

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051920\
 Data File : VN061487.D
 Acq On : 19 May 2020 16:43
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 20 02:57:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	327470	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	583035	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	561515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	250043	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	215085	44.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	88.02%	
35) Dibromofluoromethane	7.55	113	167343	54.79	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.58%	
50) Toluene-d8	10.06	98	715536	50.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.37	95	269525	50.92	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.84%	

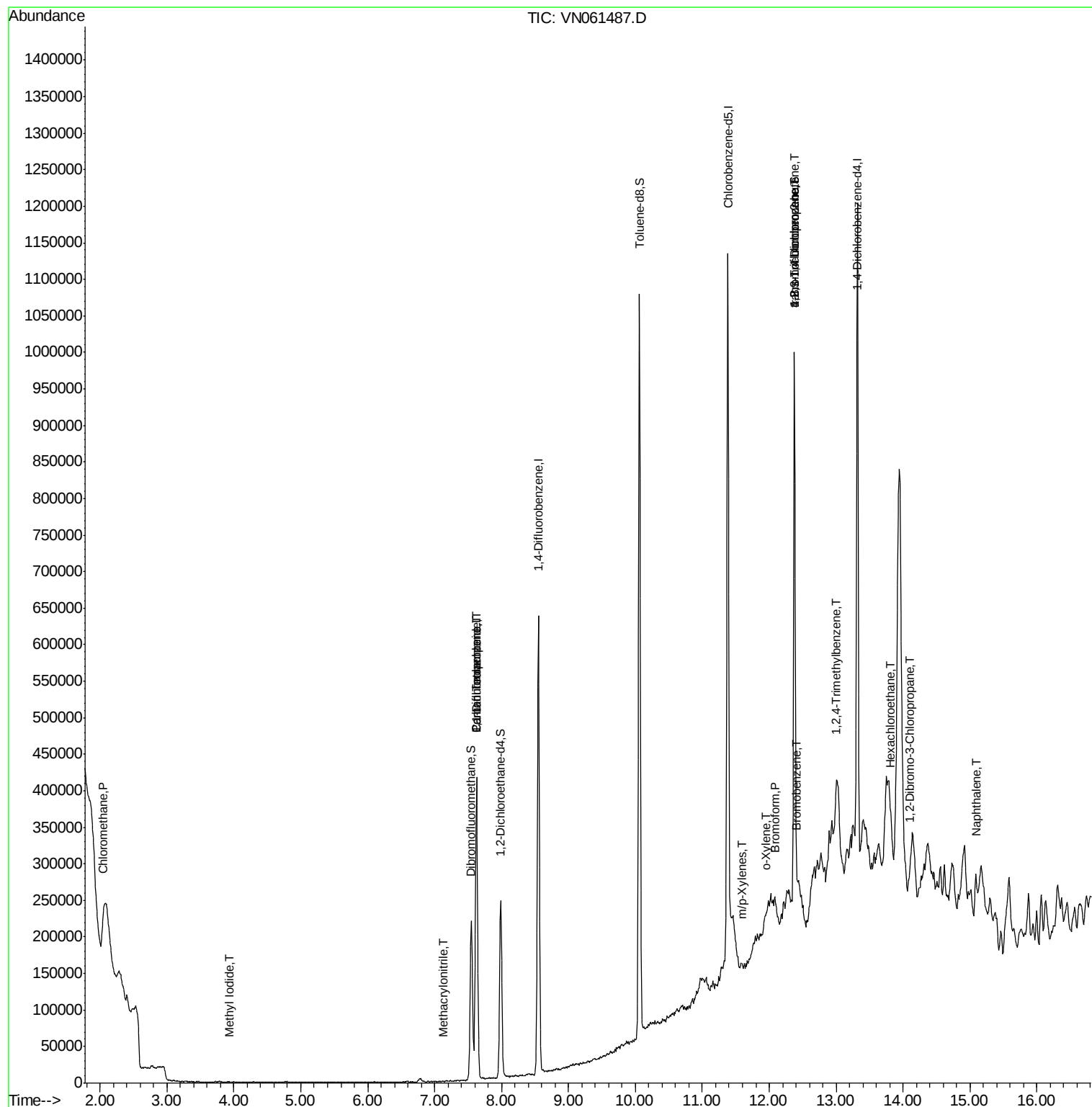
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1149	0.259	ug/l	96
5) Bromomethane	2.55	94	1277	Below Cal	#	65
10) Methyl Iodide	3.92	142	1016	0.261	ug/l #	66
16) Acetone	3.77	43	575	Below Cal	#	43
17) Carbon Disulfide	4.01	76	653	Below Cal	#	75
18) Methyl Acetate	4.29	43	534	Below Cal	#	49
31) Cyclohexane	7.63	56	7655	Below Cal	#	1
36) 1,1-Dichloropropene	7.62	75	25759	4.725	ug/l #	51
38) Carbon Tetrachloride	7.63	117	33754	6.724	ug/l #	15
41) Methacrylonitrile	7.12	41	427	0.204	ug/l #	30
68) m/p-Xylenes	11.60	106	3475	0.438	ug/l	97
69) o-Xylene	11.94	106	1571	0.205	ug/l	52
71) Bromoform	12.09	173	605	2.202	ug/l #	29
76) 1,2,3-Trichloropropane	12.37	75	137084	25.550	ug/l #	100
77) Bromobenzene	12.42	156	1164	0.267	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.37	75	137084	67.779	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.01	105	4475	0.272	ug/l	81
90) Hexachloroethane	13.82	117	904	0.395	ug/l	61
92) 1,2-Dibromo-3-Chloropropan	14.09	75	338	0.303	ug/l	71
95) Naphthalene	15.10	128	7494	0.568	ug/l #	89

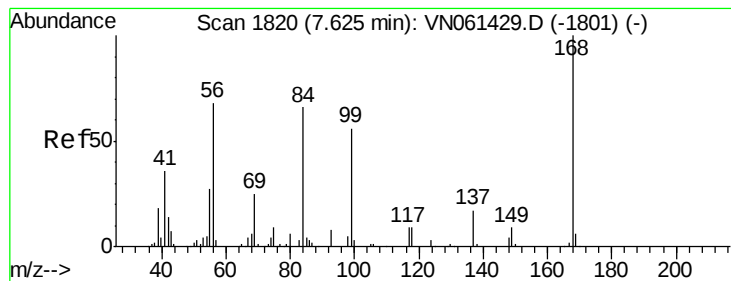
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

