

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064607.D
 Acq On : 13 Nov 2020 2:56
 Operator : JC/MD
 Sample : PB132945ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132945ZHE#05

Quant Time: Nov 13 04:26:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	220155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	491790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	526563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	184360	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	227919	59.44	ug/l	0.00
Spiked Amount			Recovery	=	118.88%	
35) Dibromofluoromethane	7.55	113	166492	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
50) Toluene-d8	10.06	98	640328	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.38	95	240276	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	

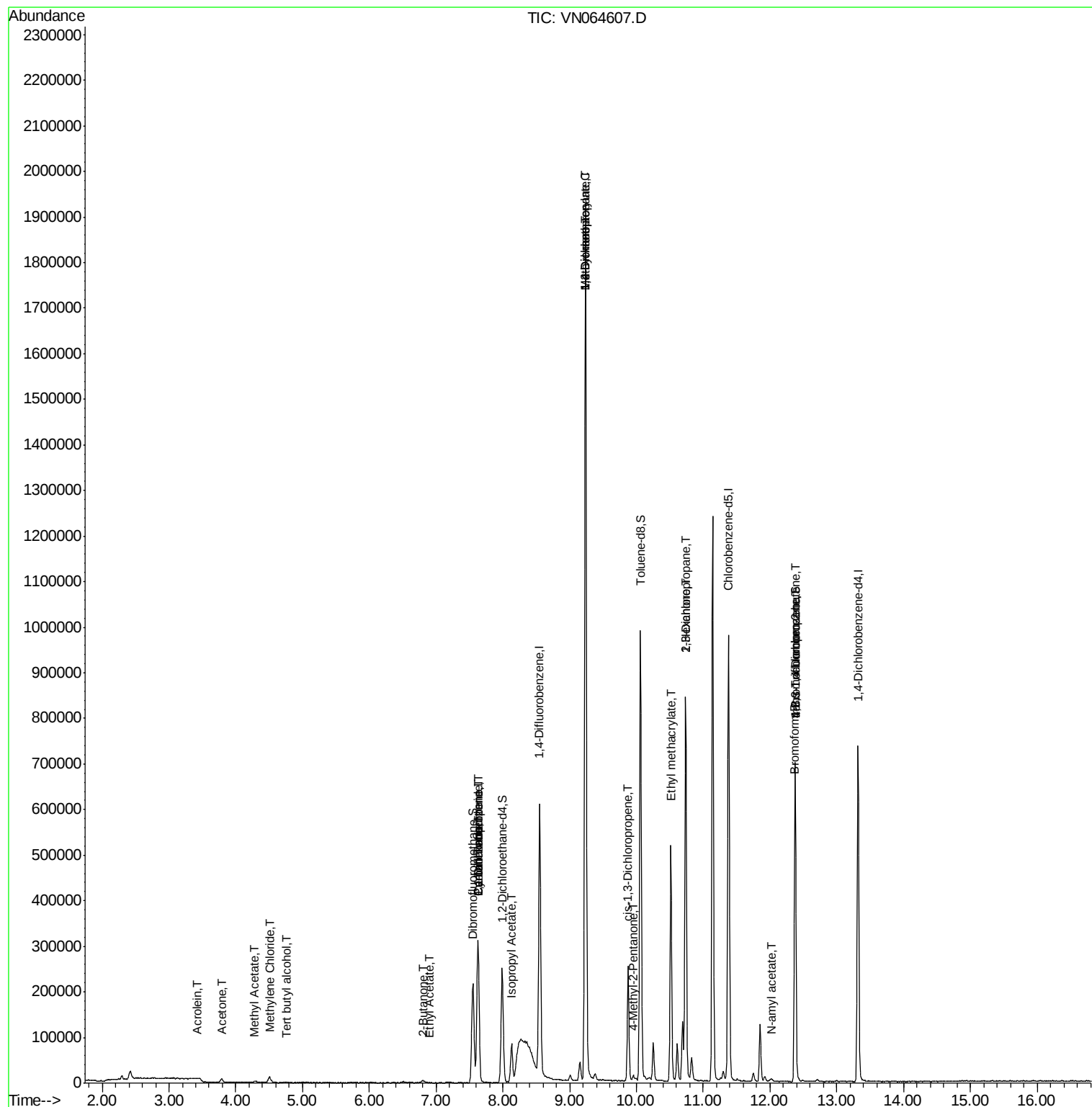
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	670	1.584	ug/l #	84
13) Acrolein	3.43	56	68	0.259	ug/l #	1
16) Acetone	3.79	43	13797	9.445	ug/l	95
18) Methyl Acetate	4.29	43	5729	1.995	ug/l #	89
20) Methylene Chloride	4.50	84	7946	2.742	ug/l	96
25) 2-Butanone	6.81	43	5885	3.162	ug/l	99
31) Cyclohexane	7.63	56	6365	1.365	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	21266	4.093	ug/l #	55
37) Ethyl Acetate	6.91	43	458	0.848	ug/l #	71
38) Carbon Tetrachloride	7.63	117	26220	4.722	ug/l #	17
43) Isopropyl Acetate	8.13	43	100213	11.902	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1298	0.319	ug/l #	45
48) Methyl methacrylate	9.24	41	191796	45.144	ug/l #	50
49) 1,4-Dioxane	9.24	88	344	6.147	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6727	1.370	ug/l #	86
54) cis-1,3-Dichloropropene	9.87	75	38700	5.921	ug/l #	72
56) Ethyl methacrylate	10.51	69	3931	2.475	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	8051	1.270	ug/l #	42
59) 2-Hexanone	10.74	43	131509	36.344	ug/l #	56
71) Bromoform	12.36	173	165	1.325	ug/l #	1
74) N-amyl acetate	12.01	43	4339	1.810	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	132068	29.566	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132068	82.552	ug/l #	8

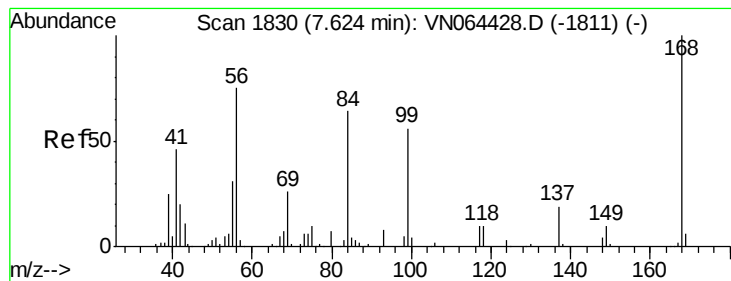
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 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: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

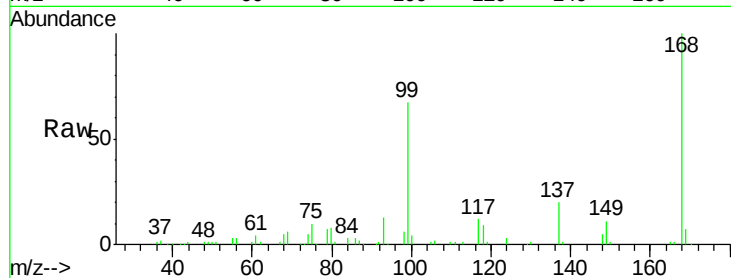
PB132945ZHE#05

Tot Ion:168 Resp: 220155

Ion Ratio Lower Upper

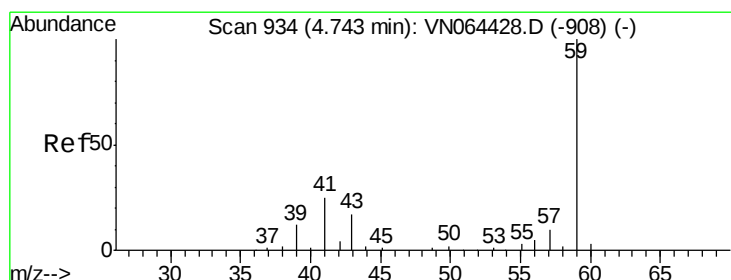
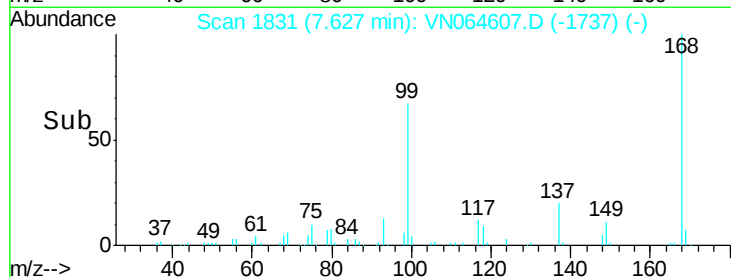
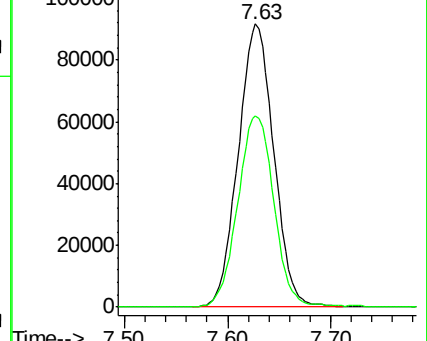
168 100

99 67.4 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.584 ug/l

RT: 4.76 min Scan# 938

Delta R.T. 0.01 min

Lab File: VN064607.D

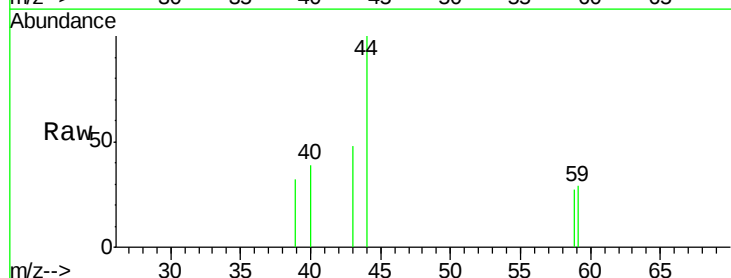
Acq: 13 Nov 2020 2:56

Tgt Ion: 59 Resp: 670

Ion Ratio Lower Upper

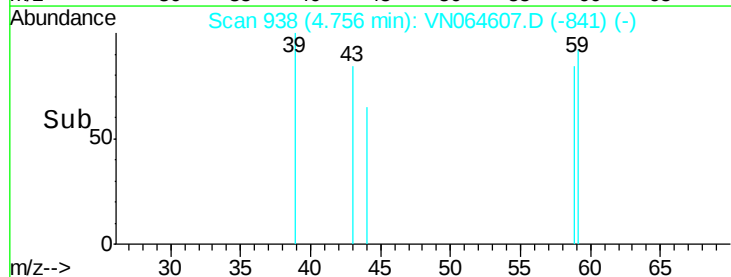
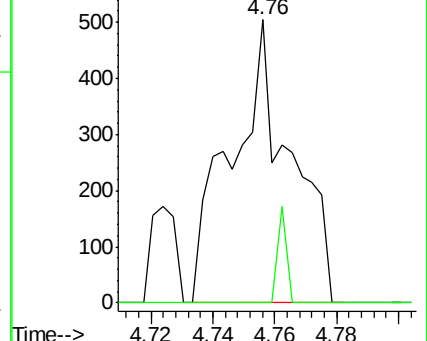
59 100

