

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\
 Data File : VN064757.D
 Acq On : 20 Nov 2020 3:55
 Operator : JC/MD
 Sample : L4800-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Nov 20 06:48:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	299662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	602602	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	631166	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	266727	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	253561	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	7.55	113	199945	58.30	ug/l	0.00
Spiked Amount			Recovery	=	116.60%	
50) Toluene-d8	10.06	98	766645	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
62) 4-Bromofluorobenzene	12.38	95	294418	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	

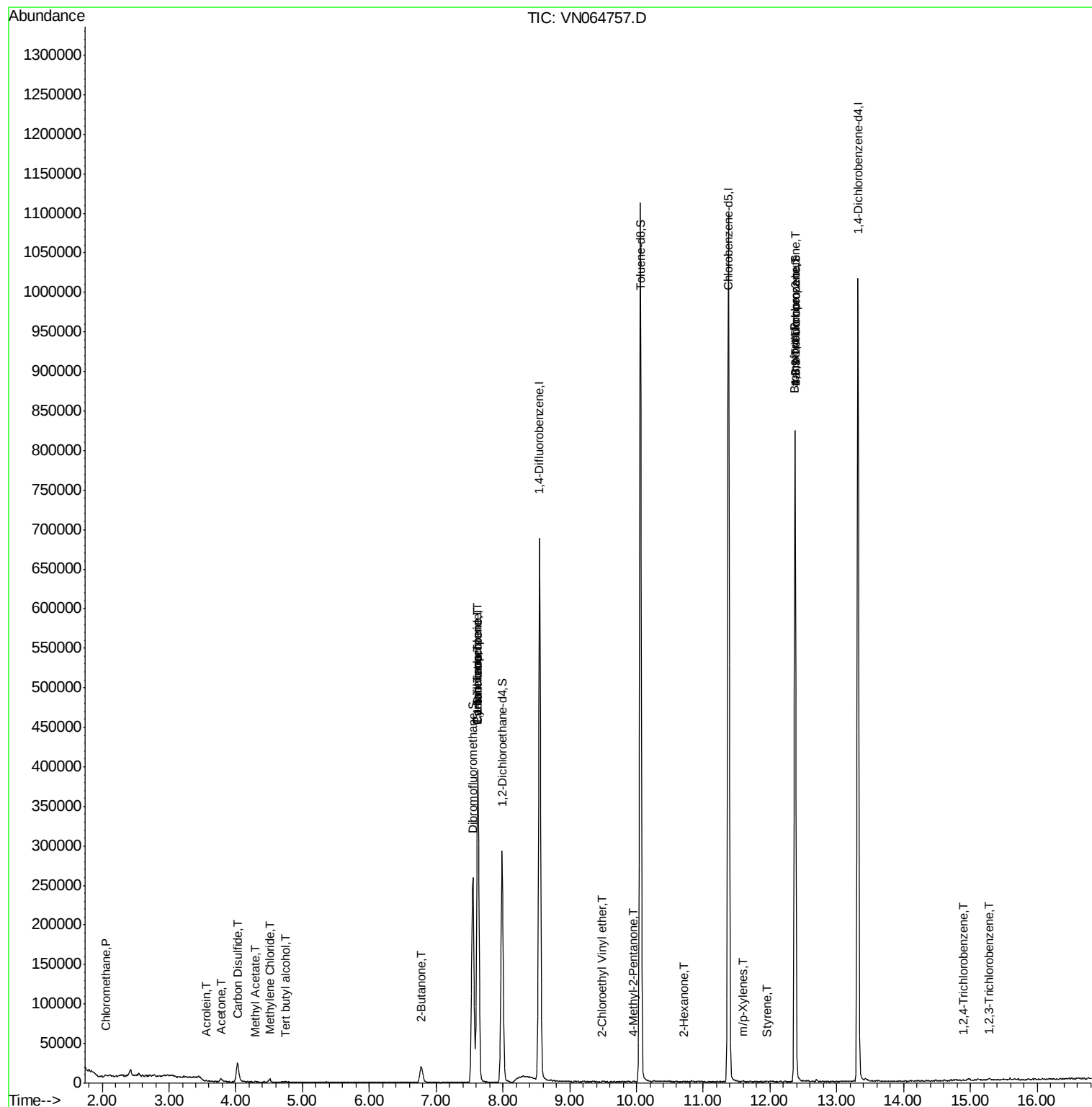
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.05	50	904	0.218	ug/l	92
11) Tert butyl alcohol	4.74	59	400	0.782	ug/l #	70
13) Acrolein	3.56	56	115	0.960	ug/l #	11
16) Acetone	3.78	43	6200	9.827	ug/l #	89
17) Carbon Disulfide	4.02	76	938	0.231	ug/l #	75
18) Methyl Acetate	4.28	43	809	1.538	ug/l #	70
20) Methylene Chloride	4.50	84	2535	0.649	ug/l #	81
25) 2-Butanone	6.79	43	975	0.484	ug/l #	51
31) Cyclohexane	7.62	56	7495	1.315	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	26754	4.315	ug/l #	53
38) Carbon Tetrachloride	7.62	117	31894	4.841	ug/l #	16
51) 4-Methyl-2-Pentanone	9.96	43	753	6.250	ug/l #	39
58) 2-Chloroethyl Vinyl ether	9.47	63	67	13.289	ug/l #	49
59) 2-Hexanone	10.71	43	103	8.462	ug/l #	28
68) m/p-Xylenes	11.59	106	204	4.082	ug/l #	55
70) Styrene	11.95	104	205	2.549	ug/l #	24
71) Bromoform	12.36	173	286	2.516	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	149952	26.092	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	149952	66.712	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.90	180	179	1.369	ug/l #	26
94) Hexachlorobutadiene	14.99	225	479	Below Cal	#	65
96) 1,2,3-Trichlorobenzene	15.28	180	181	0.798	ug/l #	1

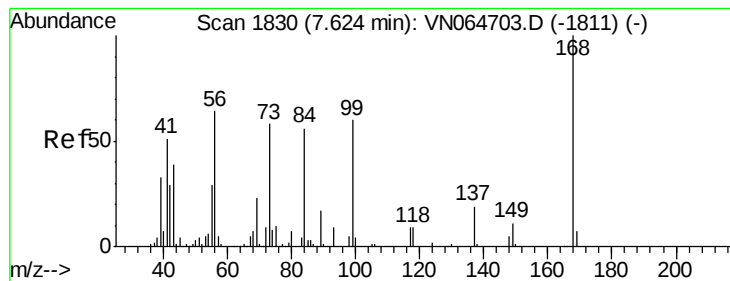
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 18 15:29:54 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: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampleId :

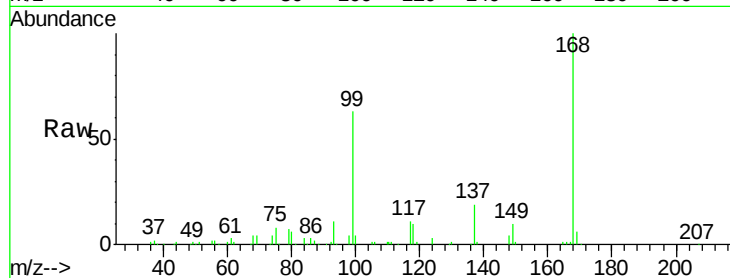
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Tot Ion:168 Resp: 299662

Ion Ratio Lower Upper

168 100

99 63.4 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

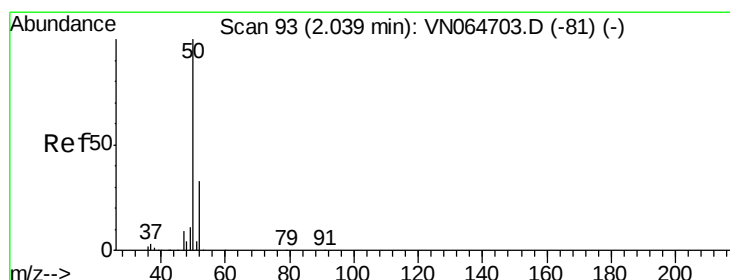
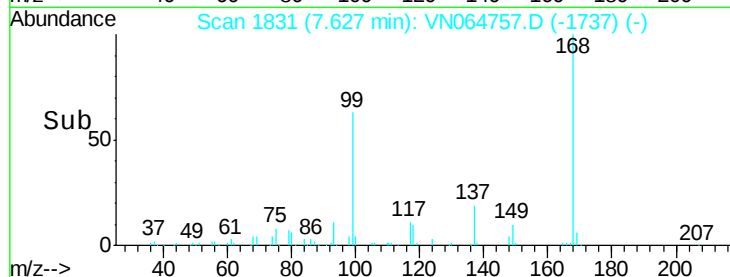
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.218 ug/l

