

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060520\
 Data File : VN061677.D
 Acq On : 5 Jun 2020 18:14
 Operator : JC/MD
 Sample : L2921-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB3-200603

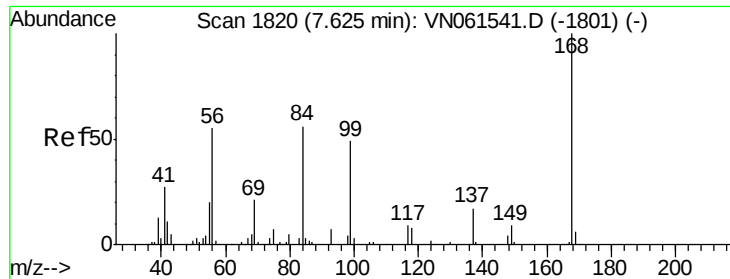
Quant Time: Jun 06 03:24:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	299298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	512221	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	504401	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	232292	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	167047	46.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.70%	
35) Dibromofluoromethane	7.55	113	141098	54.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.60%	
50) Toluene-d8	10.06	98	612751	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.38	95	227007	51.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	102	1.18	ug/l #	43
3) Chloromethane	2.03	50	795	0.22	ug/l	100
5) Bromomethane	2.54	94	865	0.30	ug/l	93
10) Methyl Iodide	3.91	142	873	0.22	ug/l #	54
16) Acetone	3.79	43	1014	Below	Cal #	88
17) Carbon Disulfide	4.01	76	2257	0.34	ug/l #	74
20) Methylene Chloride	4.51	84	647	Below	Cal #	55
31) Cyclohexane	7.62	56	5445	1.08	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	20172	4.45	ug/l #	49
38) Carbon Tetrachloride	7.63	117	28771	6.58	ug/l #	15
59) 2-Hexanone	10.73	43	556	0.21	ug/l #	34
71) Bromoform	12.38	173	1654	0.55	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	109731	25.98	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	109731	66.43	ug/l #	15
94) Hexachlorobutadiene	14.99	225	424	0.23	ug/l	90
95) Naphthalene	15.11	128	5792	0.44	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.29	180	1214	0.29	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

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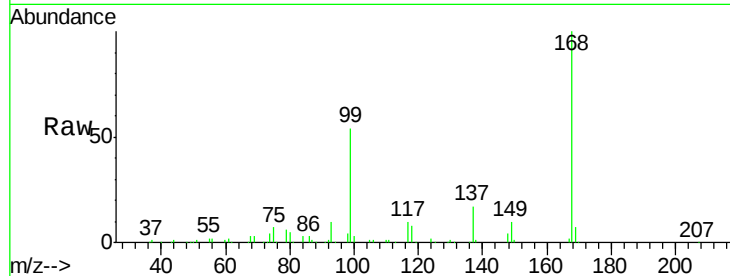
Z1-TB3-200603

Tgt Ion: 168 Resp: 299298

Ion Ratio Lower Upper

168 100

99 54.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

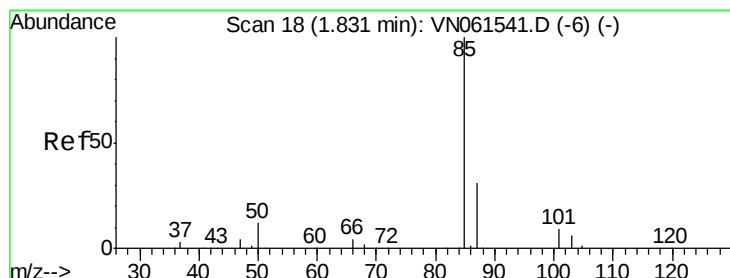
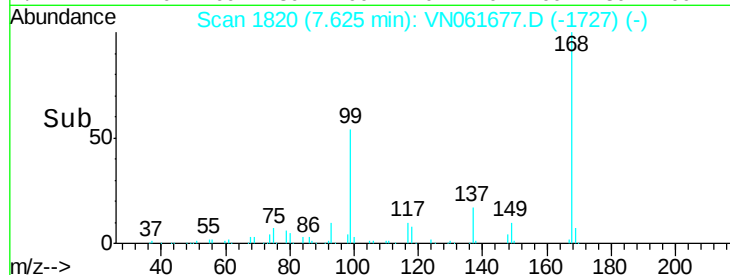
7.63

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.18 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN061677.D

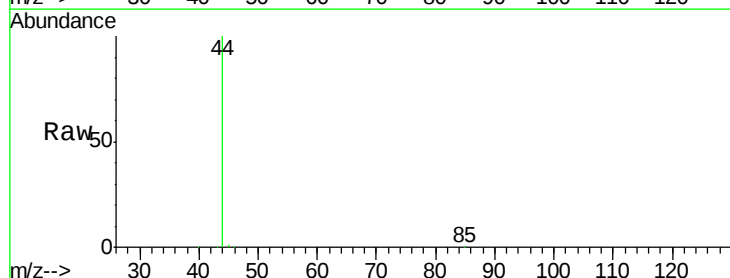
Acq: 5 Jun 2020 18:14

Tgt Ion: 85 Resp: 102

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

200

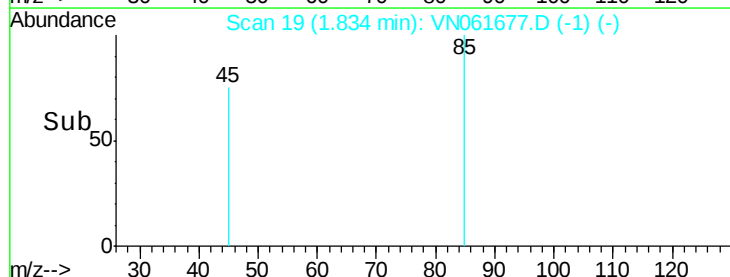
150

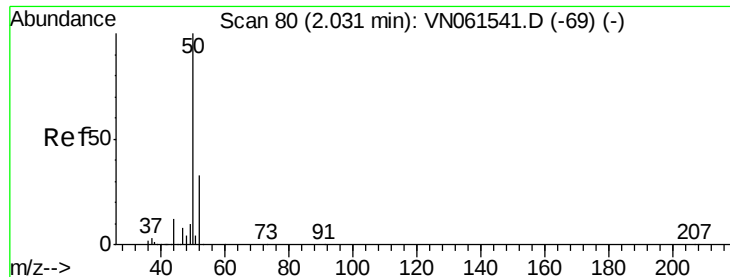
100

50

0

Time-->

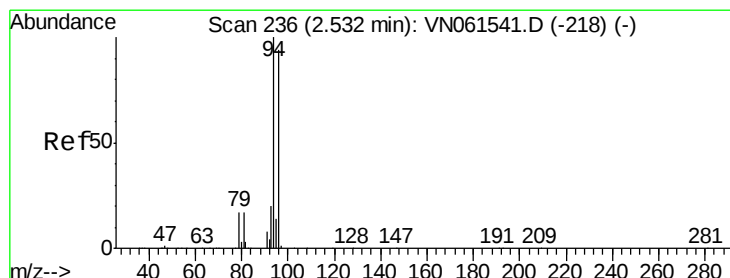
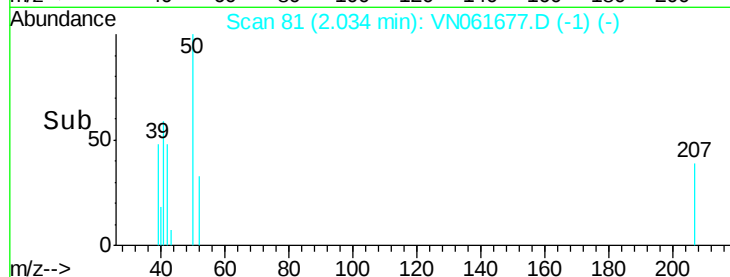
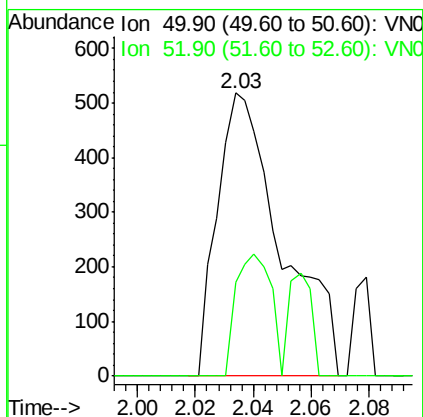
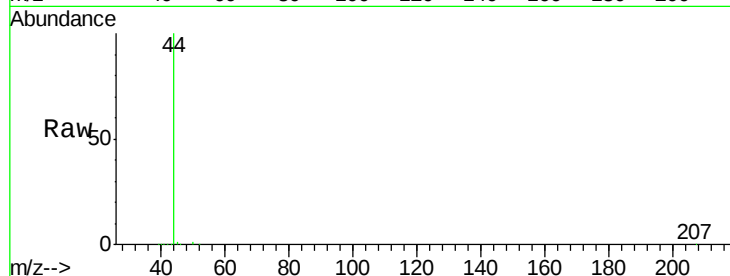




