

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111120\
 Data File : VN064557.D
 Acq On : 11 Nov 2020 16:02
 Operator : JC/MD
 Sample : PB132934ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132934ZHE#01

Quant Time: Nov 12 01:32:50 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	229552	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	475578	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	539817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	195279	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	229283	57.34	ug/l	0.00
Spiked Amount			Recovery	=	114.68%	
35) Dibromofluoromethane	7.55	113	169935	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
50) Toluene-d8	10.06	98	653644	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	12.38	95	248624	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	

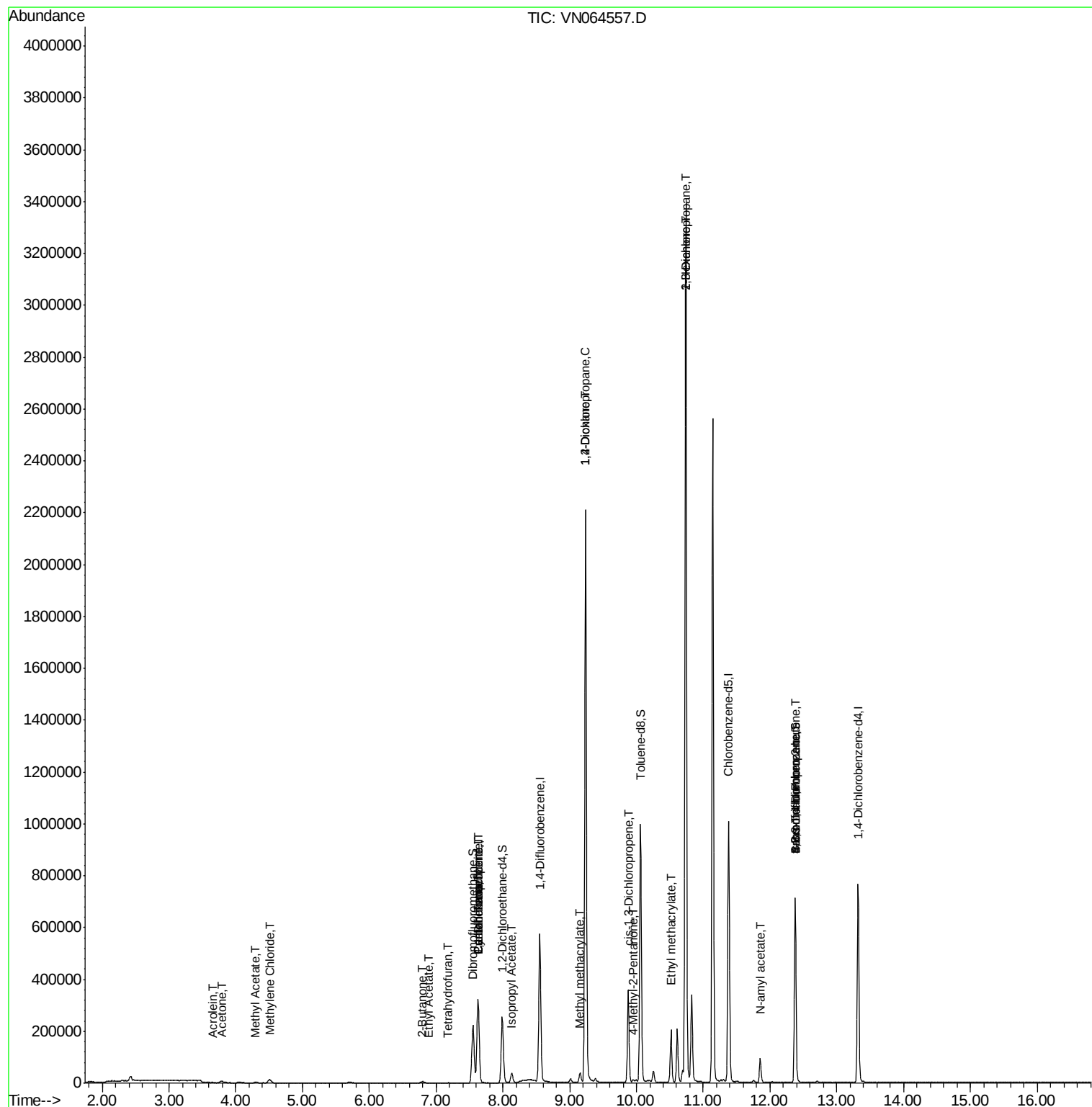
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.66	56	66	0.241	ug/l #	15
16) Acetone	3.79	43	9861	6.474	ug/l	92
18) Methyl Acetate	4.29	43	1362	0.455	ug/l #	88
20) Methylene Chloride	4.50	84	8906	2.947	ug/l #	92
25) 2-Butanone	6.80	43	1062	0.547	ug/l #	52
29) Tetrahydrofuran	7.17	42	348	0.292	ug/l #	44
31) Cyclohexane	7.63	56	7358	1.514	ug/l #	22
36) 1,1-Dichloropropene	7.62	75	22543	4.487	ug/l #	52
37) Ethyl Acetate	6.88	43	433	0.846	ug/l #	71
38) Carbon Tetrachloride	7.63	117	26475	4.931	ug/l #	17
43) Isopropyl Acetate	8.13	43	45560	5.596	ug/l	100
45) 1,2-Dichloropropane	9.24	63	2544	0.646	ug/l #	45
48) Methyl methacrylate	9.15	41	9215	2.243	ug/l #	15
49) 1,4-Dioxane	9.24	88	159	2.938	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7199	1.516	ug/l	91
54) cis-1,3-Dichloropropene	9.88	75	56537	8.945	ug/l #	69
56) Ethyl methacrylate	10.52	69	1593	2.107	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	31943	5.211	ug/l #	43
59) 2-Hexanone	10.74	43	520686	136.340	ug/l #	54
71) Bromoform	12.37	173	1123	1.605	ug/l #	1
74) N-amyl acetate	11.85	43	30368	5.150	ug/l #	57
76) 1,2,3-Trichloropropane	12.38	75	137169	28.991	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	137169	80.946	ug/l #	8

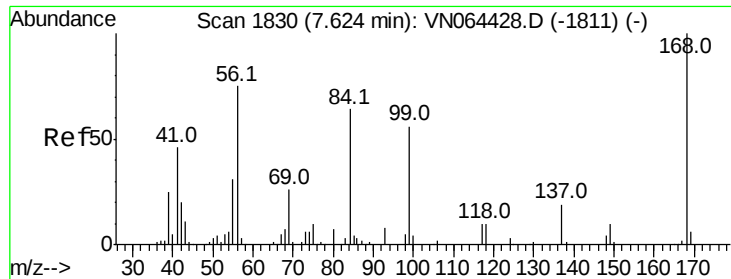
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1832

Delta R.T. 0.01 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

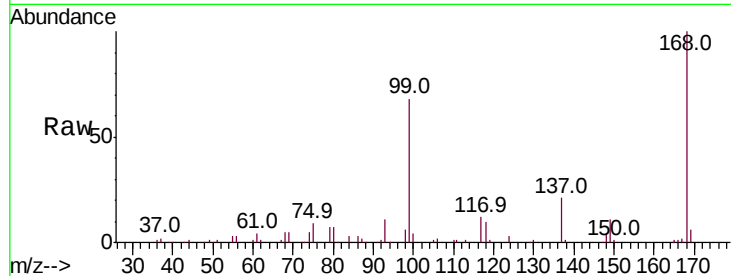
PB132934ZHE#01

Tot Ion:168 Resp: 229552

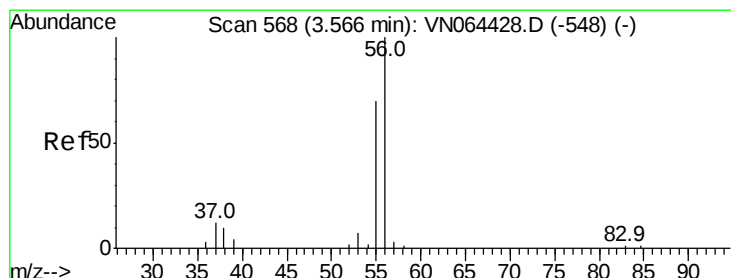
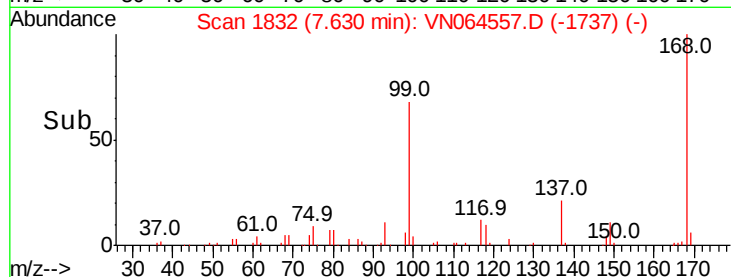
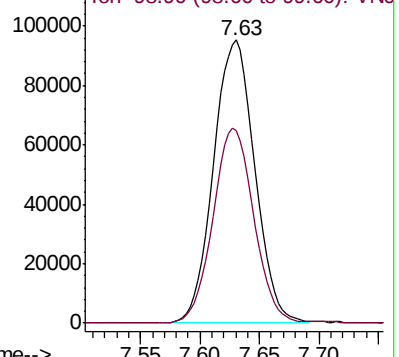
Ion Ratio Lower Upper

168 100

99 68.2 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): VN064428.D (-1811) (-)



#13

Acrolein

Concen: 0.241 ug/l

RT: 3.66 min Scan# 596

Delta R.T. 0.09 min

Lab File: VN064557.D

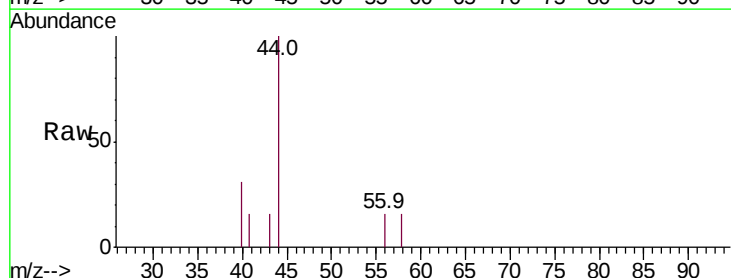
Acq: 11 Nov 2020 16:02

Tgt Ion: 56 Resp: 66

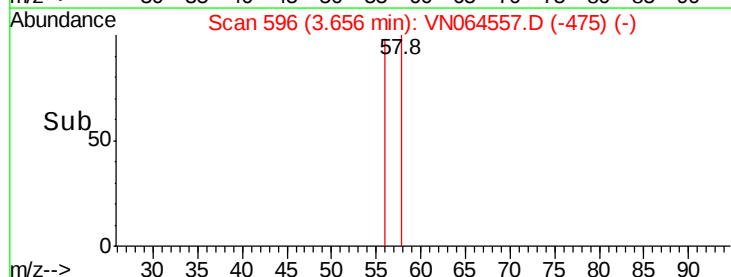
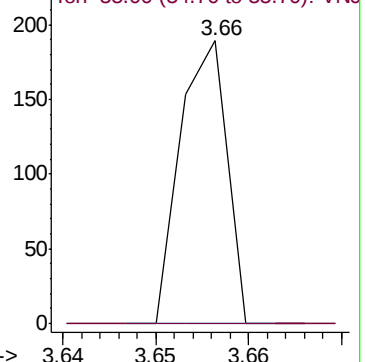
Ion Ratio Lower Upper