RT: 2.05 min Scan# 95

Delta R.T. 0.01 min

Lab File: VN064757.D

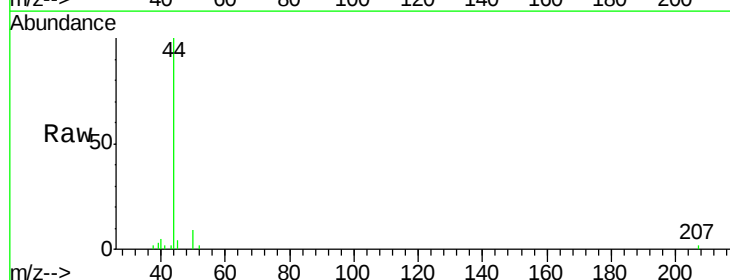
Acq: 20 Nov 2020 3:55

Tgt Ion: 50 Resp: 904

Ion Ratio Lower Upper

50 100

52 28.7 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.05

800

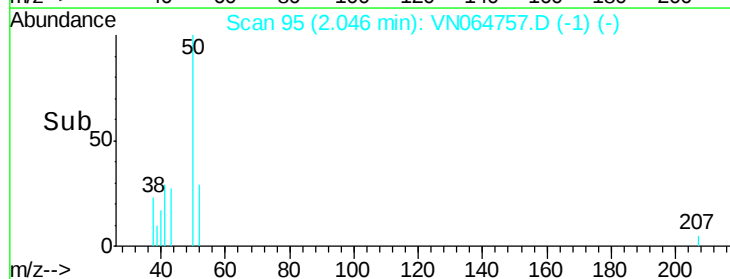
600

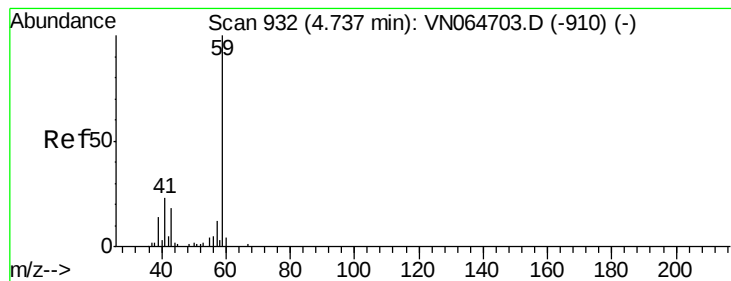
400

200

0

Time--> 2.00 2.02 2.04 2.06



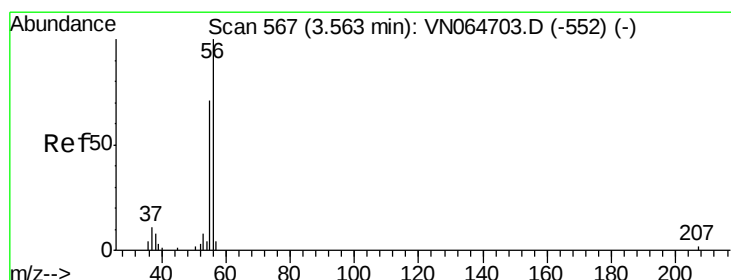
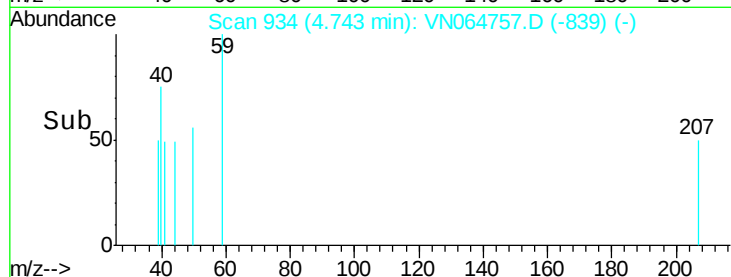
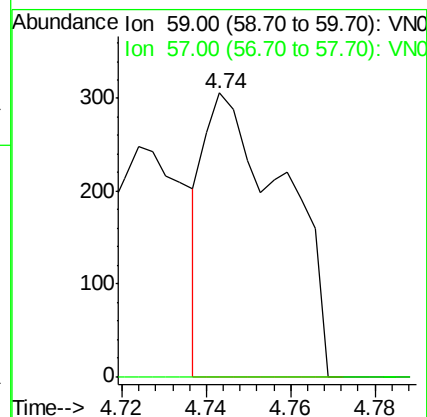
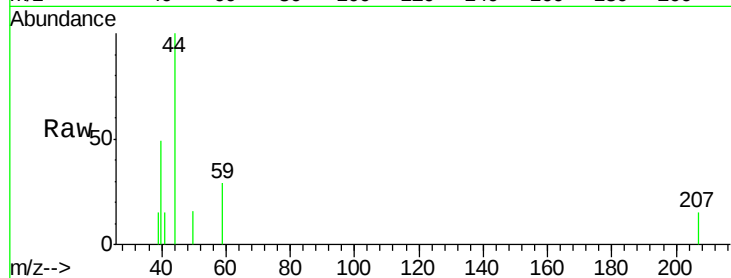


#11

Tert butyl alcohol
 Concen: 0.782 ug/l
 RT: 4.74 min Scan# 934
 Delta R.T. 0.01 min
 Lab File: VN064757.D
 Acq: 20 Nov 2020 3:55

Instrument :
 MSVOA_N
 ClientSampleId :
 FIELD-BLANK

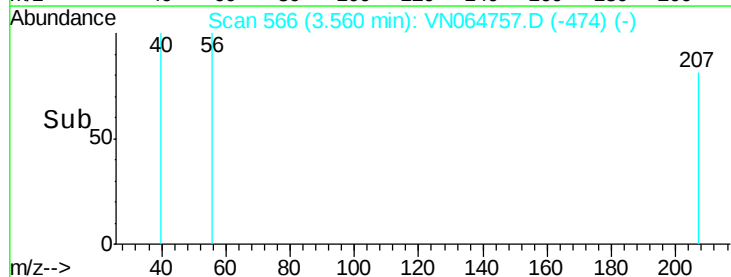
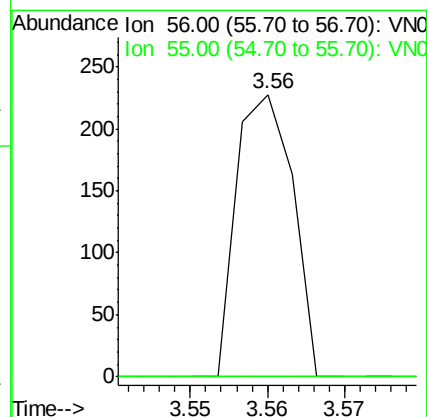
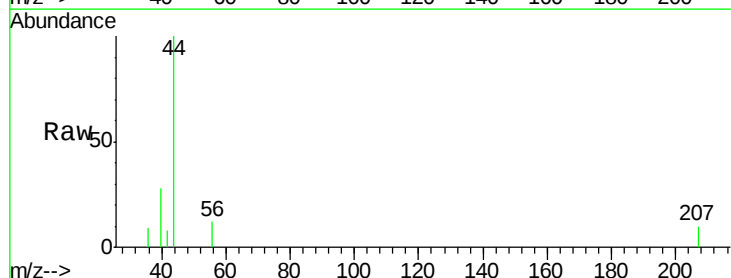
Tot Ion: 59 Resp: 400
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#

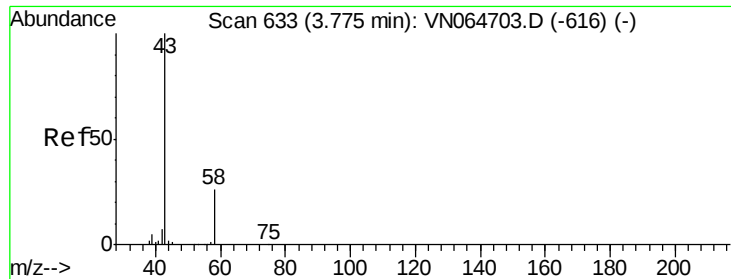


#13

Acrolein
 Concen: 0.960 ug/l
 RT: 3.56 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VN064757.D
 Acq: 20 Nov 2020 3:55

Tgt Ion: 56 Resp: 115
 Ion Ratio Lower Upper
 56 100
 55 0.0 61.8 92.6#





#16

Acetone

Concen: 9.827 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampleId :

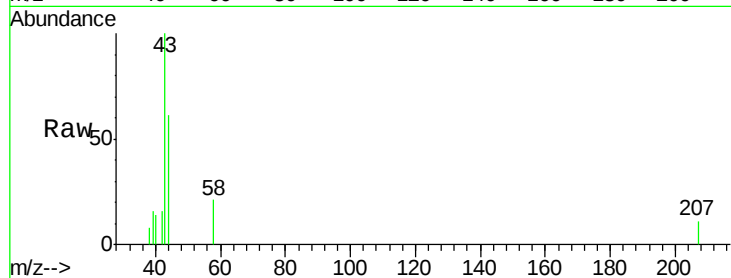
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Tot Ion: 43 Resp: 6200

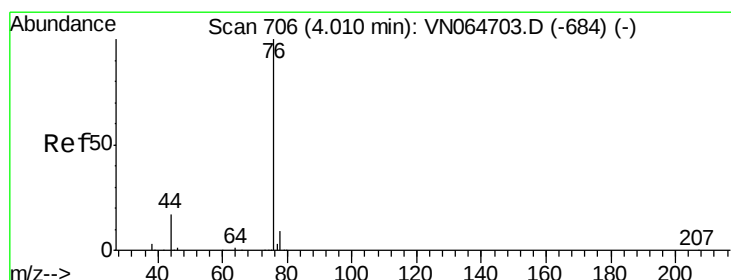
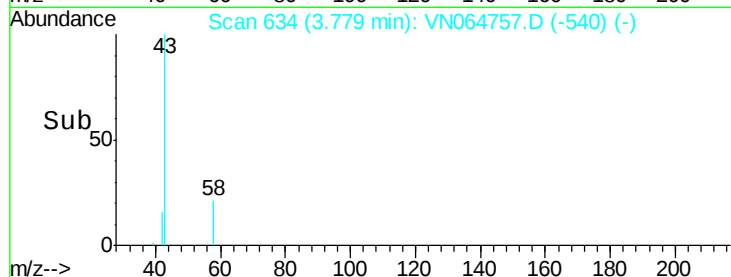
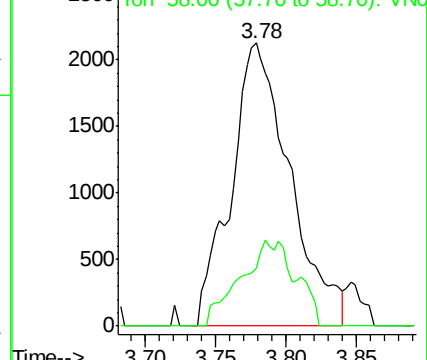
Ion Ratio Lower Upper

43 100

58 20.7 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VN064703.D (-616) (-)



#17

Carbon Disulfide

Concen: 0.231 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.01 min

Lab File: VN064757.D

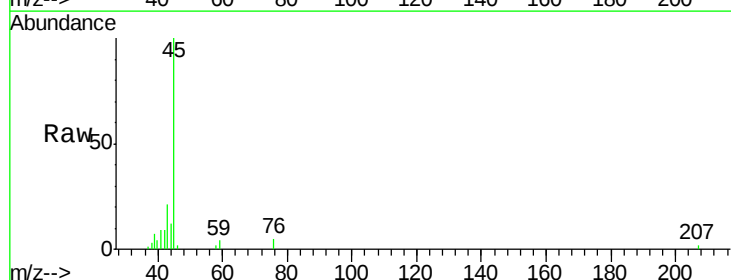
Acq: 20 Nov 2020 3:55

Tgt Ion: 76 Resp: 938

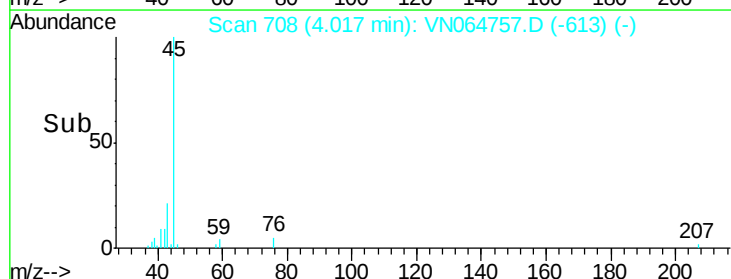
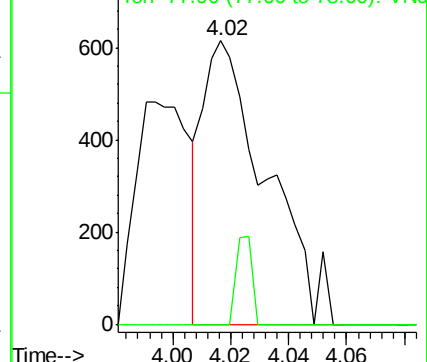
Ion Ratio Lower Upper