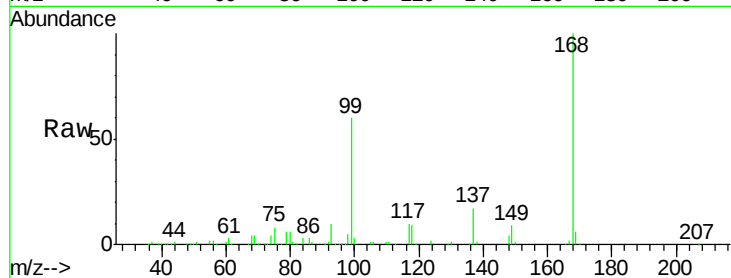
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 327470

Ion Ratio Lower Upper

168 100

99 60.2 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

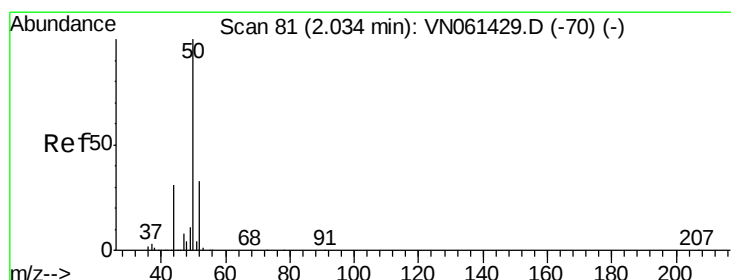
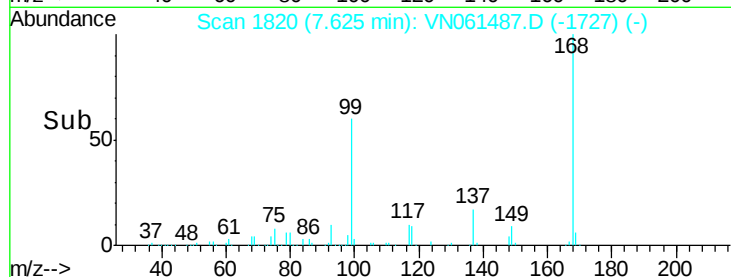
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.259 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061487.D

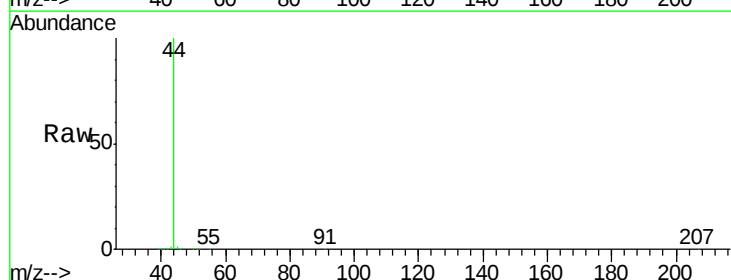
Acq: 19 May 2020 16:43

Tgt Ion: 50 Resp: 1149

Ion Ratio Lower Upper

50 100

52 35.6 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

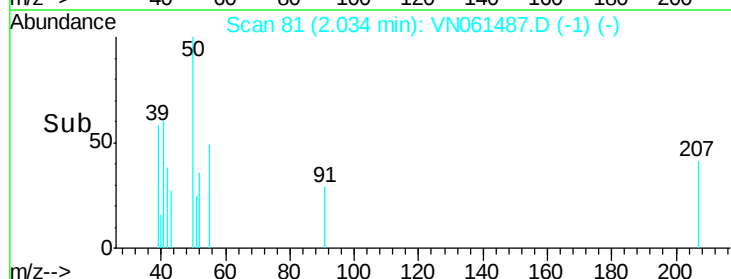
600

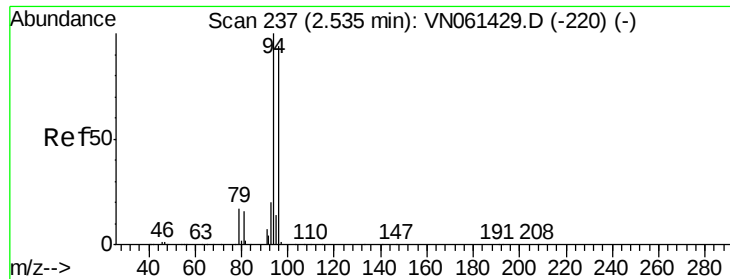
400

200

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

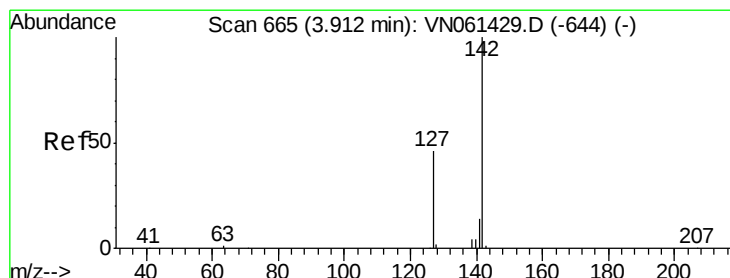
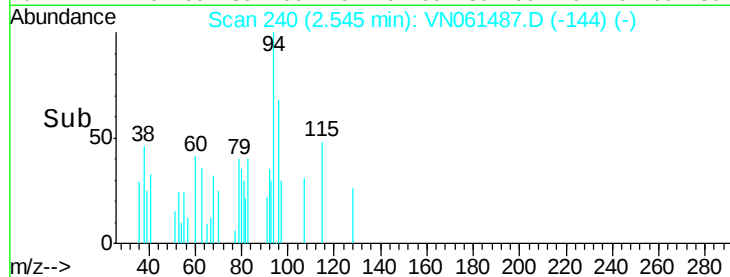
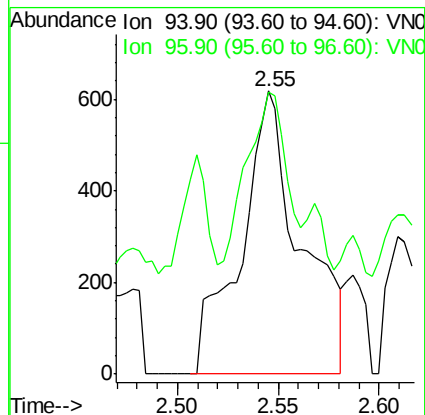
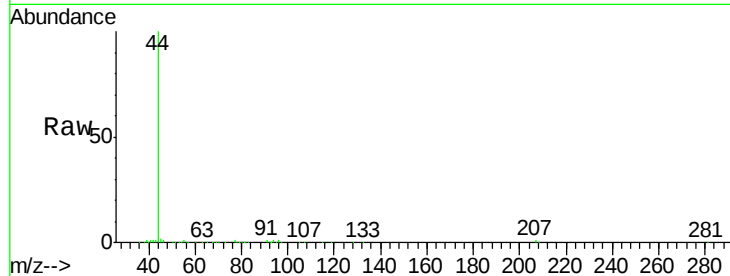
ClientSampleId :