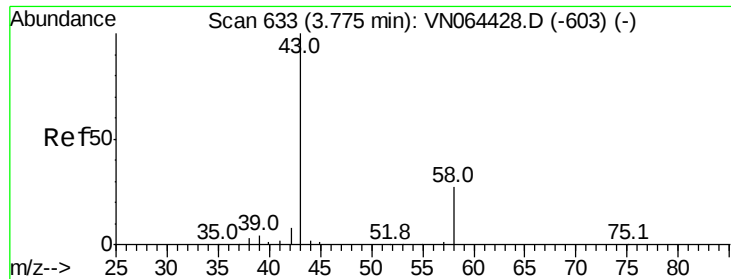
56 100

55 0.0 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VN064428.D (-548) (-)





#16

Acetone

Concen: 6.474 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

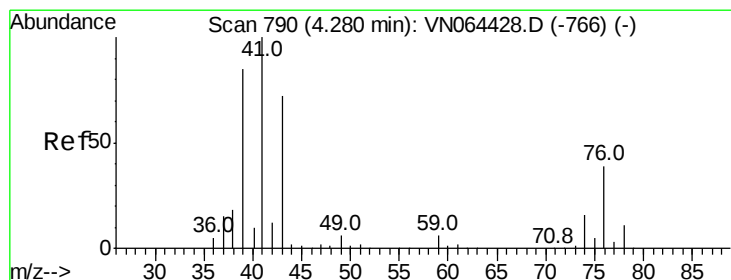
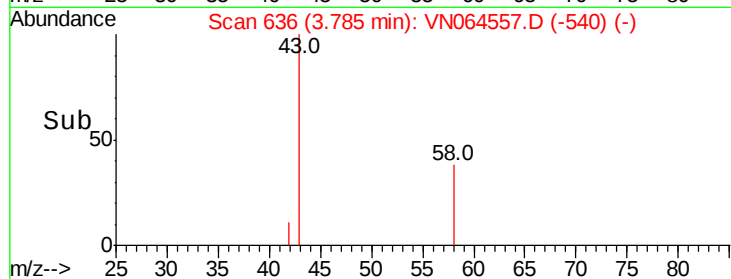
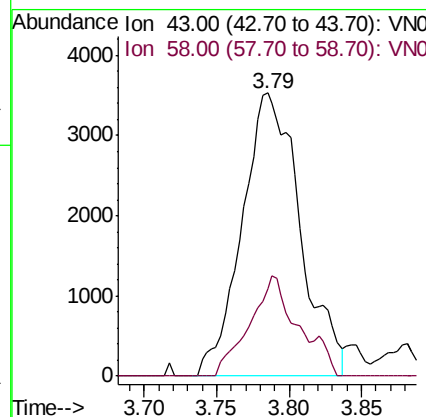
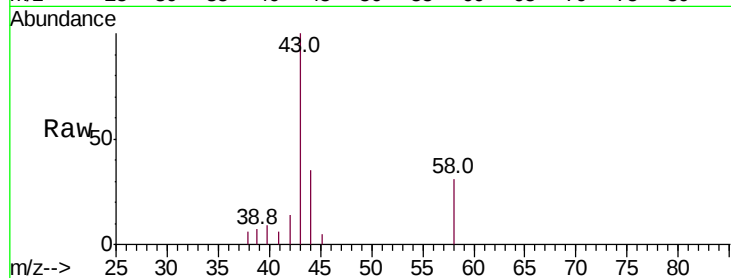
PB132934ZHE#01

Tot Ion: 43 Resp: 9861

Ion Ratio Lower Upper

43 100

58 31.0 21.4 32.0



#18

Methyl Acetate

Concen: 0.455 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN064557.D

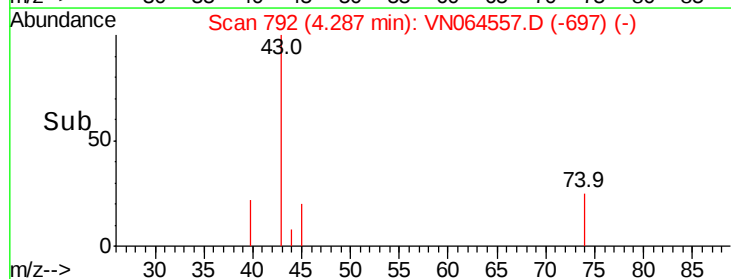
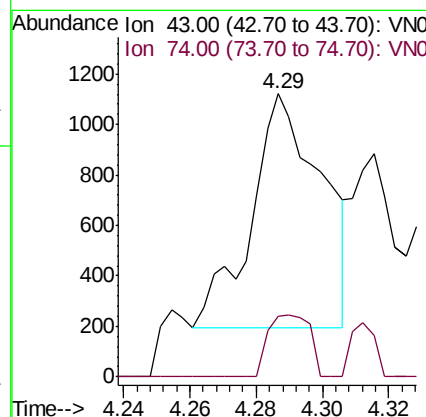
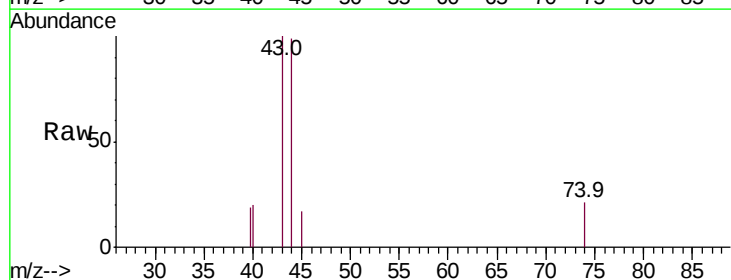
Acq: 11 Nov 2020 16:02

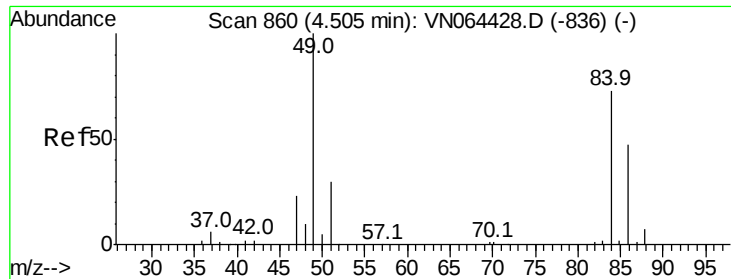
Tgt Ion: 43 Resp: 1362

Ion Ratio Lower Upper

43 100

74 15.8 17.0 25.4#

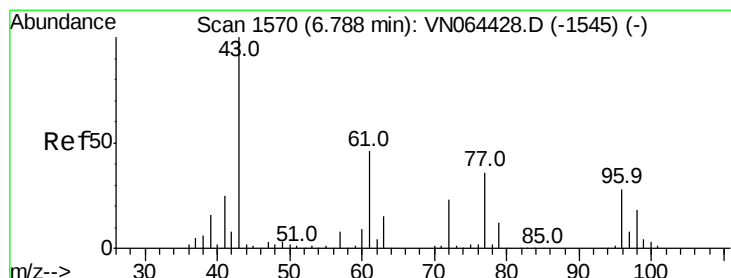
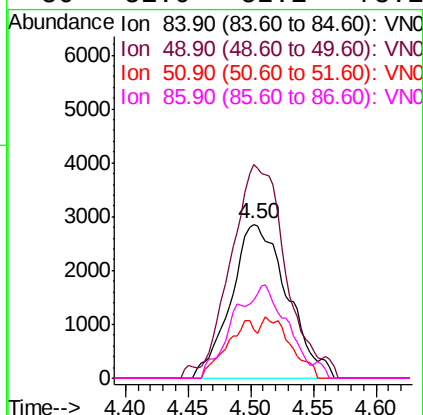
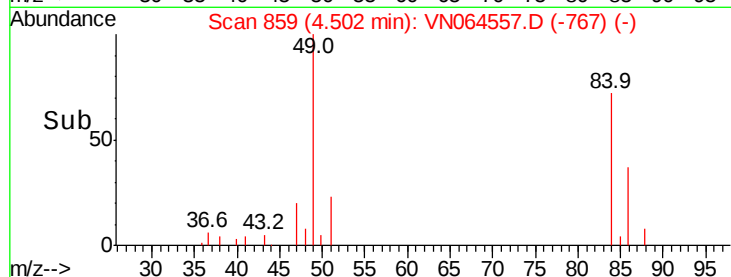
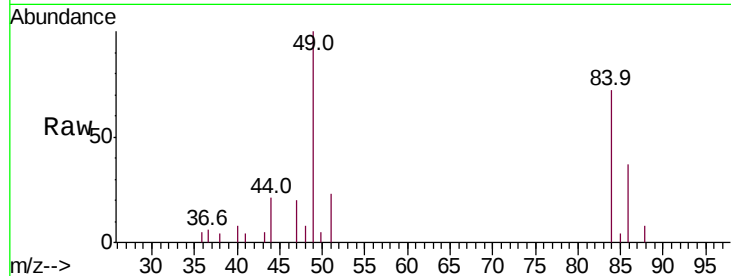




#20
Methvlene Chloride
Concen: 2.947 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064557.D
Acq: 11 Nov 2020 16:02

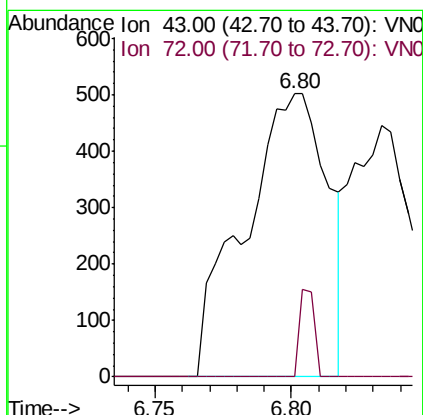
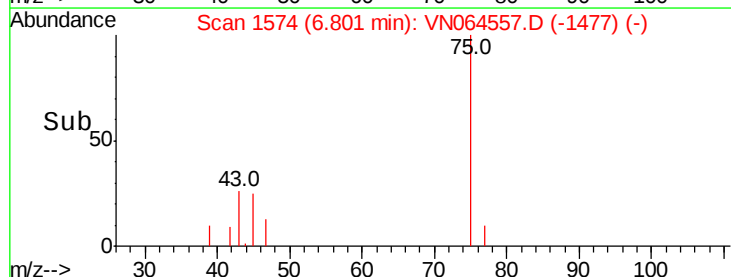
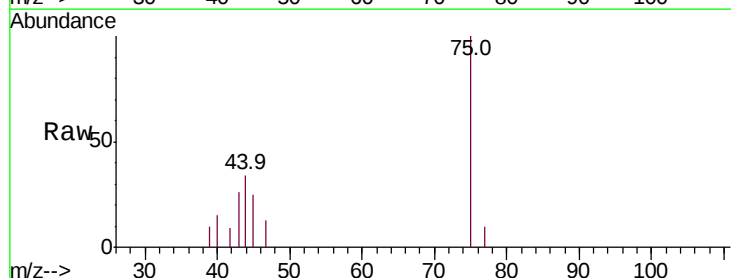
Instrument :
MSVOA_N
ClientSampleId :
PB132934ZHE#01