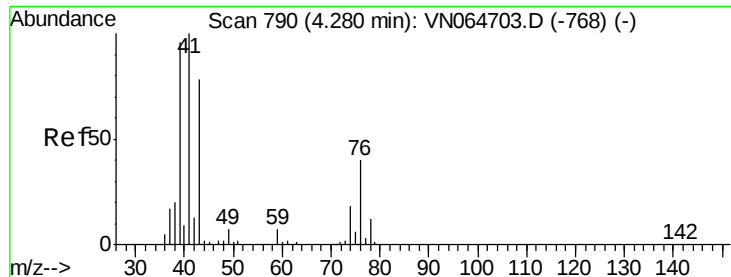
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN064703.D (-684) (-)





#18

Methyl Acetate

Concen: 1.538 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampled :

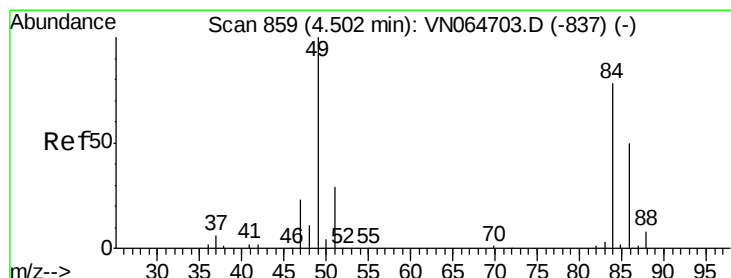
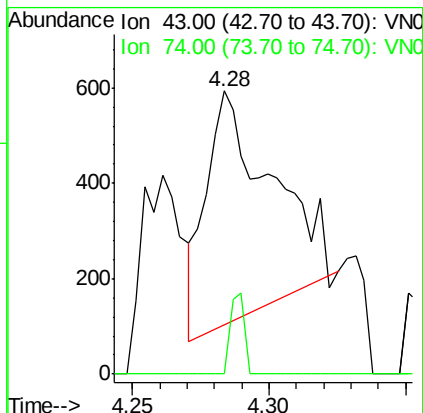
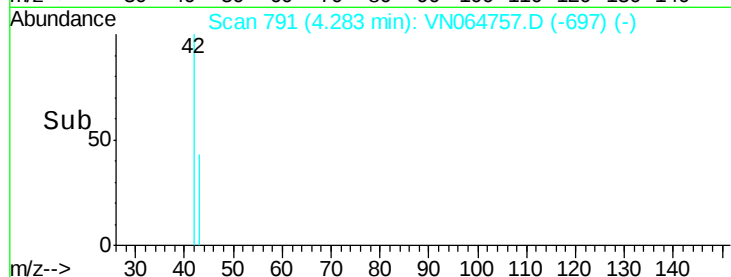
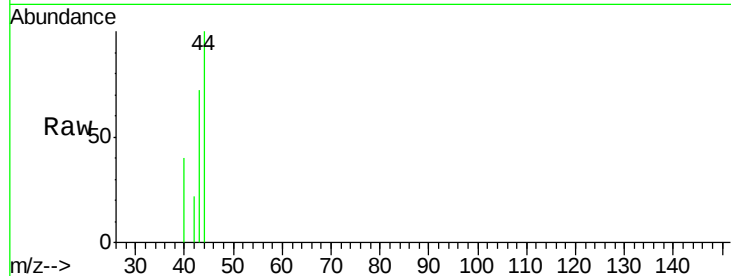
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Tot Ion: 43 Resp: 809

Ion Ratio Lower Upper

43 100

74 7.8 17.6 26.4#



#20

Methylene Chloride

Concen: 0.649 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Tgt Ion: 84 Resp: 2535

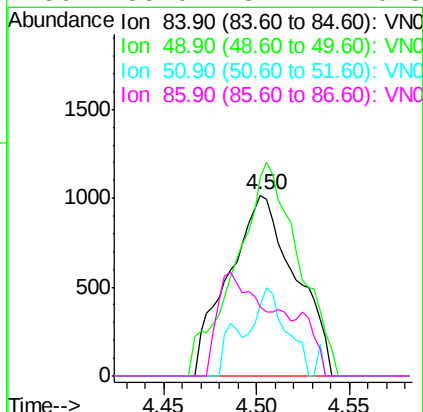
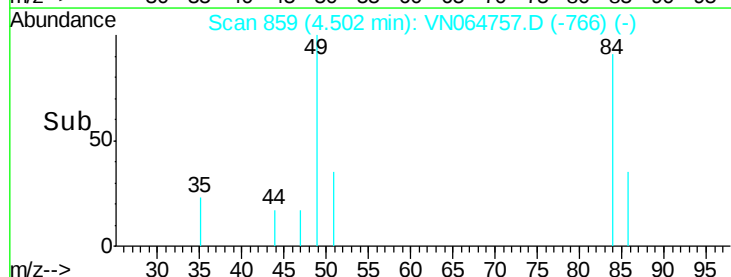
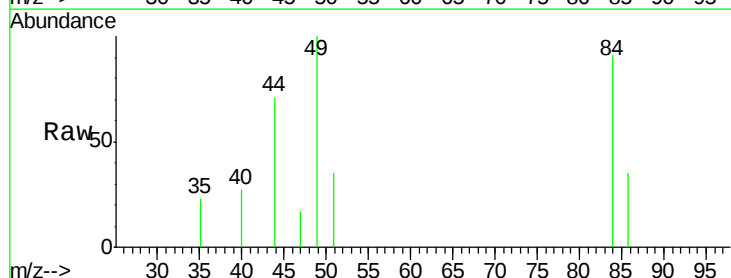
Ion Ratio Lower Upper

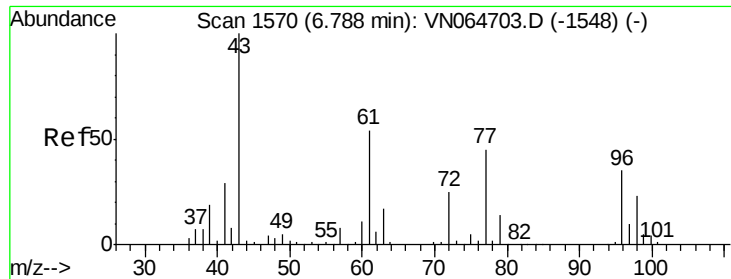
84 100

49 109.6 102.4 153.6

51 38.8 29.4 44.2

86 38.0 51.2 76.8#

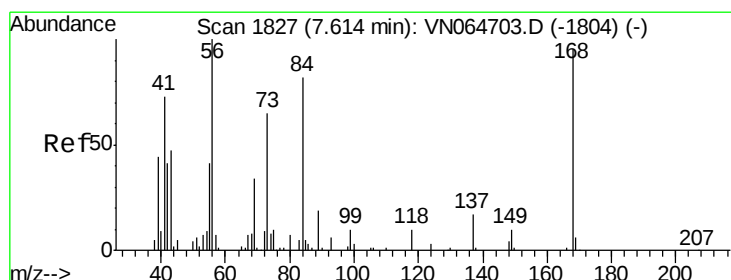
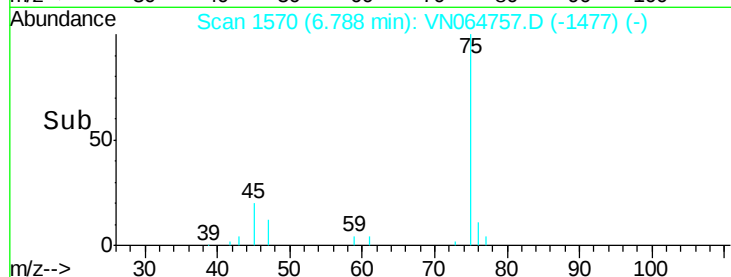
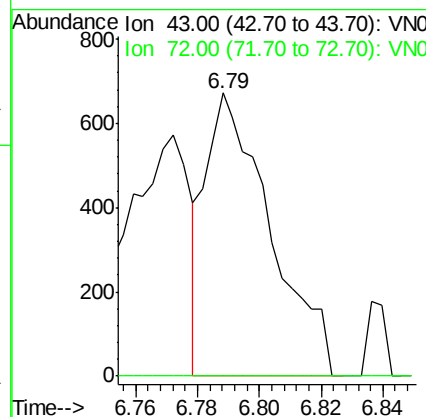
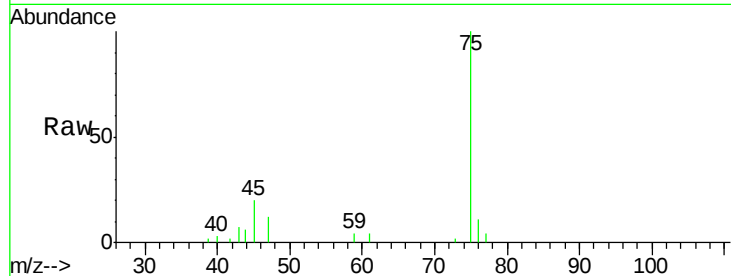




#25
2-Butanone
Concen: 0.484 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN064757.D
Acq: 20 Nov 2020 3:55

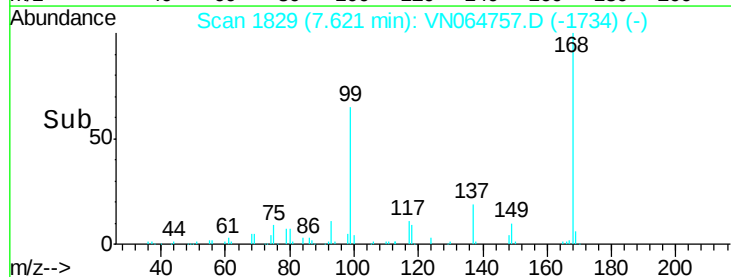
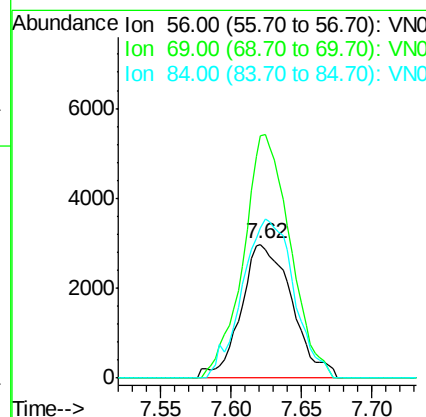
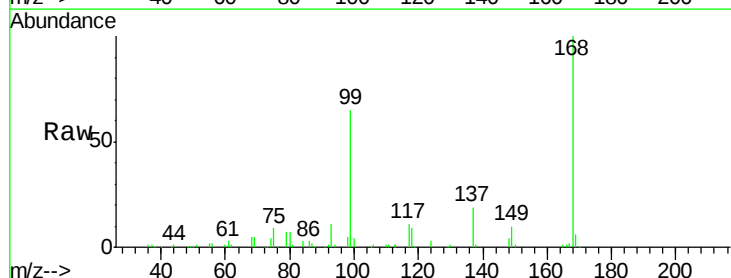
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MSVOA_N
ClientSampled :
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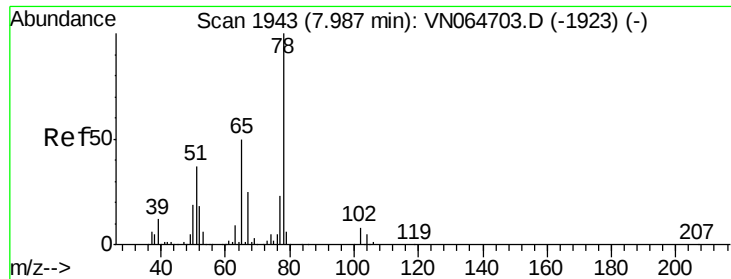
Tot Ion: 43 Resp: 975
Ion Ratio Lower Upper
43 100
72 0.0 19.7 29.5#