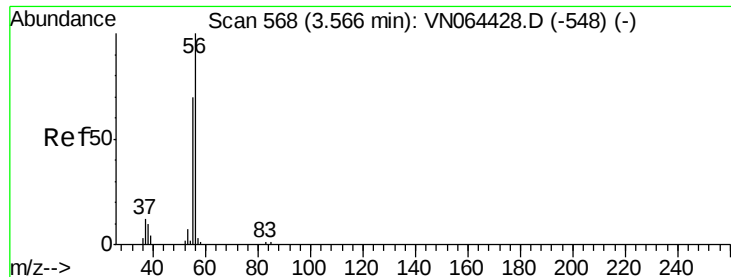
57 4.9 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.259 ug/l

RT: 3.43 min Scan# 525

Delta R.T. -0.14 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

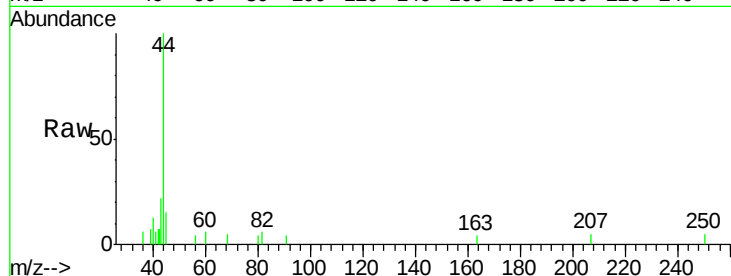
PB132945ZHE#05

Tot Ion: 56 Resp: 68

Ion Ratio Lower Upper

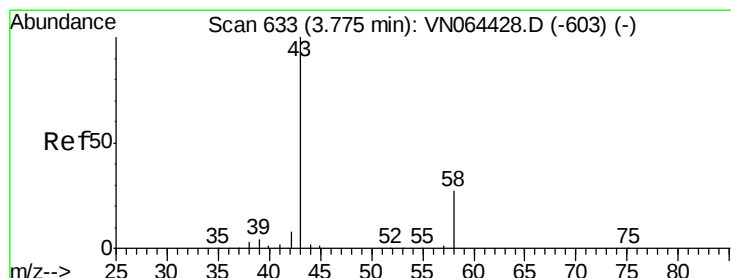
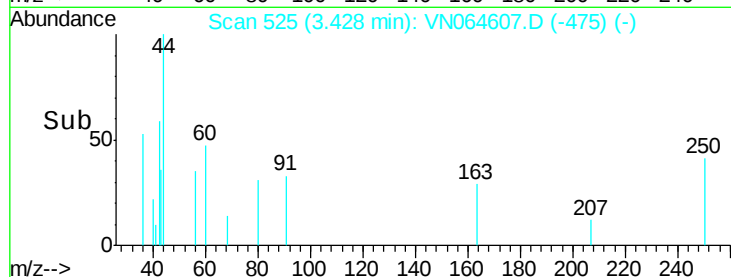
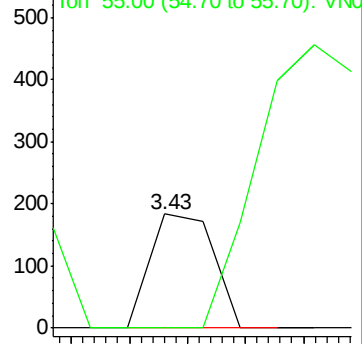
56 100

55 635.3 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 9.445 ug/l

RT: 3.79 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN064607.D

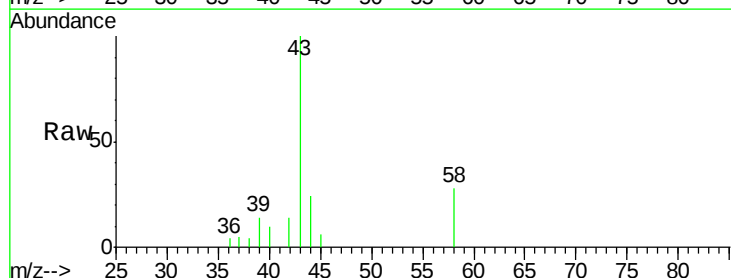
Acq: 13 Nov 2020 2:56

Tgt Ion: 43 Resp: 13797

Ion Ratio Lower Upper

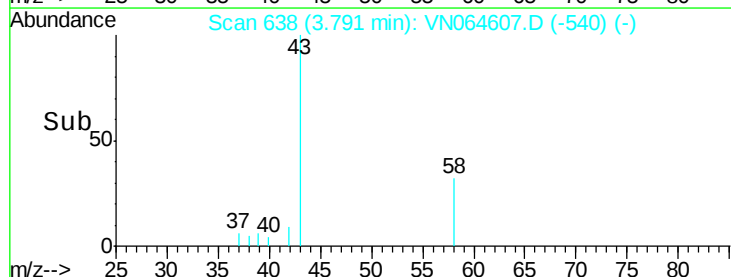
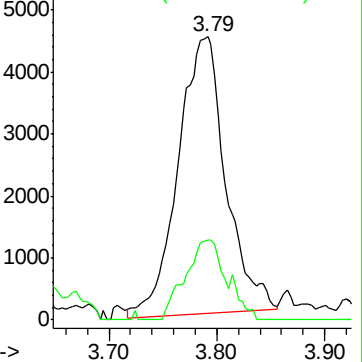
43 100

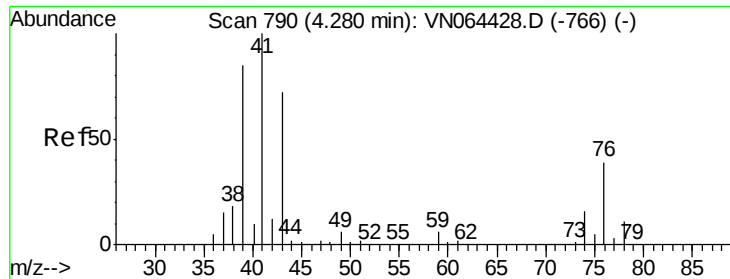
58 29.2 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

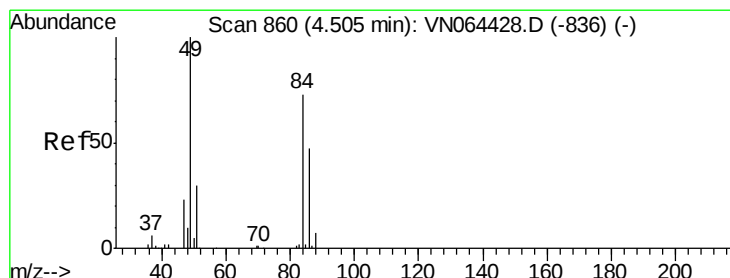
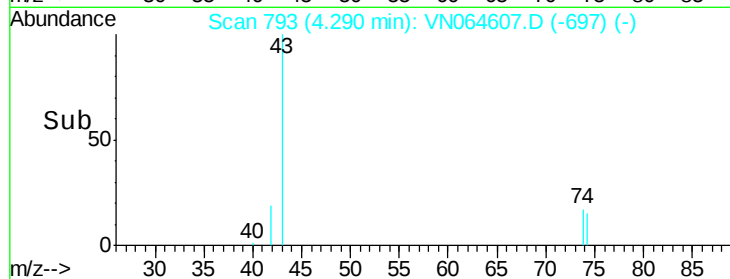
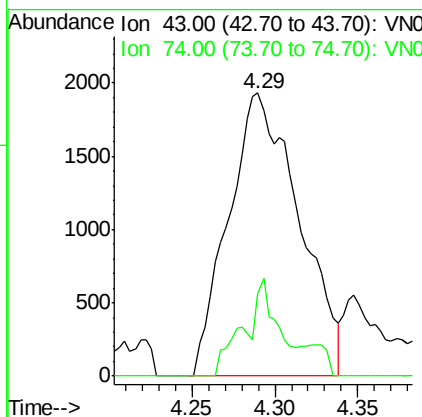
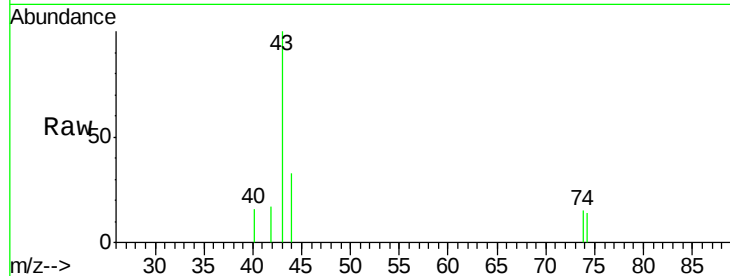




#18
Methyl Acetate
Concen: 1.995 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

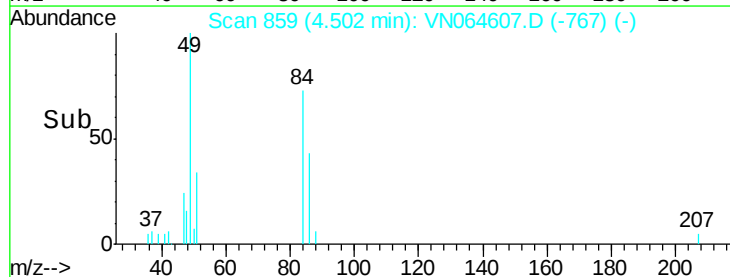
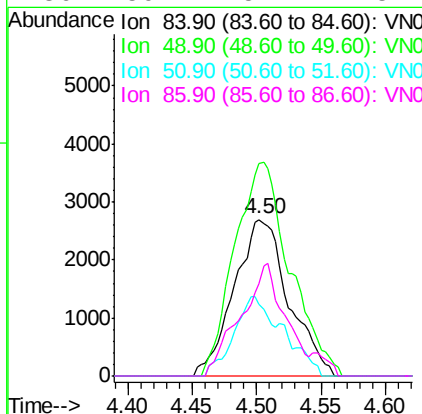
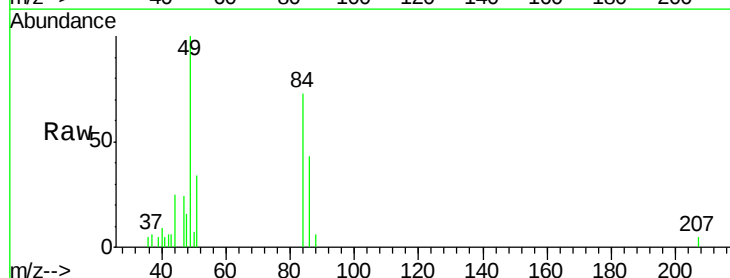
Instrument :
MSVOA_N
ClientSampleId :
PB132945ZHE#05