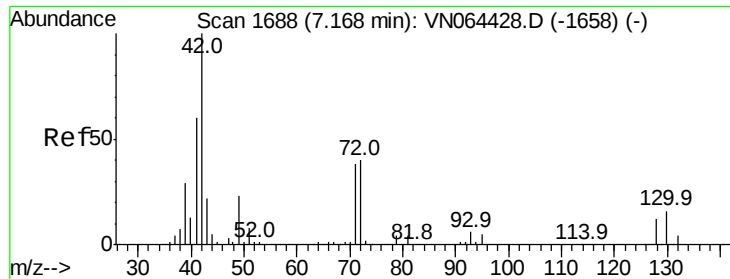
Tot Ion: 84 Resp: 8906
Ion Ratio Lower Upper
84 100
49 138.5 110.1 165.1
51 31.7 33.6 50.4#
86 51.0 52.1 78.1#



#25
2-Butanone
Concen: 0.547 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN064557.D
Acq: 11 Nov 2020 16:02

Tgt Ion: 43 Resp: 1062
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#29

Tetrahydrofuran

Concen: 0.292 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

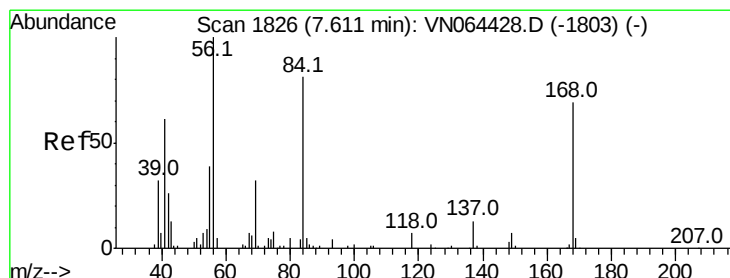
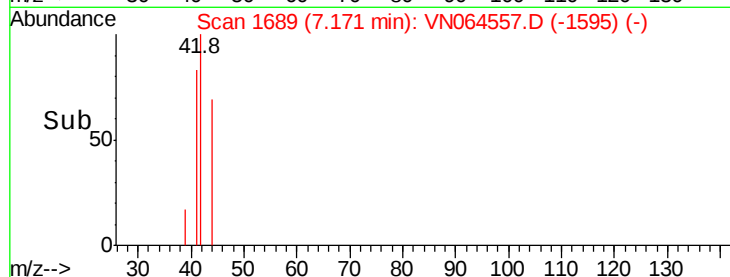
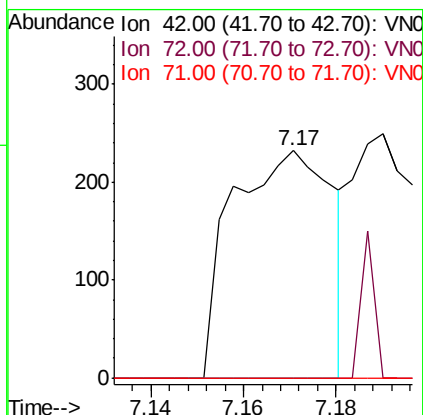
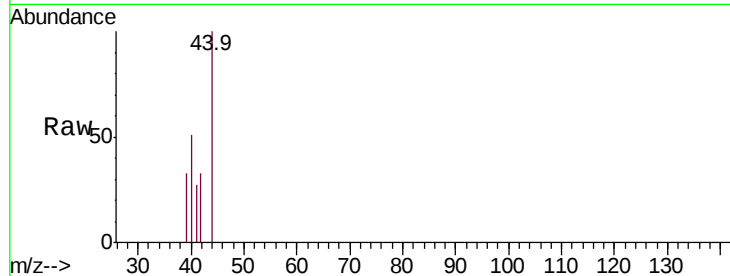
Tot Ion: 42 Resp: 348

Ion Ratio Lower Upper

42 100

72 8.3 31.7 47.5#

71 0.0 29.8 44.6#



#31

Cyclohexane

Concen: 1.514 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

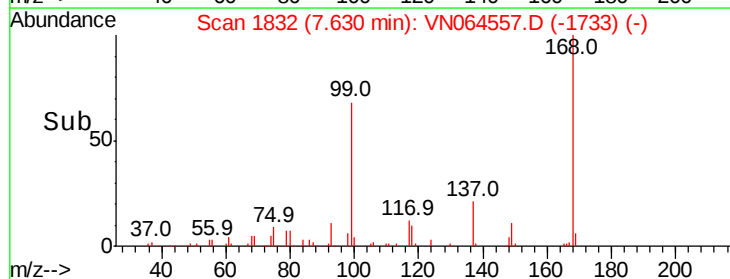
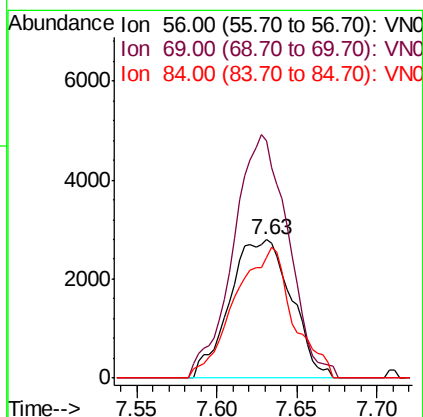
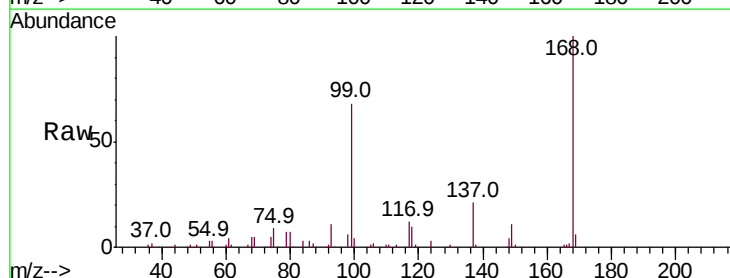
Tgt Ion: 56 Resp: 7358

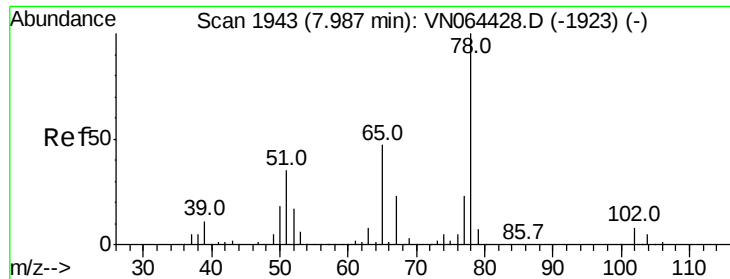
Ion Ratio Lower Upper

56 100

69 170.9 25.6 38.4#

84 86.8 63.0 94.6#

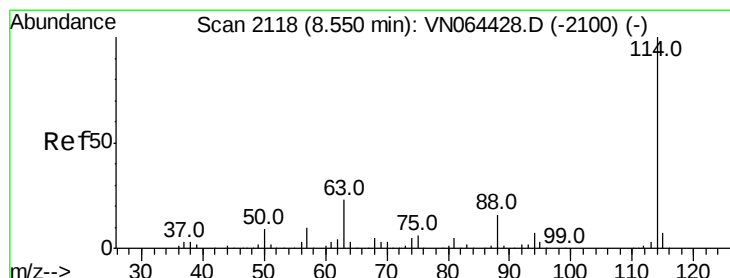
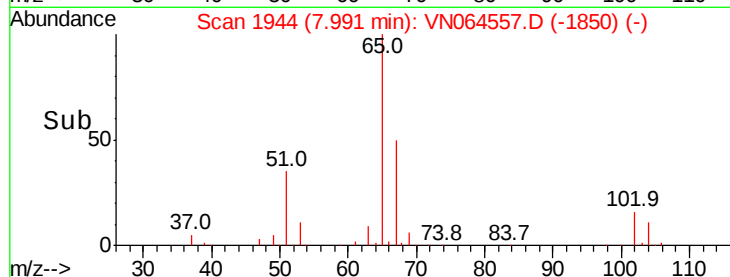
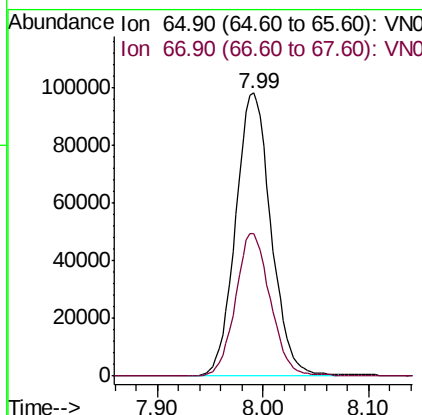
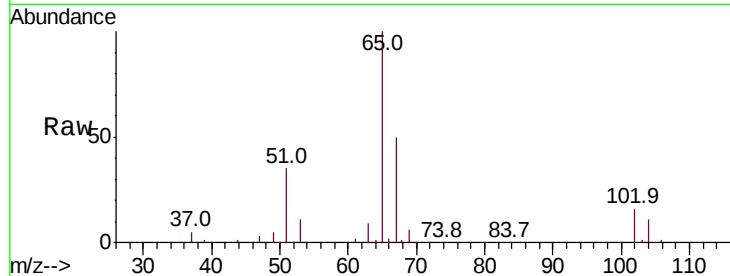




#33
 1,2-Dichloroethane-d4
 Concen: 57.343 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064557.D
 Acq: 11 Nov 2020 16:02