#31
Cyclohexane
Concen: 1.315 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064757.D
Acq: 20 Nov 2020 3:55

Tgt Ion: 56 Resp: 7495
Ion Ratio Lower Upper
56 100
69 181.6 27.2 40.8#
84 112.6 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 48.100 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampleId :

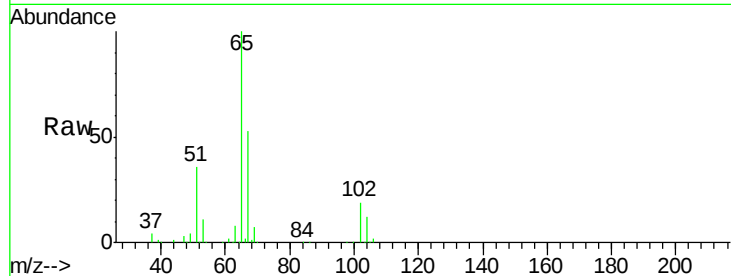
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Tot Ion: 65 Resp: 253561

Ion Ratio Lower Upper

65 100

67 52.9 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VN064757.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064757.D (-1850) (-)

7.99

120000

100000

80000

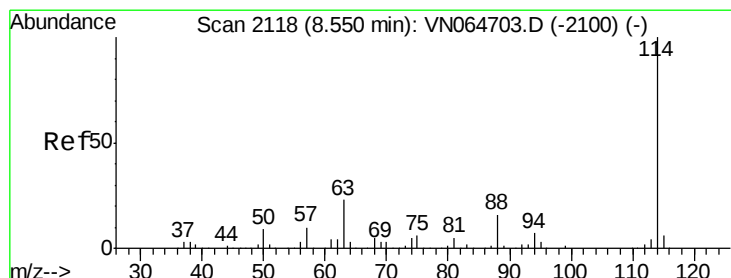
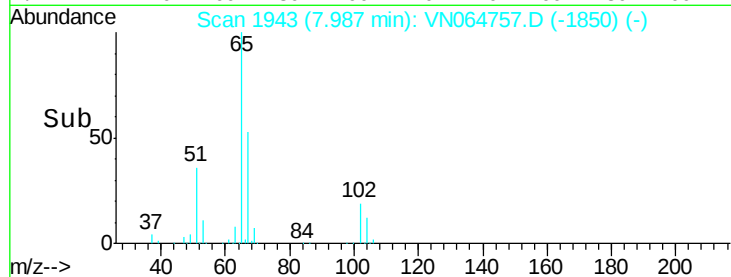
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

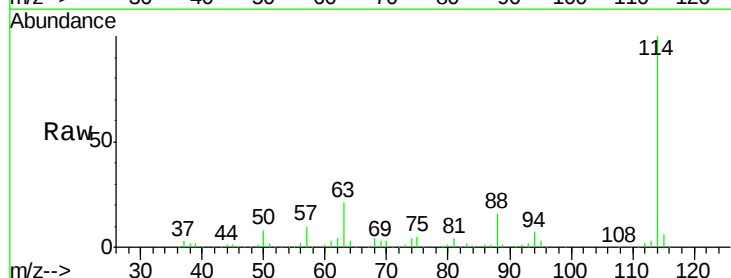
Tgt Ion: 114 Resp: 602602

Ion Ratio Lower Upper

114 100

63 21.3 0.0 46.0

88 15.7 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN064757.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN064757.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN064757.D (-2025) (-)

8.55

400000

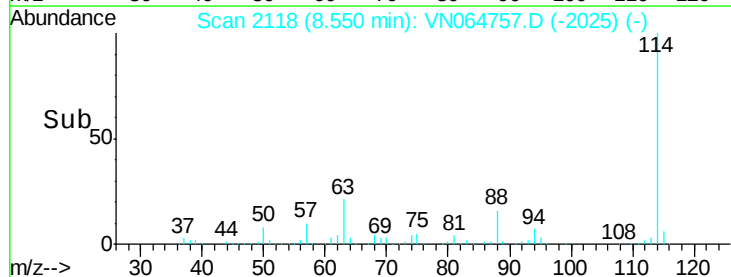
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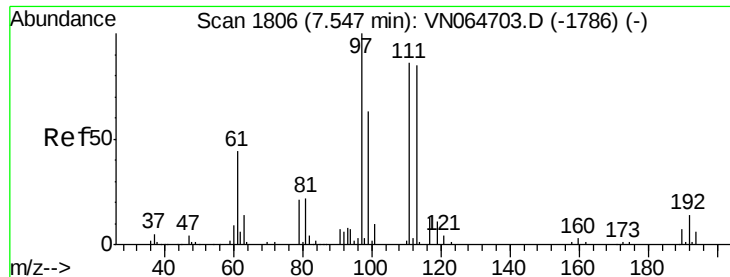
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 58.296 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

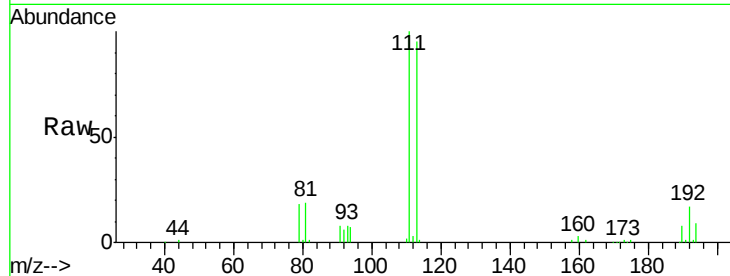
Tot Ion:113 Resp: 199945

Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.4

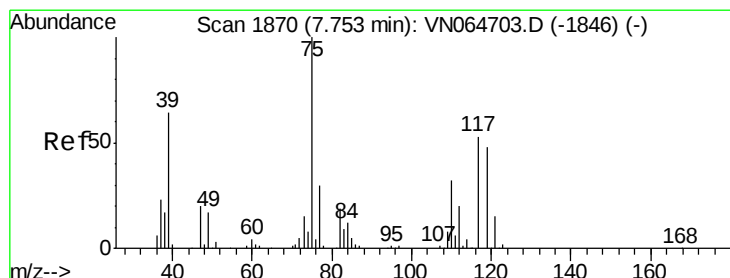
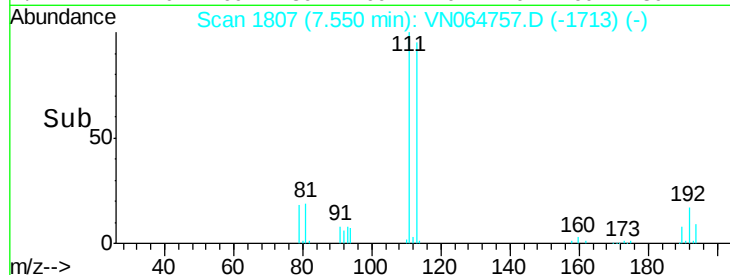
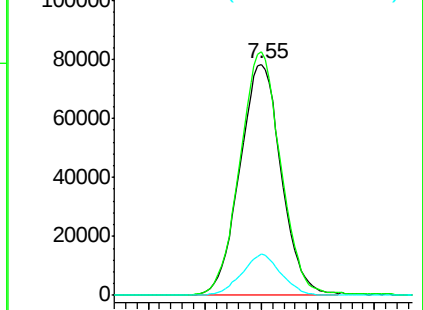
192 16.9 12.7 19.1



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: 4.315 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

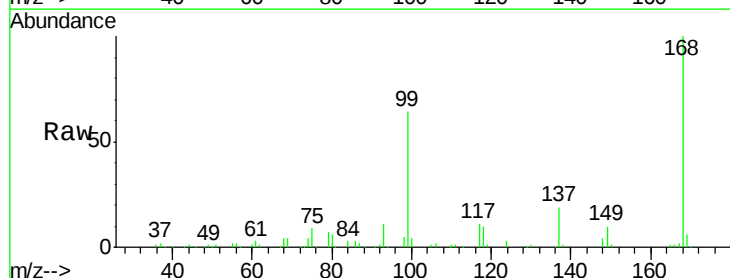
Tgt Ion: 75 Resp: 26754

Ion Ratio Lower Upper

75 100

110 10.3 16.2 48.6#

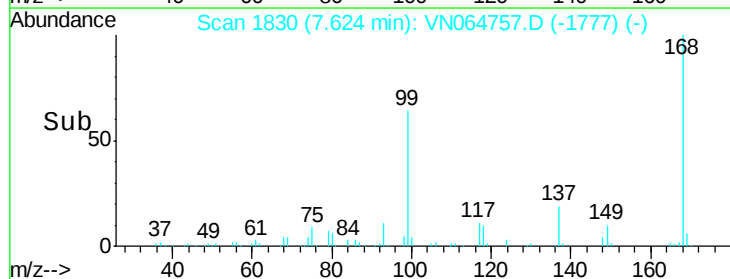
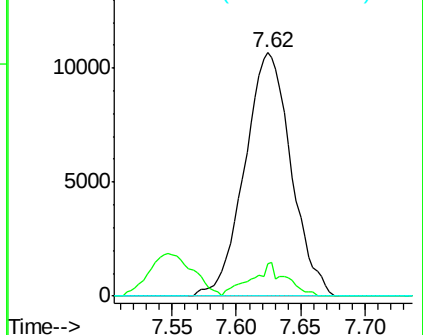
77 0.0 24.4 36.6#

