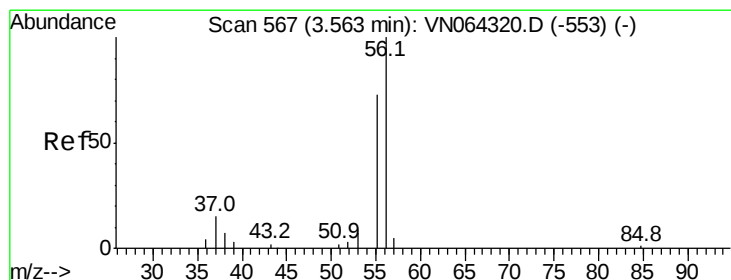
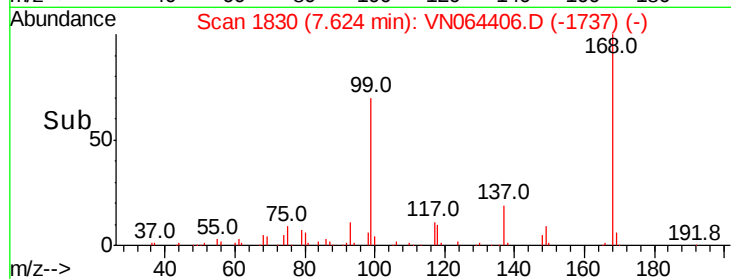
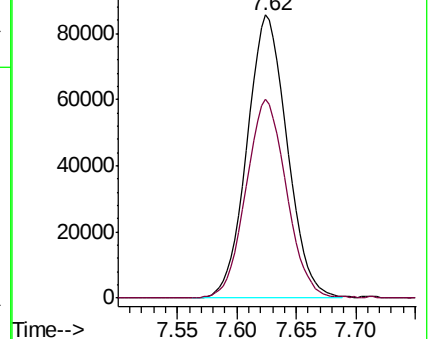
168 100

99 70.4 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): VN064406.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN064406.D (-1737) (-)



#13

Acrolein

Concen: 18.220 ug/l

RT: 3.54 min Scan# 559

Delta R.T. -0.03 min

Lab File: VN064406.D

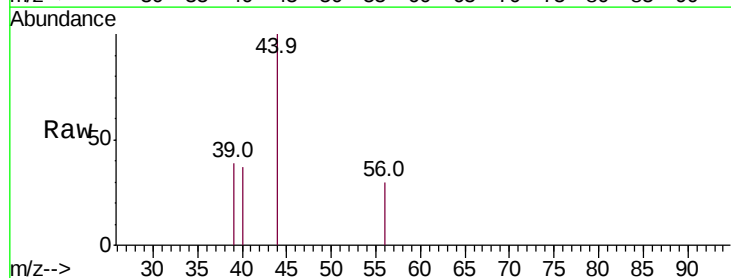
Acq: 30 Oct 2020 17:40

Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

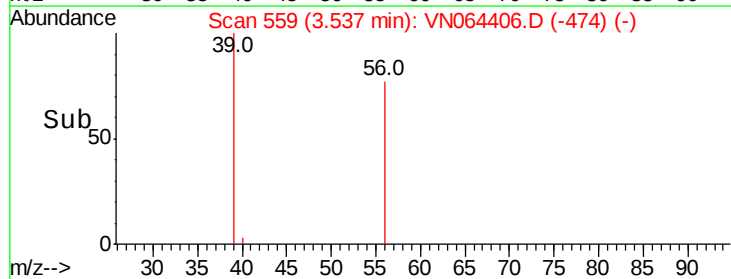
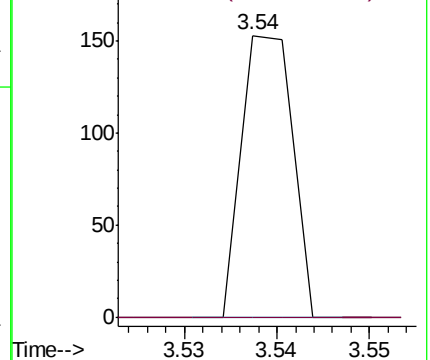
56 100

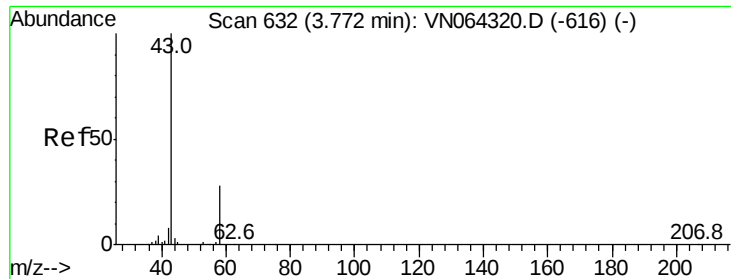
55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN064406.D (-474) (-)

Ion 55.00 (54.70 to 55.70): VN064406.D (-474) (-)





#16

Acetone

Concen: 11.929 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

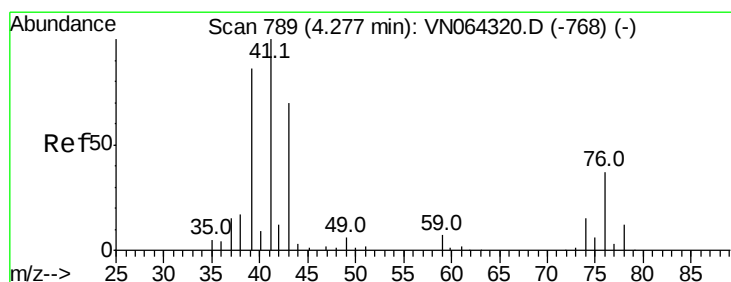
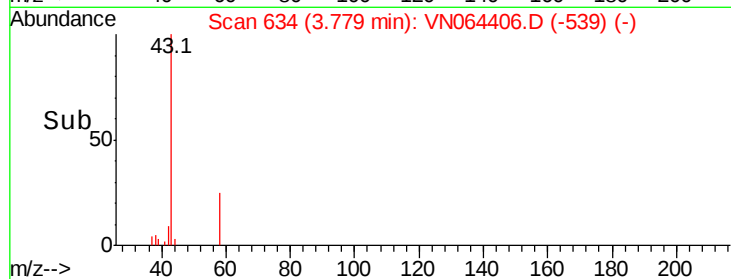
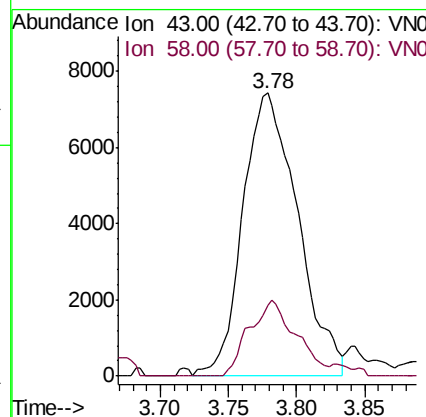
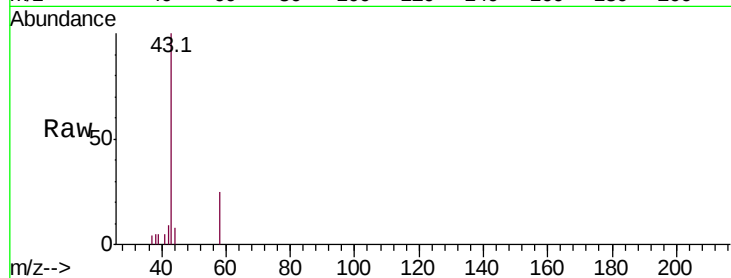
EO-02-102920

Tot Ion: 43 Resp: 20773

Ion Ratio Lower Upper

43 100

58 25.1 22.1 33.1



#18

Methyl Acetate

Concen: 1.120 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064406.D

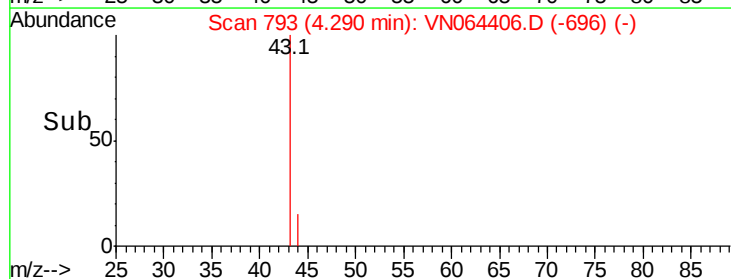
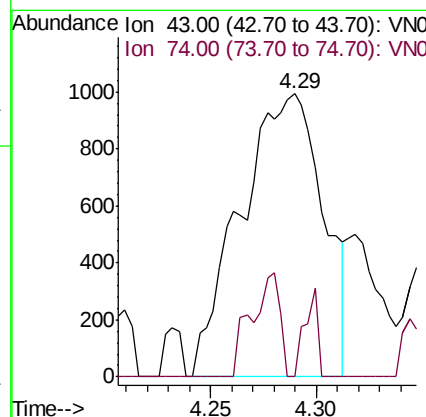
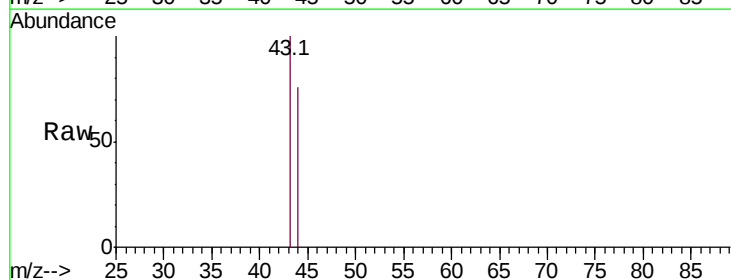
Acq: 30 Oct 2020 17:40