#3
Chloromethane
Concen: 0.22 ug/l
RT: 2.03 min Scan# 81
Delta R.T. 0.00 min
Lab File: VN061677.D
Acq: 5 Jun 2020 18:14

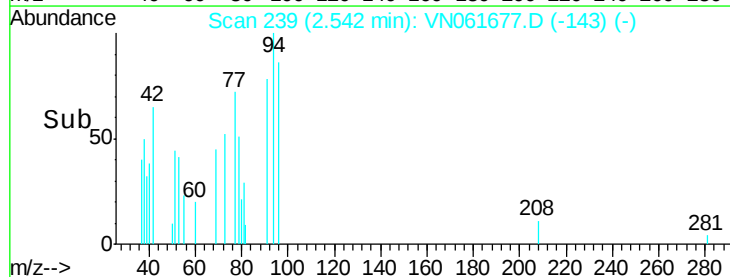
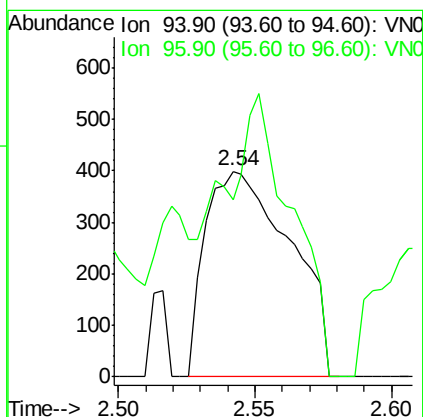
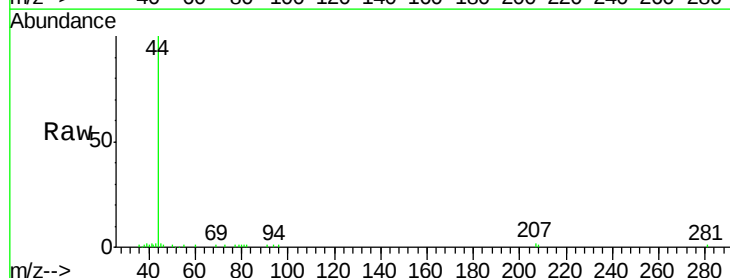
Instrument :
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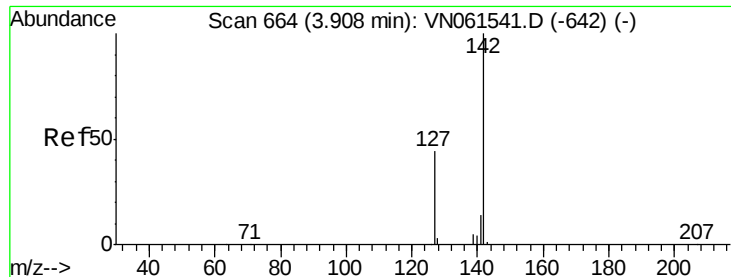
Tgt Ion: 50 Resp: 795
Ion Ratio Lower Upper
50 100
52 33.2 26.7 40.1



#5
Bromomethane
Concen: 0.30 ug/l
RT: 2.54 min Scan# 239
Delta R.T. 0.01 min
Lab File: VN061677.D
Acq: 5 Jun 2020 18:14

Tgt Ion: 94 Resp: 865
Ion Ratio Lower Upper
94 100
96 86.5 74.8 112.2





#10

Methyl Iodide

Concen: 0.22 ug/l

RT: 3.91 min Scan# 666

Delta R.T. 0.01 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB3-200603

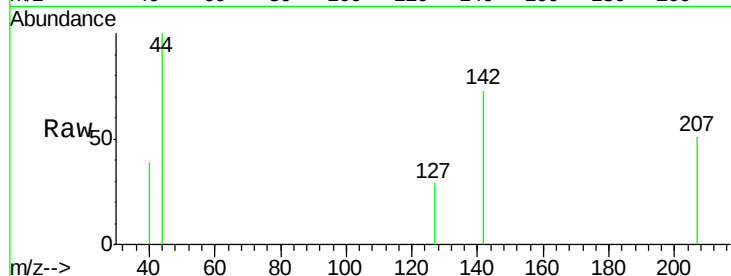
Tgt Ion:142 Resp: 873

Ion Ratio Lower Upper

142 100

127 11.9 35.5 53.3#

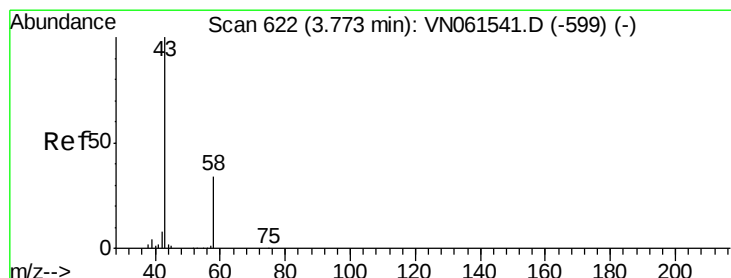
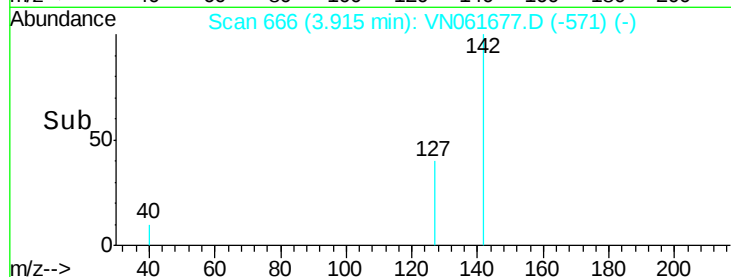
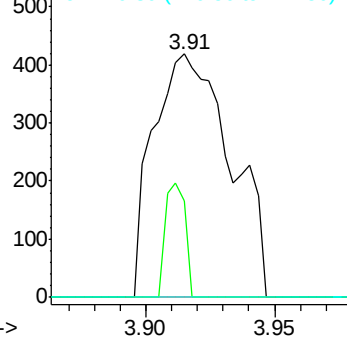
141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061677.D

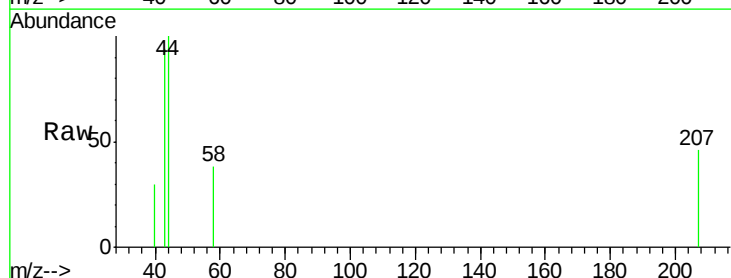
Acq: 5 Jun 2020 18:14

Tgt Ion: 43 Resp: 1014

Ion Ratio Lower Upper

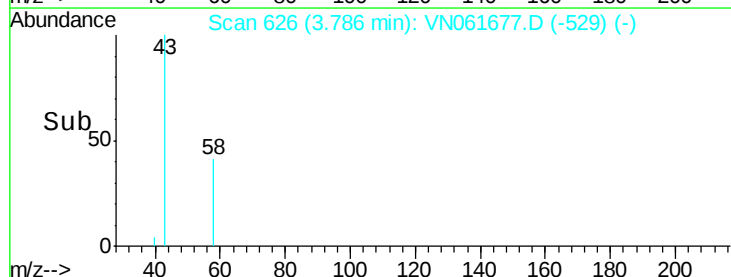
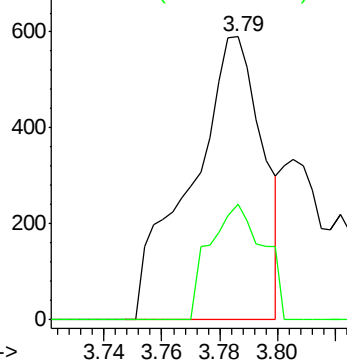
43 100