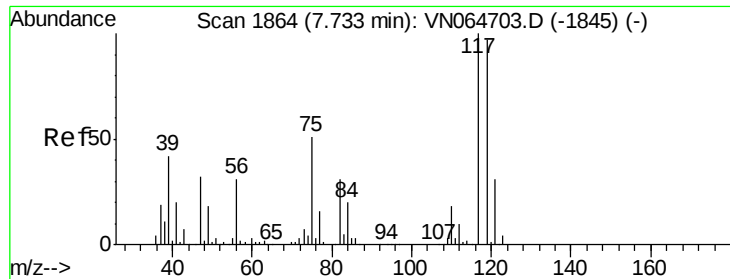


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.841 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampled :

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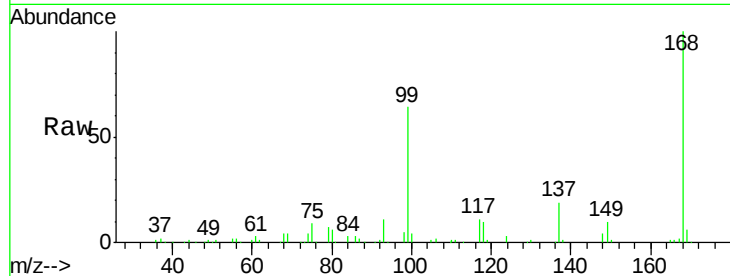
Tot Ion:117 Resp: 31894

Ion Ratio Lower Upper

117 100

119 5.3 77.8 116.6#

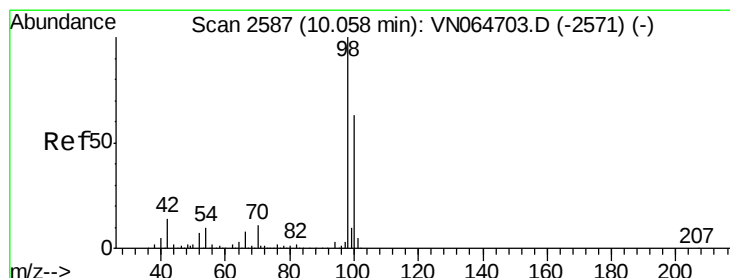
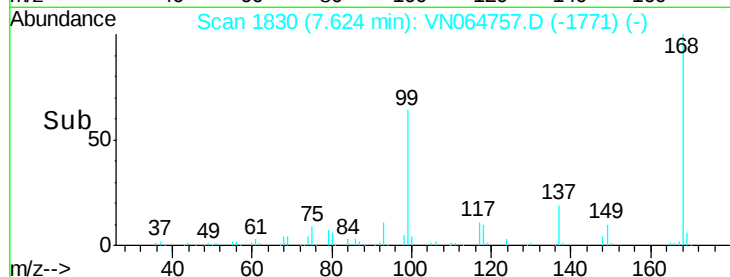
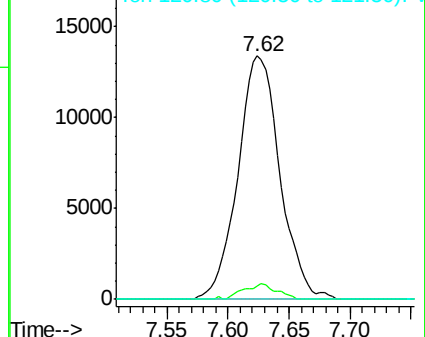
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.181 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064757.D

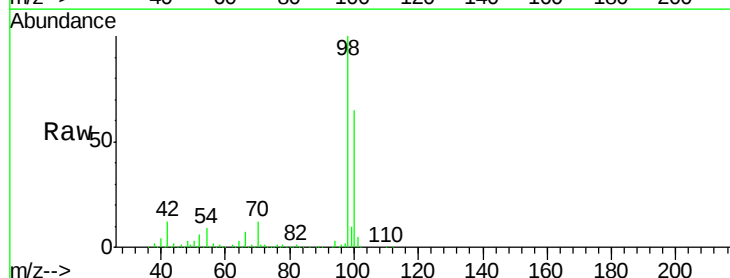
Acq: 20 Nov 2020 3:55

Tgt Ion: 98 Resp: 766645

Ion Ratio Lower Upper

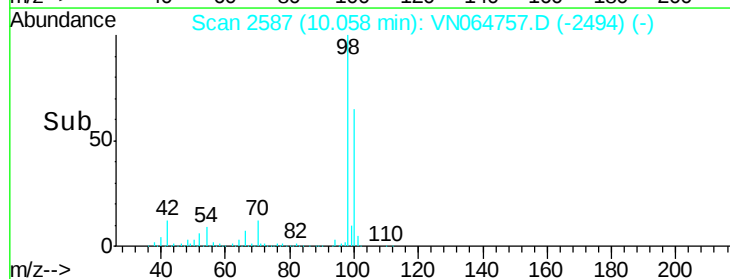
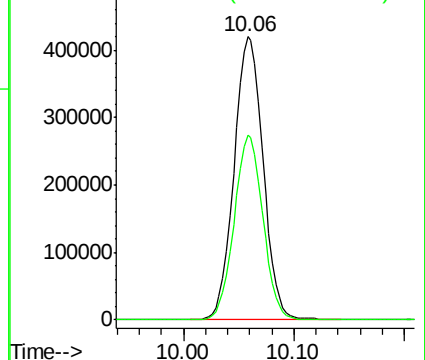
98 100

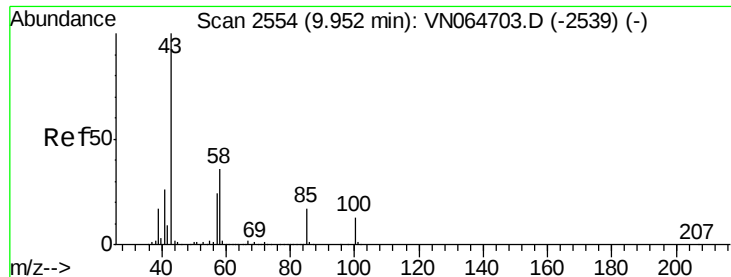
100 64.4 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

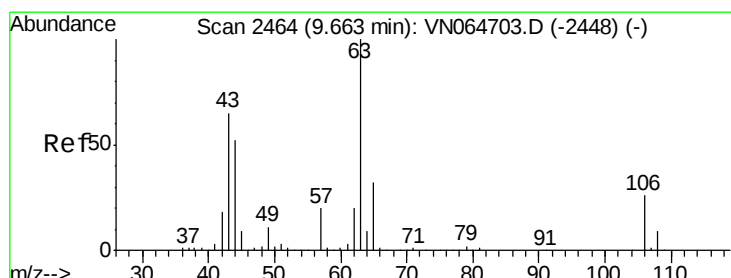
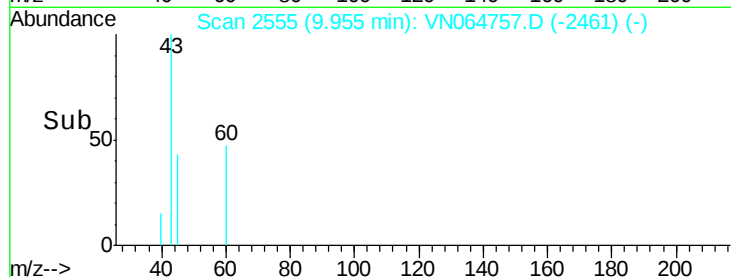
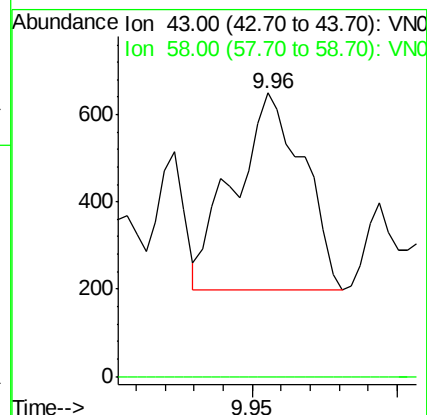
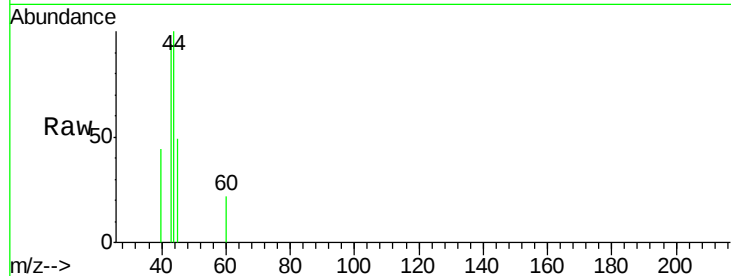




#51
 4-Methyl-2-Pentanone
 Concen: 6.250 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064757.D
 Acq: 20 Nov 2020 3:55

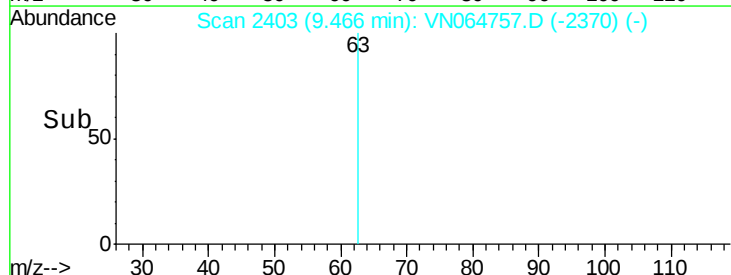
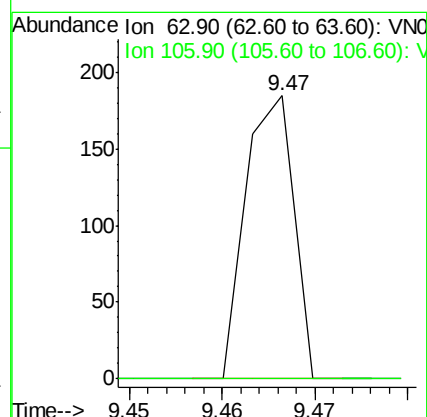
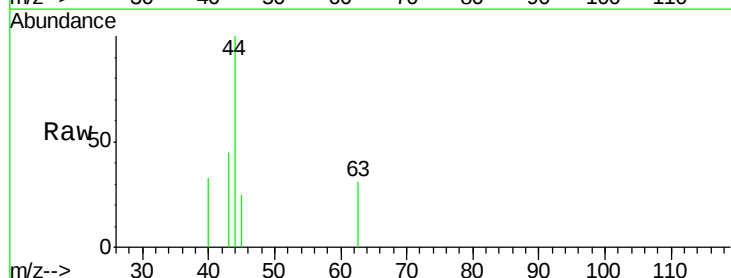
Instrument :
 MSVOA_N
 ClientSampled :
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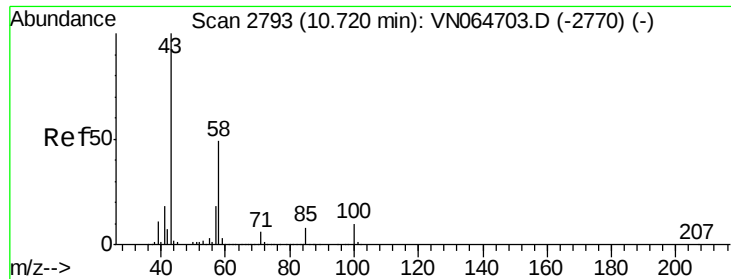
Tot Ion: 43 Resp: 753
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.5 42.7#