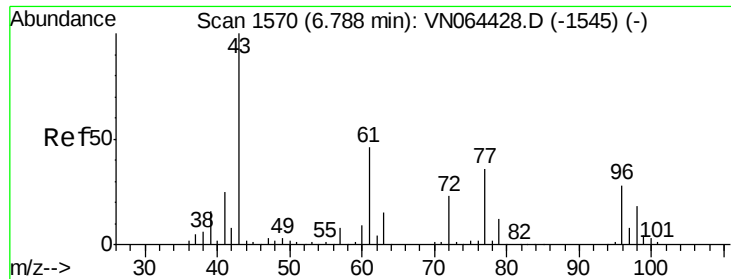
Tot Ion: 43 Resp: 5729
Ion Ratio Lower Upper
43 100
74 16.3 17.0 25.4#



#20
Methylene Chloride
Concen: 2.742 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

Tgt Ion: 84 Resp: 7946
Ion Ratio Lower Upper
84 100
49 136.3 110.1 165.1
51 46.1 33.6 50.4
86 59.1 52.1 78.1

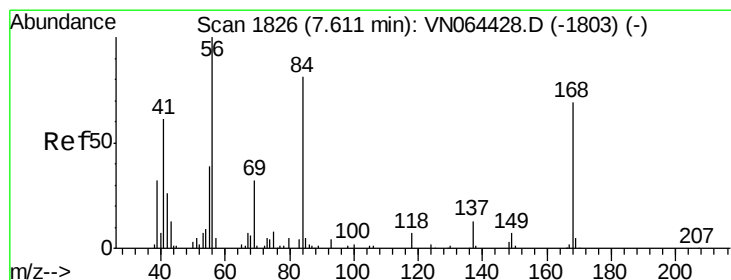
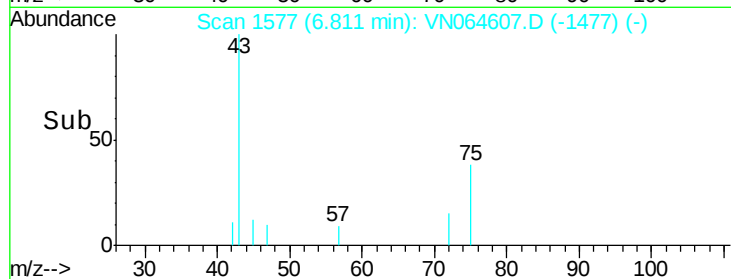
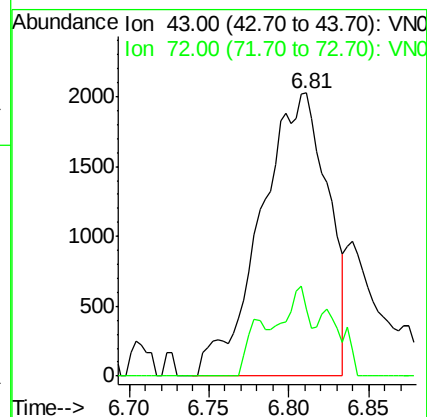
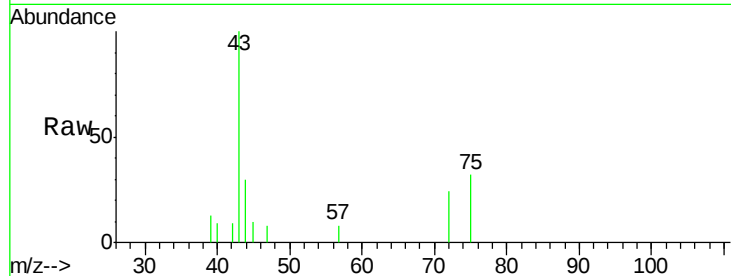




#25
2-Butanone
Concen: 3.162 ug/l
RT: 6.81 min Scan# 1577
Delta R.T. 0.02 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

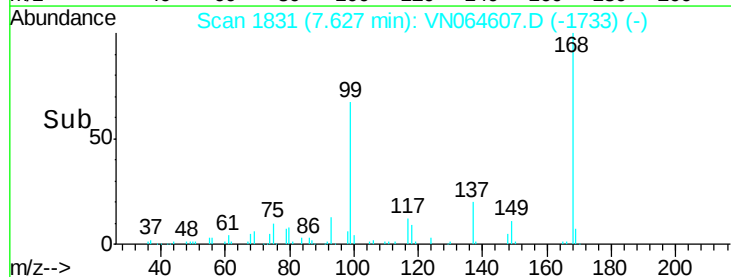
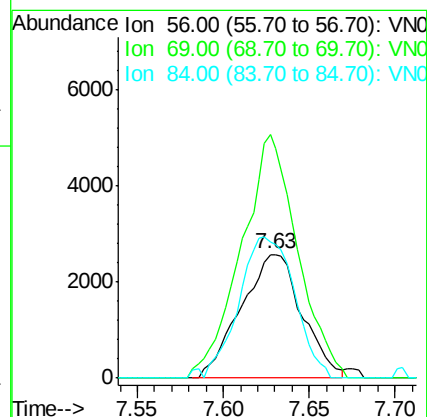
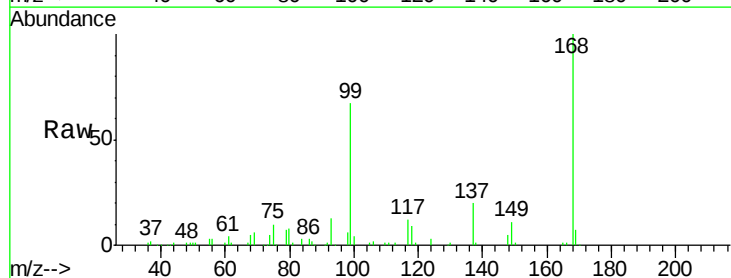
Instrument :
MSVOA_N
ClientSampleId :
PB132945ZHE#05

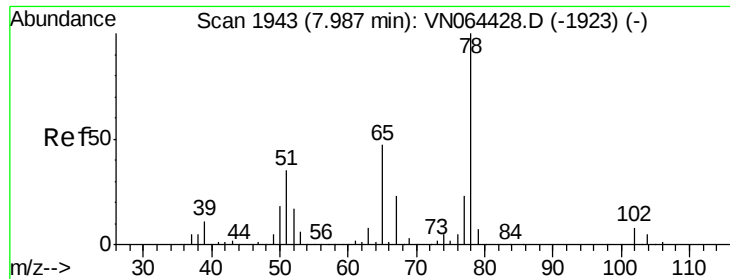
Tot Ion: 43 Resp: 5885
Ion Ratio Lower Upper
43 100
72 23.7 18.5 27.7



#31
Cyclohexane
Concen: 1.365 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

Tgt Ion: 56 Resp: 6365
Ion Ratio Lower Upper
56 100
69 188.7 25.6 38.4#
84 109.5 63.0 94.6#





#33

1,2-Dichloroethane-d4

Concen: 59.435 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

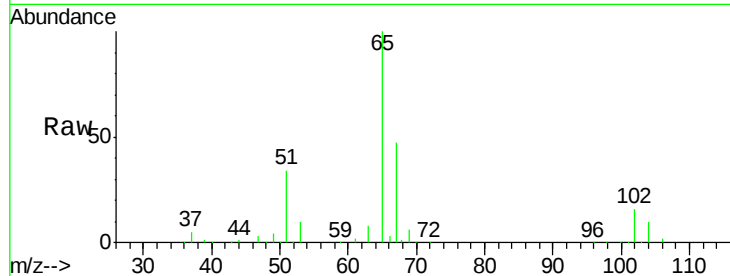
PB132945ZHE#05

Tot Ion: 65 Resp: 227919

Ion Ratio Lower Upper

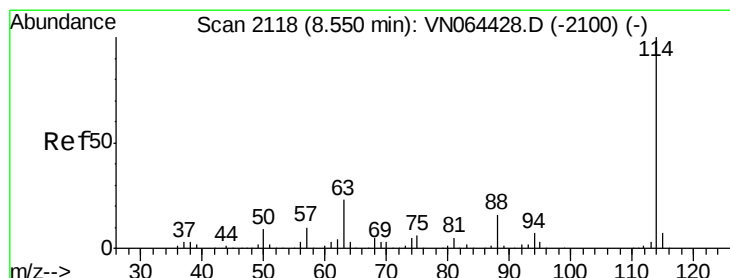
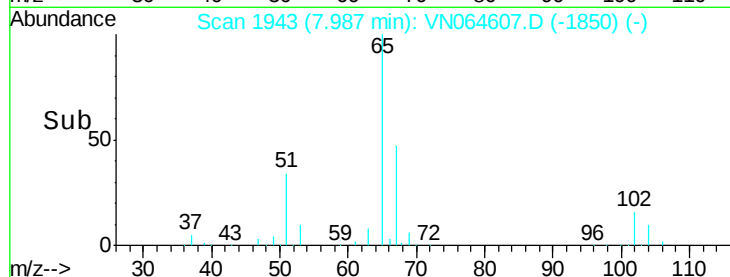
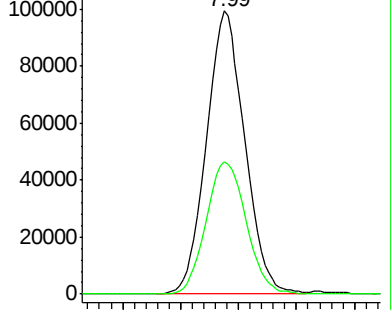
65 100

67 49.0 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN064607.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064607.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: VN064607.D

Acq: 13 Nov 2020 2:56

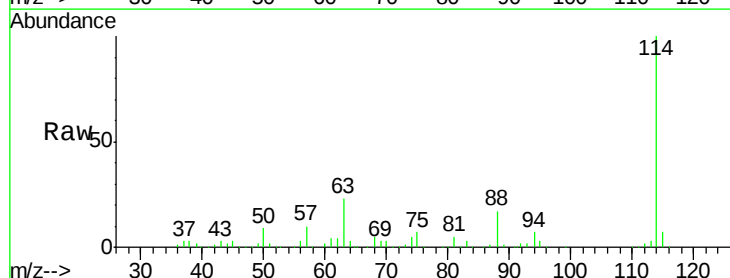
Tgt Ion: 114 Resp: 491790

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.6

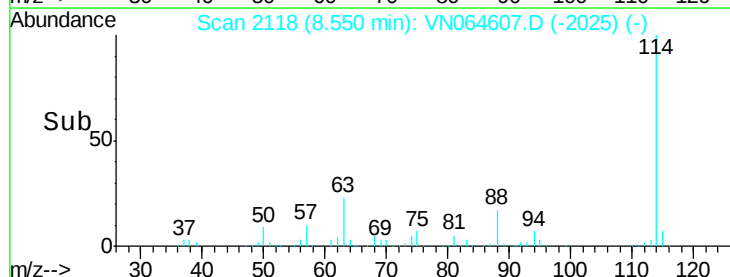
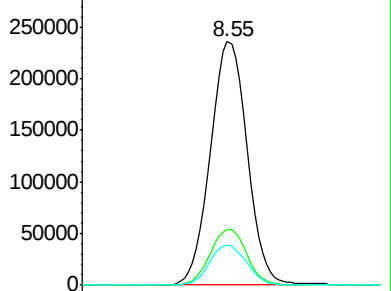
88 16.5 0.0 32.8