Tot Ion: 94 Resp: 1277

Ion Ratio Lower Upper

94 100

96 59.5 74.9 112.3#



#10

Methyl Iodide

Concen: 0.261 ug/l

RT: 3.92 min Scan# 668

Delta R.T. 0.01 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

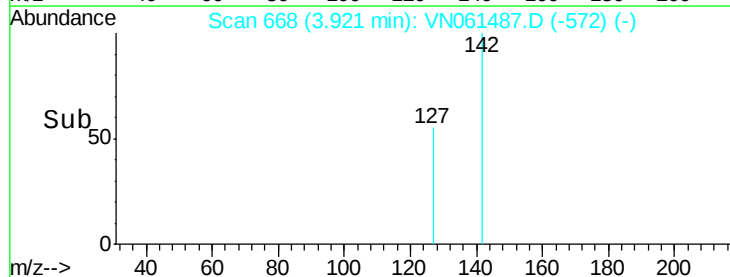
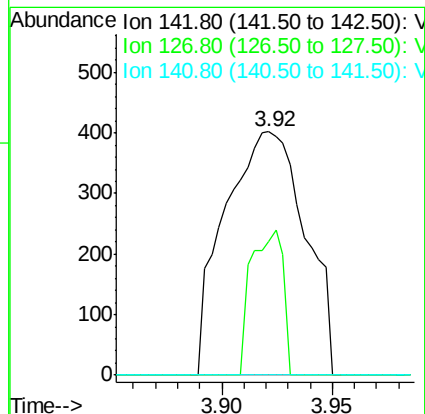
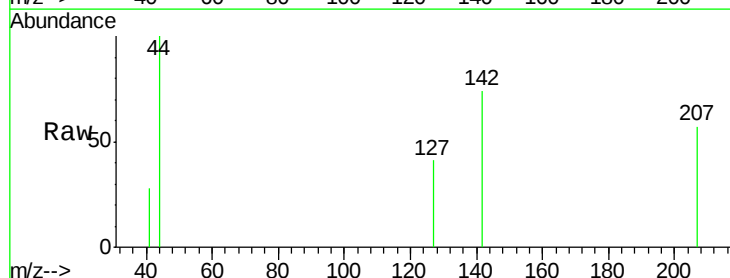
Tgt Ion: 142 Resp: 1016

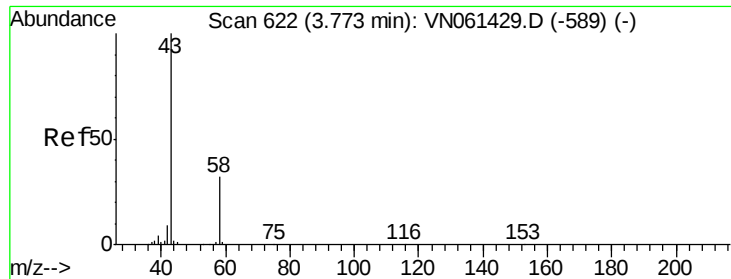
Ion Ratio Lower Upper

142 100

127 23.8 36.7 55.1#

141 0.0 11.5 17.3#

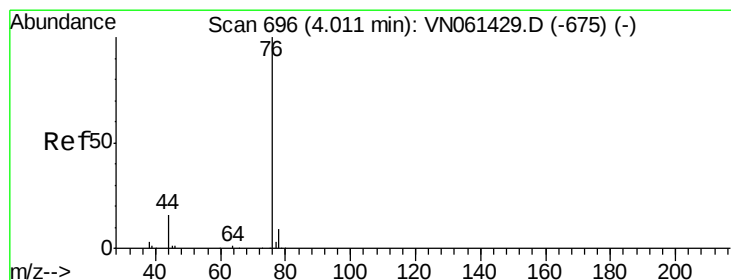
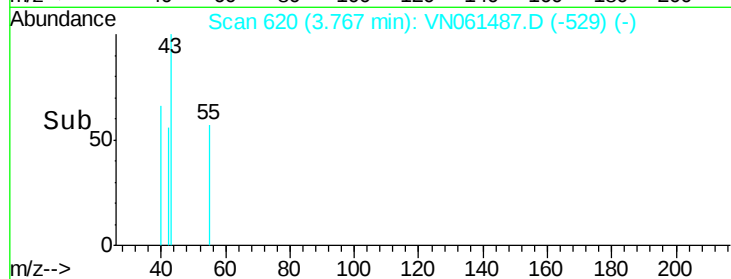
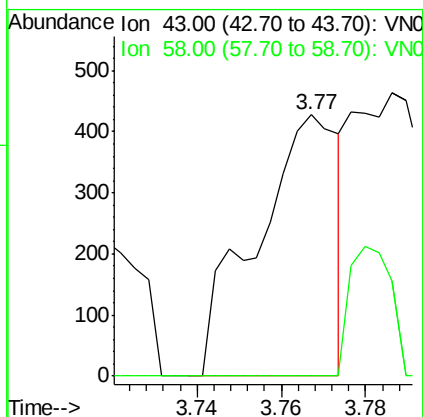
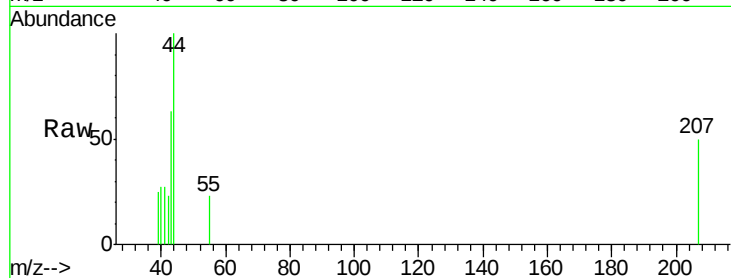