#58
 2-Chloroethyl Vinyl ether
 Concen: 13.289 ug/l
 RT: 9.47 min Scan# 2403
 Delta R.T. -0.20 min
 Lab File: VN064757.D
 Acq: 20 Nov 2020 3:55

Tgt Ion: 63 Resp: 67
 Ion Ratio Lower Upper
 63 100
 106 0.0 20.9 31.3#





#59

2-Hexanone

Concen: 8.462 ug/l

RT: 10.71 min Scan# 2791

Delta R.T. -0.01 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampleId :

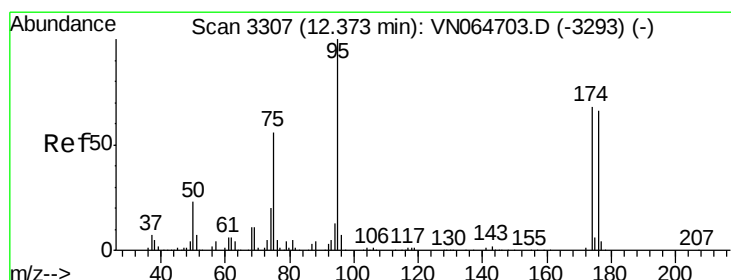
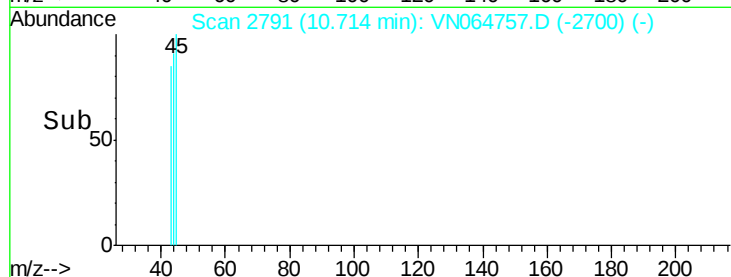
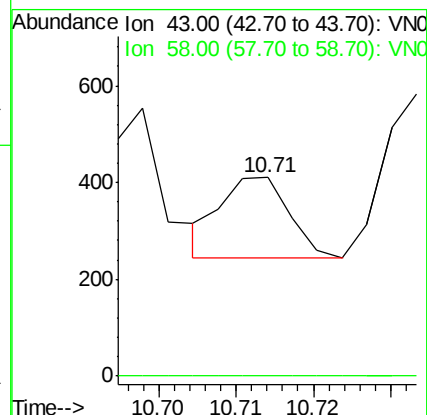
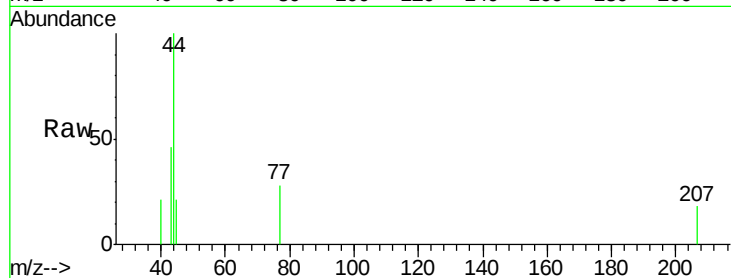
FIELD-BLANK

Tot Ion: 43 Resp: 103

Ion Ratio Lower Upper

43 100

58 0.0 24.4 73.4#



#62

4-Bromofluorobenzene

Concen: 50.531 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

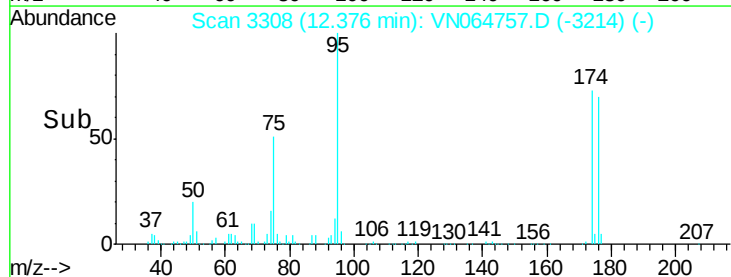
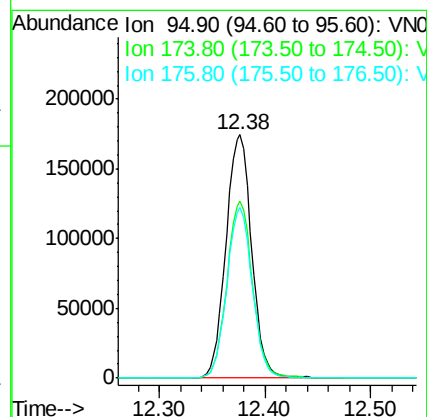
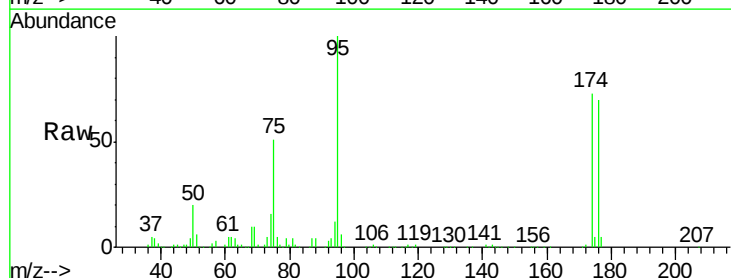
Tgt Ion: 95 Resp: 294418

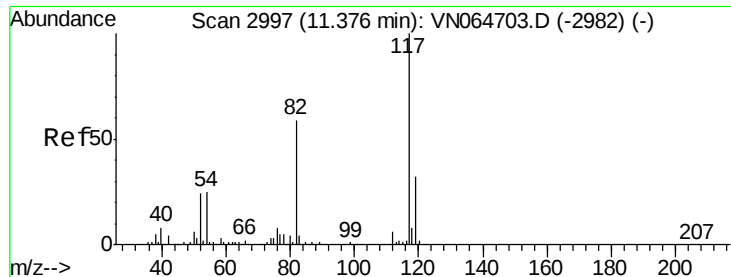
Ion Ratio Lower Upper

95 100

174 72.7 0.0 136.8

176 69.2 0.0 134.2

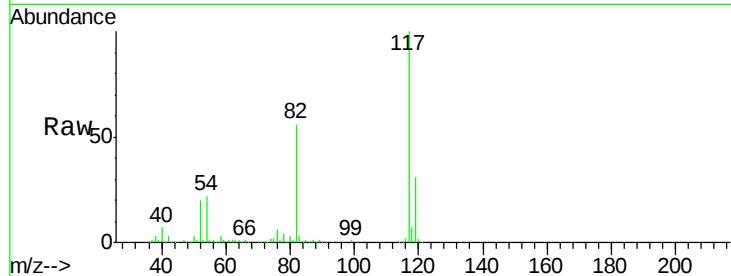




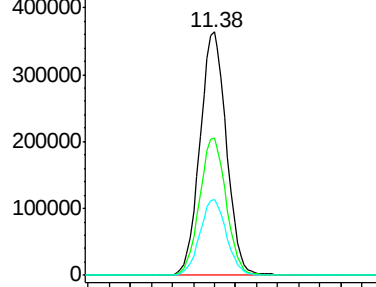
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064757.D
Acq: 20 Nov 2020 3:55

Instrument :
MSVOA_N
ClientSampleId :
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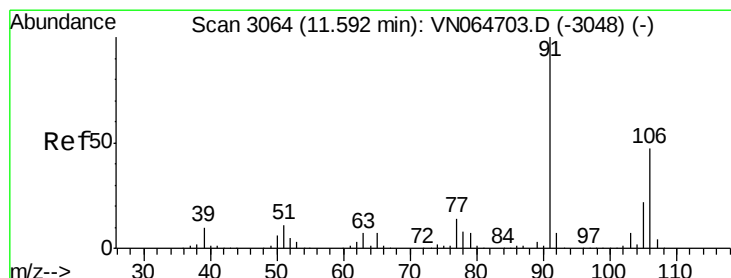
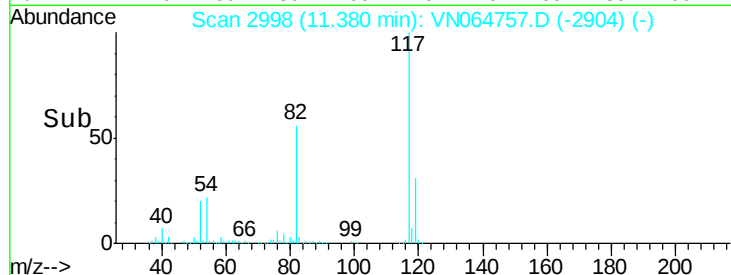
Tot Ion:117 Resp: 631166
Ion Ratio Lower Upper
117 100
82 56.2 47.0 70.6
119 31.0 25.4 38.2



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

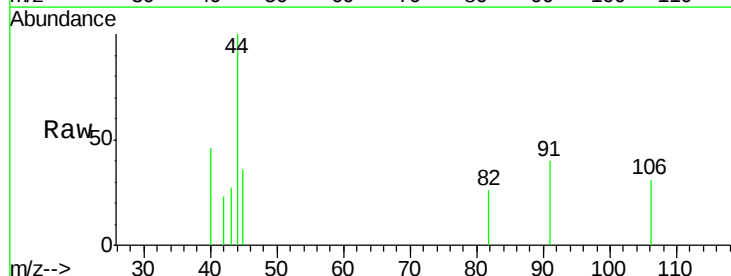


Time-->

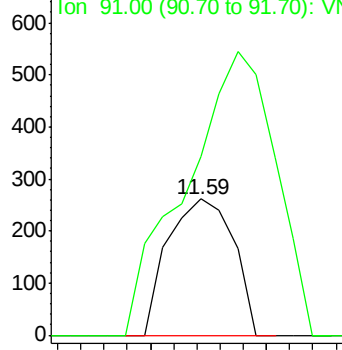


#68
m/p-Xylenes
Concen: 4.082 ug/l
RT: 11.59 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN064757.D
Acq: 20 Nov 2020 3:55