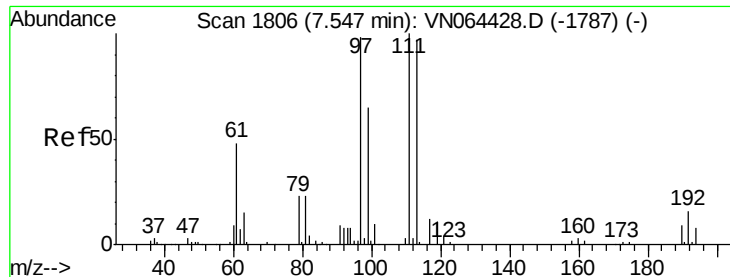


Abundance Ion 113.90 (113.60 to 114.60): VN064607.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN064607.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN064607.D (-2025) (-)

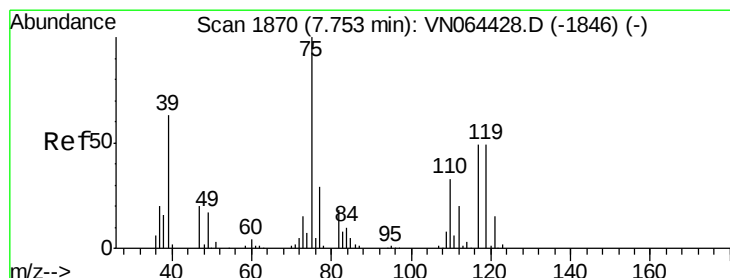
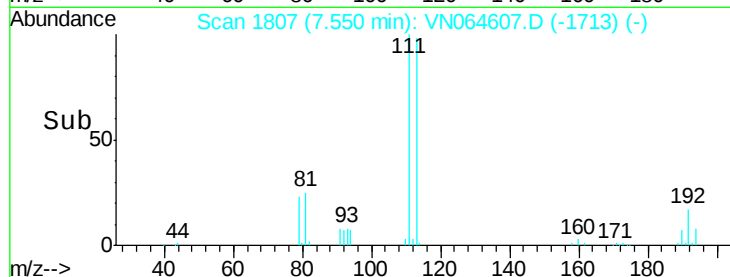
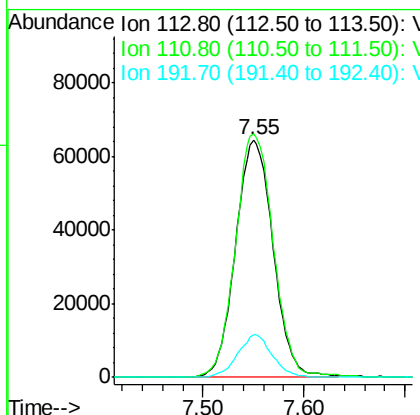
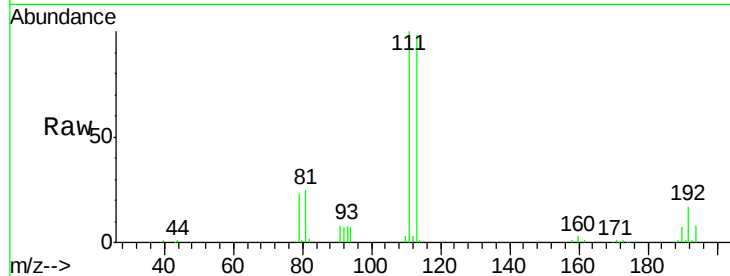




#35
 Dibromofluoromethane
 Concen: 49.723 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064607.D
 Acq: 13 Nov 2020 2:56

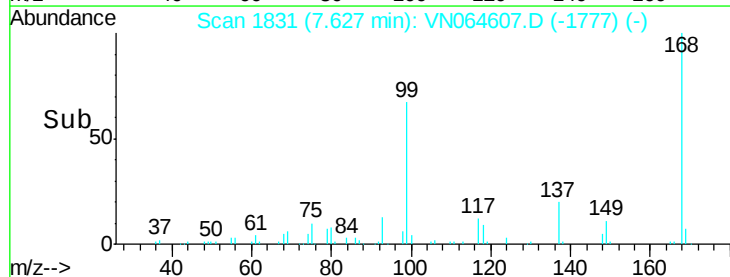
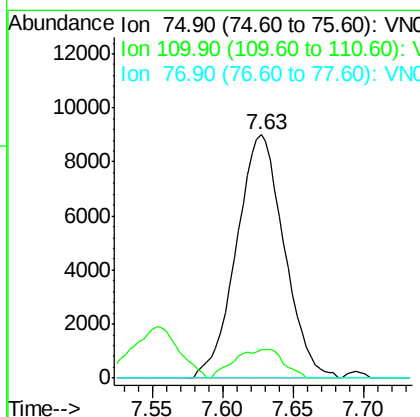
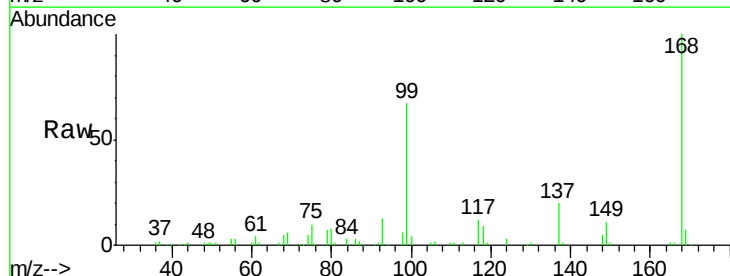
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132945ZHE#05

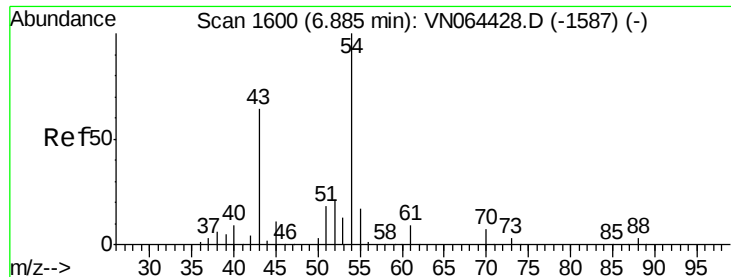
Tot Ion:113 Resp: 166492
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.1 121.7
 192 16.5 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.093 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064607.D
 Acq: 13 Nov 2020 2:56

Tgt Ion: 75 Resp: 21266
 Ion Ratio Lower Upper
 75 100
 110 12.2 16.0 48.0#
 77 0.0 24.0 36.0#

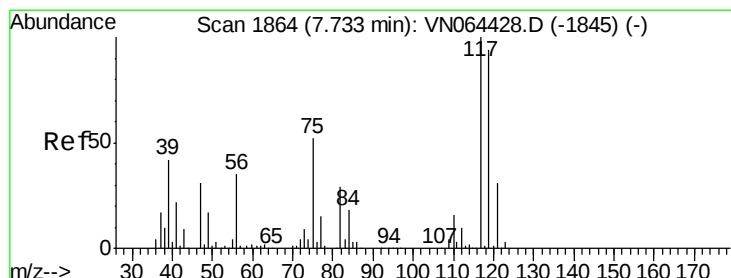
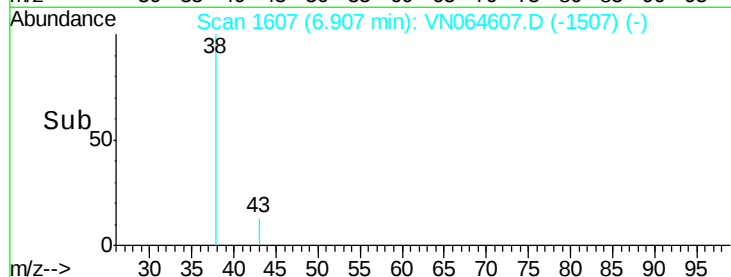
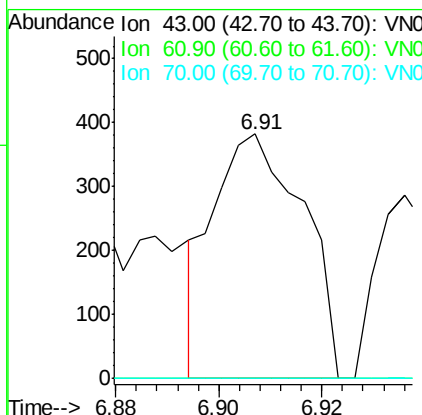
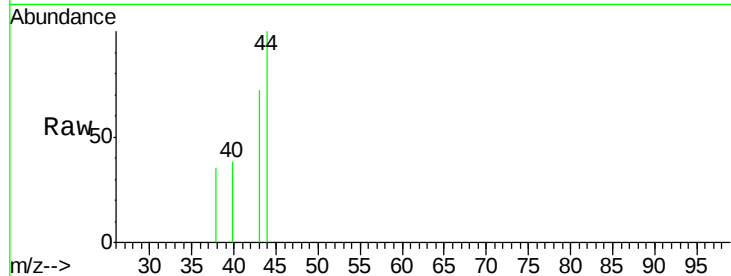




#37
Ethyl Acetate
Concen: 0.848 ug/l
RT: 6.91 min Scan# 1607
Delta R.T. 0.02 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

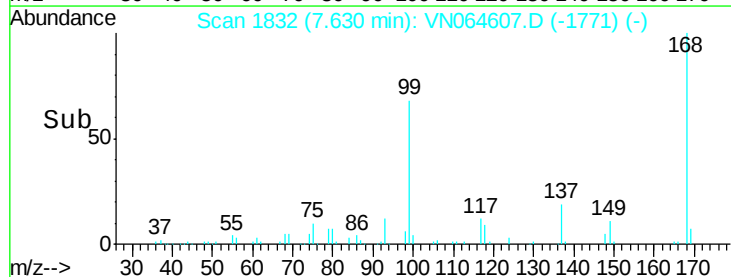
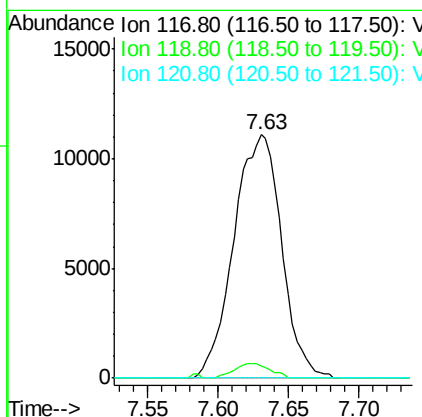
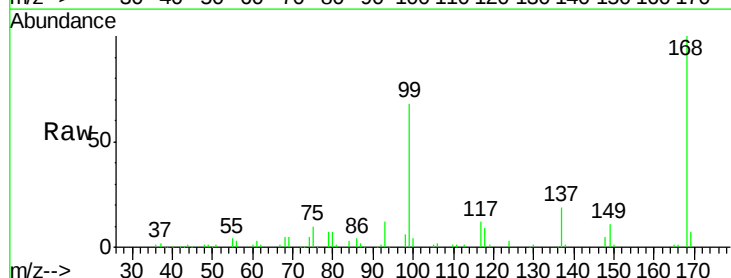
Instrument :
MSVOA_N
ClientSampleId :
PB132945ZHE#05