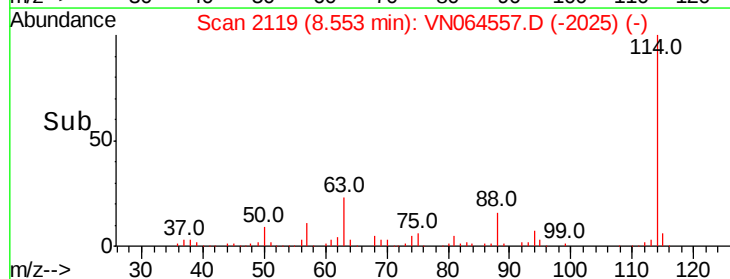
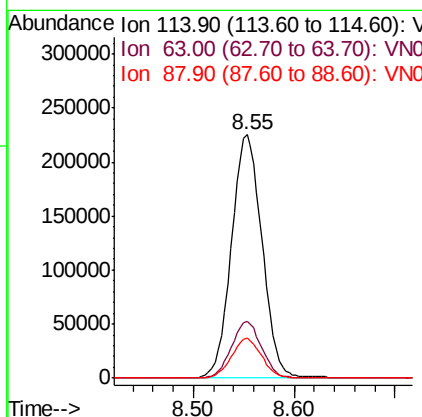
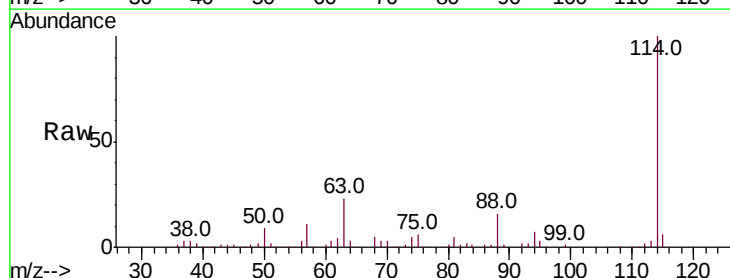
Instrument :
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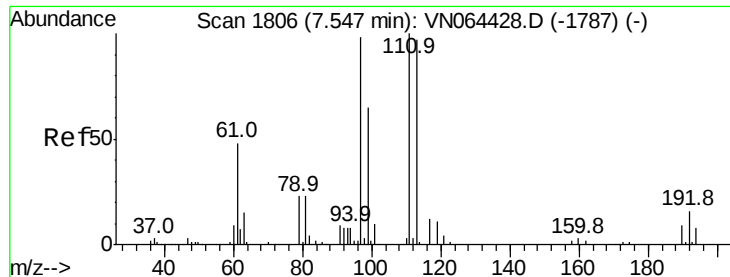
Tot Ion: 65 Resp: 229283
 Ion Ratio Lower Upper
 65 100
 67 49.3 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064557.D
 Acq: 11 Nov 2020 16:02

Tgt Ion: 114 Resp: 475578
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 45.6
 88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.481 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

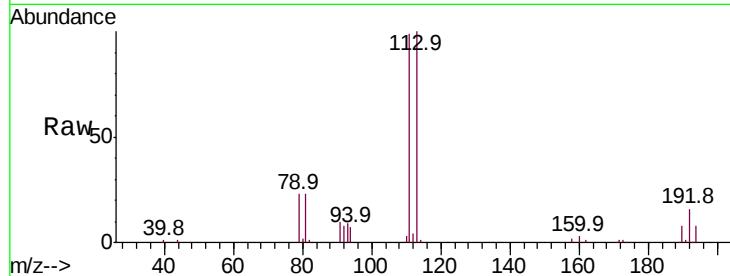
Tot Ion:113 Resp: 169935

Ion Ratio Lower Upper

113 100

111 100.5 81.1 121.7

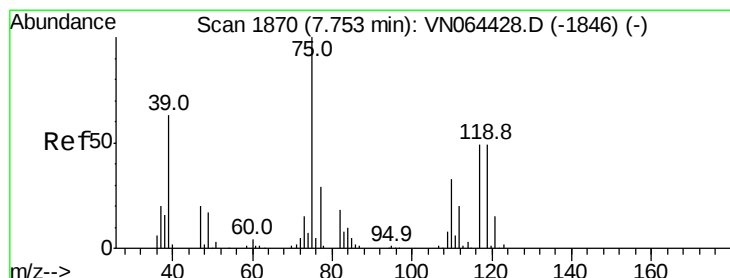
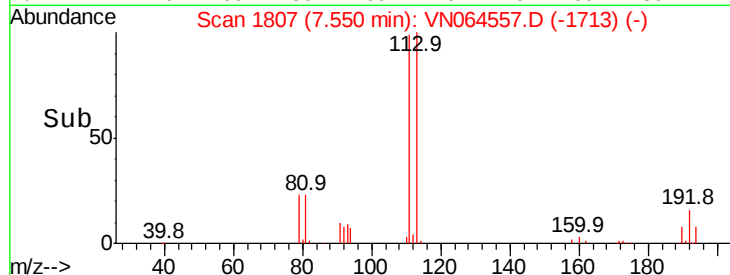
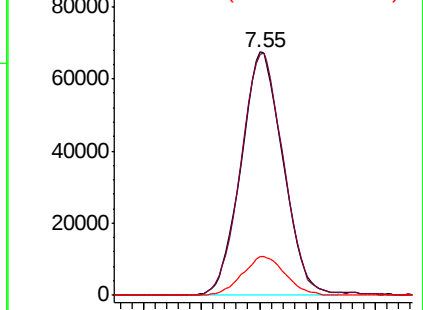
192 16.2 12.8 19.2



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: 4.487 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

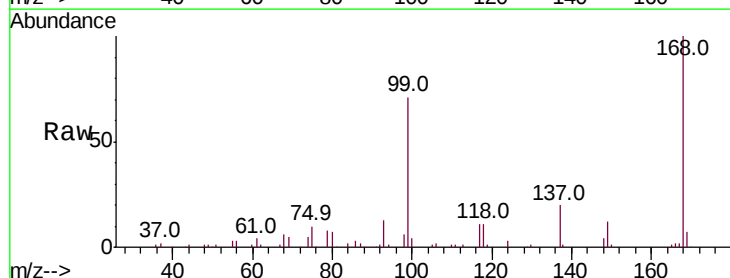
Tgt Ion: 75 Resp: 22543

Ion Ratio Lower Upper

75 100

110 9.0 16.0 48.0#

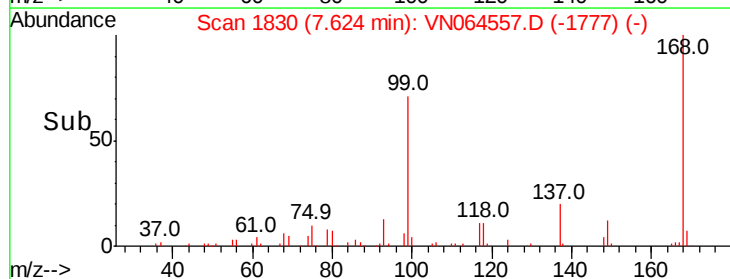
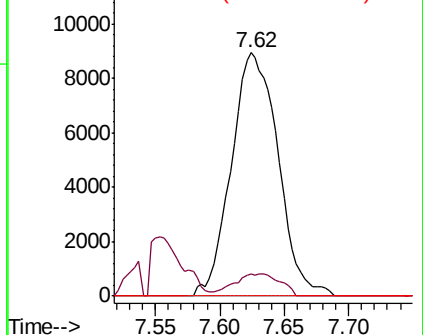
77 0.0 24.0 36.0#

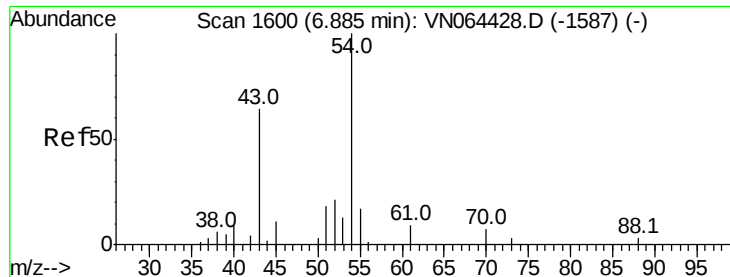


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#37

Ethyl Acetate

Concen: 0.846 ug/l

RT: 6.88 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

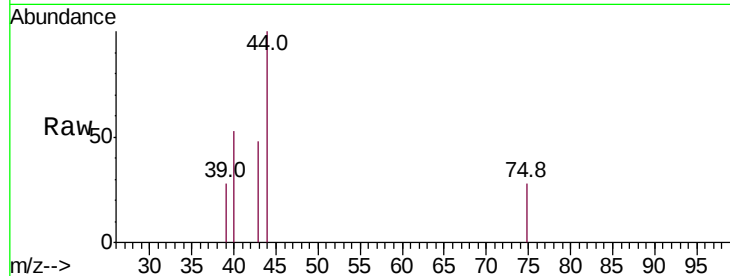
Tot Ion: 43 Resp: 433

Ion Ratio Lower Upper

43 100

61 0.0 10.0 15.0#

70 0.0 7.1 10.7#



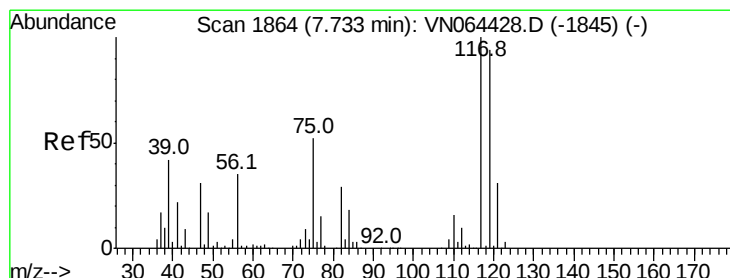
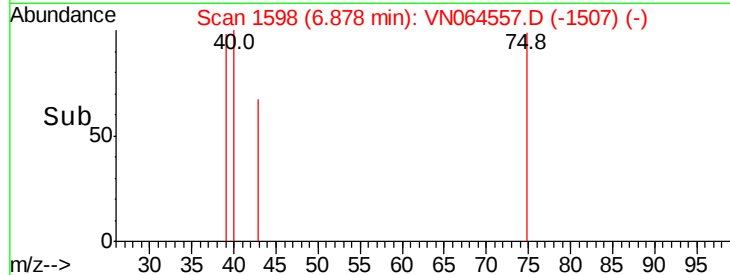
Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-1587) (-)

Ion 60.90 (60.60 to 61.60): VN064428.D (-1587) (-)

Ion 70.00 (69.70 to 70.70): VN064428.D (-1587) (-)

6.88

Time-->



#38

Carbon Tetrachloride

Concen: 4.931 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

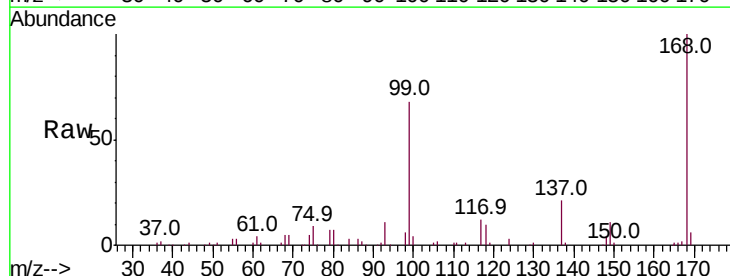
Tgt Ion: 117 Resp: 26475

Ion Ratio Lower Upper

117 100

119 5.0 75.5 113.3#

121 0.0 24.4 36.6#



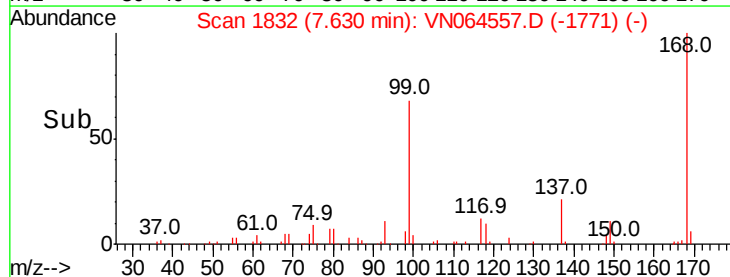
Abundance Ion 116.80 (116.50 to 117.50): VN064428.D (-1845) (-)