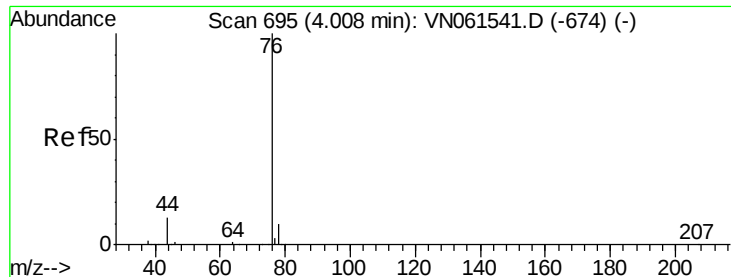
58 40.8 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

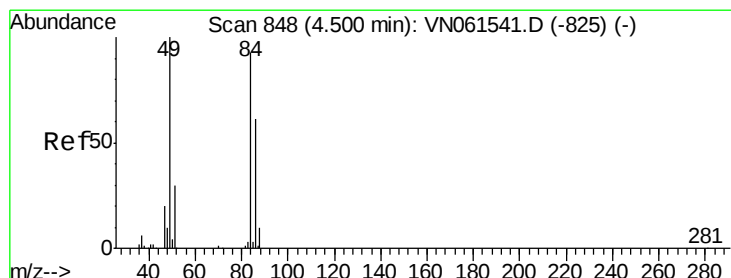
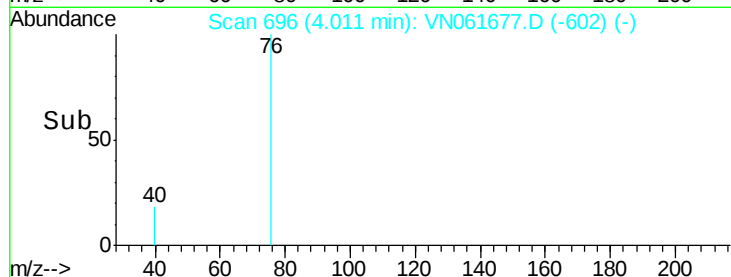
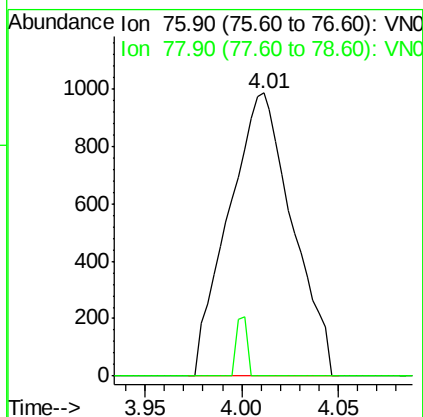
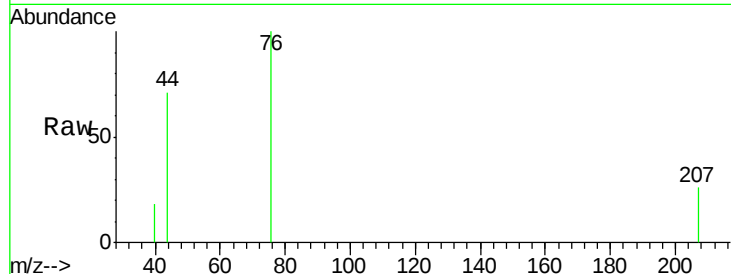




#17
Carbon Disulfide
Concen: 0.34 ug/l
RT: 4.01 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN061677.D
Acq: 5 Jun 2020 18:14

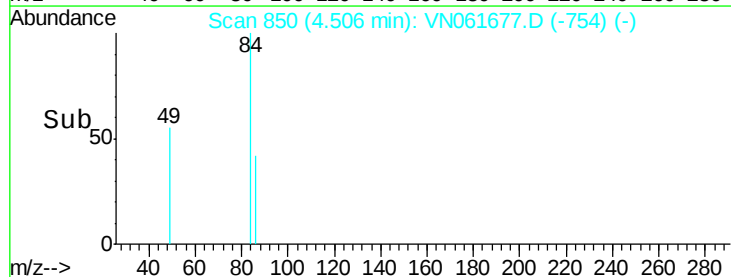
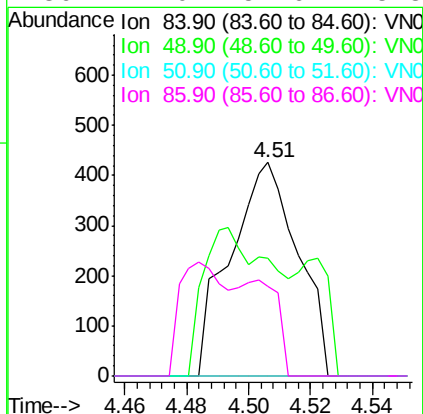
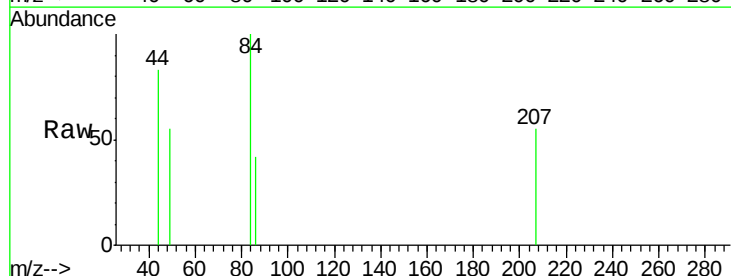
Instrument :
MSVOA_N
ClientSampleId :
Z1-TB3-200603

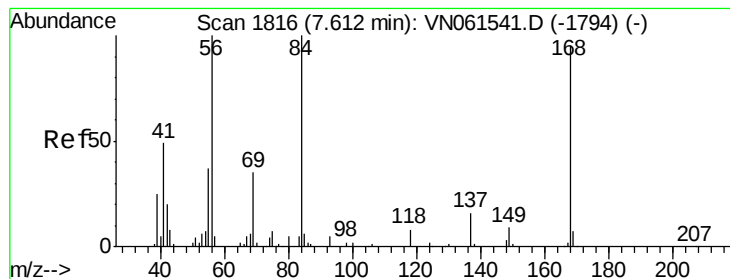
Tgt Ion: 76 Resp: 2257
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061677.D
Acq: 5 Jun 2020 18:14

Tgt Ion: 84 Resp: 647
Ion Ratio Lower Upper
84 100
49 55.4 85.8 128.8#
51 0.0 26.2 39.2#
86 42.0 52.6 78.8#





#31

Cyclohexane

Concen: 1.08 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB3-200603

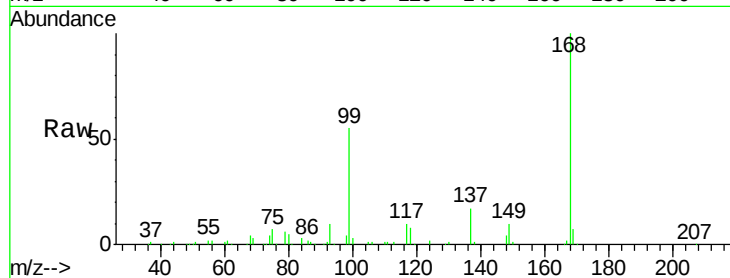
Tgt Ion: 56 Resp: 5445

Ion Ratio Lower Upper

56 100

69 180.6 27.8 41.8#

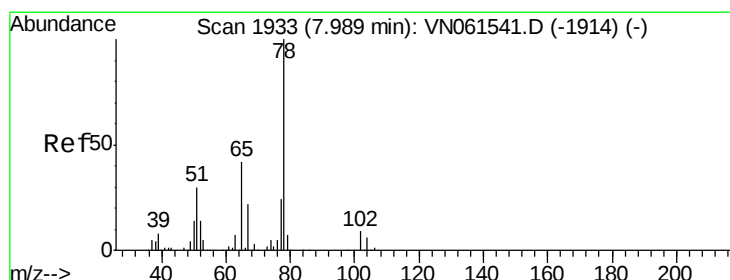
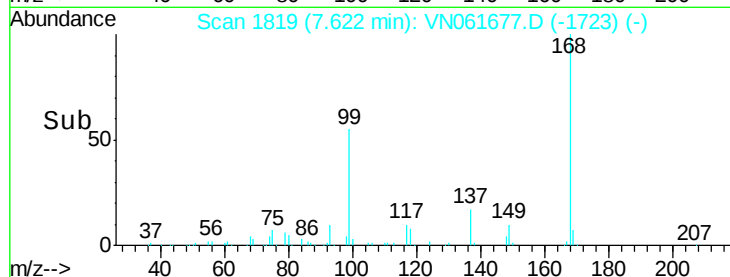
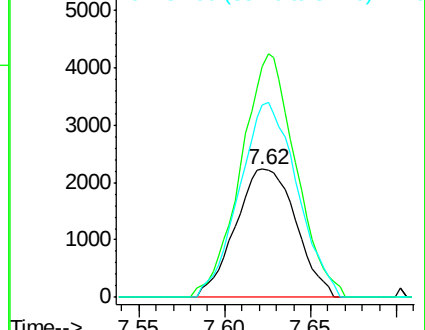
84 150.6 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061541.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN061541.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN061541.D (-1794) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.85 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061677.D