#16
Acetone
Concen: Below Cal
RT: 3.77 min Scan# 620
Delta R.T. -0.01 min
Lab File: VN061487.D
Acq: 19 May 2020 16:43

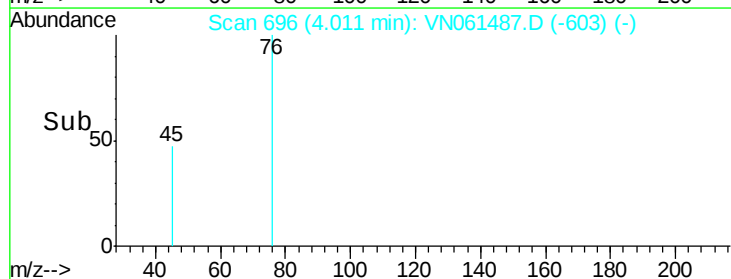
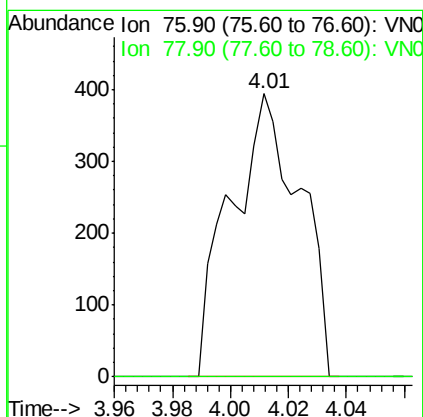
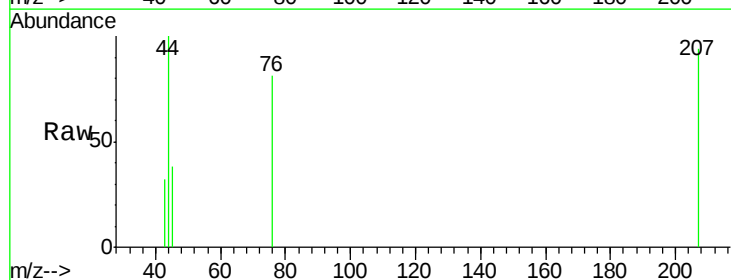
Instrument :
MSVOA_N
ClientSampled :

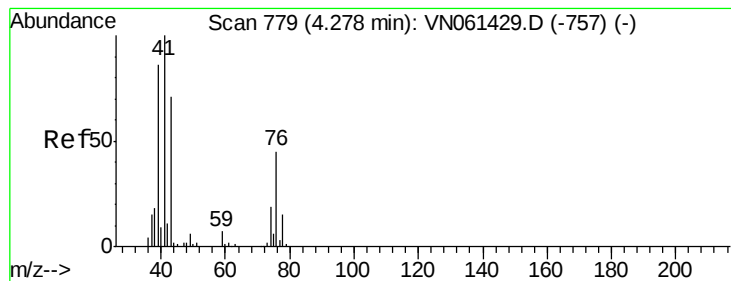
Tot Ion: 43 Resp: 575
Ion Ratio Lower Upper
43 100
58 0.0 25.6 38.4#



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.01 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN061487.D
Acq: 19 May 2020 16:43

Tgt Ion: 76 Resp: 653
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 784

Delta R.T. 0.02 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

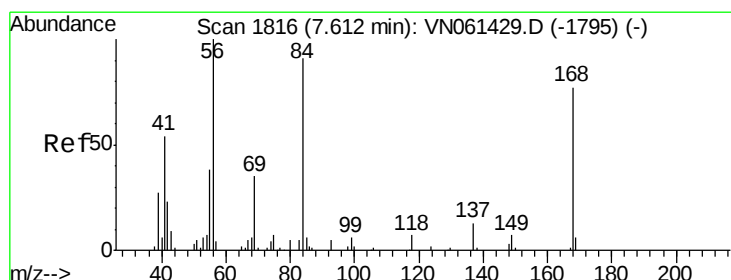
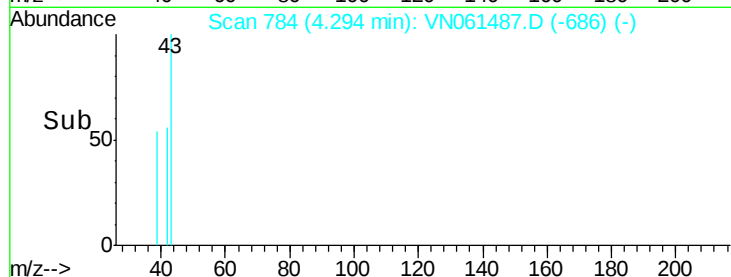
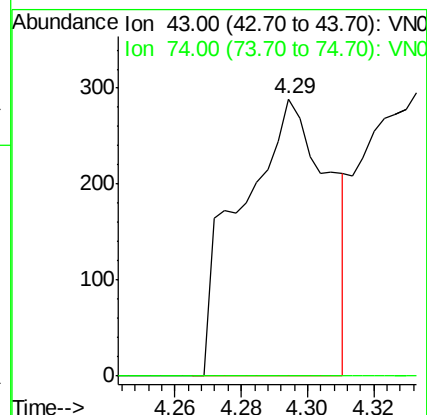
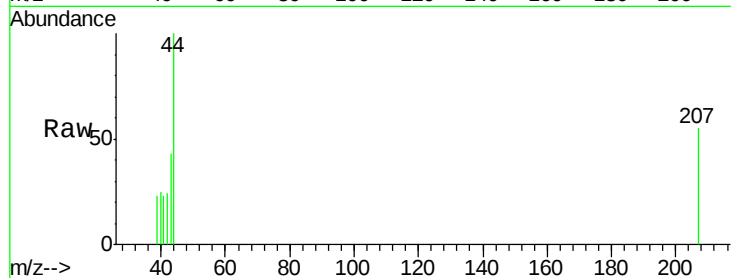
ClientSampleId :