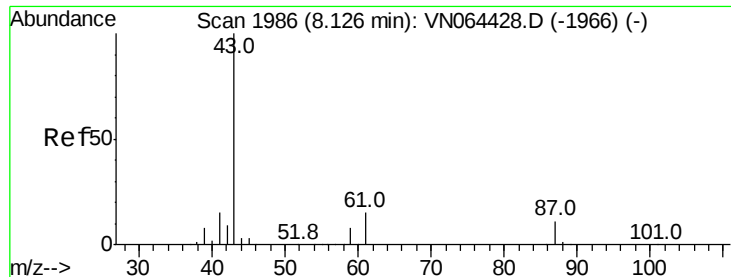
Ion 118.80 (118.50 to 119.50): VN064428.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN064428.D (-1845) (-)

7.63

Time-->





#43

Isopropyl Acetate

Concen: 5.596 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

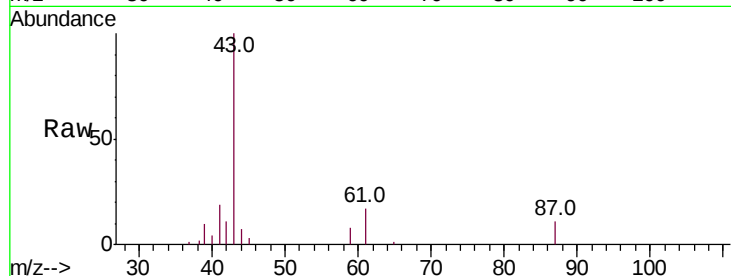
Tot Ion: 43 Resp: 45560

Ion Ratio Lower Upper

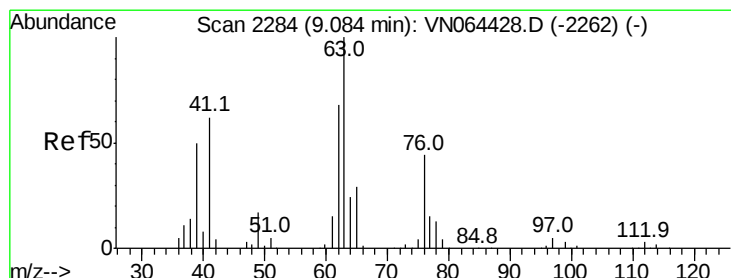
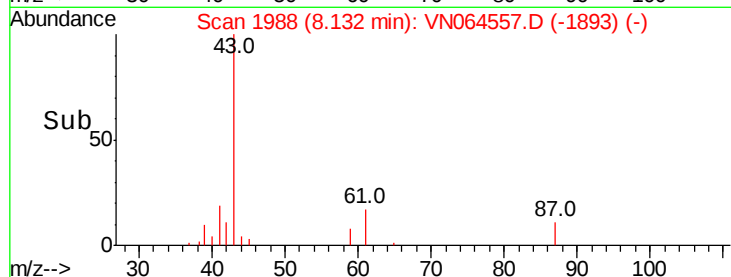
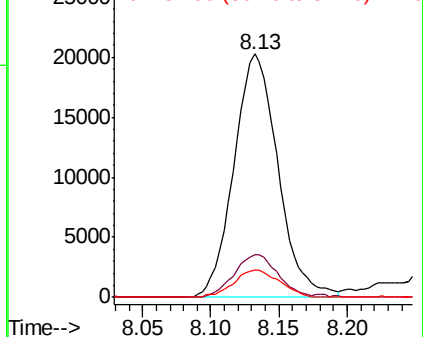
43 100

61 17.7 14.0 21.0

87 11.6 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.646 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN064557.D

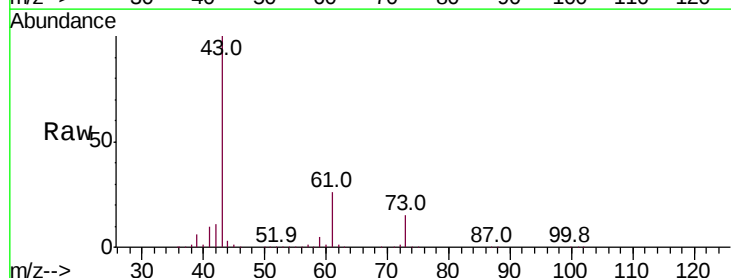
Acq: 11 Nov 2020 16:02

Tgt Ion: 63 Resp: 2544

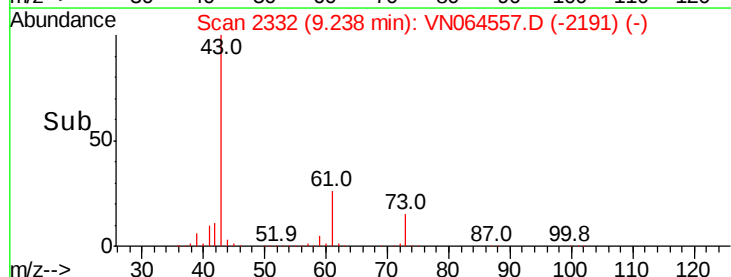
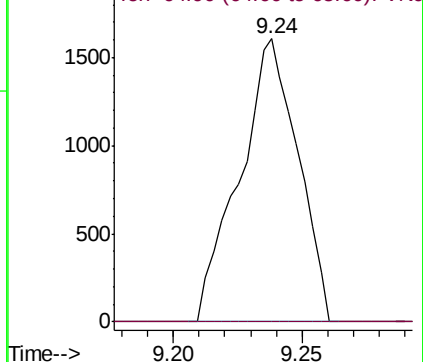
Ion Ratio Lower Upper

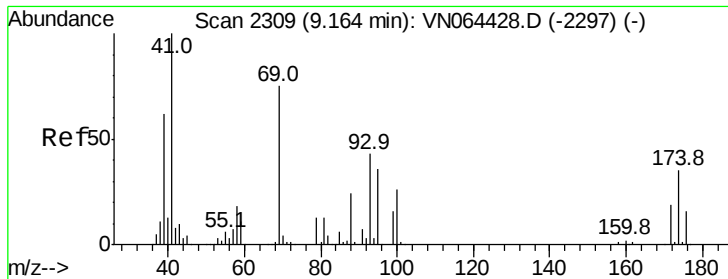
63 100

65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO





#48

Methyl methacrylate

Concen: 2.243 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

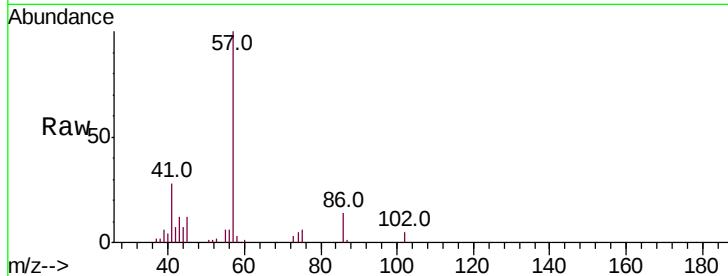
Tot Ion: 41 Resp: 9215

Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

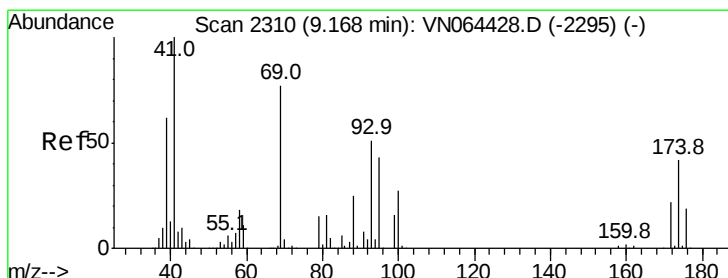
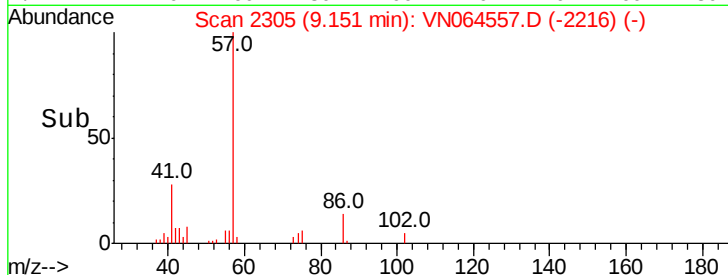
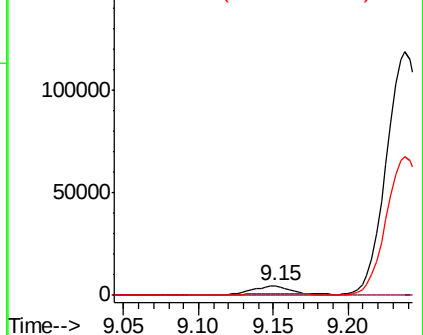
39 0.0 51.2 76.8#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC



#49

1,4-Dioxane

Concen: 2.938 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

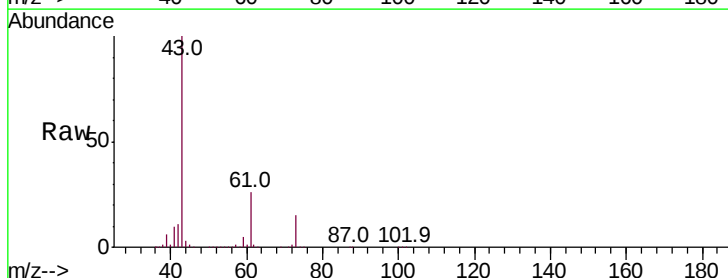
Tgt Ion: 88 Resp: 159

Ion Ratio Lower Upper

88 100

43 1353997.5 31.0 46.6#

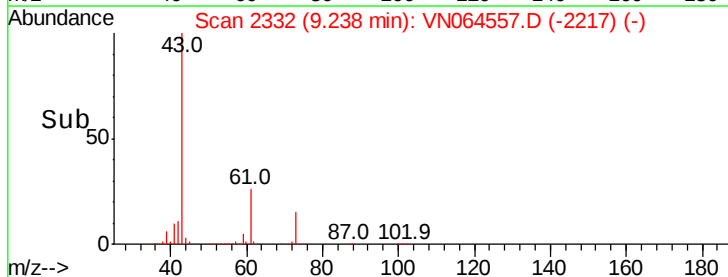
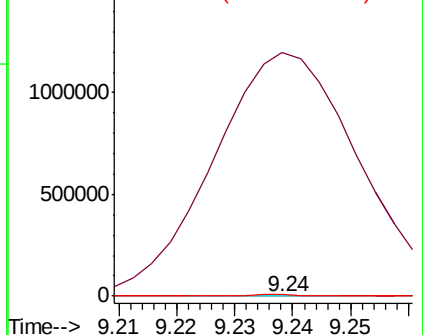
58 6819.5 58.4 87.6#