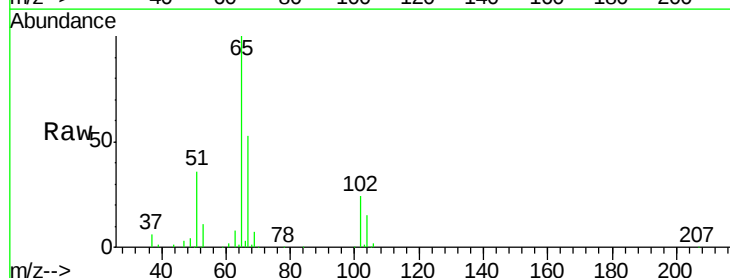
Acq: 5 Jun 2020 18:14

Tgt Ion: 65 Resp: 167047

Ion Ratio Lower Upper

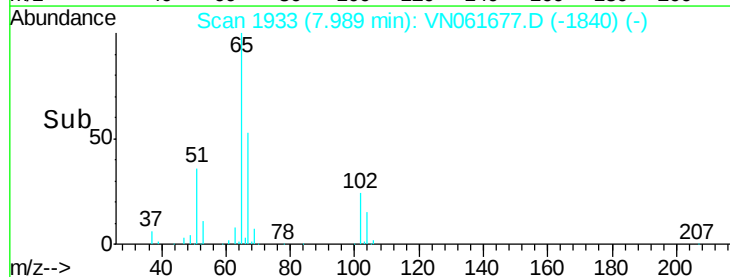
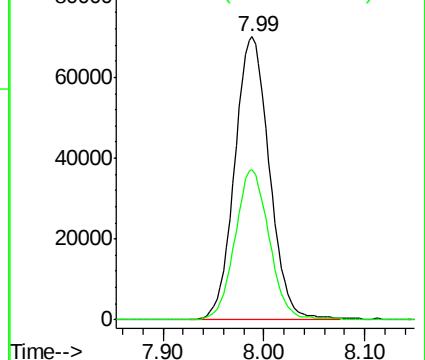
65 100

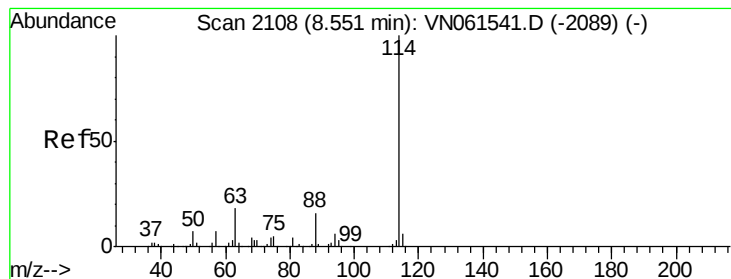
67 52.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061541.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN061541.D (-1914) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

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Z1-TB3-200603

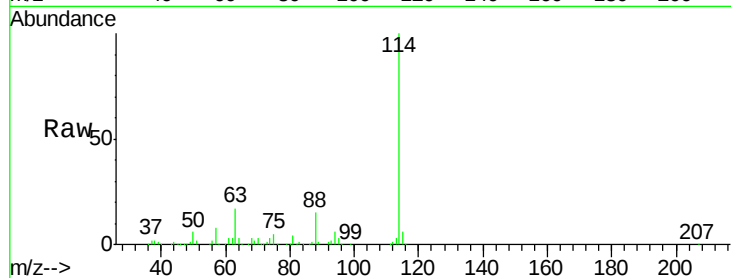
Tgt Ion:114 Resp: 512221

Ion Ratio Lower Upper

114 100

63 17.2 0.0 35.8

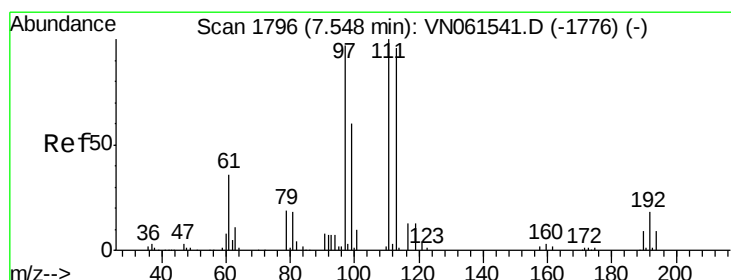
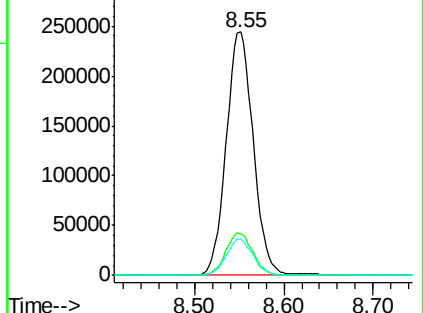
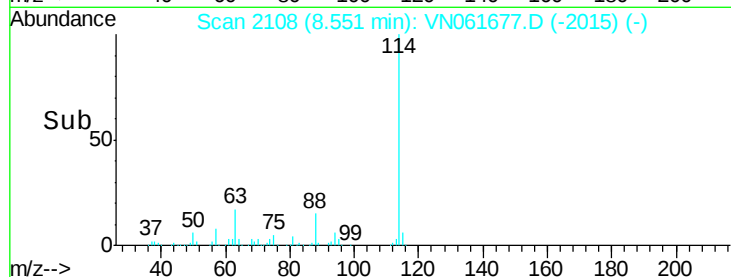
88 14.8 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 54.30 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

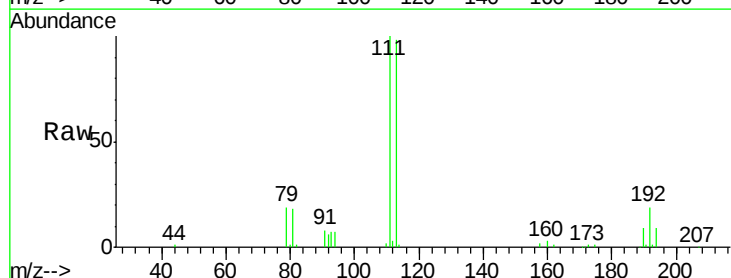
Tgt Ion:113 Resp: 141098

Ion Ratio Lower Upper

113 100

111 105.0 83.4 125.0

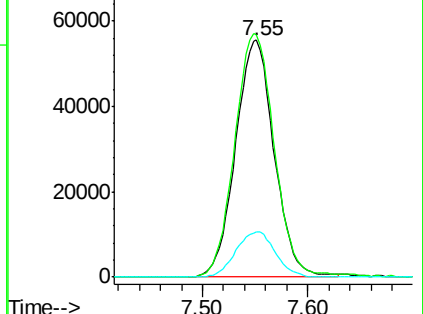
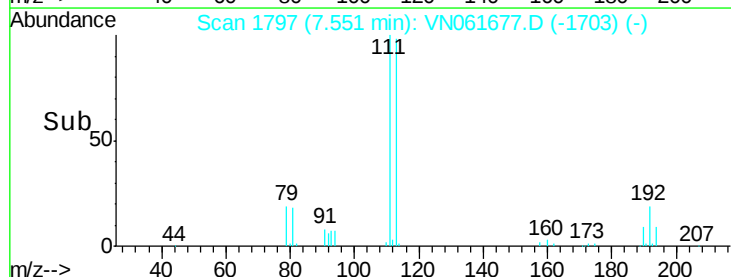
192 19.6 15.4 23.2