Tot Ion: 43 Resp: 534

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

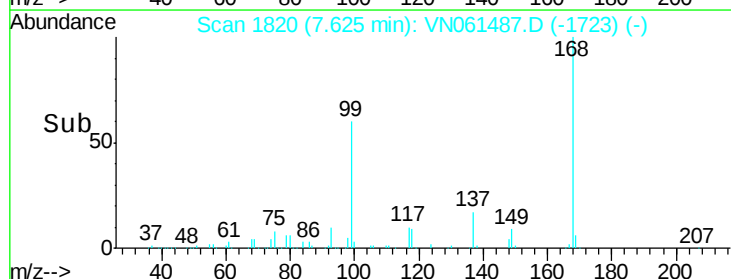
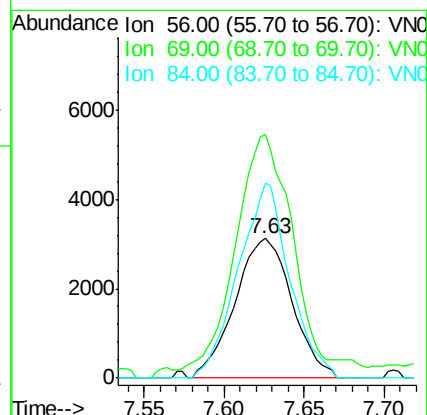
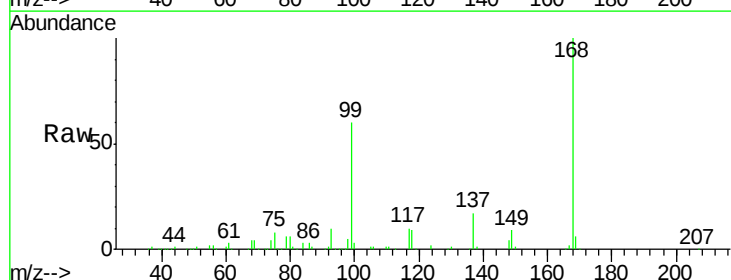
Tgt Ion: 56 Resp: 7655

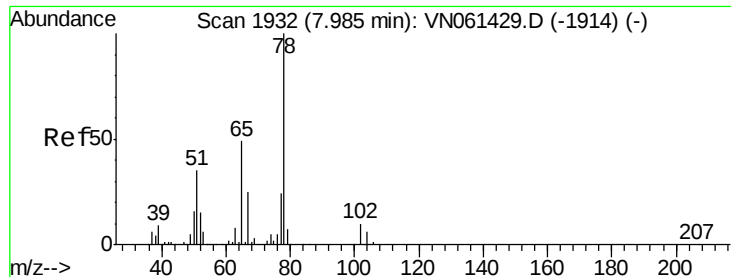
Ion Ratio Lower Upper

56 100

69 163.5 27.8 41.6#

84 140.1 72.7 109.1#

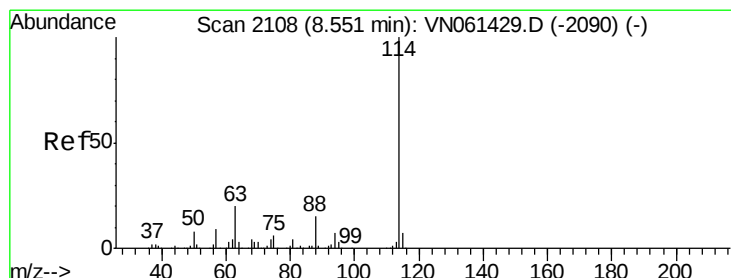
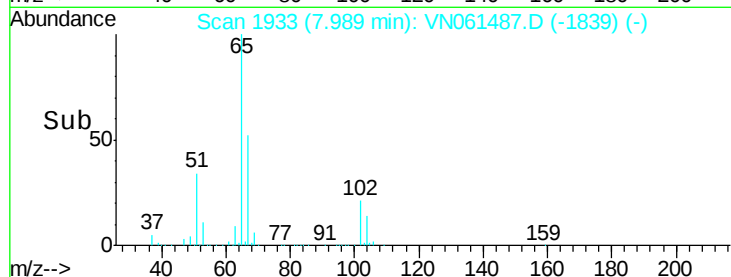
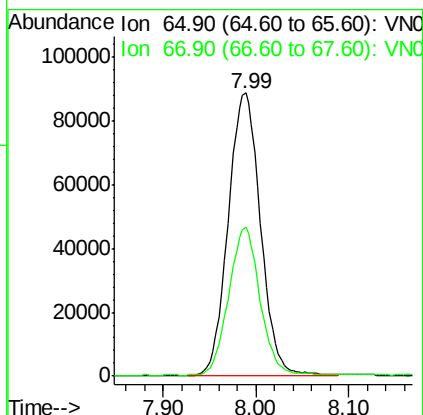
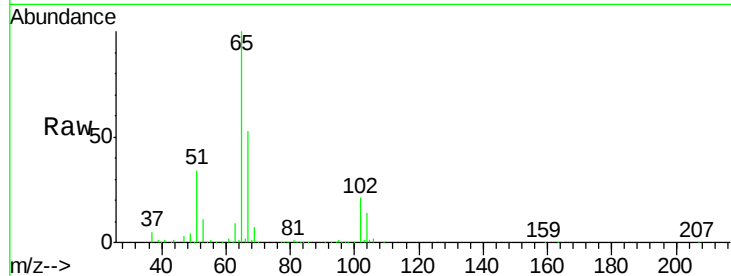




#33
 1,2-Dichloroethane-d4
 Concen: 44.009 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061487.D
 Acq: 19 May 2020 16:43

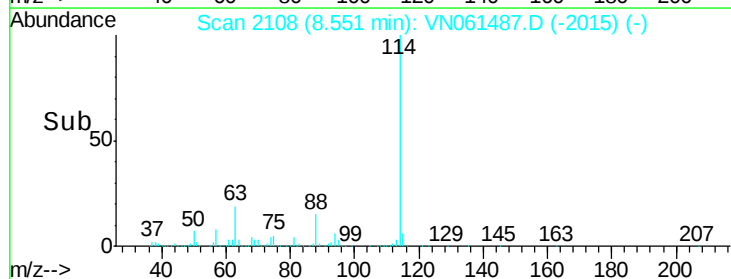
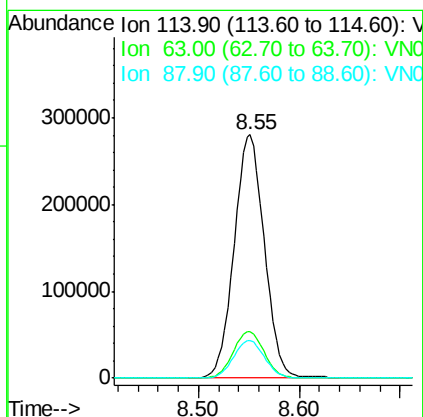
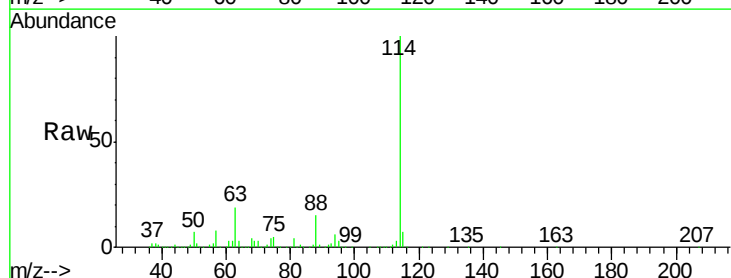
Instrument :
 MSVOA_N
 ClientSampleId :