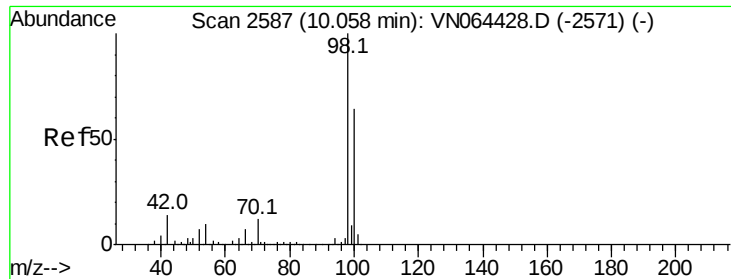


Abundance Ion 88.00 (87.70 to 88.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 52.229 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

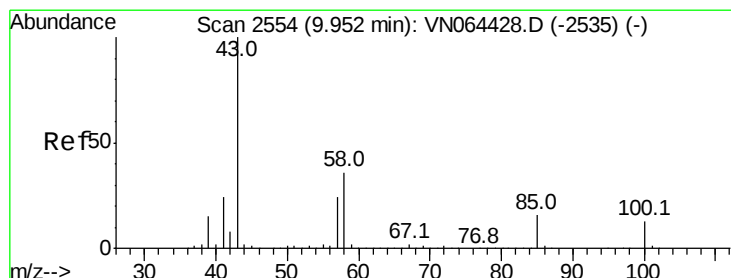
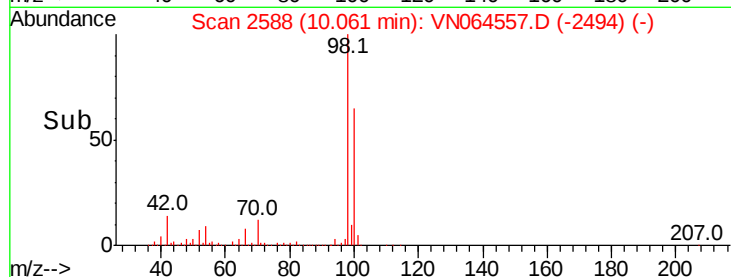
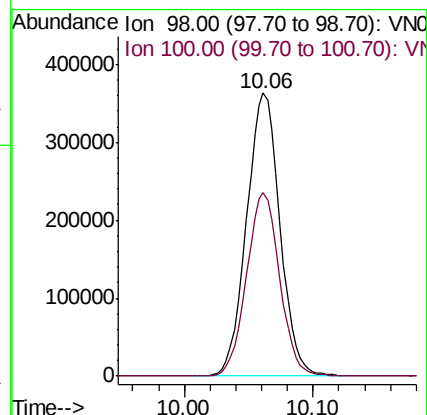
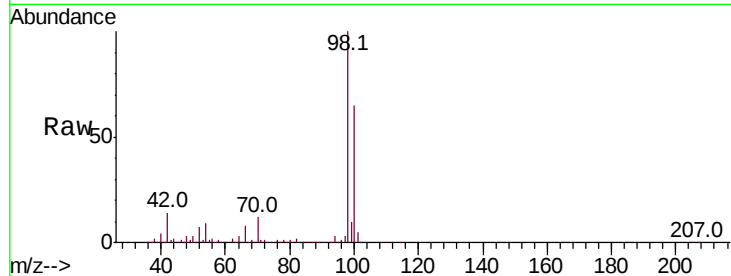
PB132934ZHE#01

Tot Ion: 98 Resp: 653644

Ion Ratio Lower Upper

98 100

100 64.5 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 1.516 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064557.D

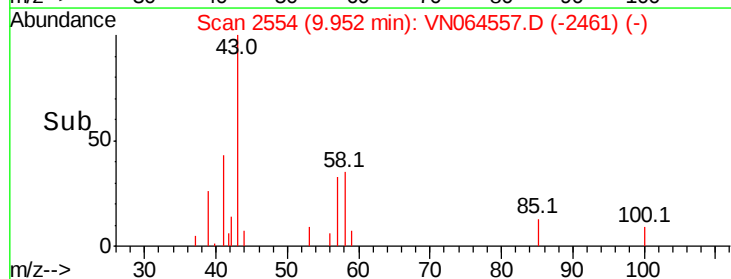
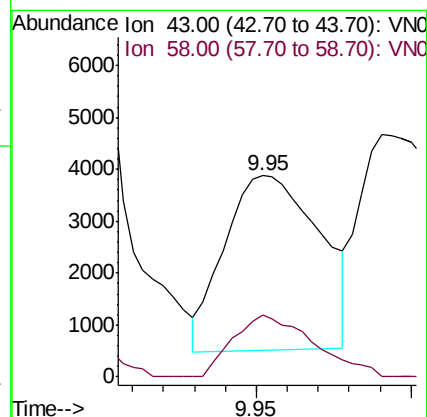
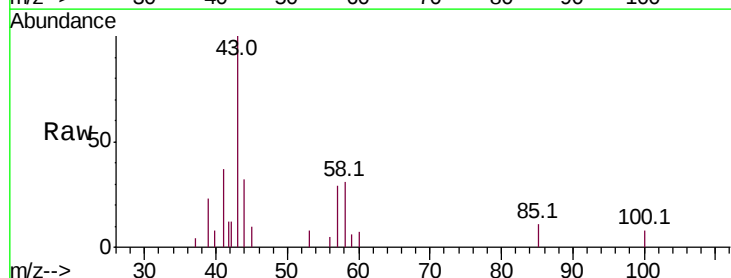
Acq: 11 Nov 2020 16:02

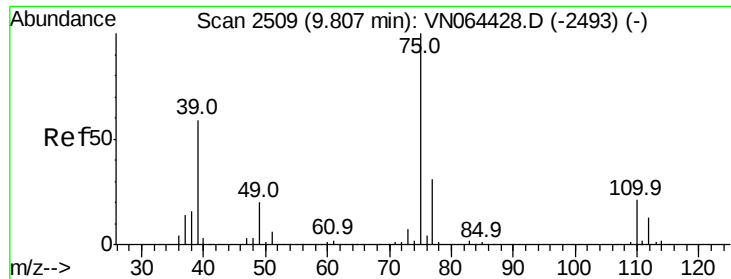
Tgt Ion: 43 Resp: 7199

Ion Ratio Lower Upper

43 100

58 30.3 28.4 42.6



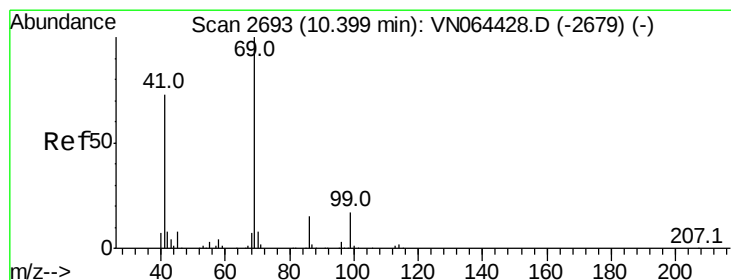
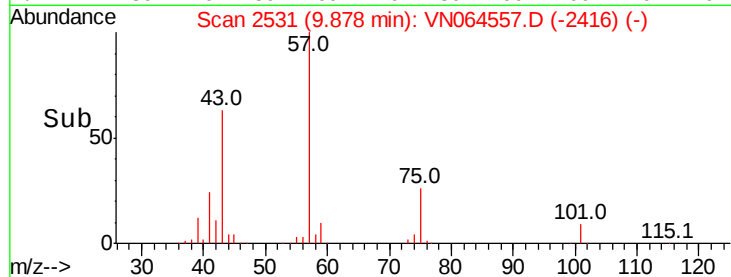
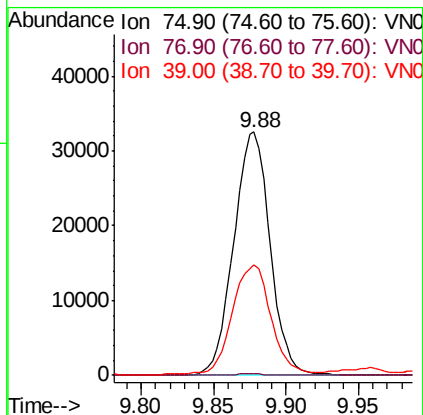
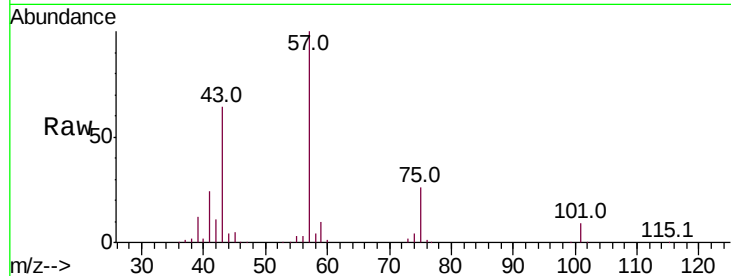


#54

cis-1,3-Dichloropropene
 Concen: 8.945 ug/l
 RT: 9.88 min Scan# 2531
 Delta R.T. 0.07 min
 Lab File: VN064557.D
 Acq: 11 Nov 2020 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132934ZHE#01

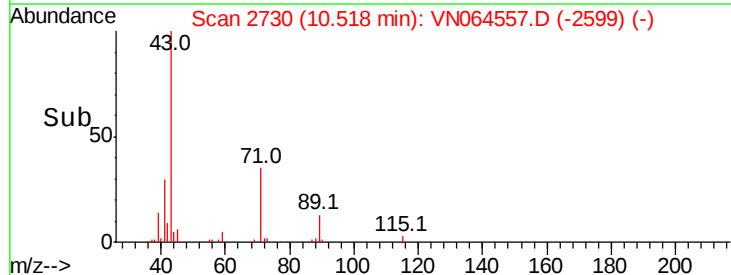
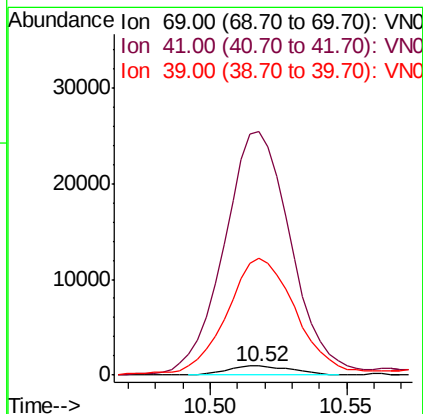
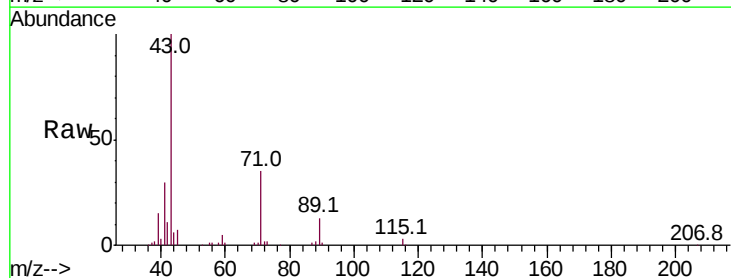
Tot Ion: 75 Resp: 56537
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.9 37.3#
 39 44.8 47.1 70.7#