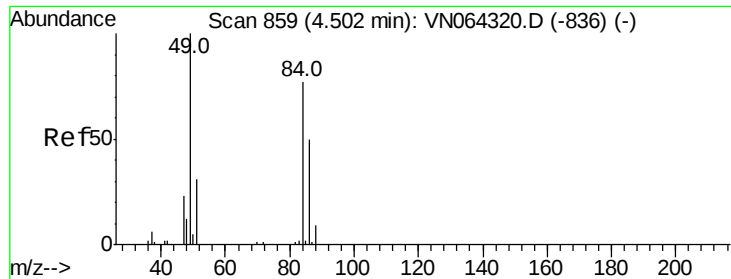
Tgt Ion: 43 Resp: 2710

Ion Ratio Lower Upper

43 100

74 4.8 16.7 25.1#

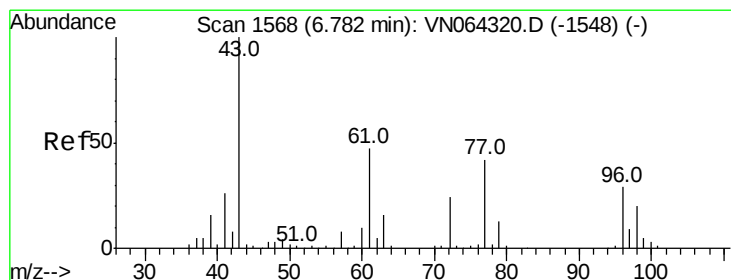
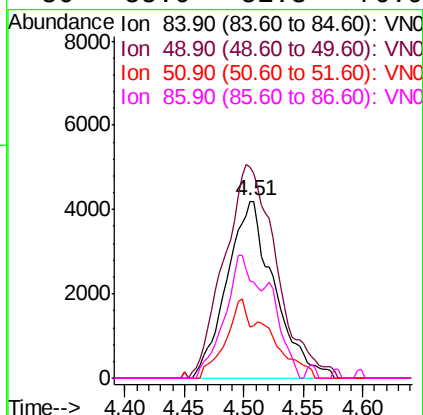
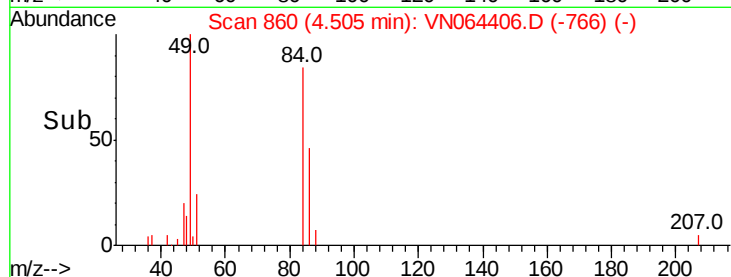
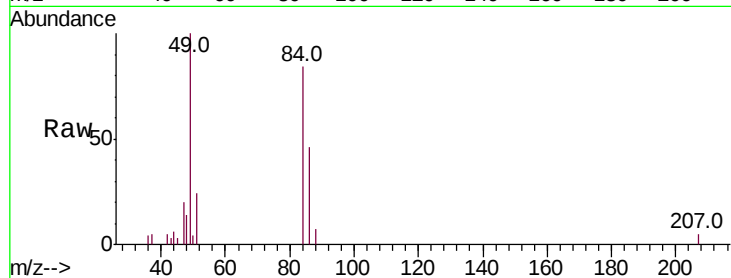




#20
Methvlene Chloride
Concen: 5.070 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064406.D
Acq: 30 Oct 2020 17:40

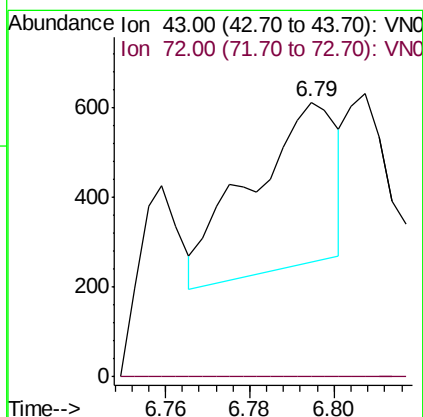
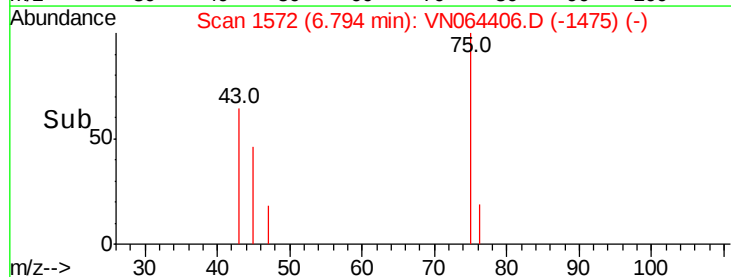
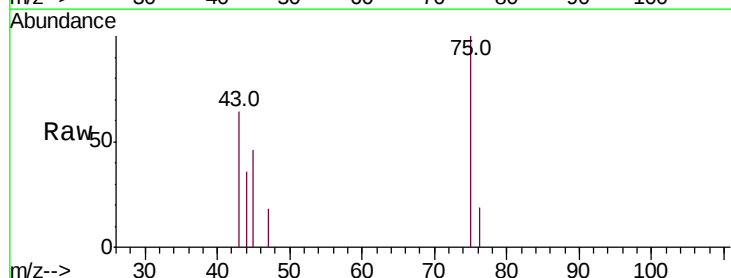
Instrument :
MSVOA_N
ClientSampleId :
EO-02-102920

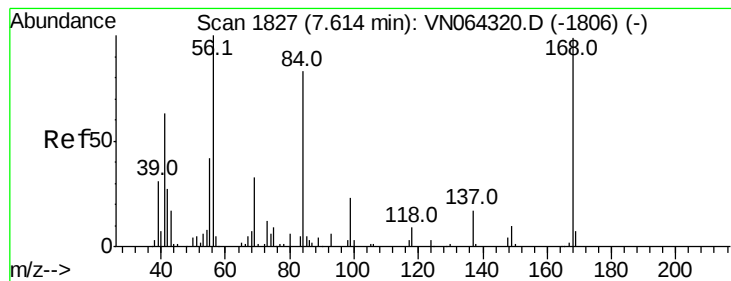
Tot Ion: 84 Resp: 11577
Ion Ratio Lower Upper
84 100
49 119.1 103.6 155.4
51 29.0 31.8 47.8#
86 55.0 51.3 76.9



#25
2-Butanone
Concen: 0.320 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN064406.D
Acq: 30 Oct 2020 17:40

Tgt Ion: 43 Resp: 518
Ion Ratio Lower Upper
43 100
72 0.0 18.8 28.2#





#31

Cyclohexane

Concen: 0.686 ug/l

RT: 7.61 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

EO-02-102920

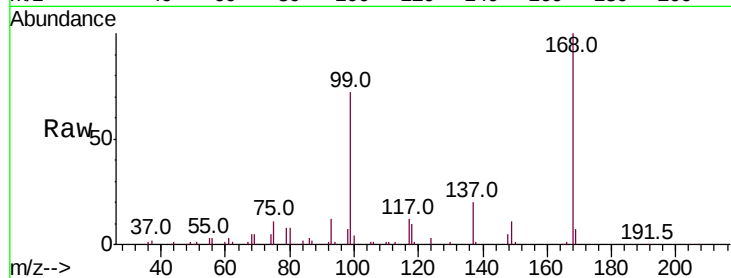
Tot Ion: 56 Resp: 2564

Ion Ratio Lower Upper

56 100

69 145.0 25.8 38.8#

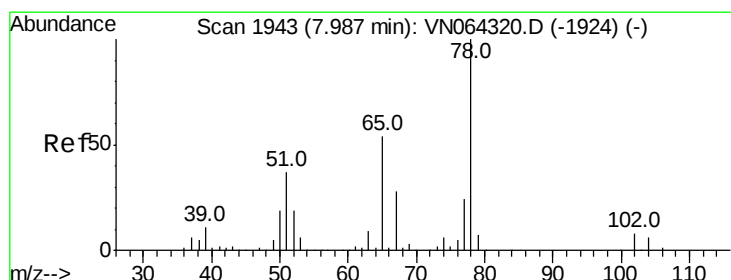
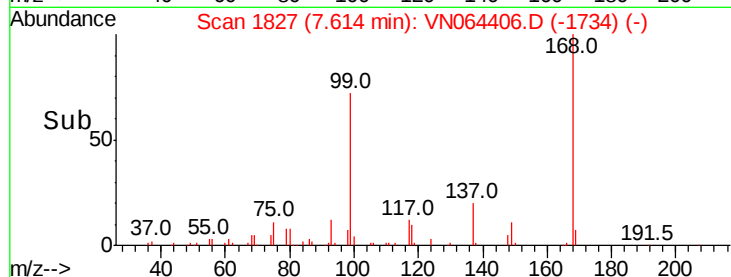
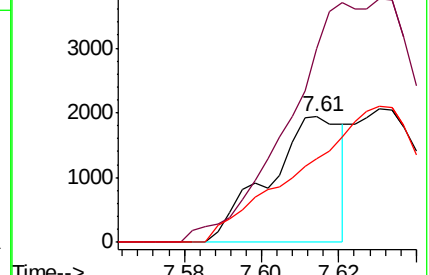
84 66.6 66.3 99.5