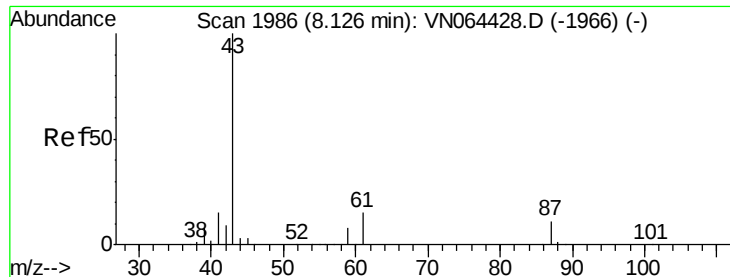
Tot Ion: 43 Resp: 458
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.722 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

Tgt Ion: 117 Resp: 26220
Ion Ratio Lower Upper
117 100
119 5.0 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 11.902 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

PB132945ZHE#05

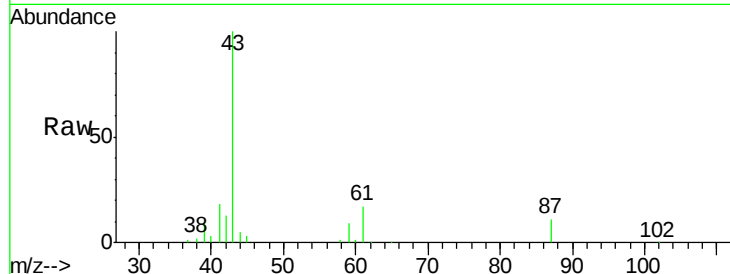
Tot Ion: 43 Resp: 100213

Ion Ratio Lower Upper

43 100

61 17.0 14.0 21.0

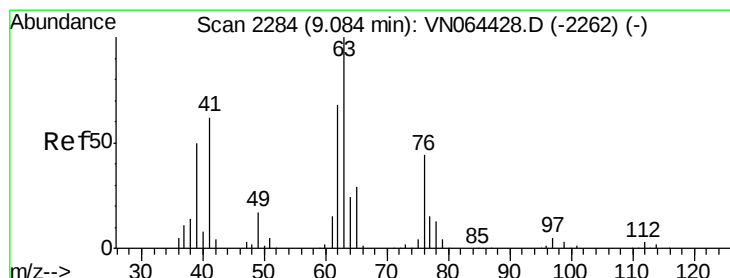
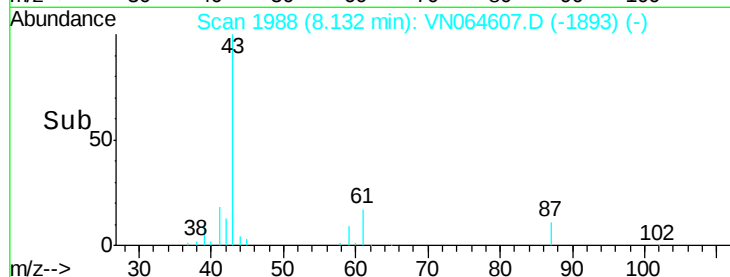
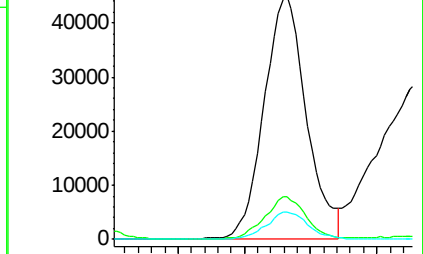
87 11.0 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN064607.D (-1988) (-)

Ion 61.00 (60.70 to 61.70): VN064607.D (-1988) (-)

Ion 87.00 (86.70 to 87.70): VN064607.D (-1988) (-)



#45

1,2-Dichloropropane

Concen: 0.319 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064607.D

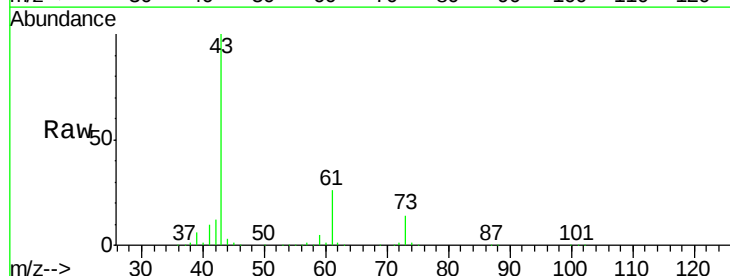
Acq: 13 Nov 2020 2:56

Tgt Ion: 63 Resp: 1298

Ion Ratio Lower Upper

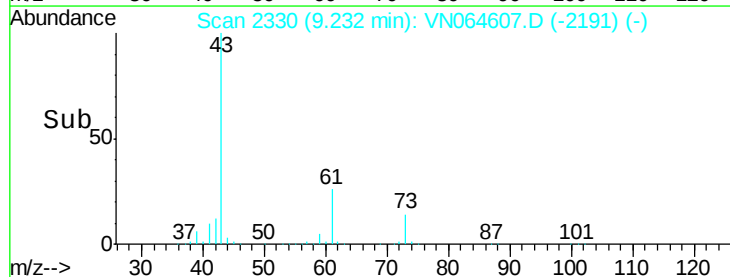
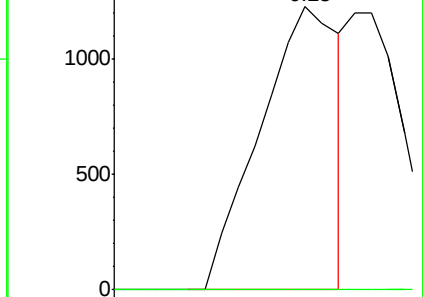
63 100

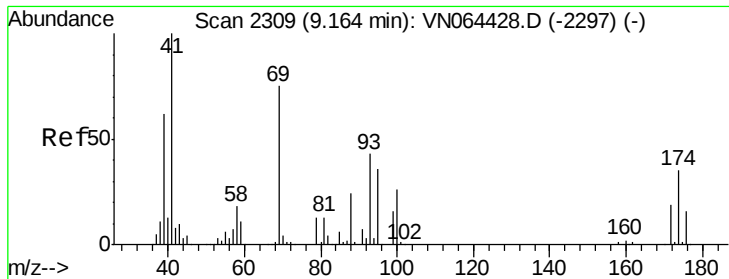
65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN064607.D (-2330) (-)

Ion 64.90 (64.60 to 65.60): VN064607.D (-2330) (-)

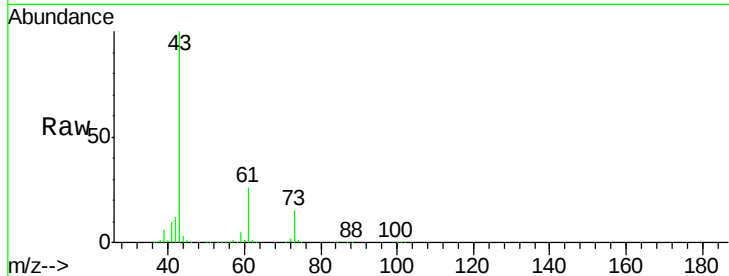




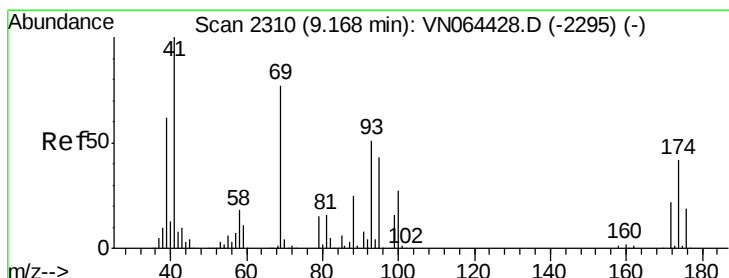
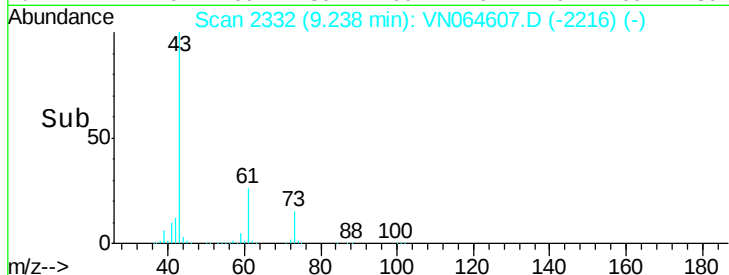
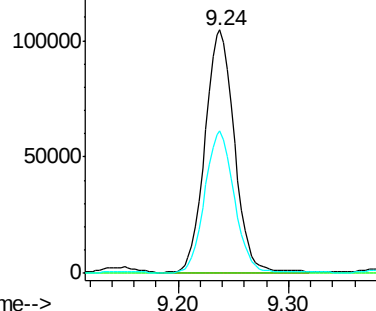
#48
Methyl methacrylate
Concen: 45.144 ug/l
RT: 9.24 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

Instrument :
MSVOA_N
ClientSampleId :
PB132945ZHE#05

Tot Ion: 41 Resp: 191796
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 59.9 51.2 76.8

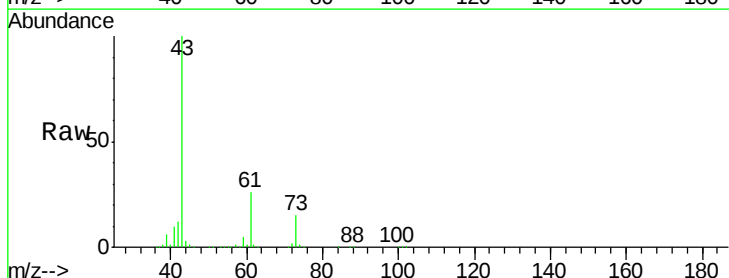


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

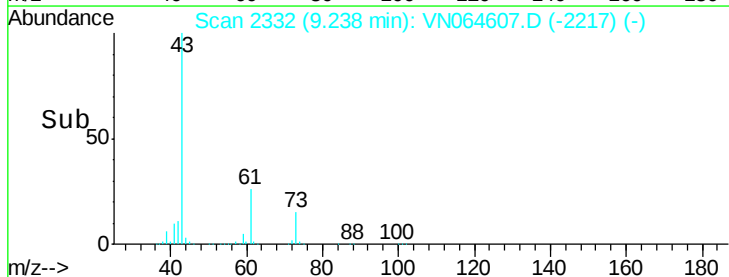
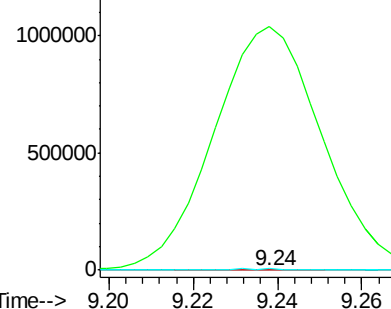


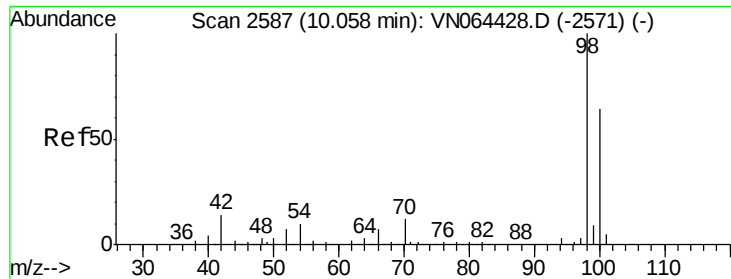
#49
1,4-Dioxane
Concen: 6.147 ug/l
RT: 9.24 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN064607.D
Acq: 13 Nov 2020 2:56