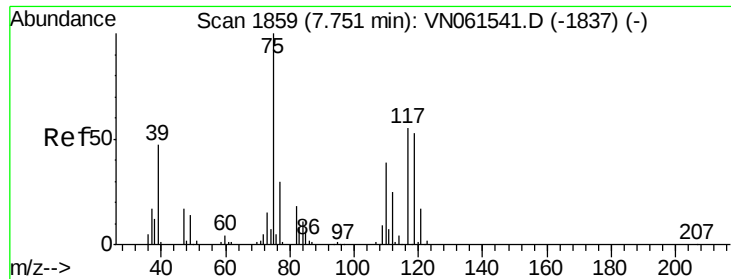


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

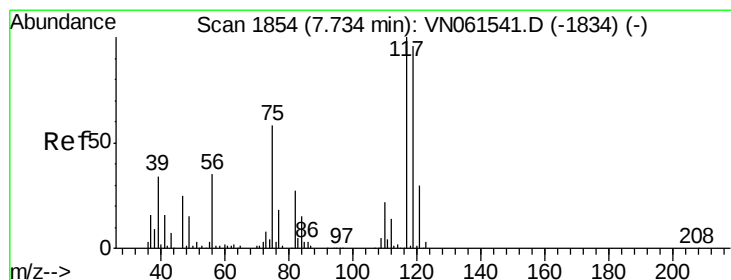
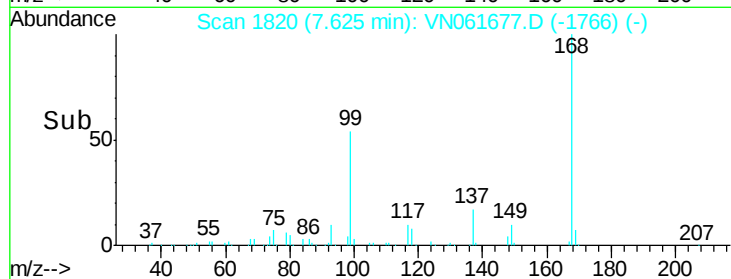
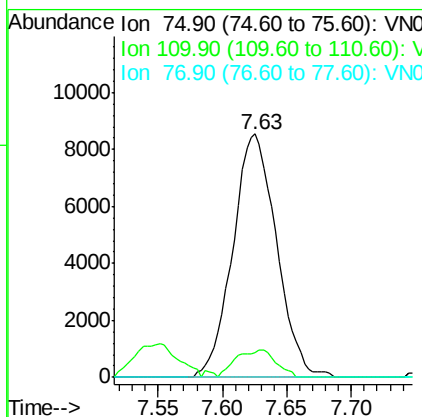
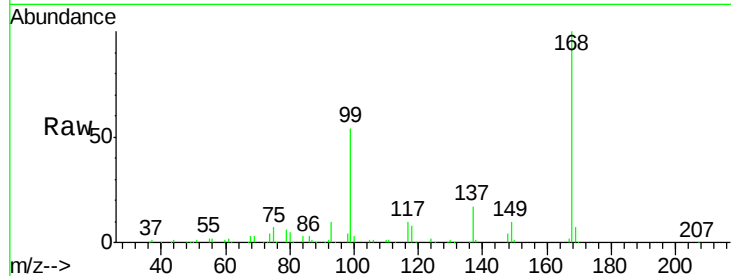




#36
 1,1-Dichloropropene
 Concen: 4.45 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061677.D
 Acq: 5 Jun 2020 18:14

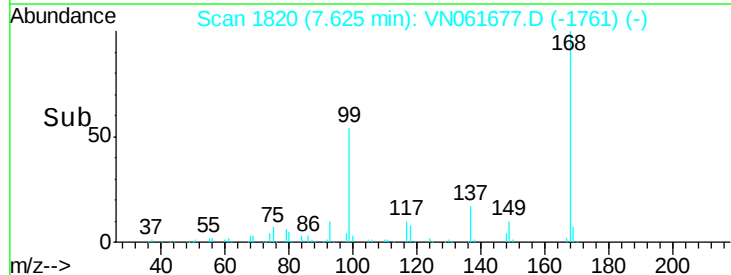
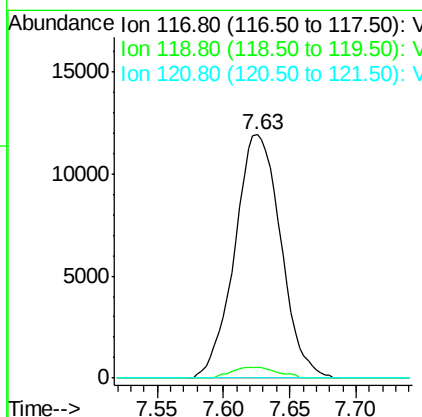
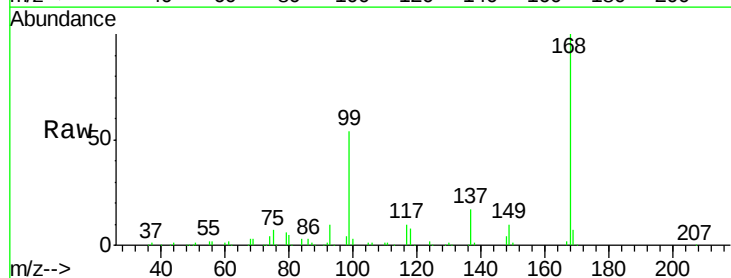
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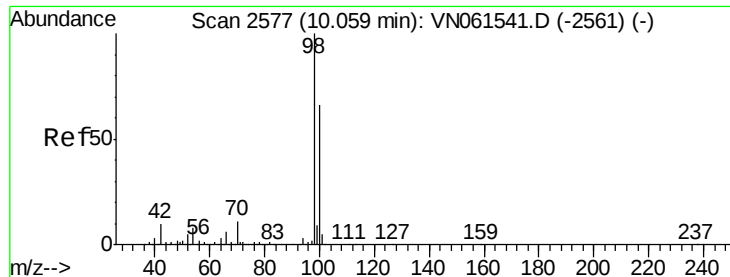
Tgt Ion: 75 Resp: 20172
 Ion Ratio Lower Upper
 75 100
 110 10.3 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.58 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061677.D
 Acq: 5 Jun 2020 18:14

Tgt Ion: 117 Resp: 28771
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.5 114.7#
 121 0.0 24.1 36.1#





#50

Toluene-d8

Concen: 50.89 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

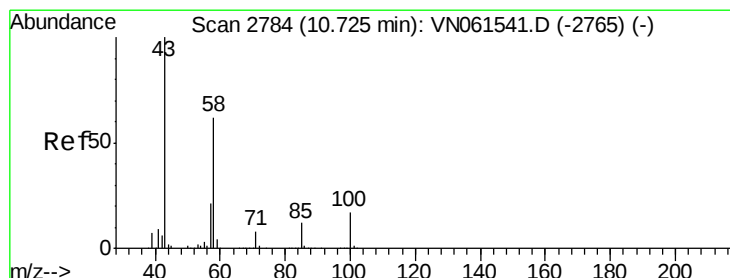
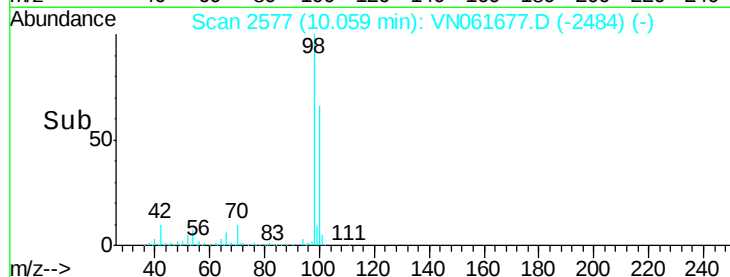
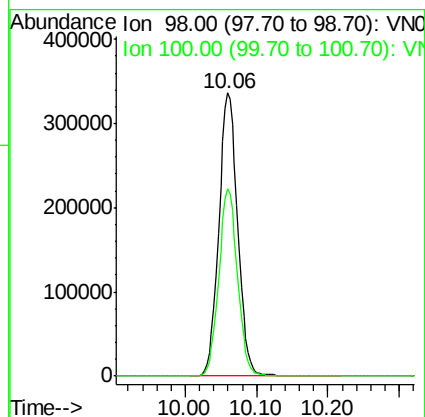
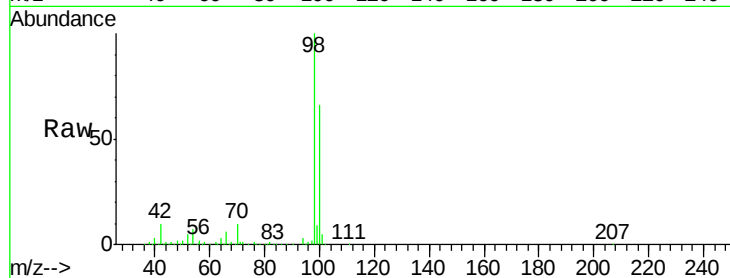
Z1-TB3-200603