Abundance Ion 56.00 (55.70 to 56.70): VN064406.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN064406.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN064406.D (-1734) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.568 ug/l

RT: 7.98 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN064406.D

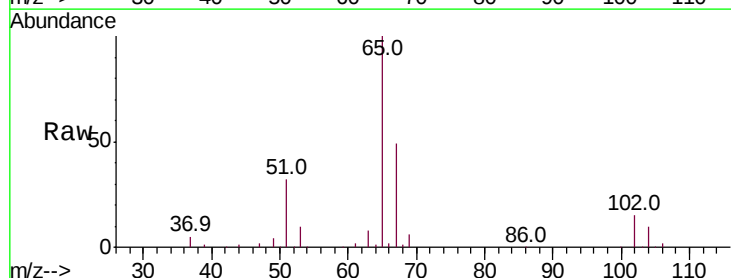
Acq: 30 Oct 2020 17:40

Tgt Ion: 65 Resp: 169250

Ion Ratio Lower Upper

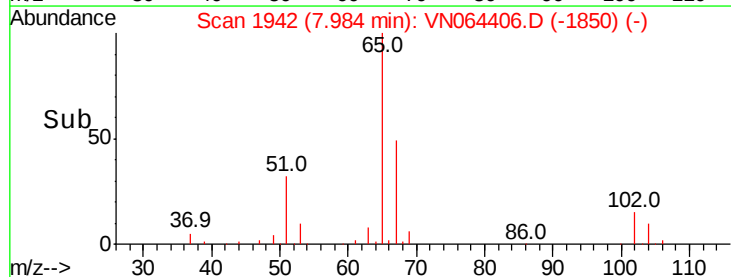
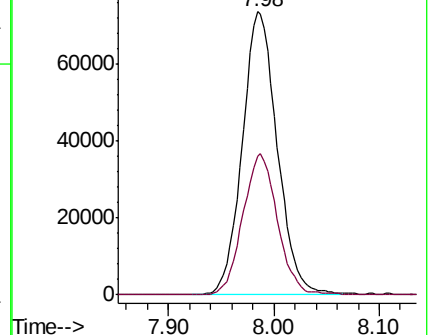
65 100

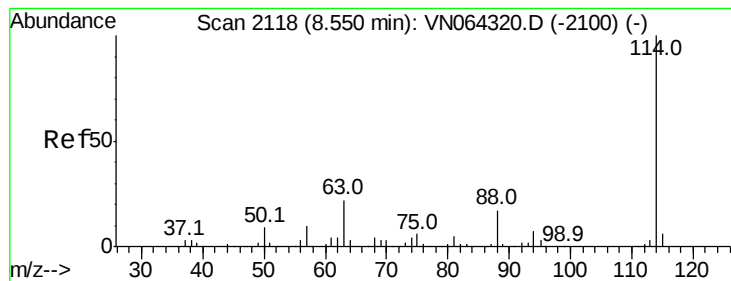
67 49.3 0.0 99.2



Abundance Ion 64.90 (64.60 to 65.60): VN064406.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064406.D (-1850) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

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ClientSampleId :

EO-02-102920

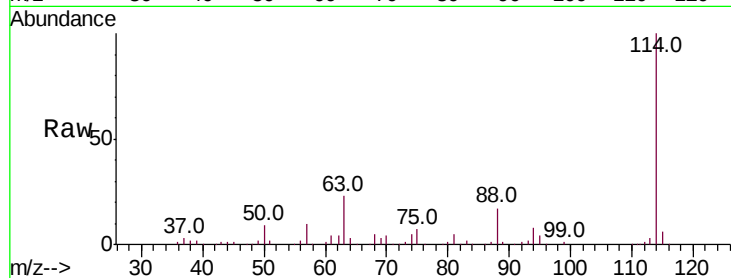
Tot Ion:114 Resp: 370445

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.6

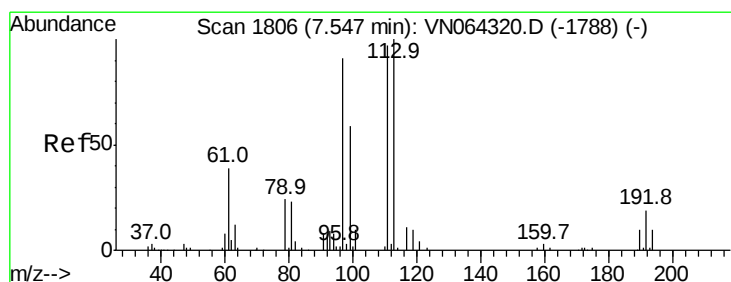
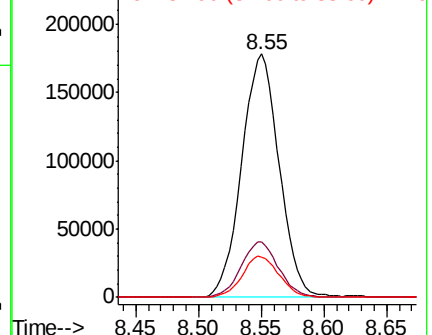
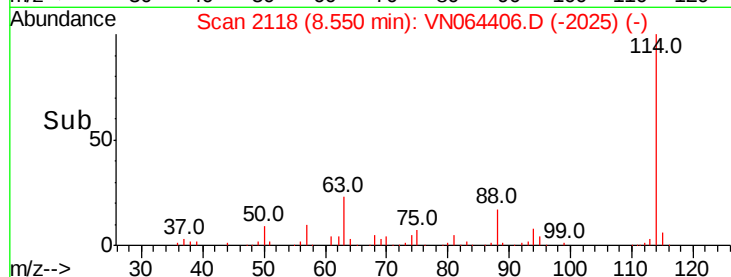
88 16.6 0.0 33.4



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: 49.844 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

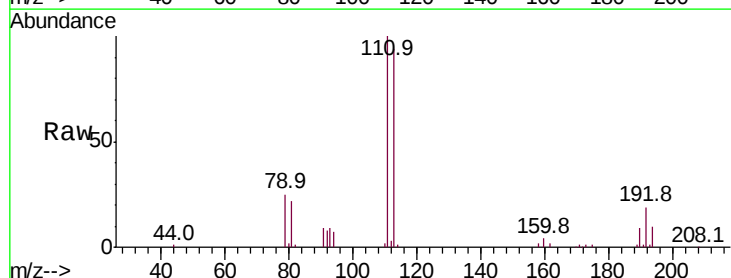
Tgt Ion:113 Resp: 123134

Ion Ratio Lower Upper

113 100

111 101.5 81.5 122.3

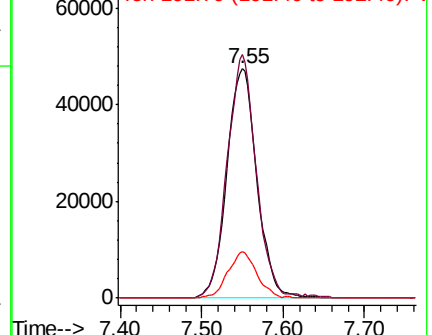
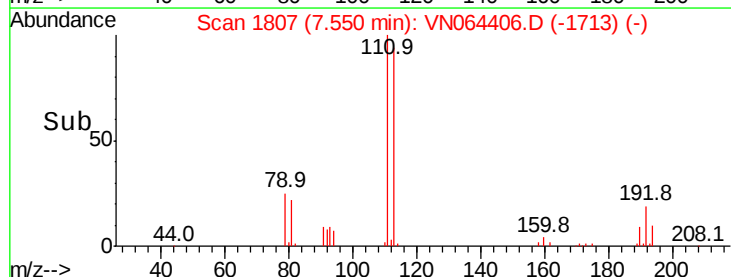
192 19.4 15.0 22.4

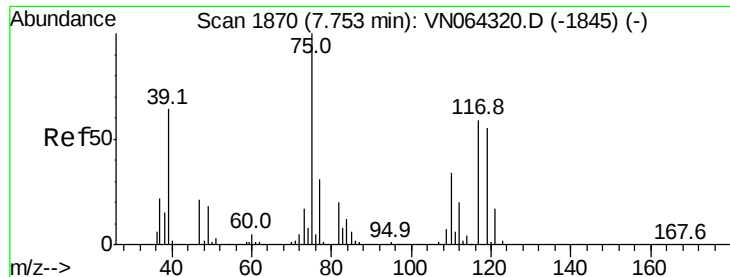


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.943 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