Tgt Ion: 88 Resp: 344
Ion Ratio Lower Upper
88 100
43 548817.7 31.0 46.6#
58 2853.8 58.4 87.6#



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





#50

Toluene-d8

Concen: 49.478 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

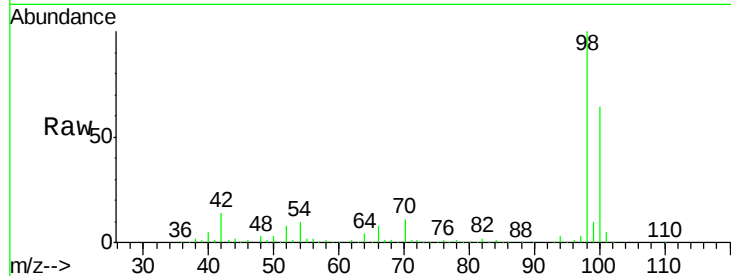
PB132945ZHE#05

Tot Ion: 98 Resp: 640328

Ion Ratio Lower Upper

98 100

100 64.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

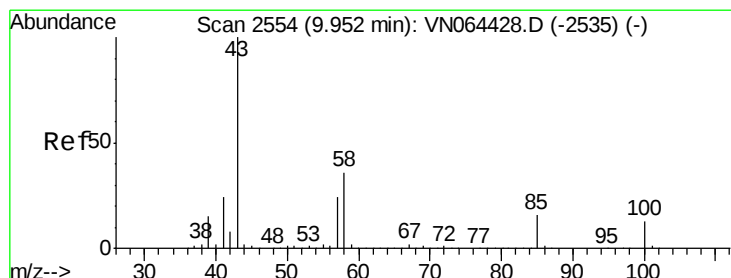
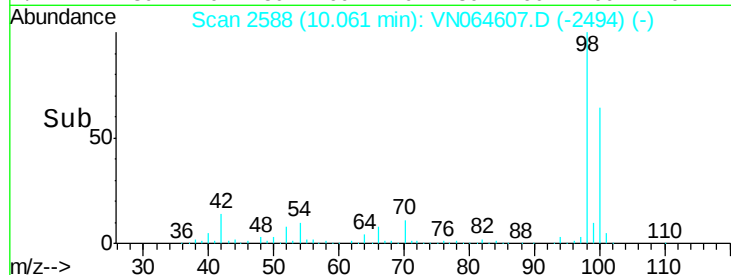
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.370 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064607.D

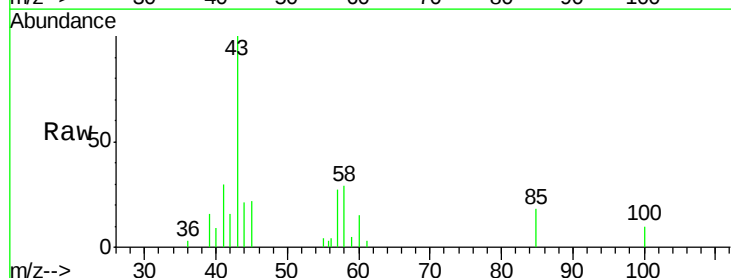
Acq: 13 Nov 2020 2:56

Tgt Ion: 43 Resp: 6727

Ion Ratio Lower Upper

43 100

58 43.5 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

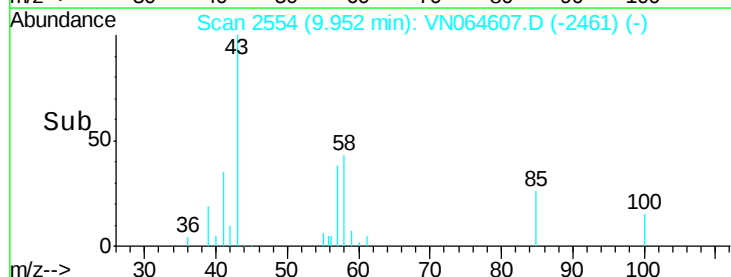
30000

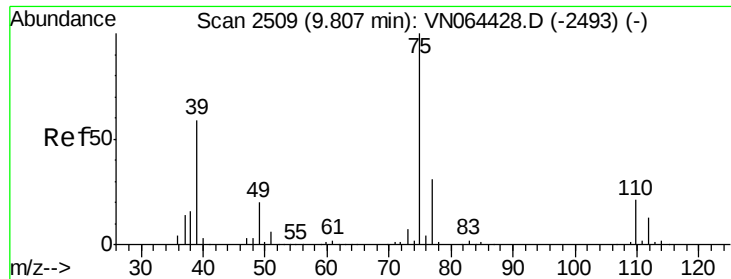
20000

10000

0

Time-->



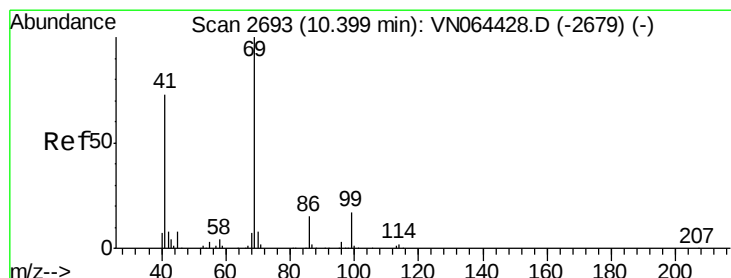
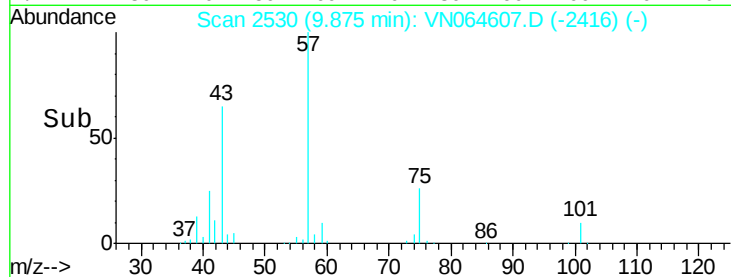
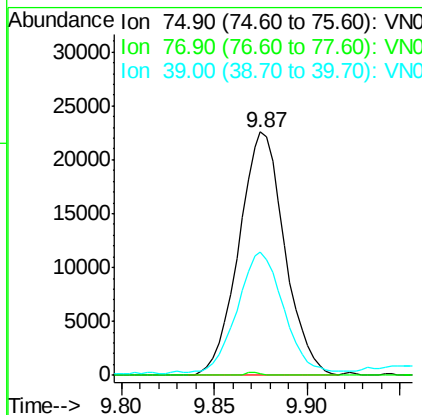
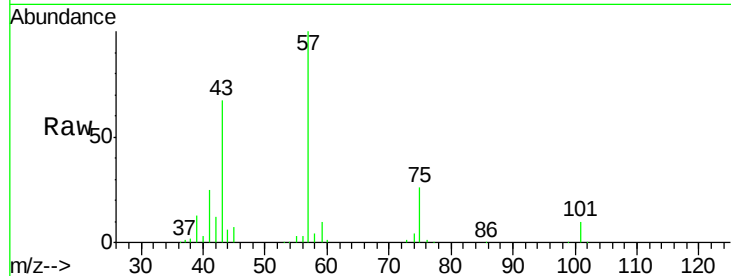


#54

cis-1,3-Dichloropropene
 Concen: 5.921 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064607.D
 Acq: 13 Nov 2020 2:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132945ZHE#05

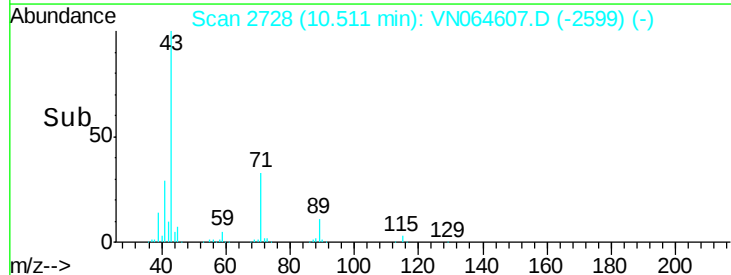
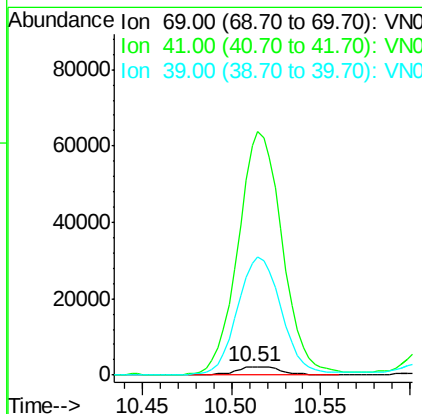
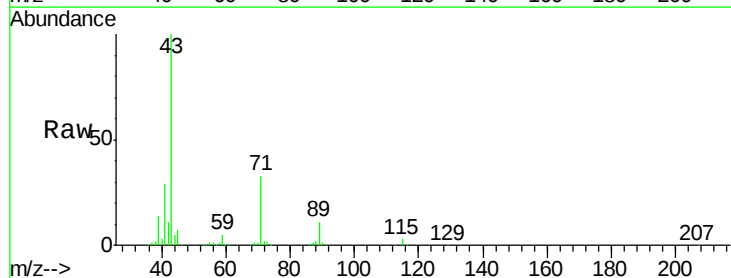
Tot Ion: 75 Resp: 38700
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.9 37.3#
 39 49.0 47.1 70.7

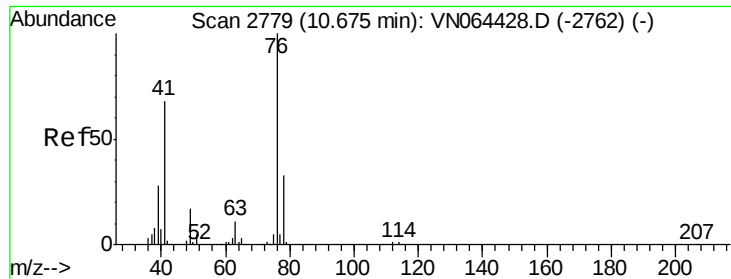


#56

Ethyl methacrylate
 Concen: 2.475 ug/l
 RT: 10.51 min Scan# 2728
 Delta R.T. 0.11 min
 Lab File: VN064607.D
 Acq: 13 Nov 2020 2:56

Tgt Ion: 69 Resp: 3931
 Ion Ratio Lower Upper
 69 100
 41 2792.8 59.3 88.9#
 39 1380.6 35.4 53.0#