Tgt Ion: 98 Resp: 612751

Ion Ratio Lower Upper

98 100

100 65.6 52.8 79.2



#59

2-Hexanone

Concen: 0.21 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.01 min

Lab File: VN061677.D

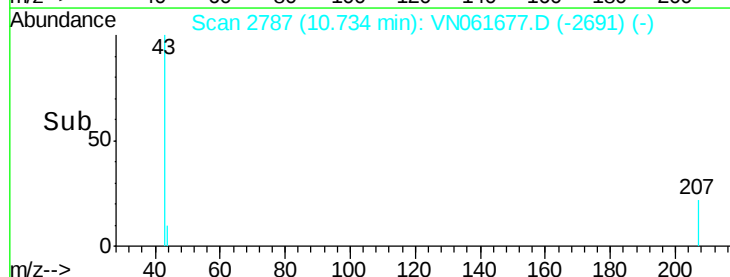
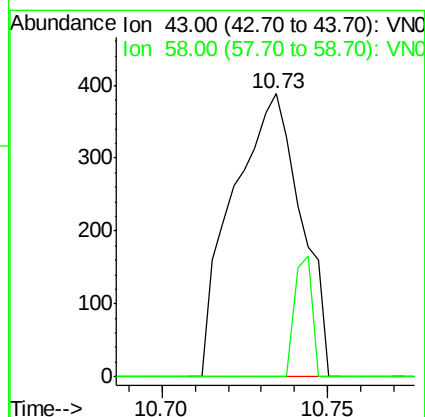
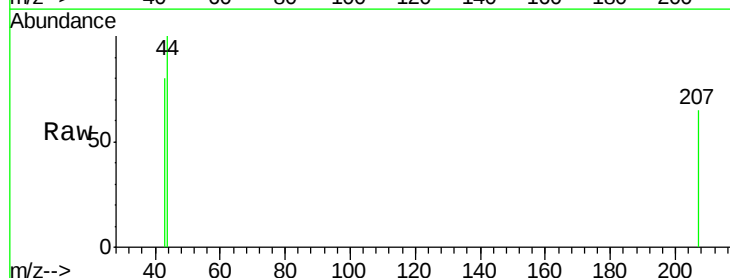
Acq: 5 Jun 2020 18:14

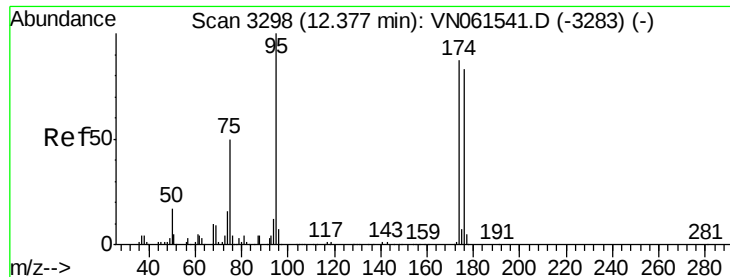
Tgt Ion: 43 Resp: 556

Ion Ratio Lower Upper

43 100

58 11.0 30.7 92.1#





#62

4-Bromofluorobenzene

Concen: 51.67 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB3-200603

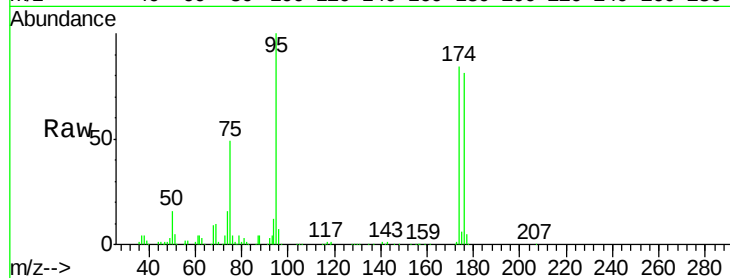
Tgt Ion: 95 Resp: 227007

Ion Ratio Lower Upper

95 100

174 83.9 0.0 172.8

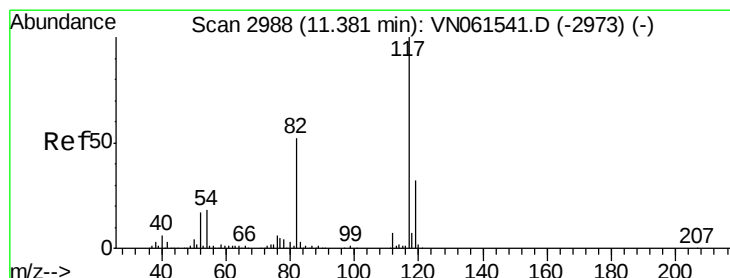
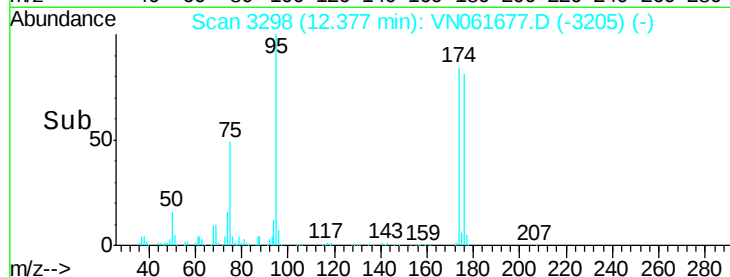
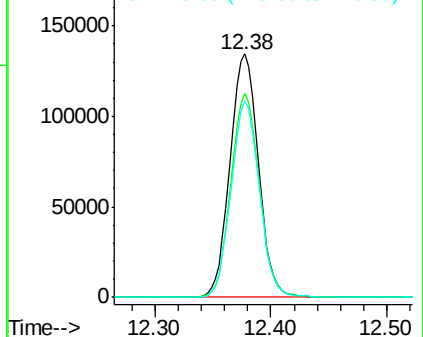
176 80.2 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061677.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061677.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061677.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

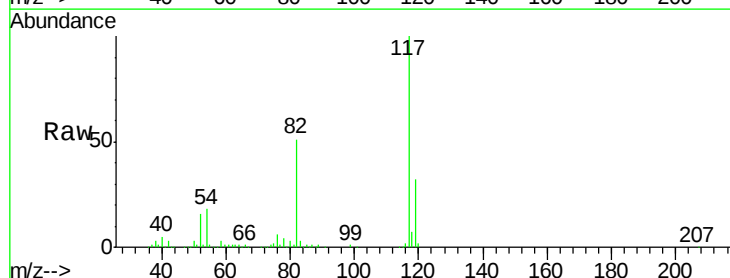
Tgt Ion: 117 Resp: 504401

Ion Ratio Lower Upper

117 100

82 50.6 41.5 62.3

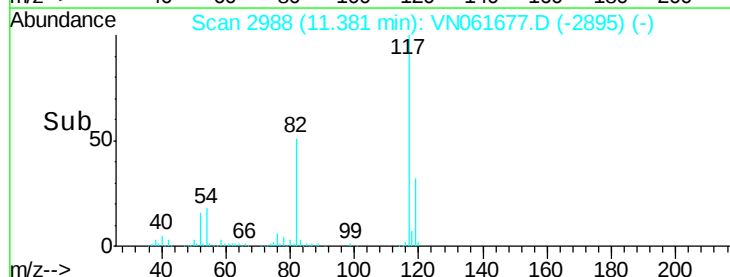
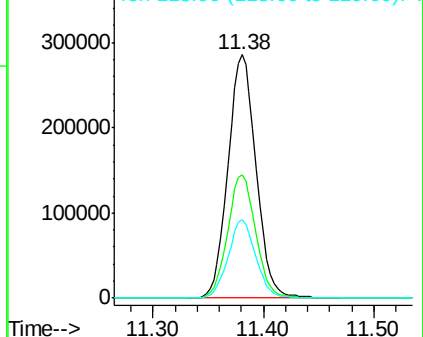
119 32.0 25.6 38.4