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EO-02-102920

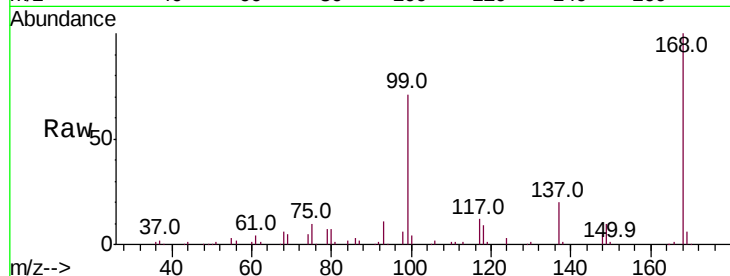
Tot Ion: 75 Resp: 18480

Ion Ratio Lower Upper

75 100

110 6.5 16.8 50.3#

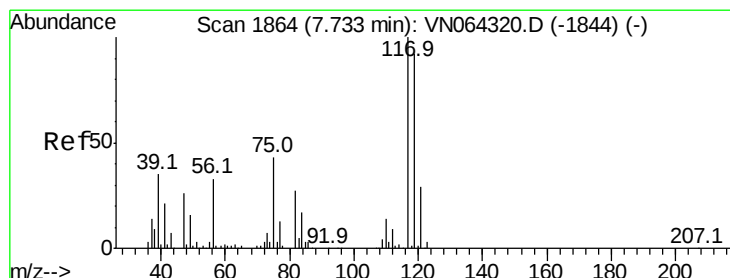
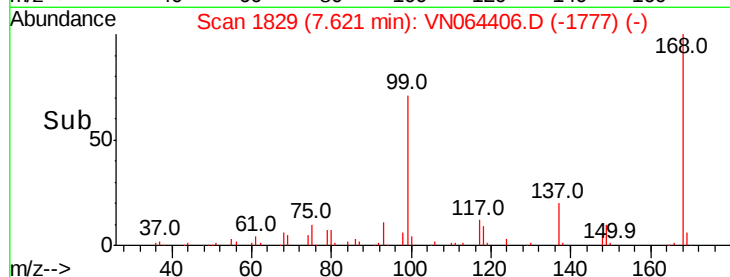
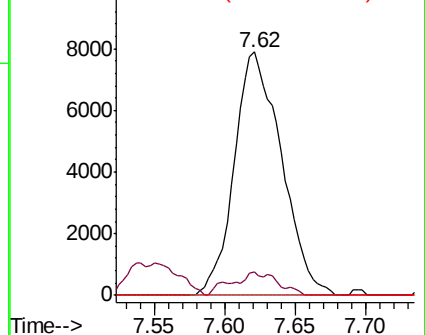
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064406.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064406.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064406.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.459 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

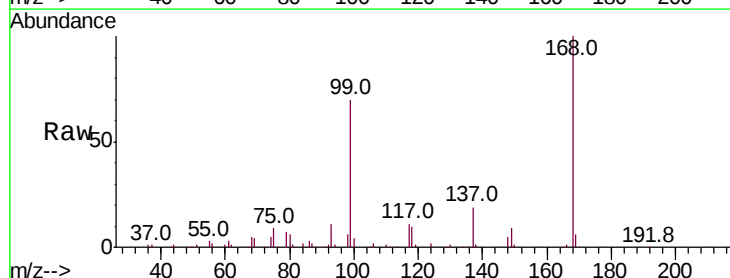
Tgt Ion: 117 Resp: 23662

Ion Ratio Lower Upper

117 100

119 5.5 73.7 110.5#

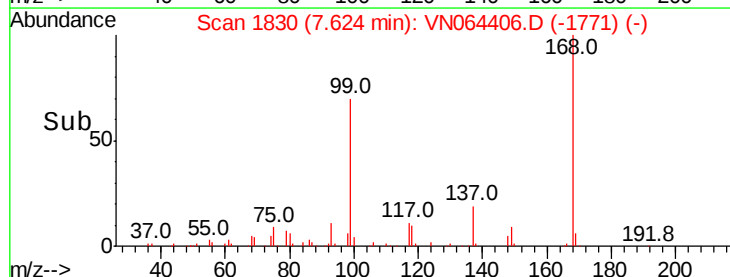
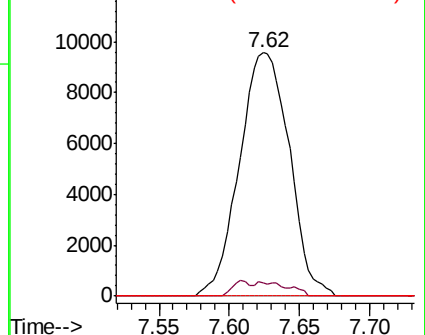
121 0.0 22.8 34.2#

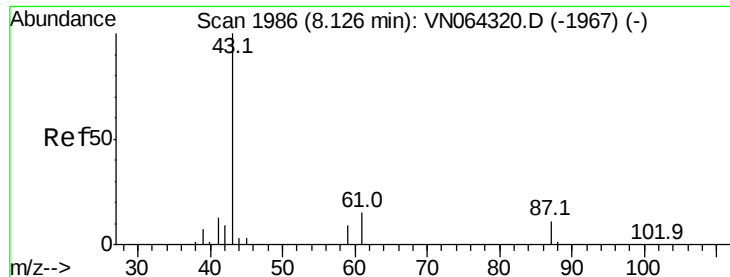


Abundance Ion 116.80 (116.50 to 117.50): VN064406.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN064406.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN064406.D (-1771) (-)





#43

Isopropyl Acetate

Concen: 10.874 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

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ClientSampleId :

EO-02-102920

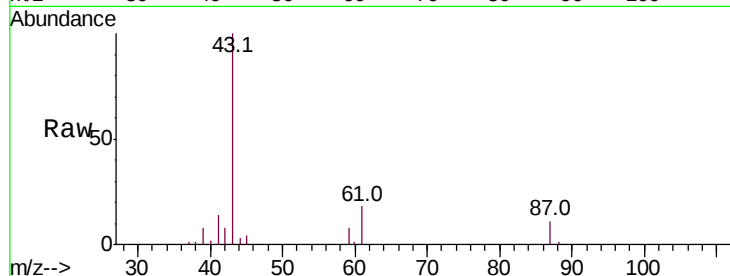
Tot Ion: 43 Resp: 70195

Ion Ratio Lower Upper

43 100

61 16.4 19.1 28.7#

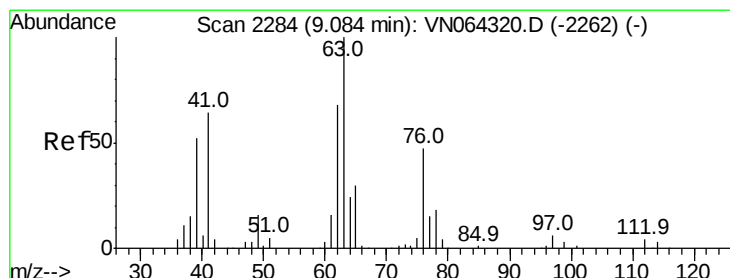
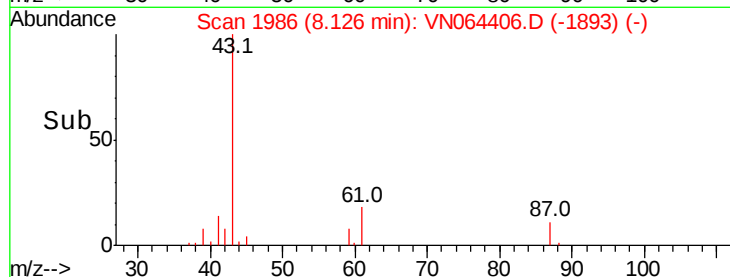
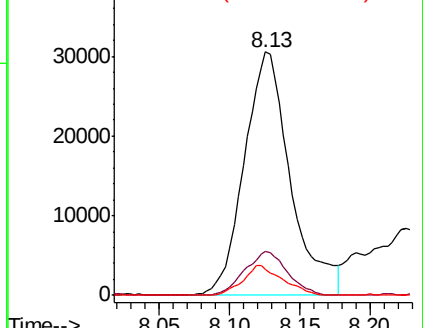
87 10.4 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VN064406.D (-1893) (-)

Ion 61.00 (60.70 to 61.70): VN064406.D (-1893) (-)

Ion 87.00 (86.70 to 87.70): VN064406.D (-1893) (-)



#45

1,2-Dichloropropane

Concen: 0.332 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064406.D

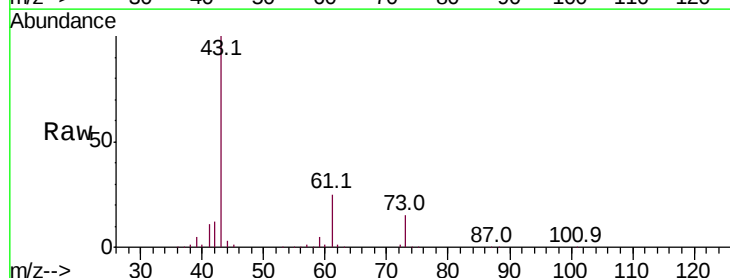
Acq: 30 Oct 2020 17:40

Tgt Ion: 63 Resp: 924

Ion Ratio Lower Upper

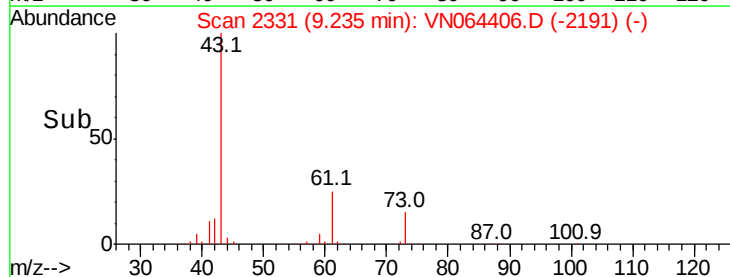
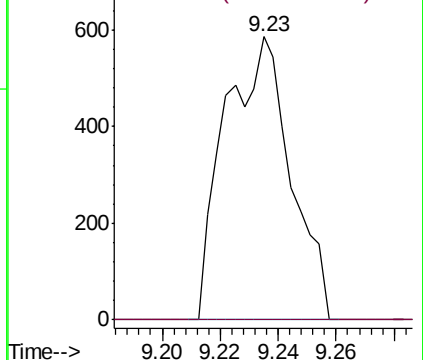
63 100