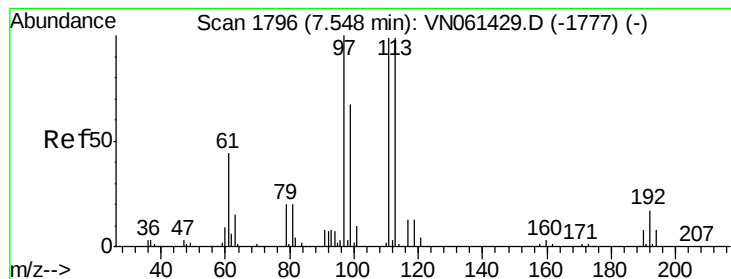
Tot Ion: 65 Resp: 215085
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061487.D
 Acq: 19 May 2020 16:43

Tgt Ion: 114 Resp: 583035
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 40.8
 88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 54.788 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

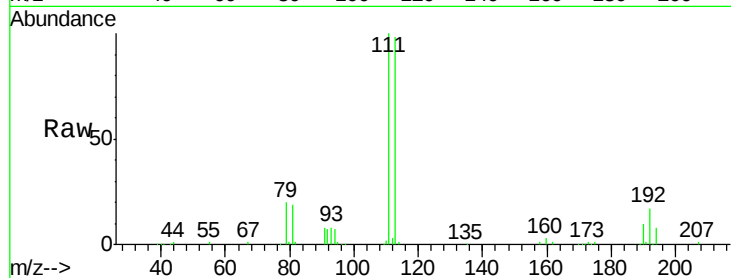
Tot Ion:113 Resp: 167343

Ion Ratio Lower Upper

113 100

111 102.4 80.6 121.0

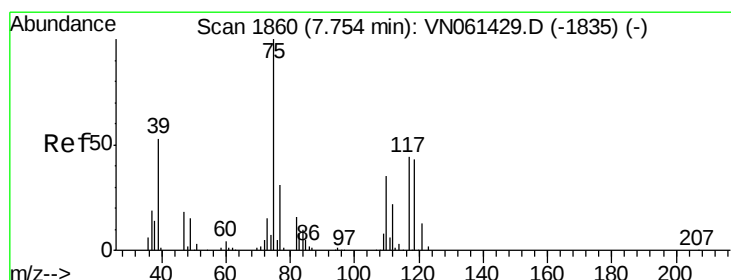
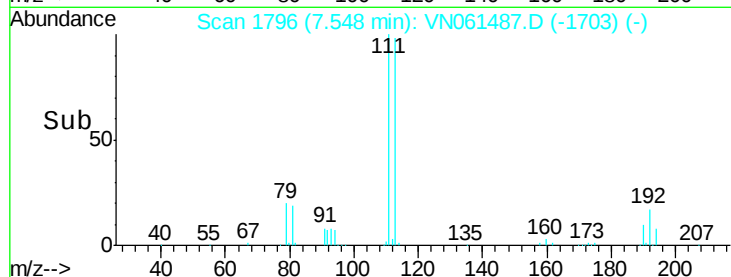
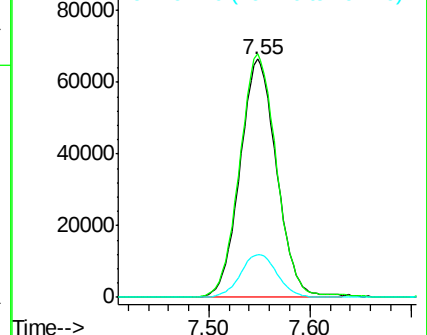
192 18.1 13.2 19.8



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: 4.725 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

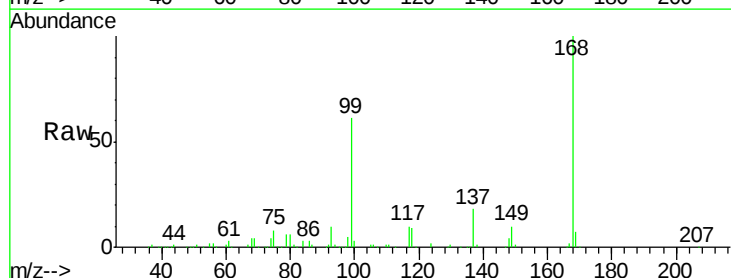
Tgt Ion: 75 Resp: 25759

Ion Ratio Lower Upper

75 100

110 10.0 17.3 51.9#

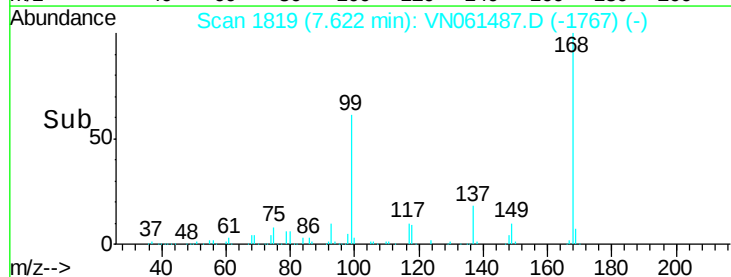
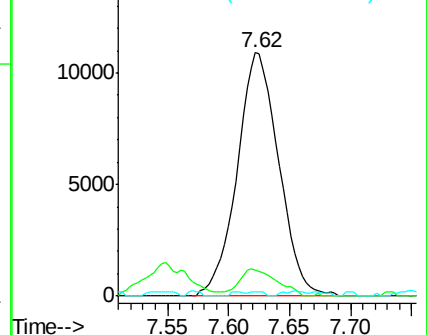
77 0.6 24.9 37.3#