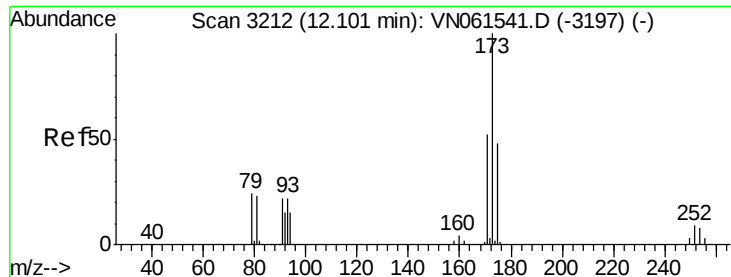


Abundance Ion 116.90 (116.60 to 117.60): VN061677.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061677.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061677.D (-2895) (-)





#71

Bromoform

Concen: 0.55 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB3-200603

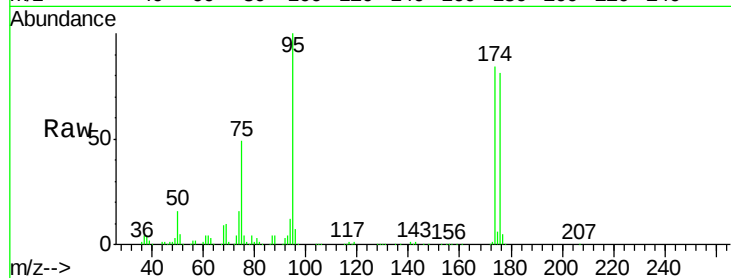
Tgt Ion:173 Resp: 1654

Ion Ratio Lower Upper

173 100

175 699.9 24.4 73.2#

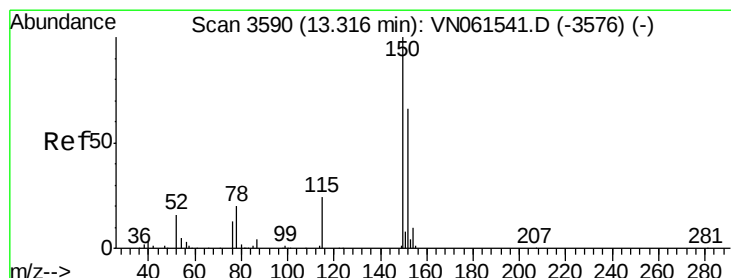
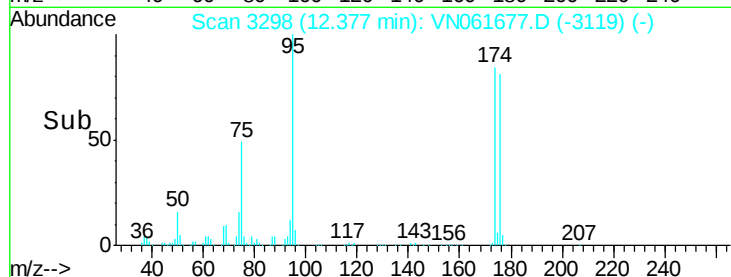
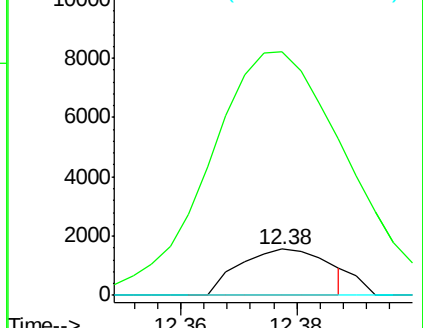
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

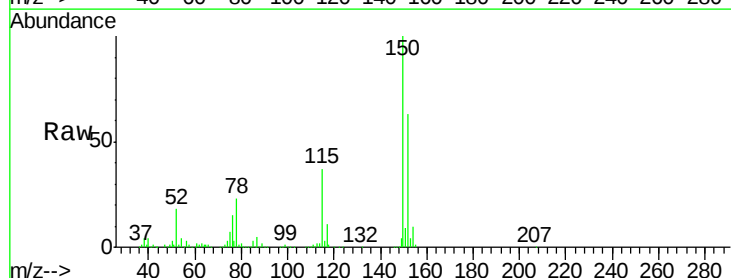
Tgt Ion:152 Resp: 232292

Ion Ratio Lower Upper

152 100

115 58.0 28.0 84.0

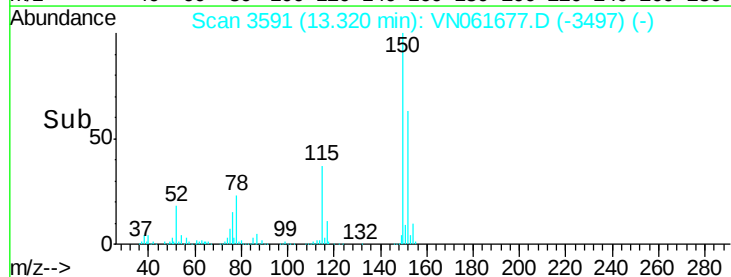
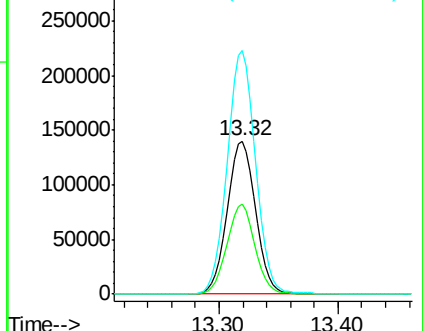
150 158.3 0.0 344.0

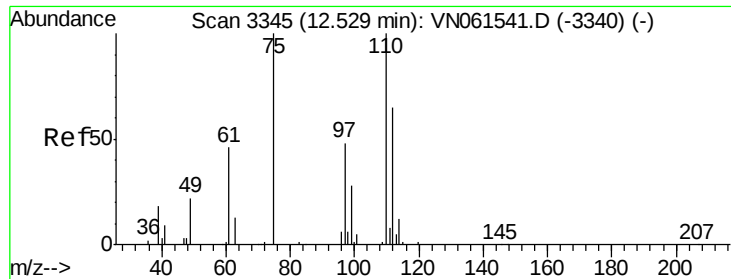


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.98 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

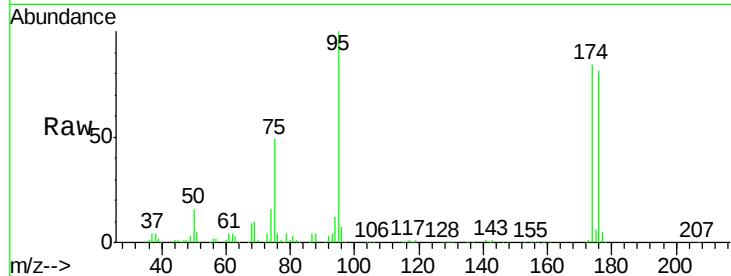
Z1-TB3-200603

Tgt Ion: 75 Resp: 109731

Ion Ratio Lower Upper

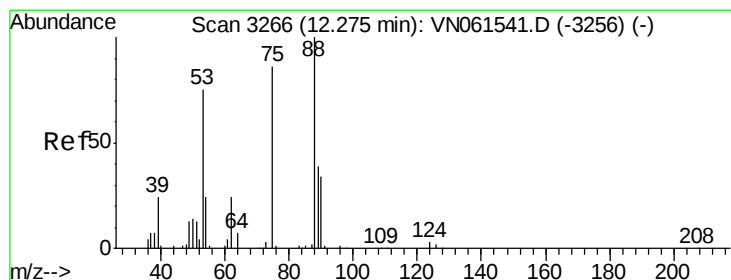
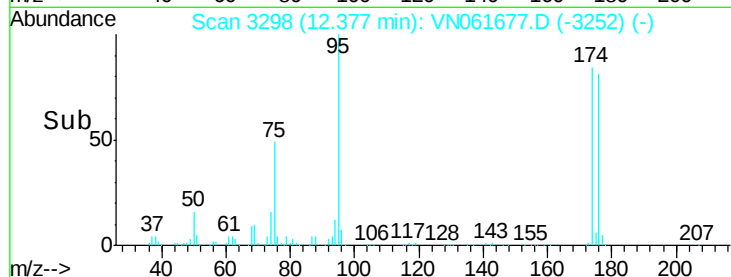
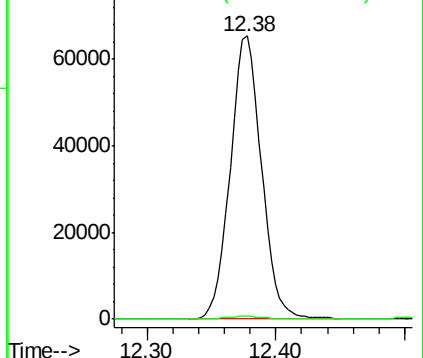
75 100