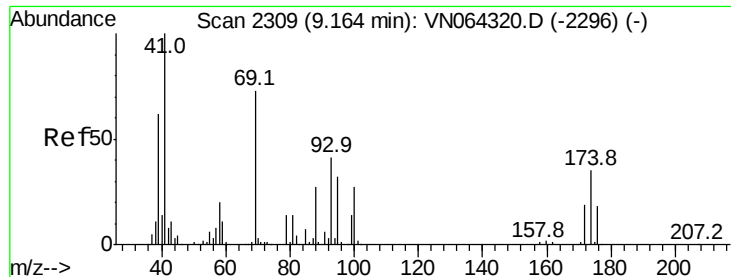
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN064406.D (-2191) (-)

Ion 64.90 (64.60 to 65.60): VN064406.D (-2191) (-)

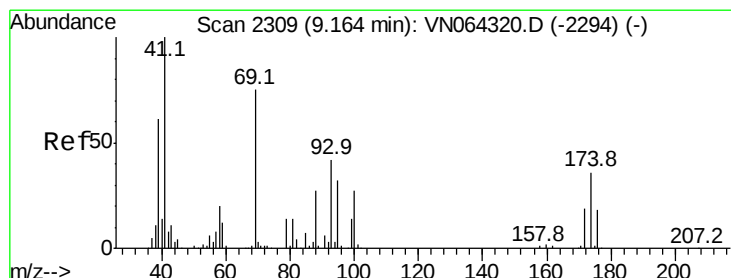
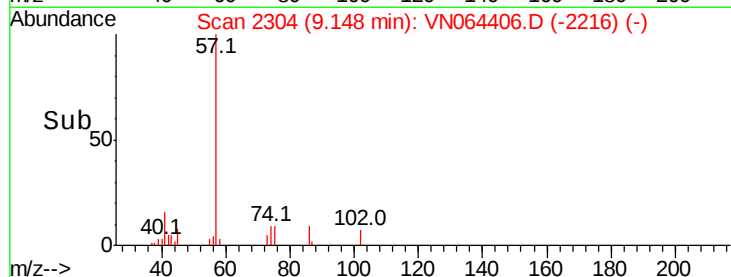
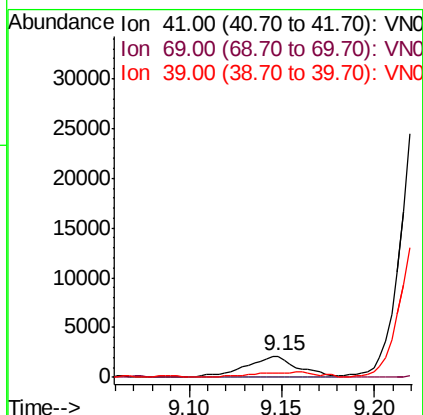
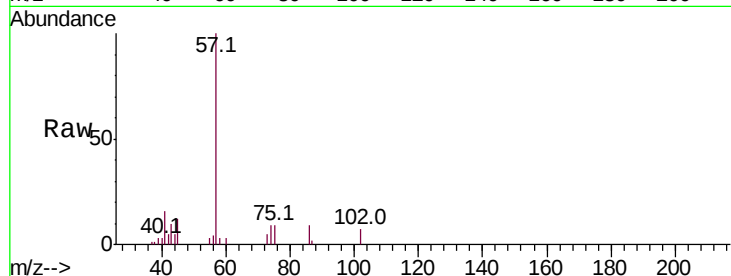




#48
Methyl methacrylate
Concen: 1.260 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064406.D
Acq: 30 Oct 2020 17:40

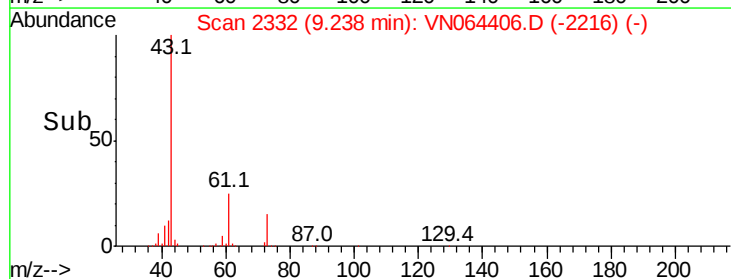
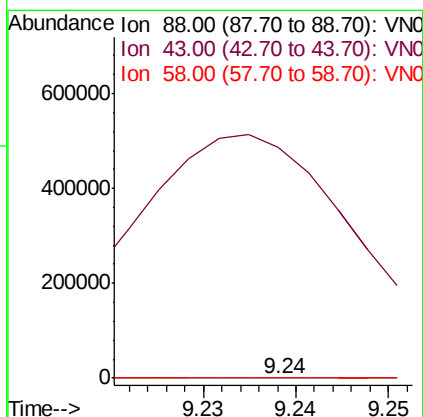
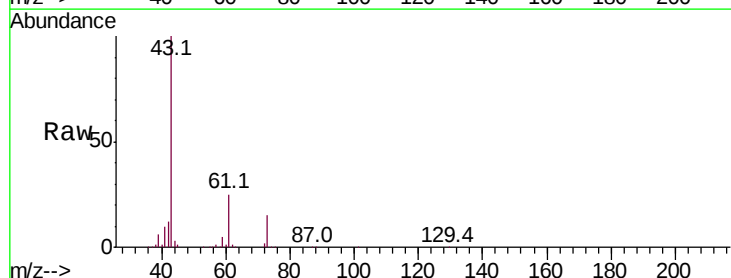
Instrument :
MSVOA_N
ClientSampleId :
EO-02-102920

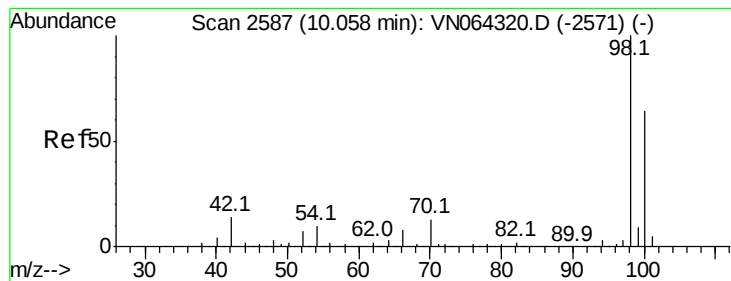
Tot Ion: 41 Resp: 4198
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 0.0 51.3 76.9#



#49
1,4-Dioxane
Concen: 1.344 ug/l
RT: 9.24 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN064406.D
Acq: 30 Oct 2020 17:40

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 1451503.0 31.8 47.8#
58 6634.8 60.3 90.5#





#50

Toluene-d8

Concen: 52.075 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampled :

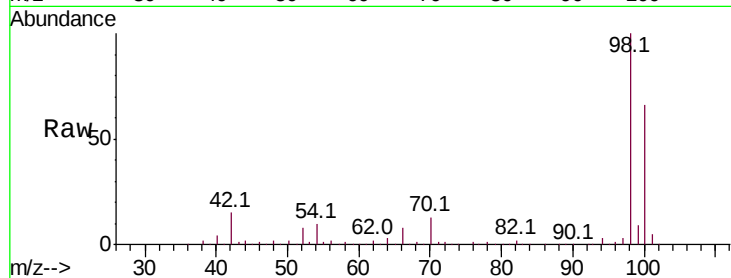
EO-02-102920

Tot Ion: 98 Resp: 475851

Ion Ratio Lower Upper

98 100

100 64.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

300000

250000

200000

150000

100000

50000

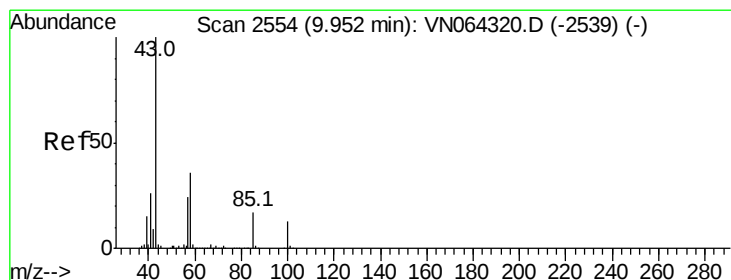
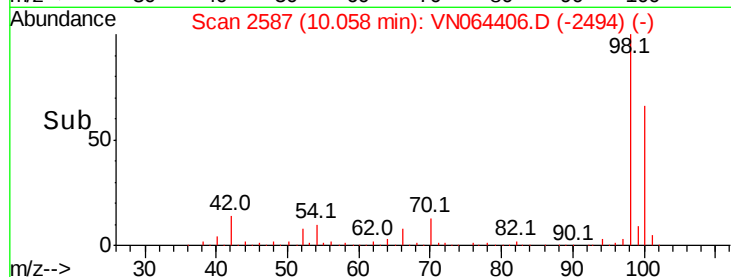
0

10.06

10.10

10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.406 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064406.D