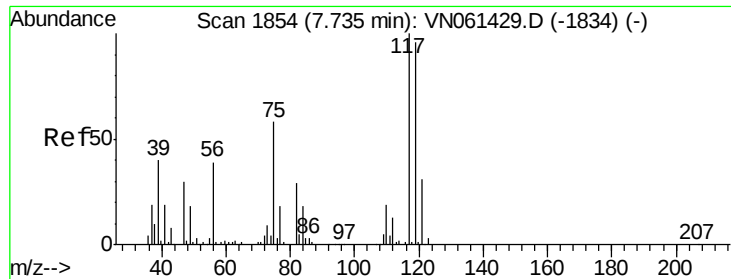


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.724 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

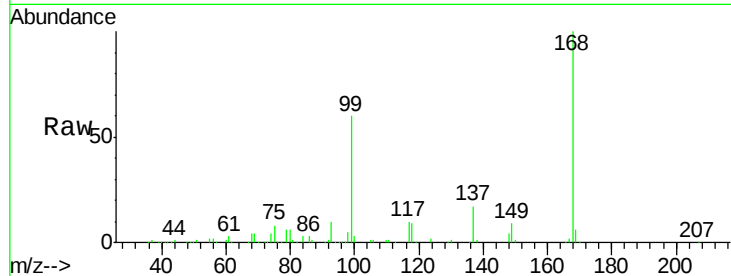
Tot Ion:117 Resp: 33754

Ion Ratio Lower Upper

117 100

119 4.3 77.0 115.6#

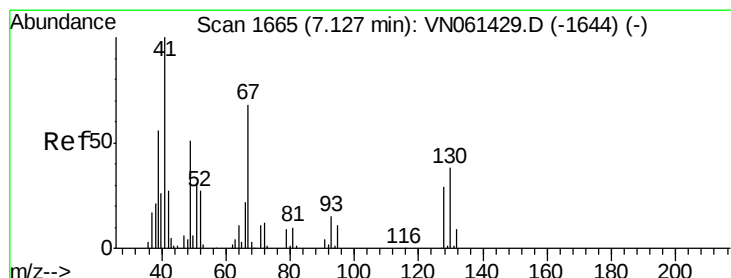
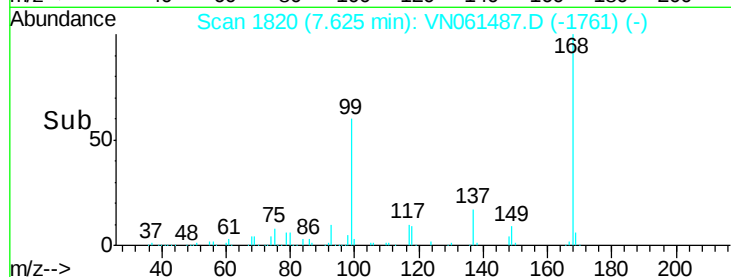
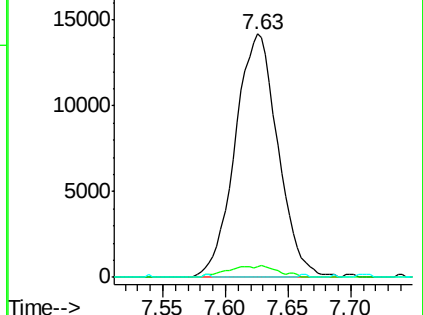
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 0.204 ug/l

RT: 7.12 min Scan# 1662

Delta R.T. -0.01 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Tgt Ion: 41 Resp: 427

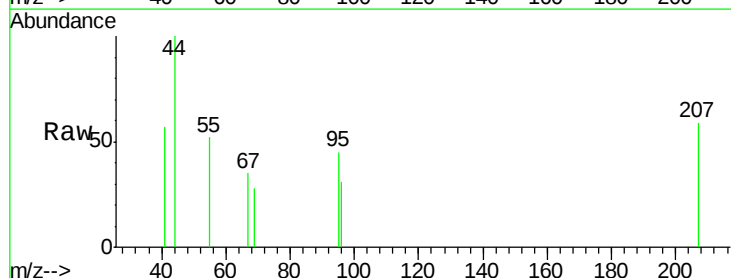
Ion Ratio Lower Upper

41 100

39 7.0 48.3 72.5#

67 23.9 74.2 111.4#

52 0.0 30.8 46.2#

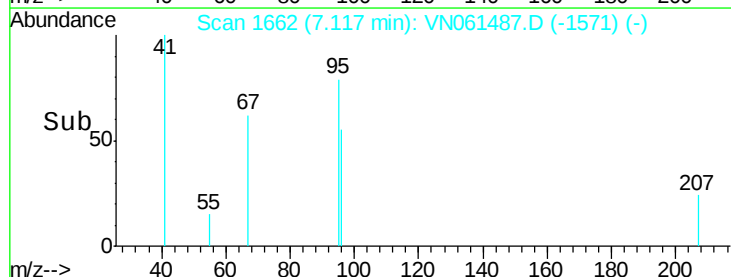
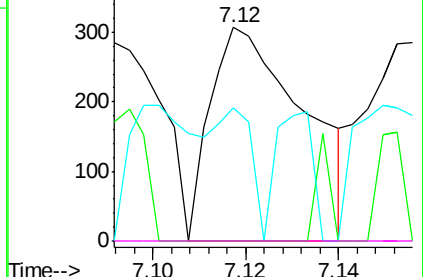


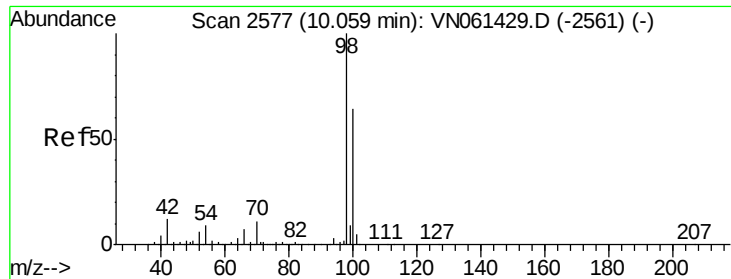
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#50

Toluene-d8

Concen: 50.508 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

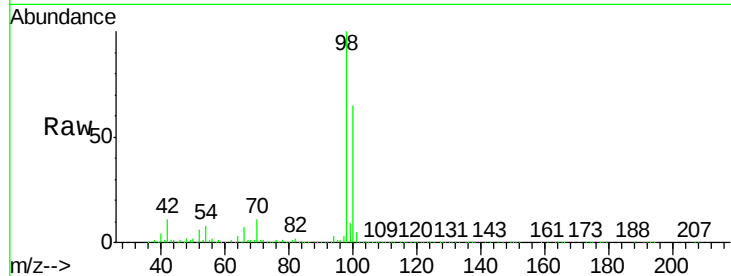
ClientSampleId :