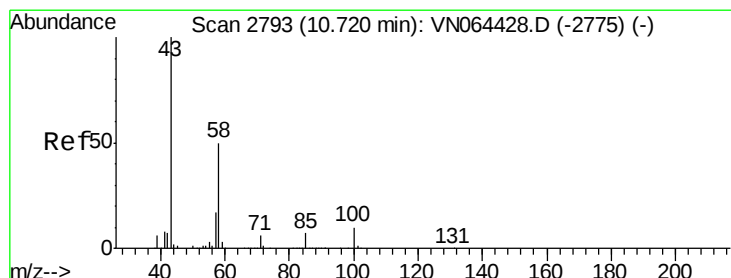
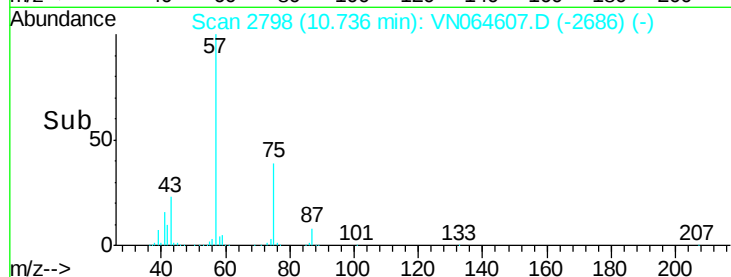
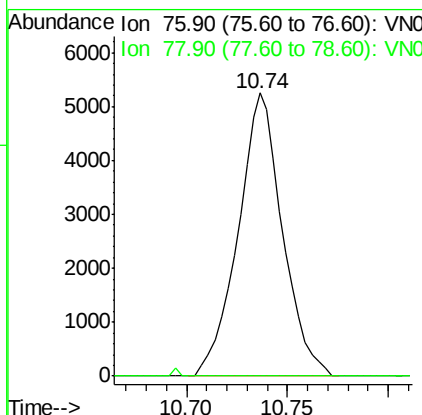
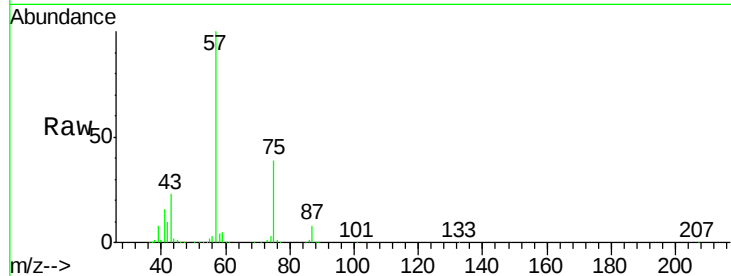




#57
 1,3-Dichloropropane
 Concen: 1.270 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064607.D
 Acq: 13 Nov 2020 2:56

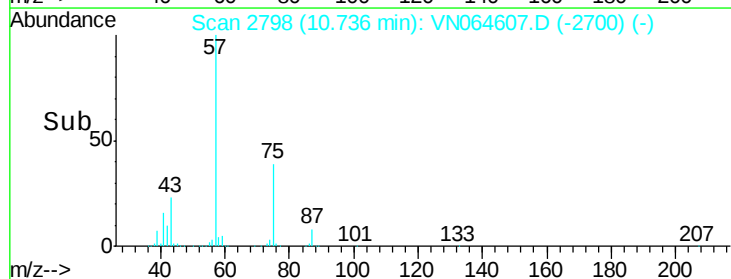
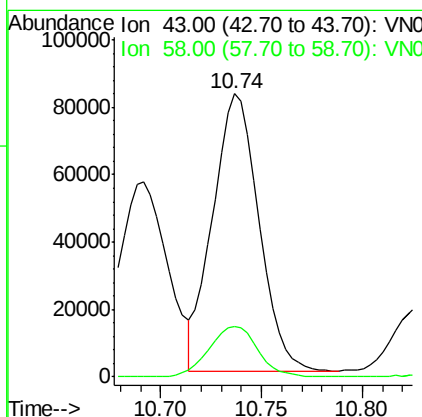
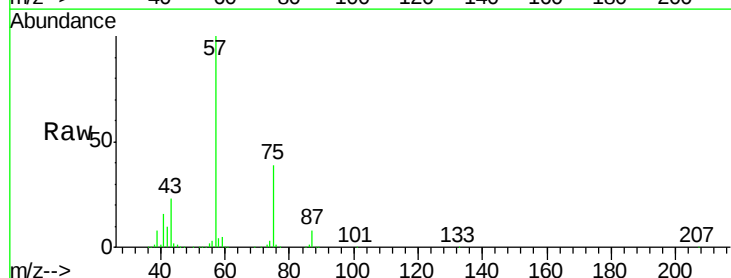
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132945ZHE#05

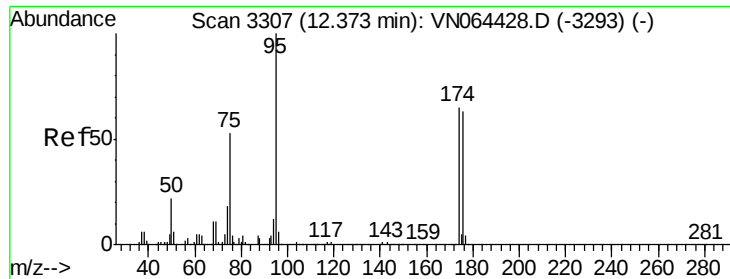
Tot Ion: 76 Resp: 8051
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 36.344 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064607.D
 Acq: 13 Nov 2020 2:56

Tgt Ion: 43 Resp: 131509
 Ion Ratio Lower Upper
 43 100
 58 19.4 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 49.092 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

PB132945ZHE#05

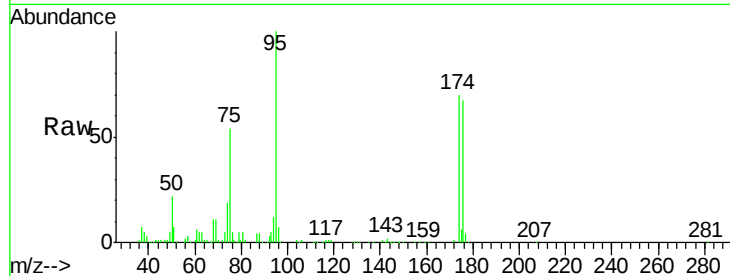
Tot Ion: 95 Resp: 240276

Ion Ratio Lower Upper

95 100

174 70.0 0.0 132.6

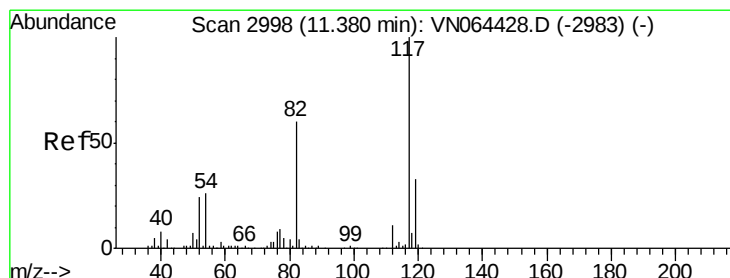
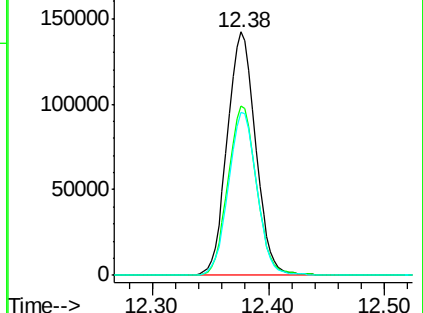
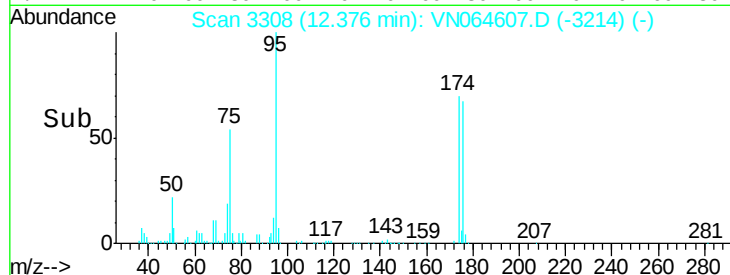
176 66.6 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN064607.D (-3214) (-)

Ion 173.80 (173.50 to 174.50): VN064607.D (-3214) (-)

Ion 175.80 (175.50 to 176.50): VN064607.D (-3214) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

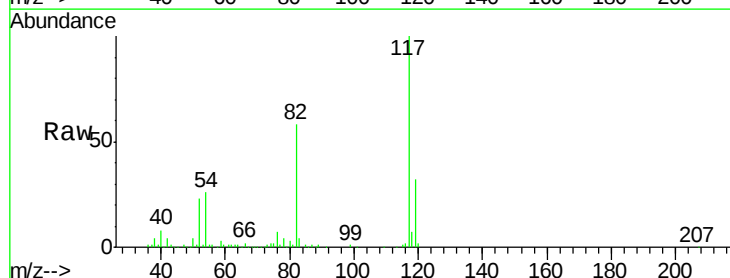
Tgt Ion: 117 Resp: 526563

Ion Ratio Lower Upper

117 100

82 58.1 48.1 72.1

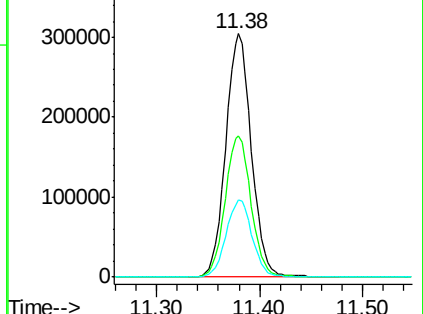
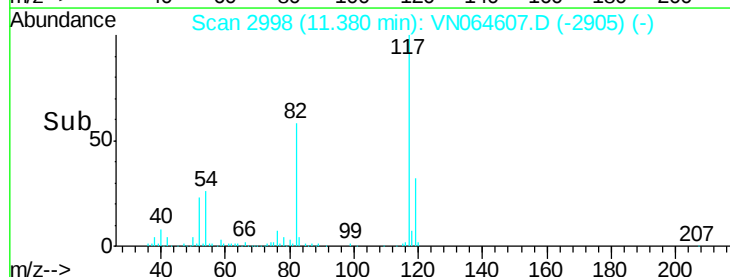
119 31.6 26.2 39.4

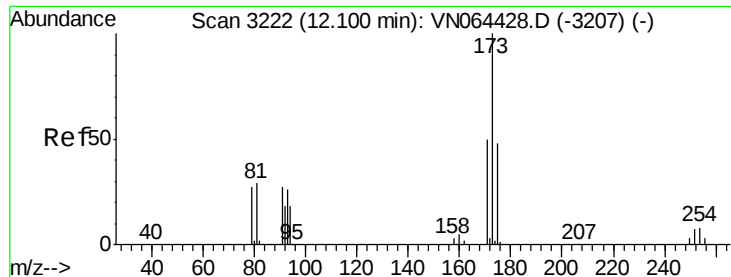


Abundance Ion 116.90 (116.60 to 117.60): VN064607.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN064607.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN064607.D (-2905) (-)