77 1.2 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: 66.43 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

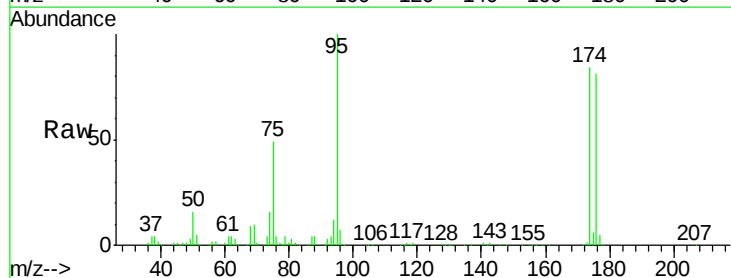
Tgt Ion: 75 Resp: 109731

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

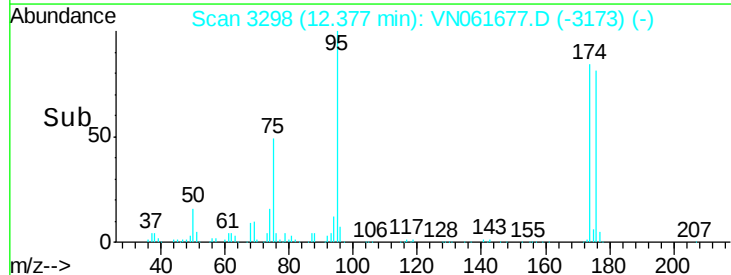
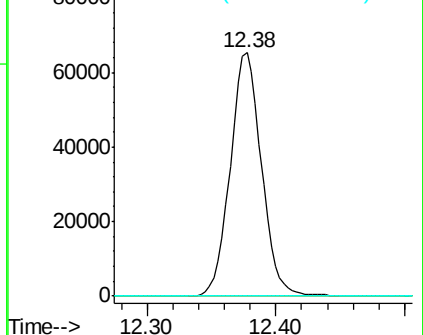
89 0.0 37.1 55.7#

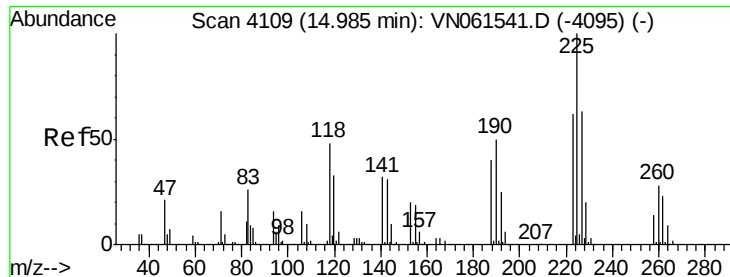


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#94

Hexachlorobutadiene

Concen: 0.23 ug/l

RT: 14.99 min Scan# 4109

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB3-200603

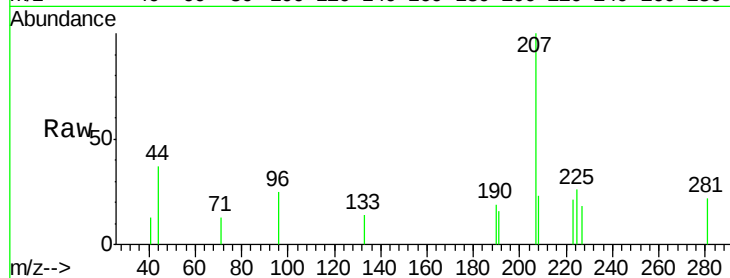
Tgt Ion: 225 Resp: 424

Ion Ratio Lower Upper

225 100

223 62.5 31.9 95.5

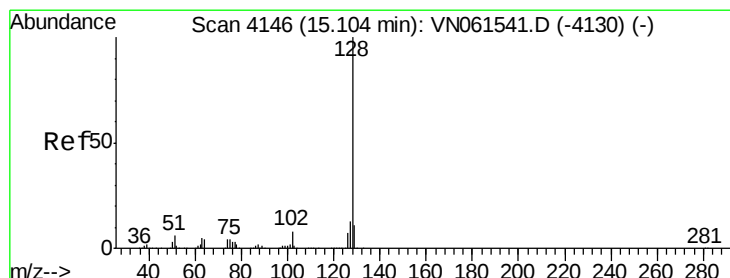
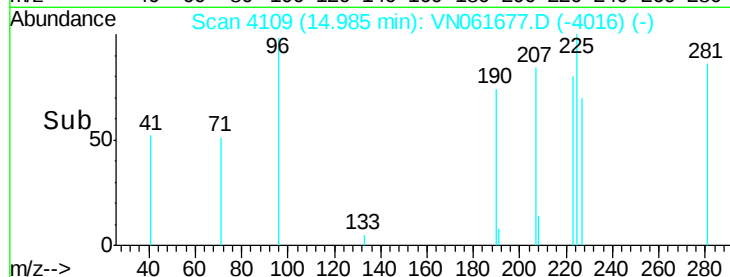
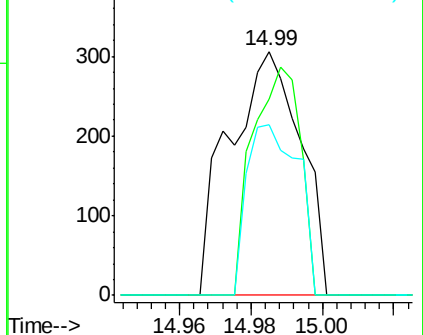
227 50.2 31.9 95.9



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



#95

Naphthalene

Concen: 0.44 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061677.D

Acq: 5 Jun 2020 18:14

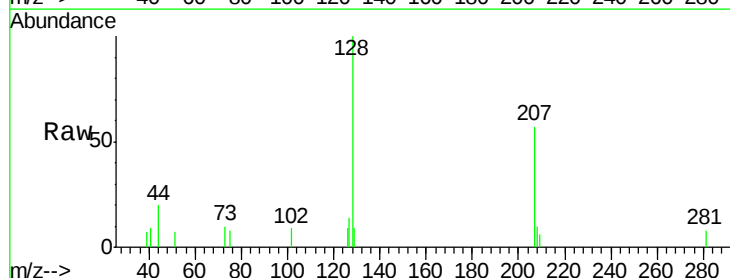
Tgt Ion: 128 Resp: 5792

Ion Ratio Lower Upper

128 100

127 8.3 10.0 15.0#

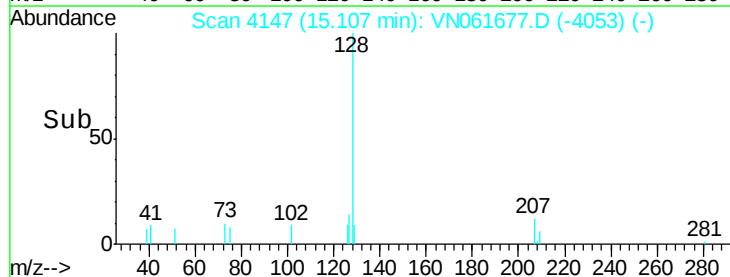
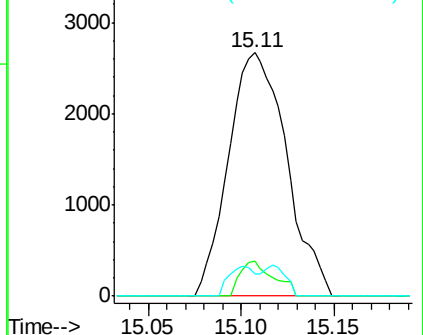
129 5.3 8.5 12.7#

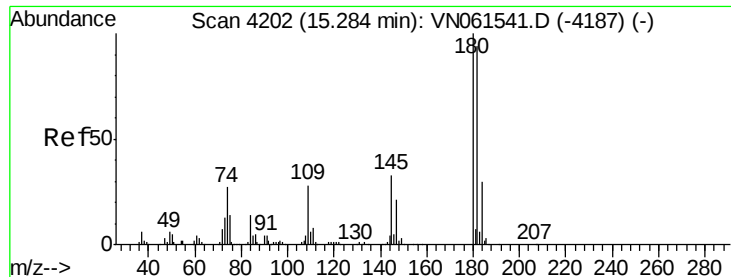


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.29 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.01 min
 Lab File: VN061677.D
 Acq: 5 Jun 2020 18:14

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB3-200603

Tgt Ion:180 Resp: 1214
 Ion Ratio Lower Upper
 180 100
 182 101.9 47.1 141.3
 145 29.5 16.3 48.9