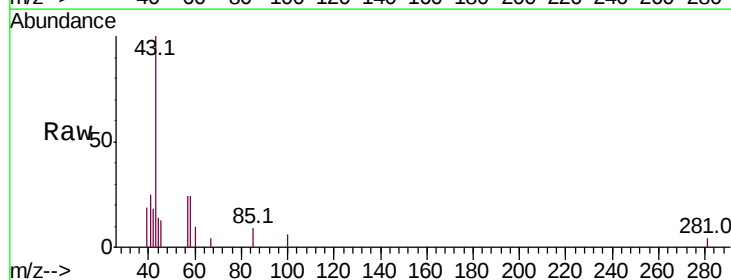
Acq: 30 Oct 2020 17:40

Tgt Ion: 43 Resp: 5275

Ion Ratio Lower Upper

43 100

58 39.6 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

3000

2000

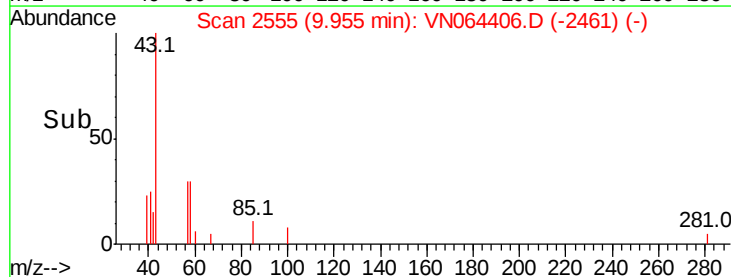
1000

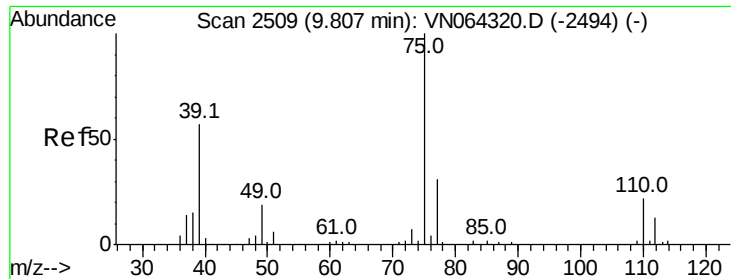
0

9.96

9.95

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.934 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

EO-02-102920

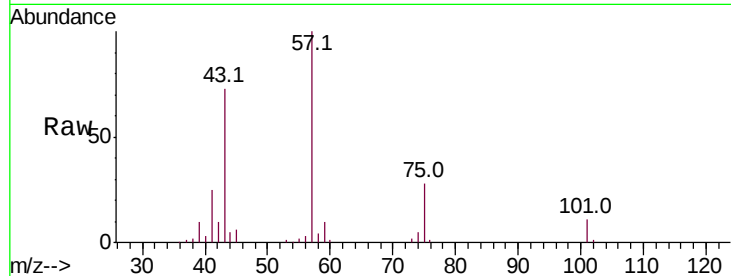
Tot Ion: 75 Resp: 27903

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

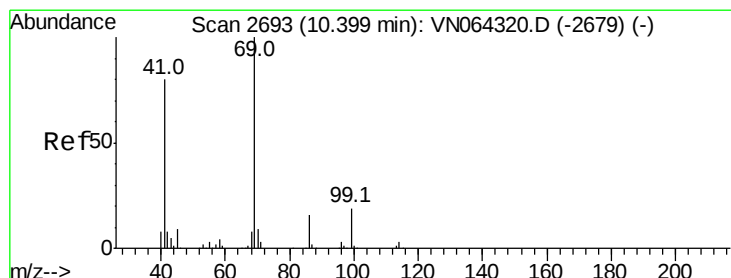
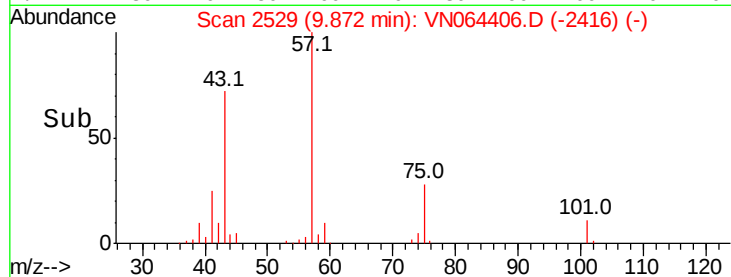
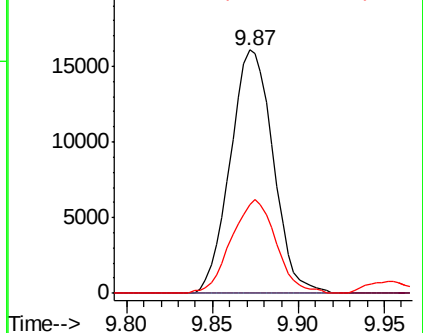
39 36.5 45.5 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-2494) (-)

Ion 76.90 (76.60 to 77.60): VN064320.D (-2494) (-)

Ion 39.00 (38.70 to 39.70): VN064320.D (-2494) (-)



#56

Ethyl methacrylate

Concen: 0.349 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

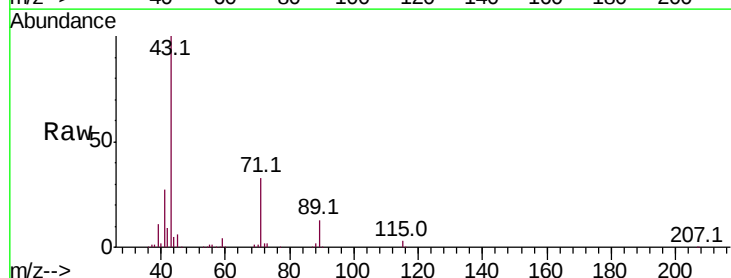
Tgt Ion: 69 Resp: 1369

Ion Ratio Lower Upper

69 100

41 5220.3 61.4 92.2#

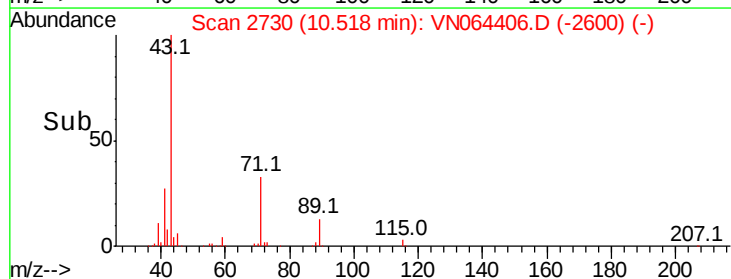
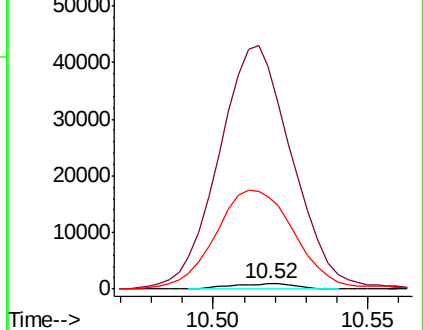
39 2315.9 36.5 54.7#

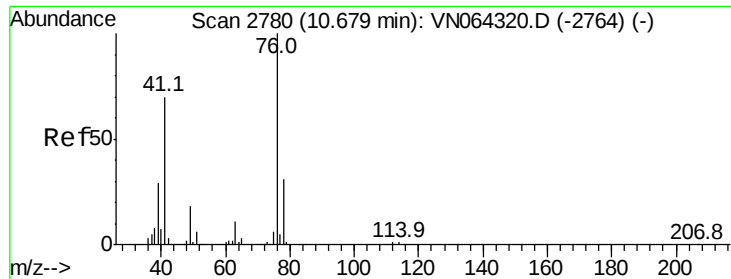


Abundance Ion 69.00 (68.70 to 69.70): VN064320.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN064320.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN064320.D (-2679) (-)

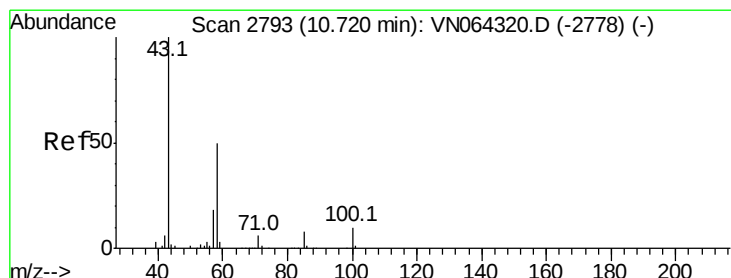
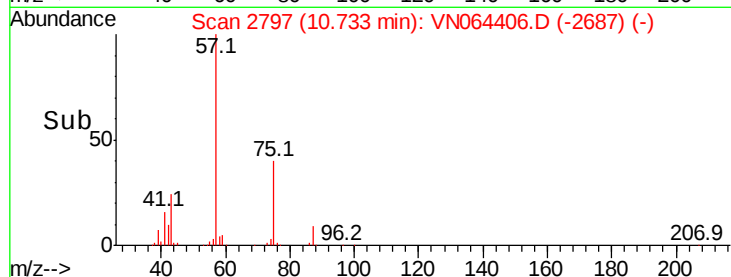
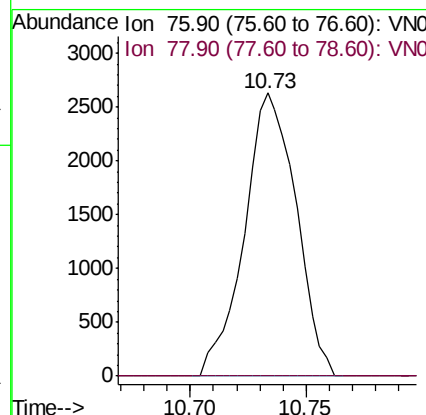
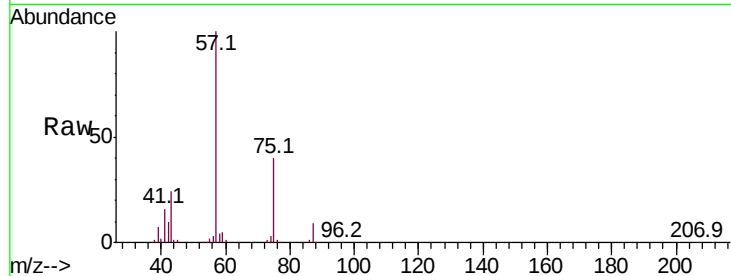




#57
 1,3-Dichloropropane
 Concen: 0.920 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064406.D
 Acq: 30 Oct 2020 17:40