#71

Bromoform

Concen: 1.325 ug/l

RT: 12.36 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

PB132945ZHE#05

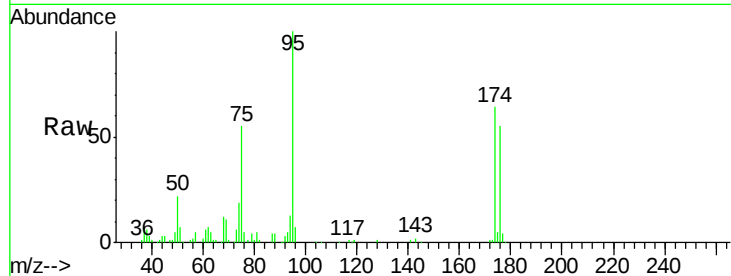
Tot Ion:173 Resp: 165

Ion Ratio Lower Upper

173 100

175 6441.8 23.7 71.1#

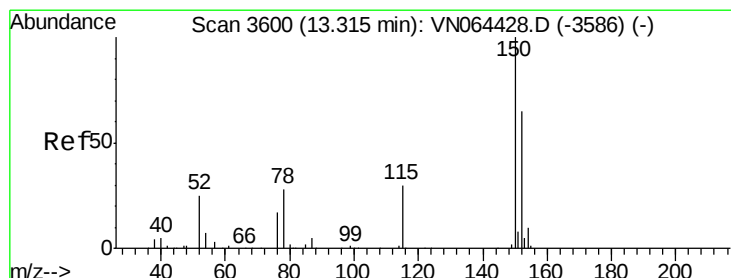
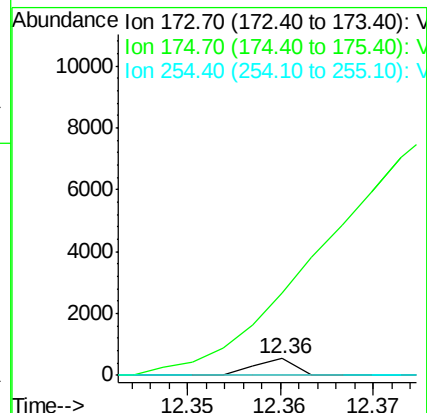
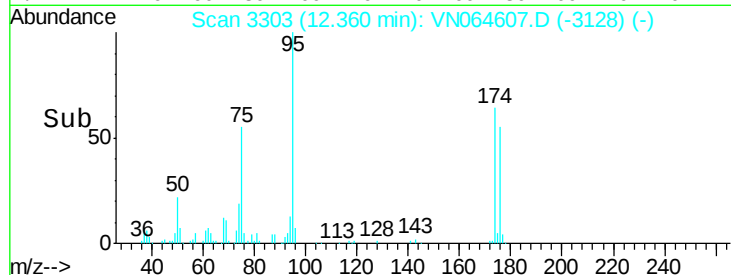
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

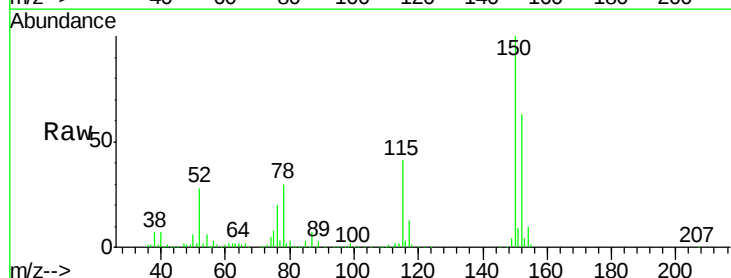
Tgt Ion:152 Resp: 184360

Ion Ratio Lower Upper

152 100

115 65.0 32.0 96.0

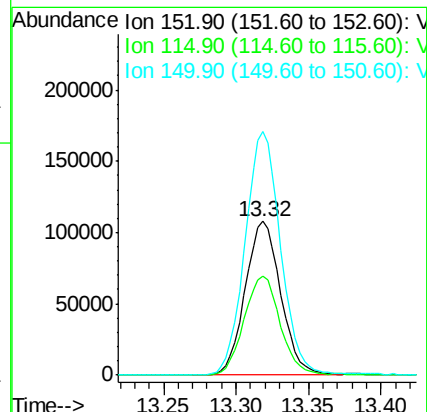
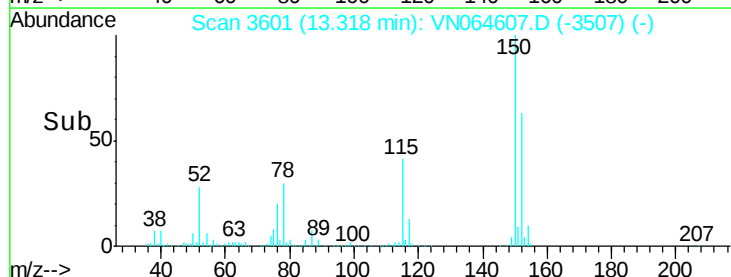
150 158.0 0.0 353.8

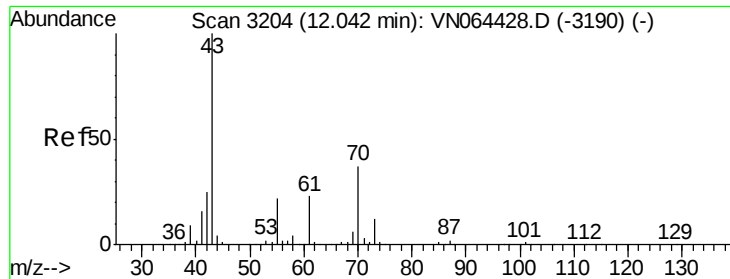


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.810 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

PB132945ZHE#05

Tot Ion: 43 Resp: 4339

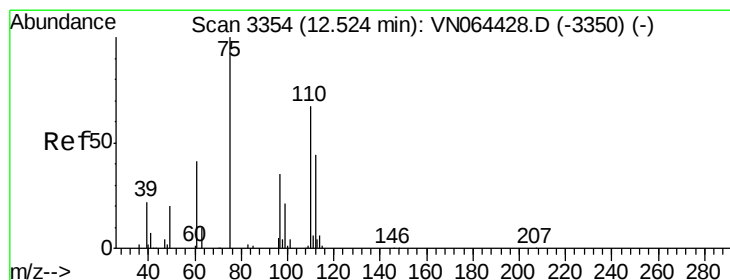
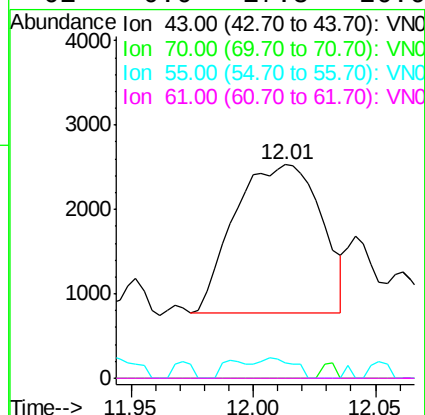
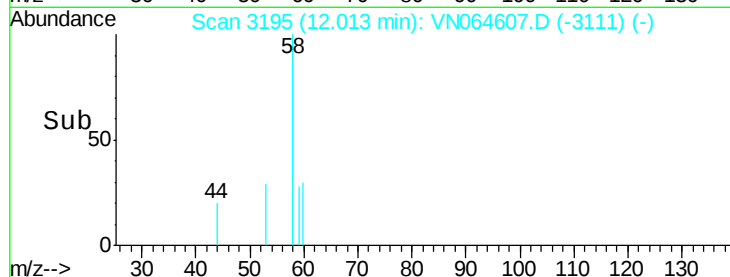
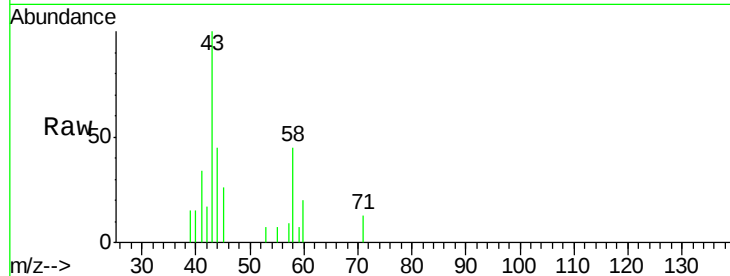
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.3 18.4 27.6#

61 0.0 17.8 26.6#



#76

1,2,3-Trichloropropane

Concen: 29.566 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064607.D

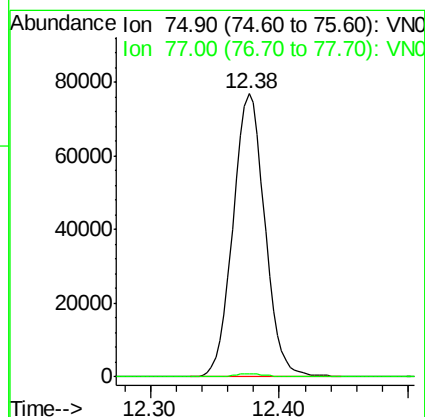
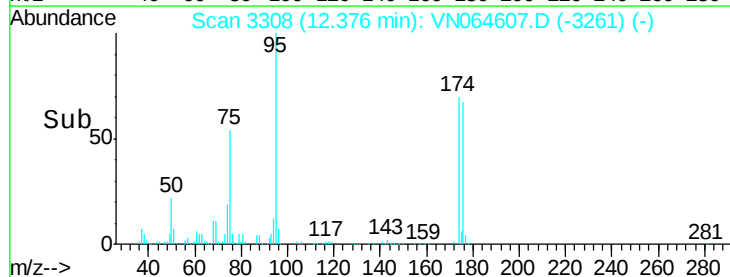
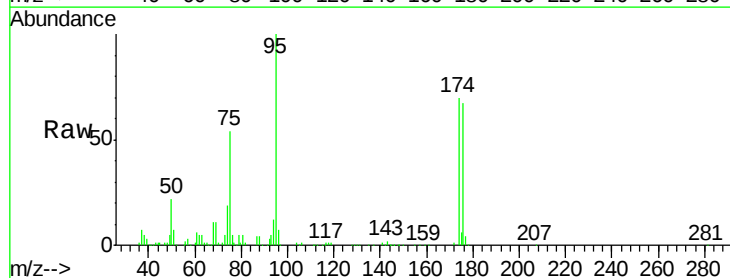
Acq: 13 Nov 2020 2:56

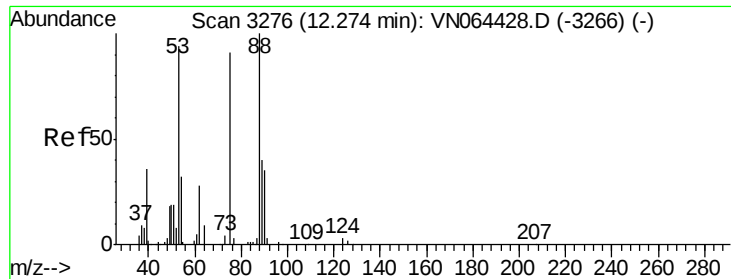
Tgt Ion: 75 Resp: 132068

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.552 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064607.D

Acq: 13 Nov 2020 2:56

Instrument :

MSVOA_N

ClientSampleId :

PB132945ZHE#05

Tot Ion: 75 Resp: 132068

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.1 36.3 54.5#