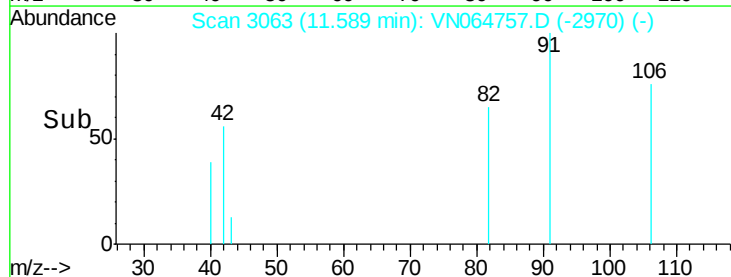
Tgt Ion:106 Resp: 204
Ion Ratio Lower Upper
106 100
91 286.8 171.9 257.9#

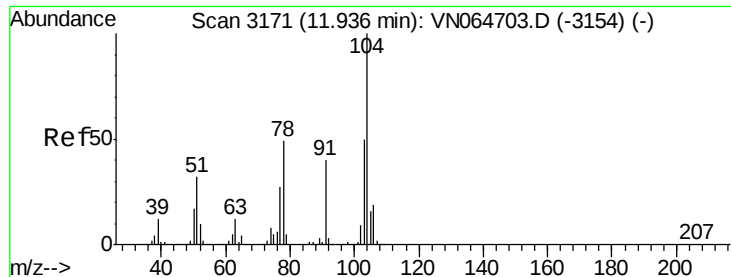


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN



Time-->





#70

Stvrene

Concen: 2.549 ug/l

RT: 11.95 min Scan# 3174

Delta R.T. 0.01 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampled :

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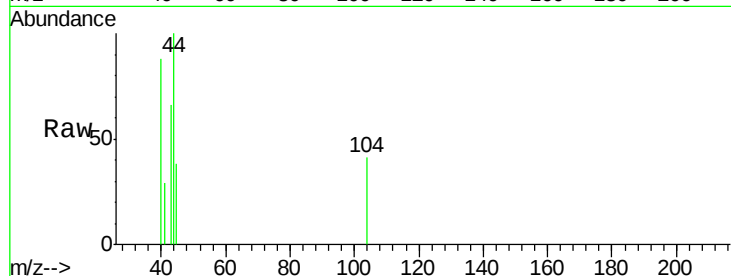
Tot Ion:104 Resp: 205

Ion Ratio Lower Upper

104 100

78 0.0 44.1 66.1#

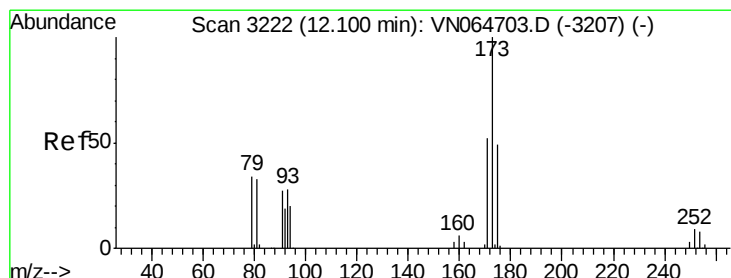
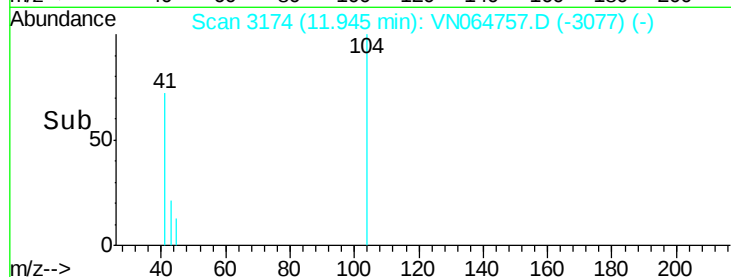
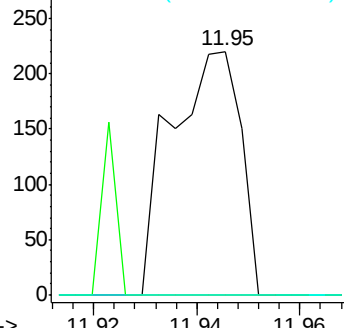
103 0.0 43.7 65.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.516 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

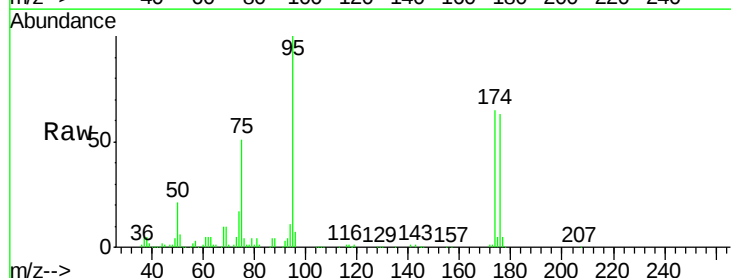
Tgt Ion:173 Resp: 286

Ion Ratio Lower Upper

173 100

175 4730.8 24.3 72.9#

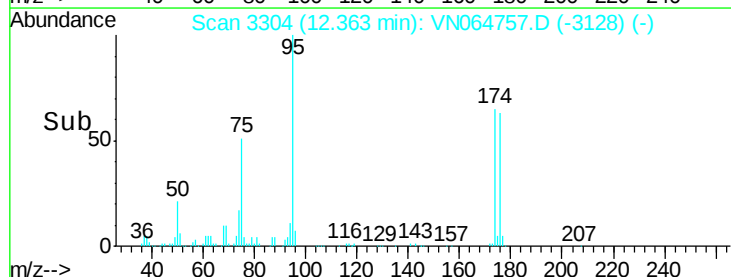
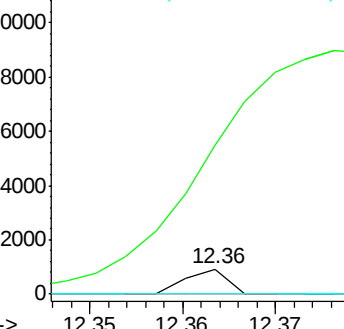
254 0.0 0.1 0.1#

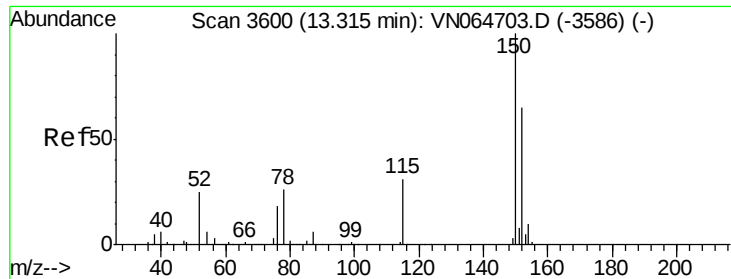


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3600

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampled :

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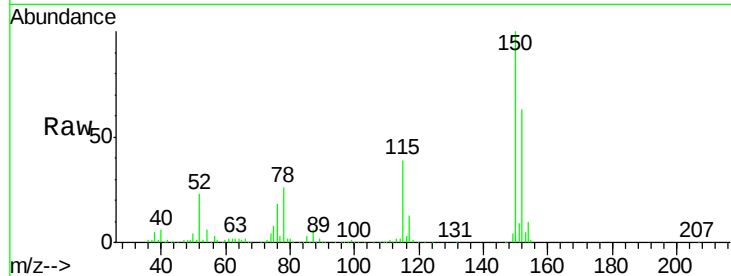
Tot Ion:152 Resp: 266727

Ion Ratio Lower Upper

152 100

115 62.8 32.1 96.3

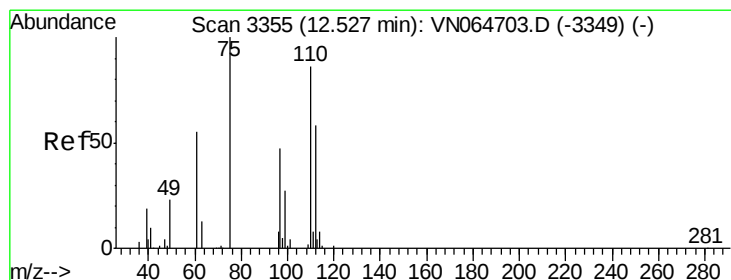
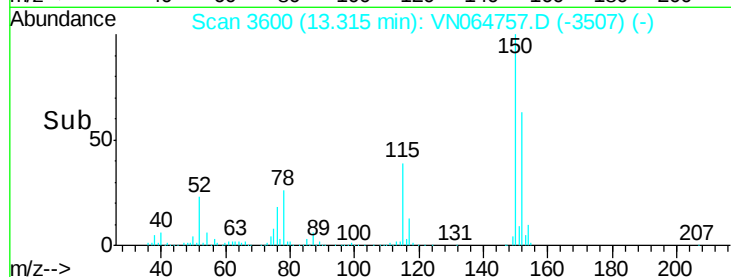
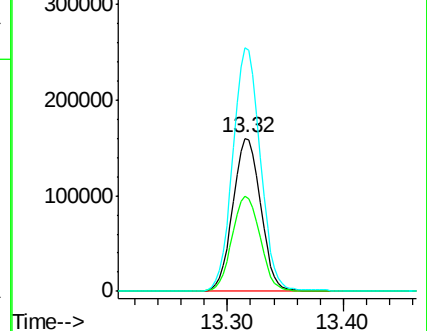
150 156.7 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 26.092 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064757.D

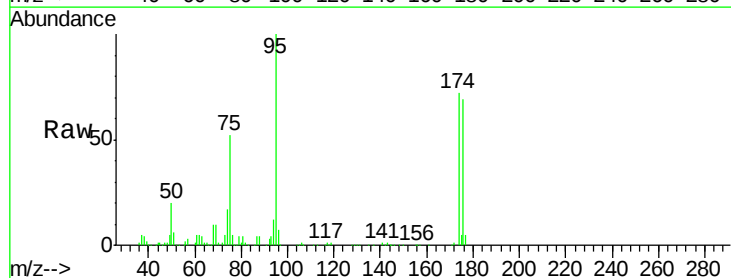
Acq: 20 Nov 2020 3:55

Tgt Ion: 75 Resp: 149952

Ion Ratio Lower Upper

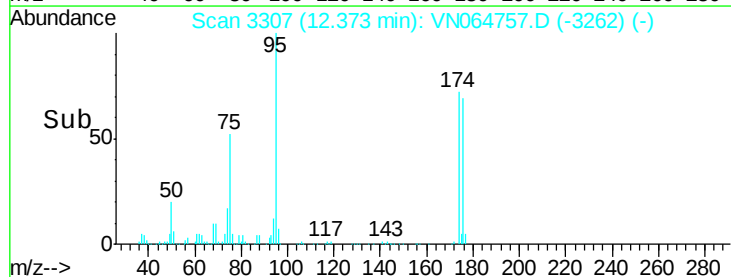
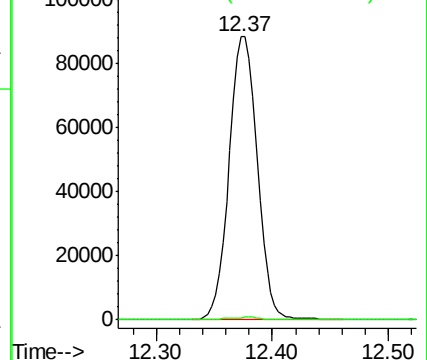
75 100