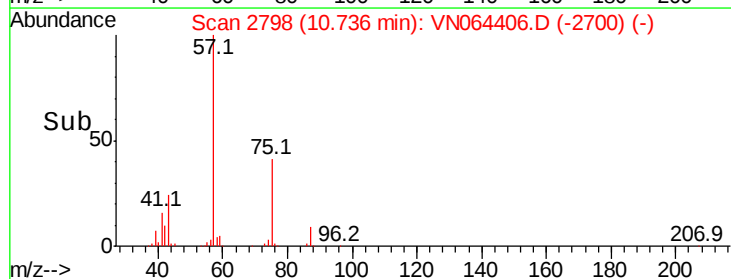
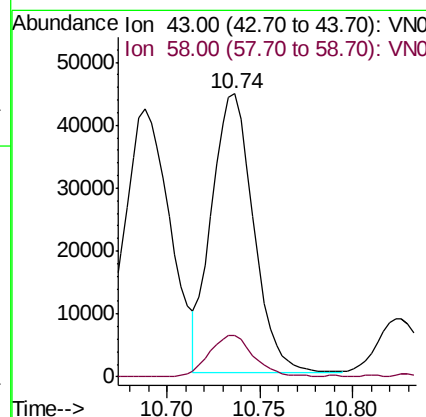
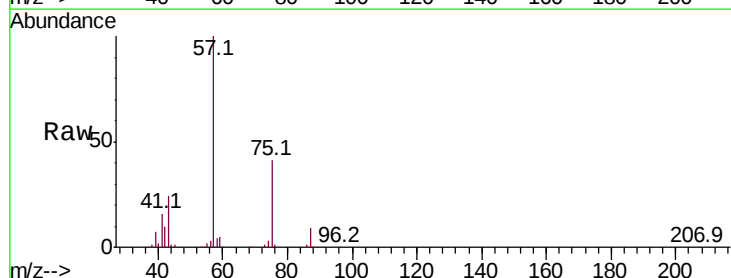
Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-102920

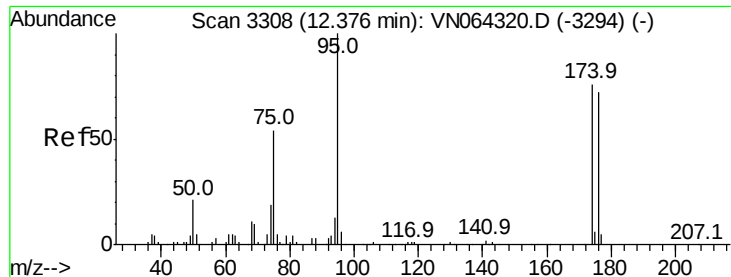
Tot Ion: 76 Resp: 4070
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 25.260 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064406.D
 Acq: 30 Oct 2020 17:40

Tgt Ion: 43 Resp: 69811
 Ion Ratio Lower Upper
 43 100
 58 15.8 25.0 75.0#





#62

4-Bromofluorobenzene

Concen: 55.625 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

EO-02-102920

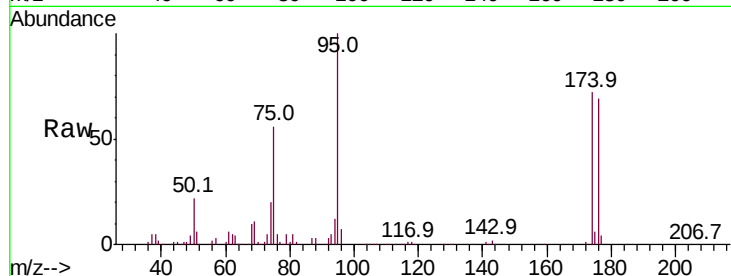
Tot Ion: 95 Resp: 198178

Ion Ratio Lower Upper

95 100

174 74.6 0.0 147.4

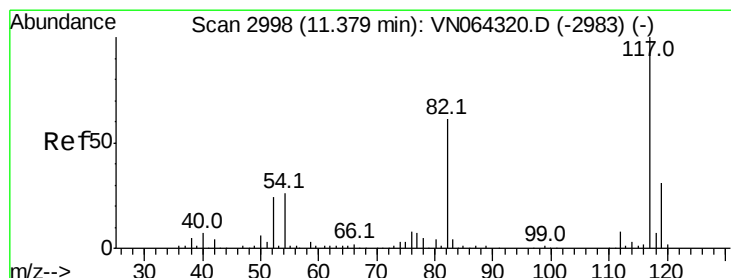
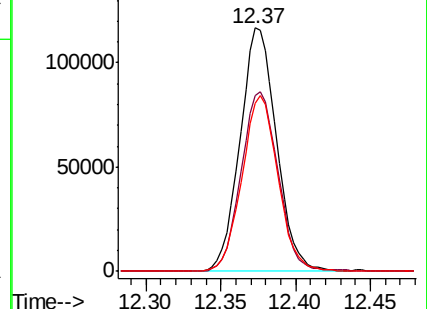
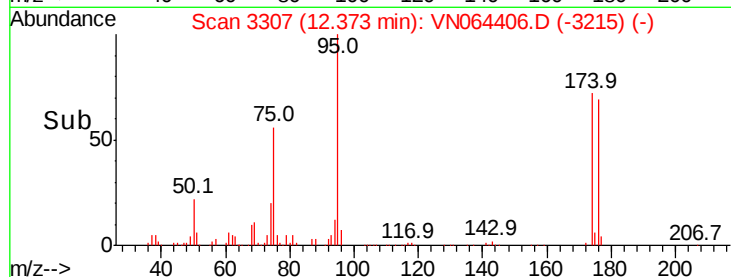
176 71.1 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VN064320.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN064320.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN064320.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

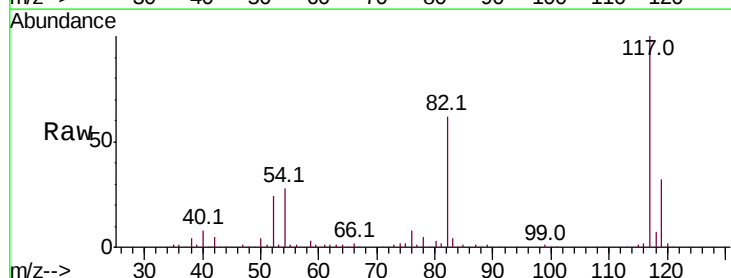
Tgt Ion: 117 Resp: 374999

Ion Ratio Lower Upper

117 100

82 62.3 48.8 73.2

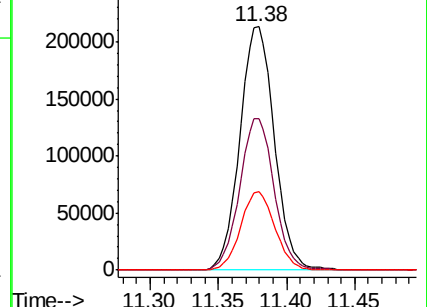
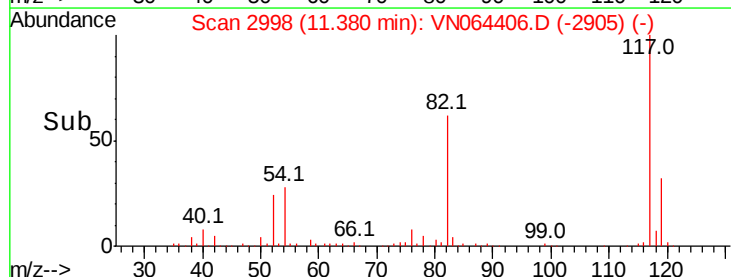
119 32.4 25.1 37.7

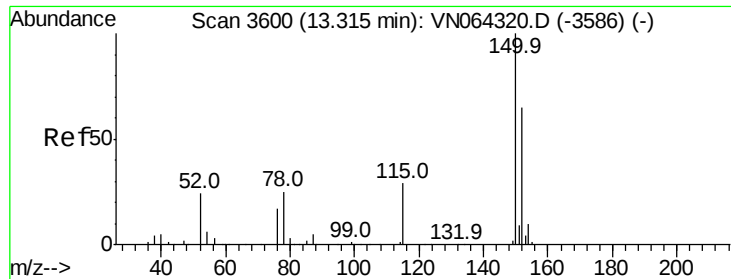


Abundance Ion 116.90 (116.60 to 117.60): VN064320.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064320.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064320.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