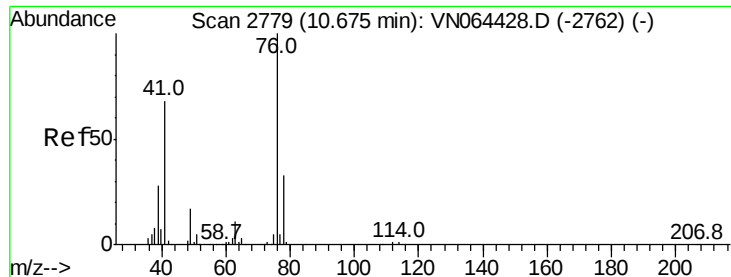


#56

Ethyl methacrylate
 Concen: 2.107 ug/l
 RT: 10.52 min Scan# 2730
 Delta R.T. 0.12 min
 Lab File: VN064557.D
 Acq: 11 Nov 2020 16:02

Tgt Ion: 69 Resp: 1593
 Ion Ratio Lower Upper
 69 100
 41 2743.8 59.3 88.9#
 39 1372.5 35.4 53.0#





#57

1,3-Dichloropropane

Concen: 5.211 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

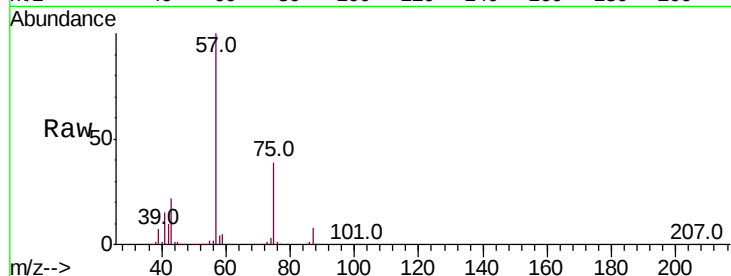
PB132934ZHE#01

Tot Ion: 76 Resp: 31943

Ion Ratio Lower Upper

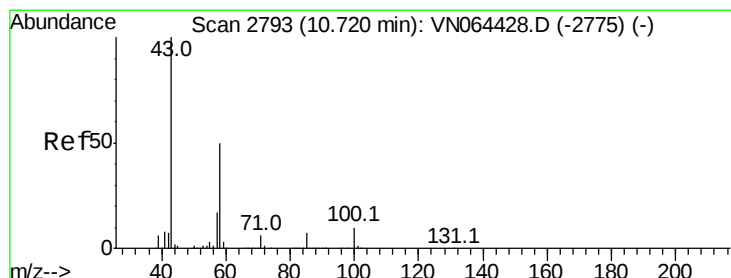
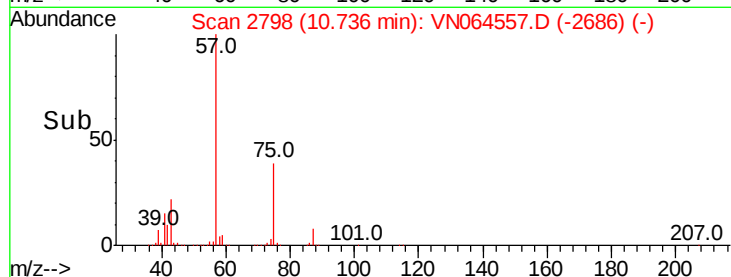
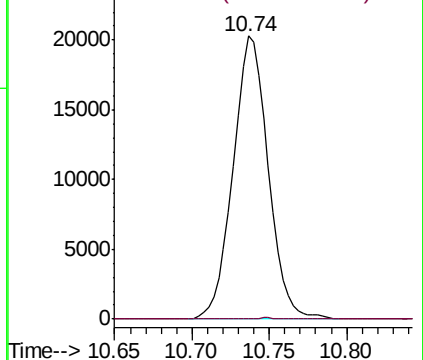
76 100

78 0.2 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 136.340 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064557.D

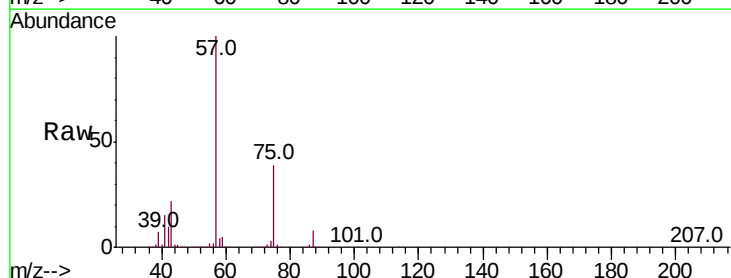
Acq: 11 Nov 2020 16:02

Tgt Ion: 43 Resp: 520686

Ion Ratio Lower Upper

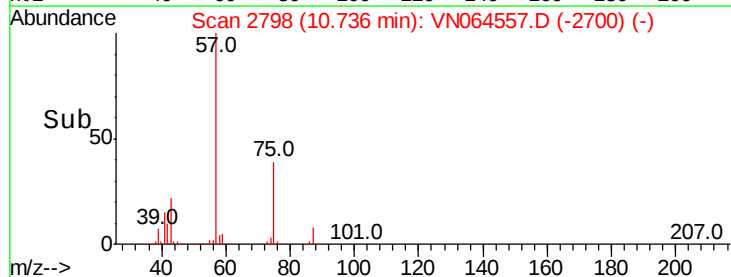
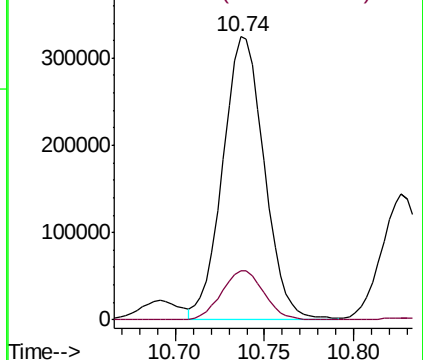
43 100

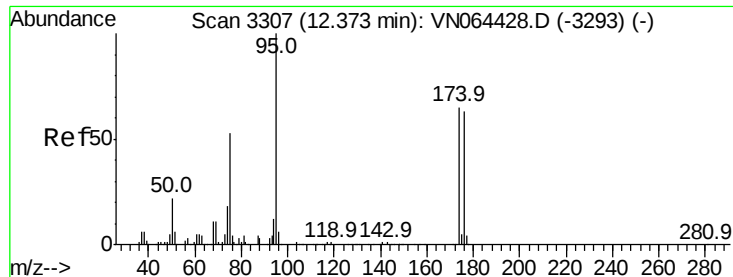
58 17.9 24.7 74.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.530 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

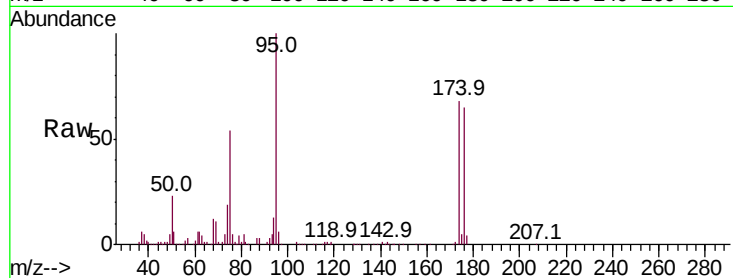
Tot Ion: 95 Resp: 248624

Ion Ratio Lower Upper

95 100

174 68.8 0.0 132.6

176 65.7 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

200000

Ion 173.80 (173.50 to 174.50): VN064428.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064428.D (-3293) (-)

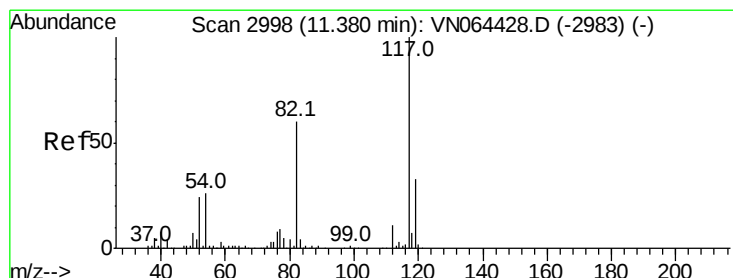
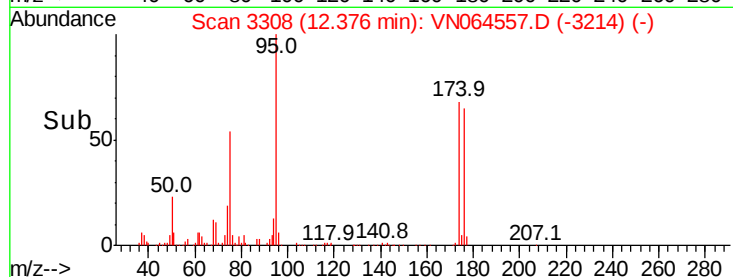
12.38

150000

100000

50000

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

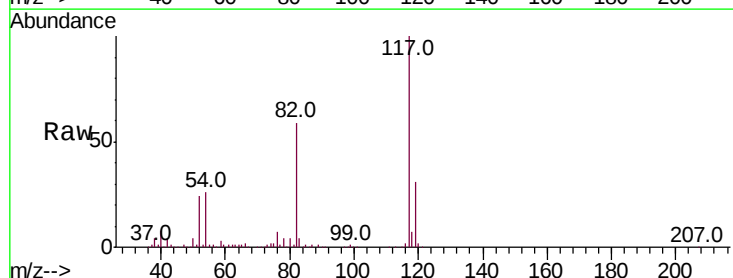
Tgt Ion: 117 Resp: 539817

Ion Ratio Lower Upper

117 100

82 58.7 48.1 72.1

119 31.3 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

400000

Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064428.D (-2983) (-)

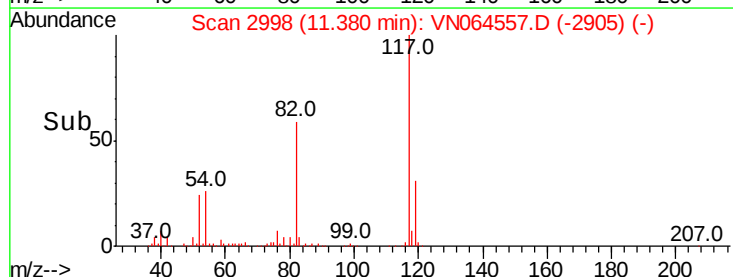
11.38

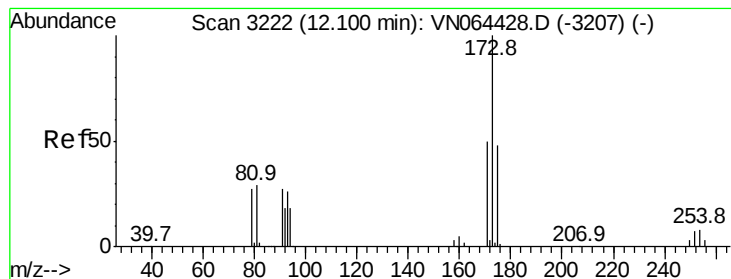
300000

200000

100000

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 1.605 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