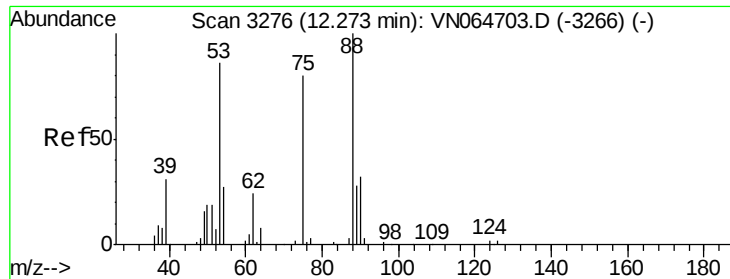
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.712 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampleId :

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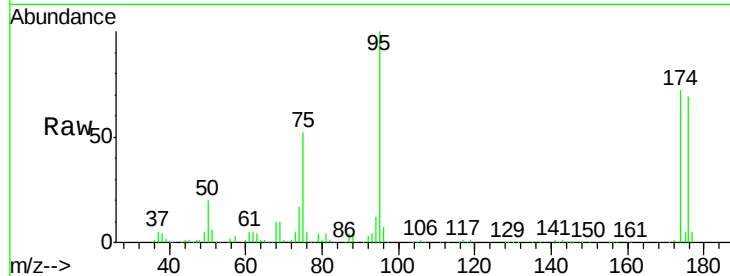
Tot Ion: 75 Resp: 149952

Ion Ratio Lower Upper

75 100

53 0.2 88.8 133.2#

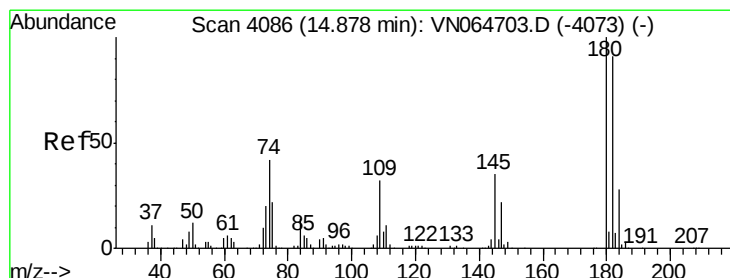
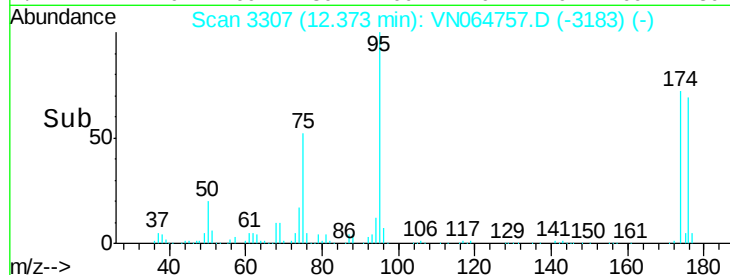
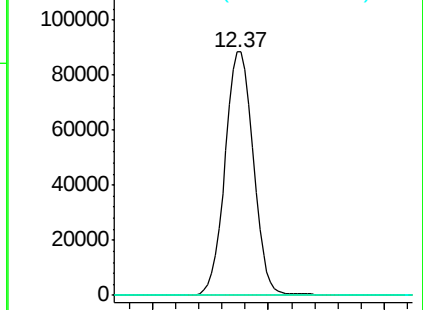
89 0.0 43.1 64.7#



Abundance Ion 74.90 (74.60 to 75.60): VN064757.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064757.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064757.D (-3183) (-)



#93

1,2,4-Trichlorobenzene

Concen: 1.369 ug/l

RT: 14.90 min Scan# 4092

Delta R.T. 0.02 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

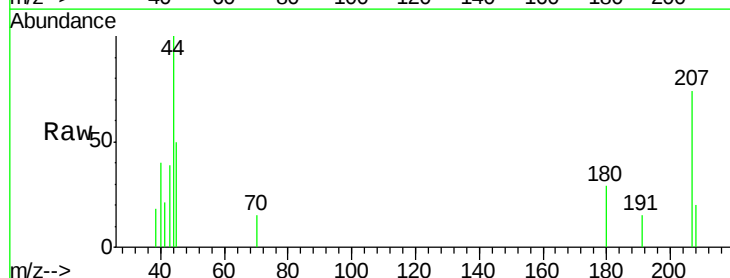
Tgt Ion: 180 Resp: 179

Ion Ratio Lower Upper

180 100

182 17.3 47.3 141.8#

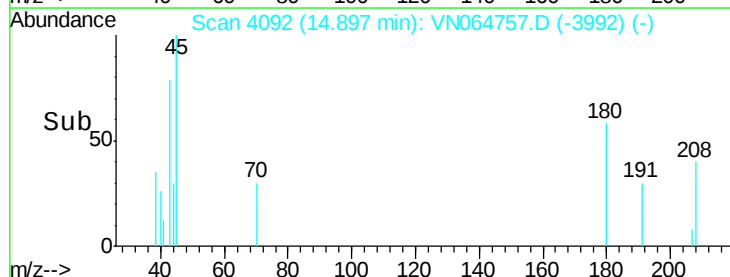
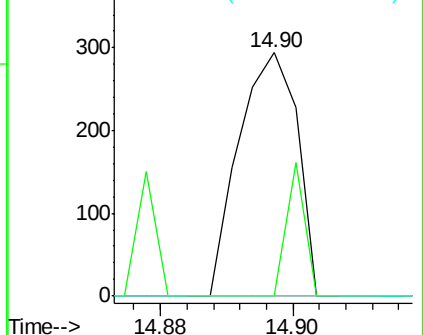
145 0.0 17.5 52.5#

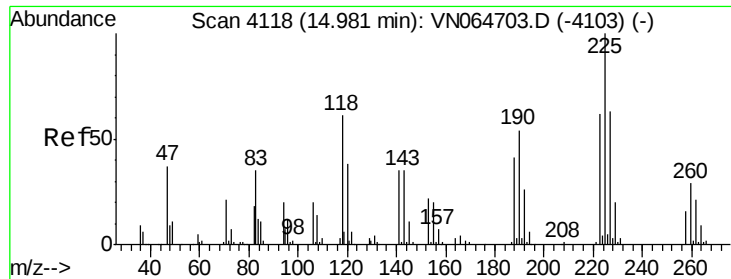


Abundance Ion 179.80 (179.50 to 180.50): VN064757.D (-3992) (-)

Ion 181.80 (181.50 to 182.50): VN064757.D (-3992) (-)

Ion 144.80 (144.50 to 145.50): VN064757.D (-3992) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 14.99 min Scan# 4121

Delta R.T. 0.01 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

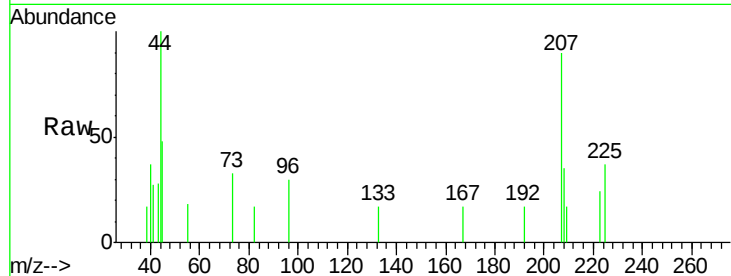
Tot Ion:225 Resp: 479

Ion Ratio Lower Upper

225 100

223 50.9 31.2 93.6

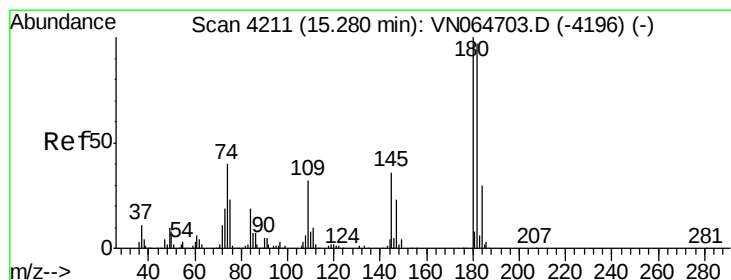
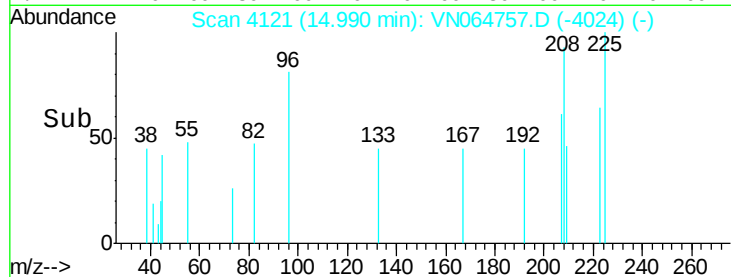
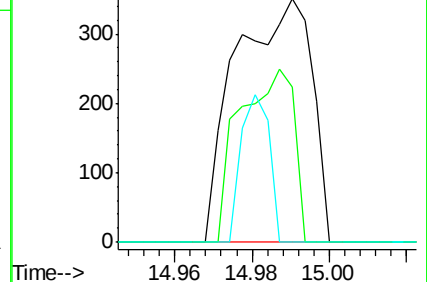
227 22.1 32.1 96.3#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.798 ug/l

RT: 15.28 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN064757.D

Acq: 20 Nov 2020 3:55

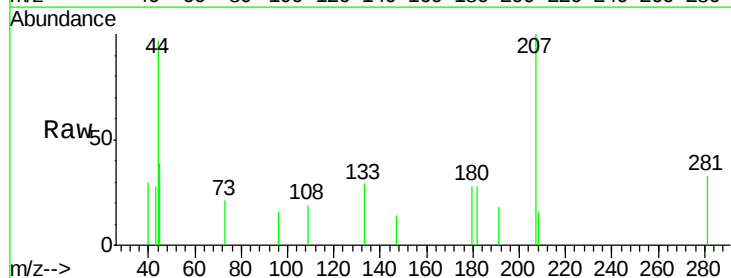
Tgt Ion:180 Resp: 181

Ion Ratio Lower Upper

180 100

182 222.7 47.5 142.5#

145 0.0 18.1 54.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