EO-02-102920

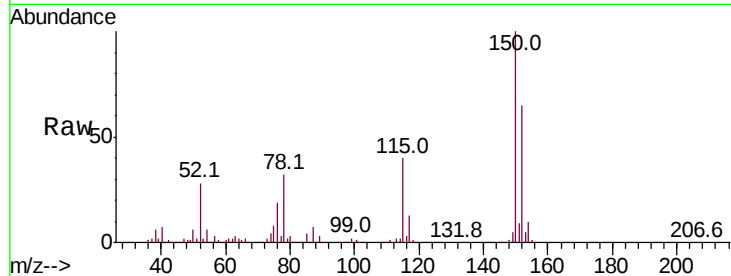
Tot Ion:152 Resp: 153915

Ion Ratio Lower Upper

152 100

115 64.3 31.5 94.5

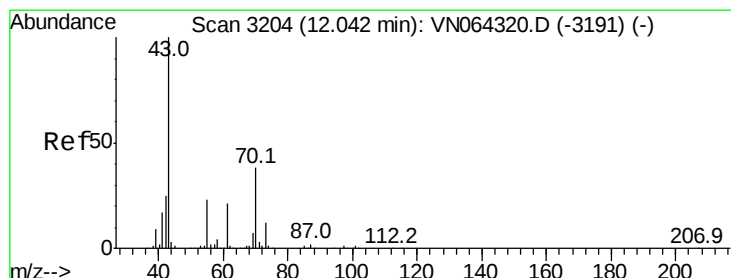
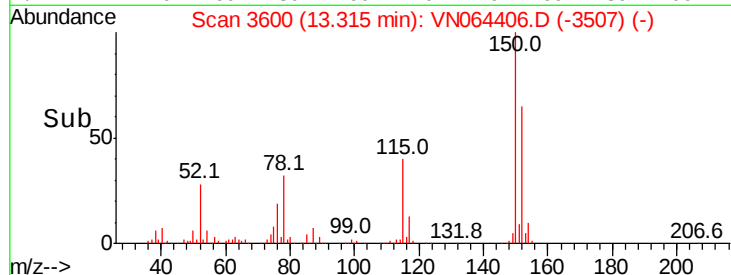
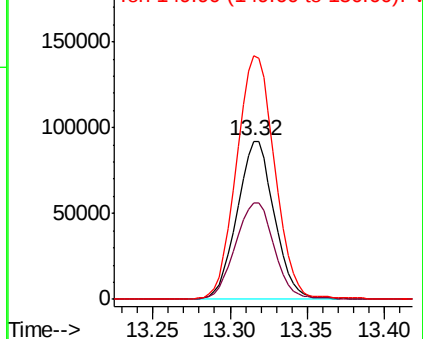
150 158.9 0.0 346.2



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: 0.362 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Tgt Ion: 43 Resp: 1837

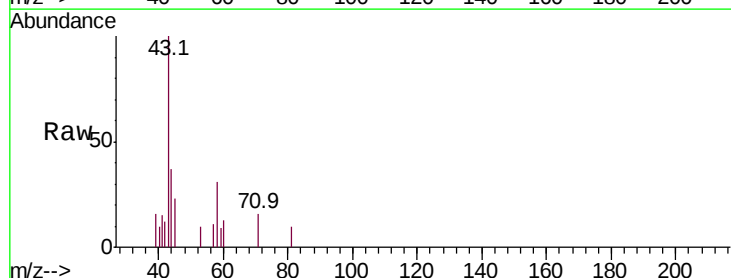
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.2 27.4#

61 0.0 17.6 26.4#

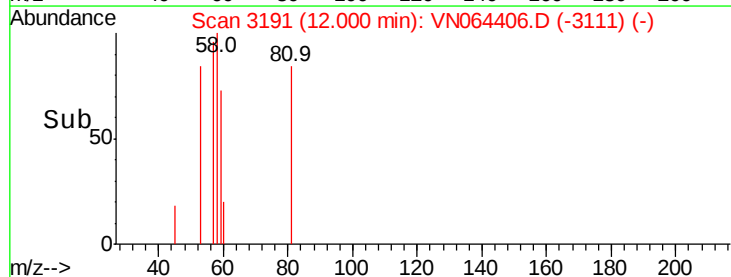
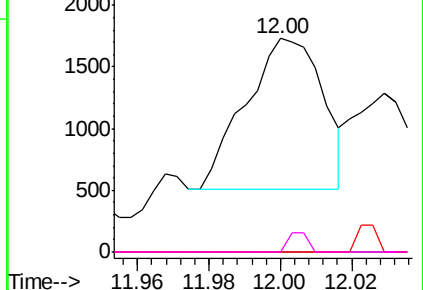


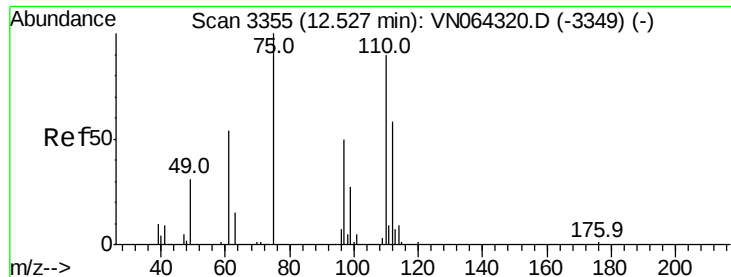
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 30.536 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

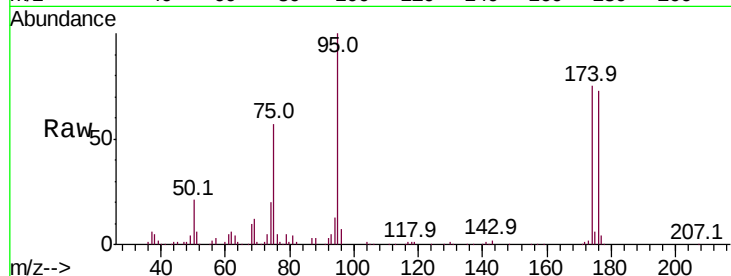
EO-02-102920

Tot Ion: 75 Resp: 112550

Ion Ratio Lower Upper

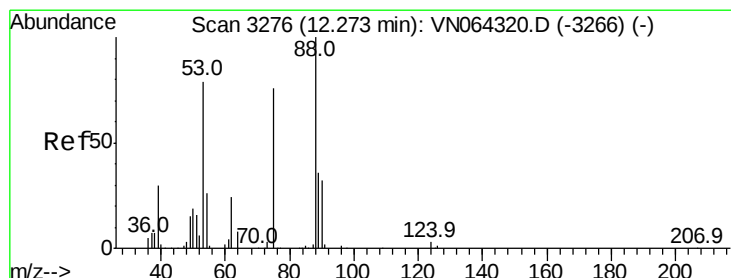
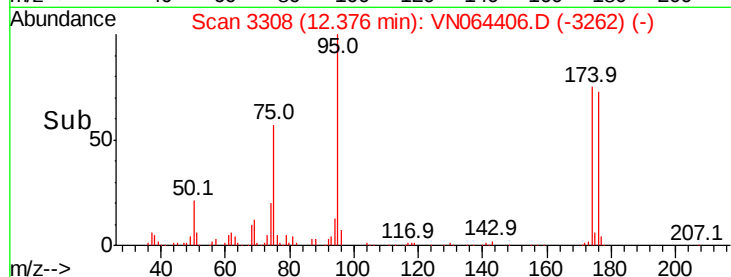
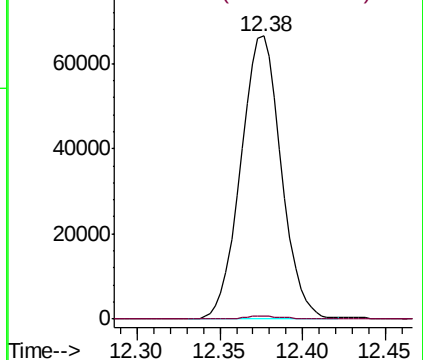
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 87.959 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

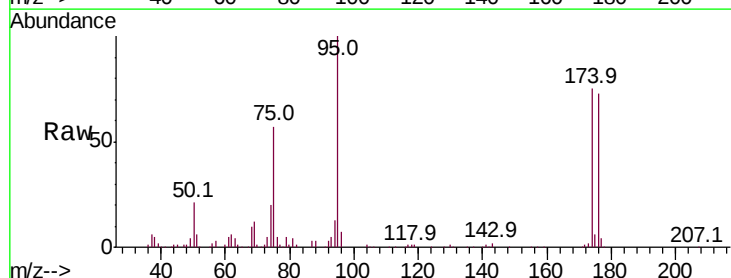
Tgt Ion: 75 Resp: 112550

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

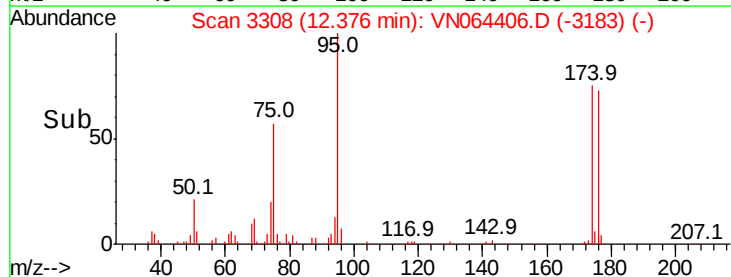
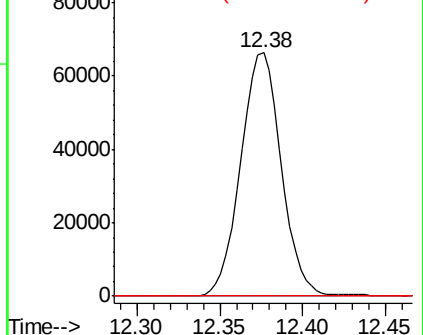
89 0.0 39.9 59.9#

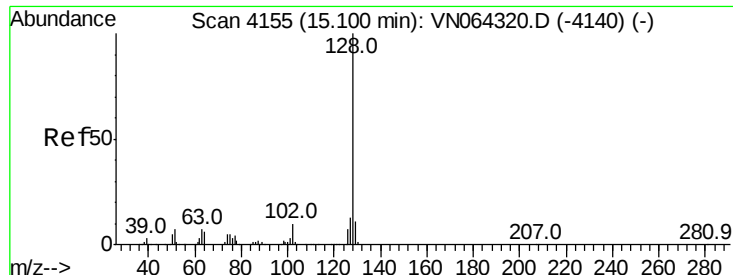


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 2.525 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064406.D

Acq: 30 Oct 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

EO-02-102920

Tot Ion:128 Resp: 1210

Ion Ratio Lower Upper

128 100

127 2.5 10.4 15.6#

129 0.0 8.6 13.0#