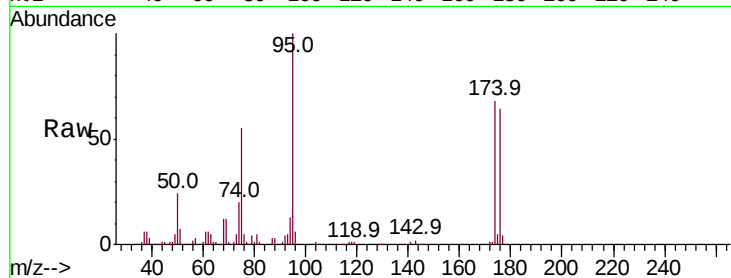
Tot Ion:173 Resp: 1123

Ion Ratio Lower Upper

173 100

175 908.3 23.7 71.1#

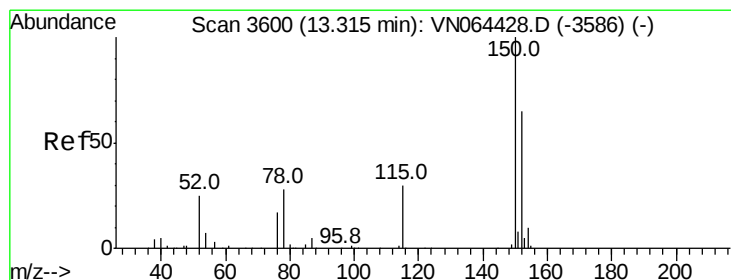
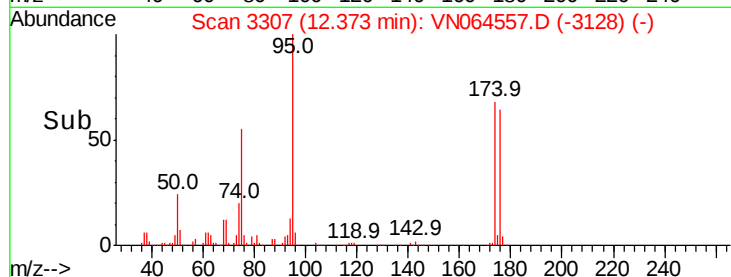
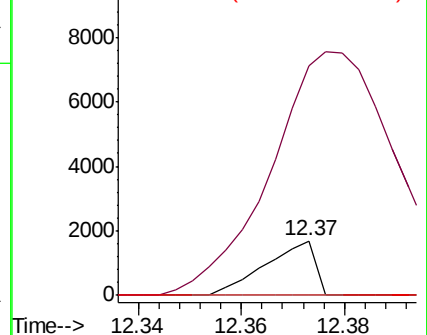
254 0.0 0.0 0.0



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: VN064557.D

Acq: 11 Nov 2020 16:02

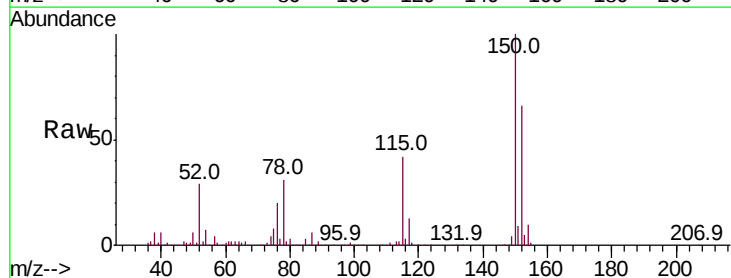
Tgt Ion:152 Resp: 195279

Ion Ratio Lower Upper

152 100

115 64.5 32.0 96.0

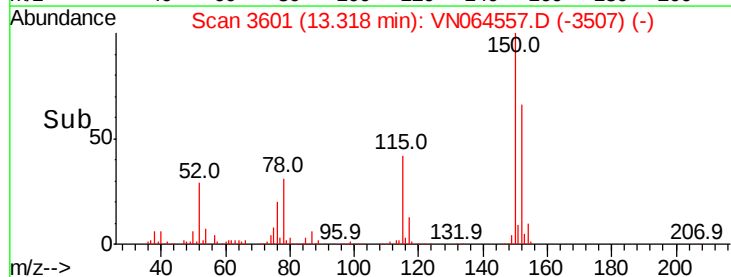
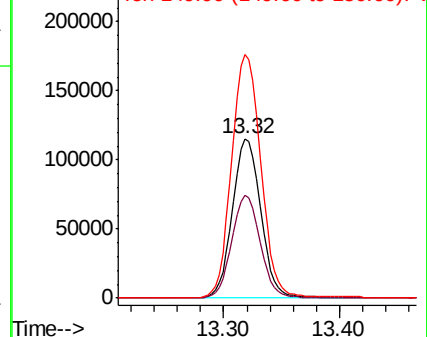
150 156.7 0.0 353.8

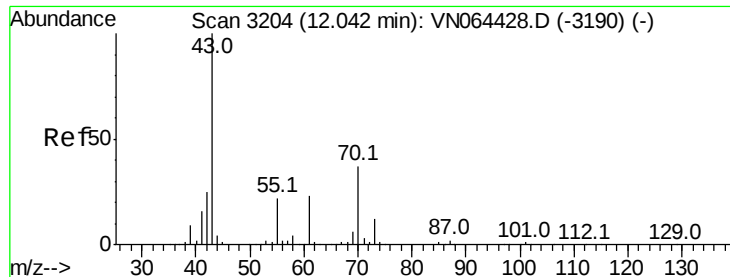


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 5.150 ug/l

RT: 11.85 min Scan# 3145

Delta R.T. -0.19 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

Tot Ion: 43 Resp: 30368

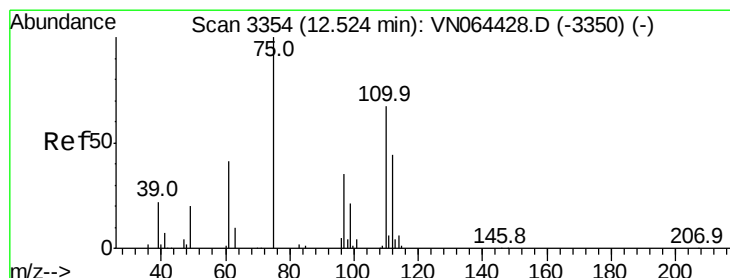
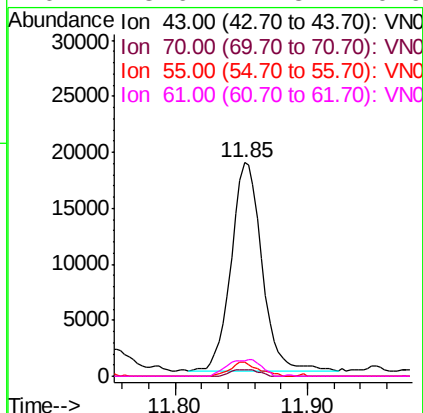
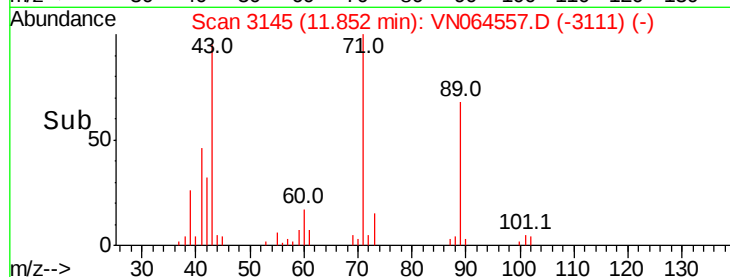
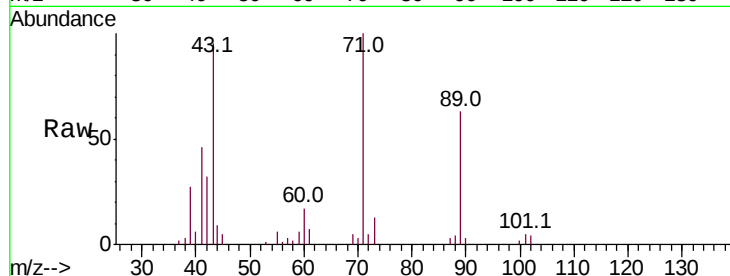
Ion Ratio Lower Upper

43 100

70 3.0 29.6 44.4#

55 6.1 18.4 27.6#

61 8.6 17.8 26.6#



#76

1,2,3-Trichloropropane

Concen: 28.991 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064557.D

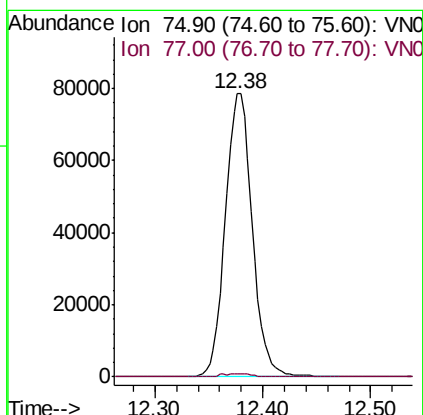
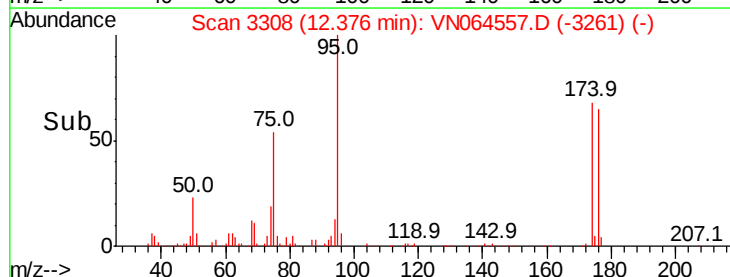
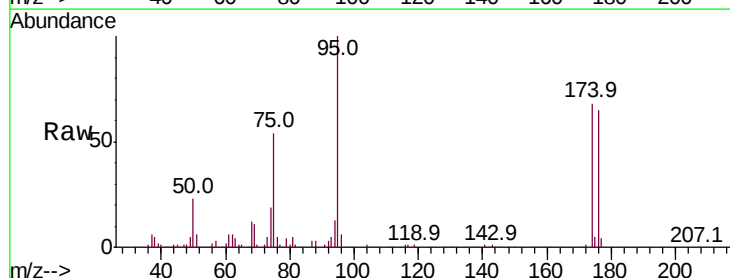
Acq: 11 Nov 2020 16:02

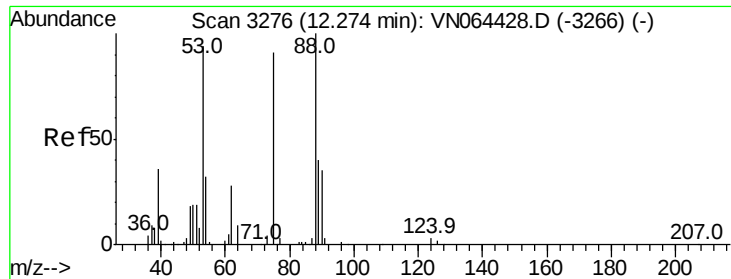
Tgt Ion: 75 Resp: 137169

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 80.946 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064557.D

Acq: 11 Nov 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB132934ZHE#01

Tot Ion: 75 Resp: 137169

Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#