Tot Ion: 98 Resp: 715536

Ion Ratio Lower Upper

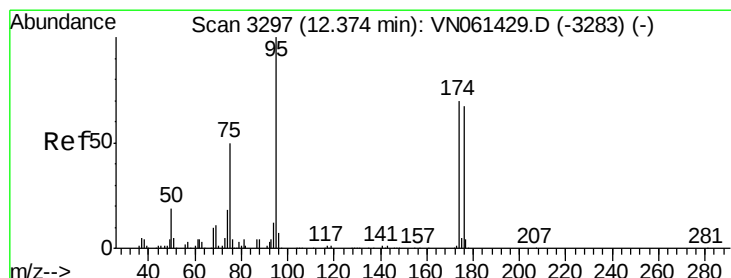
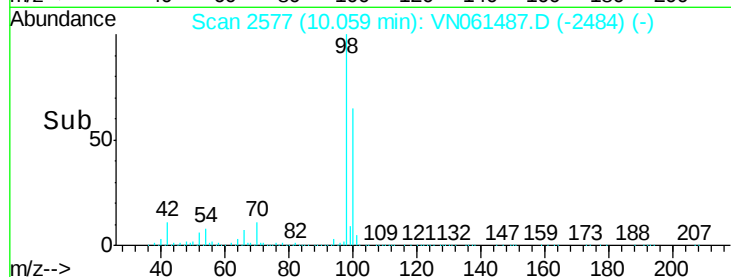
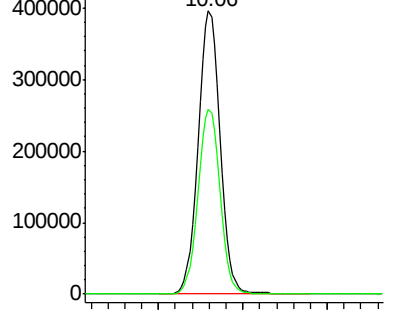
98 100

100 65.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN061429.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061429.D (-2561) (-)



#62

4-Bromofluorobenzene

Concen: 50.923 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

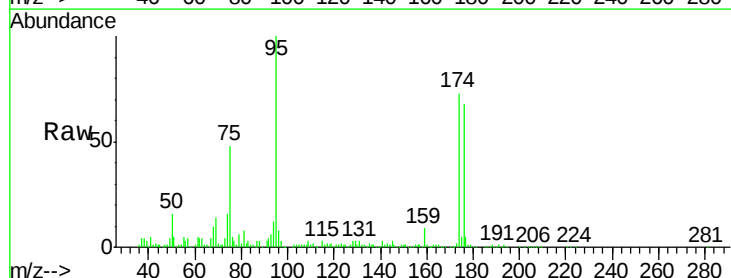
Tgt Ion: 95 Resp: 269525

Ion Ratio Lower Upper

95 100

174 74.7 0.0 141.2

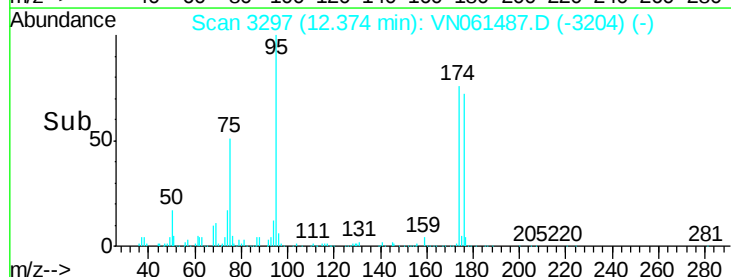
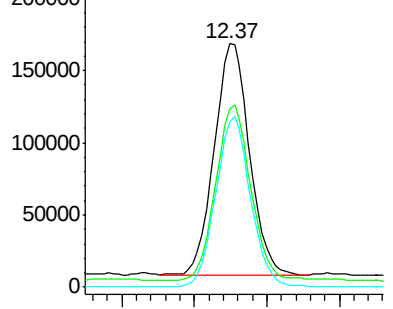
176 73.6 0.0 137.6

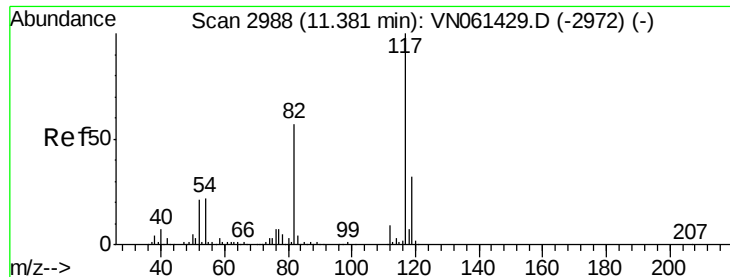


Abundance Ion 94.90 (94.60 to 95.60): VN061429.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061429.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061429.D (-3283) (-)

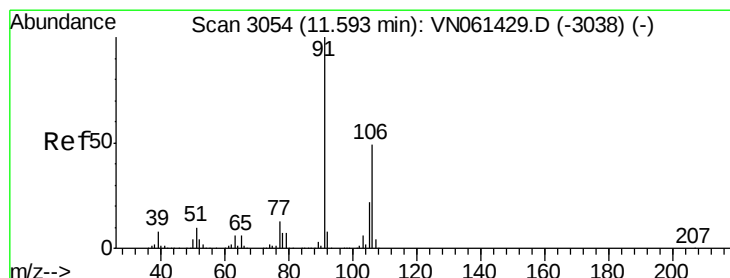
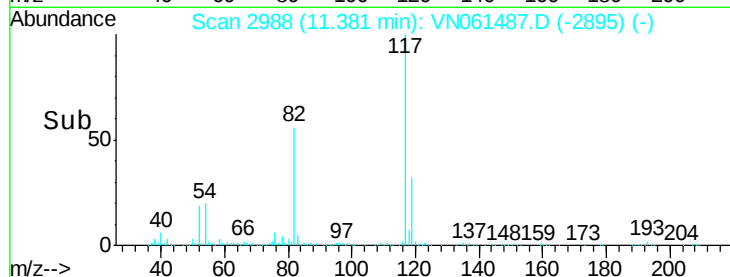
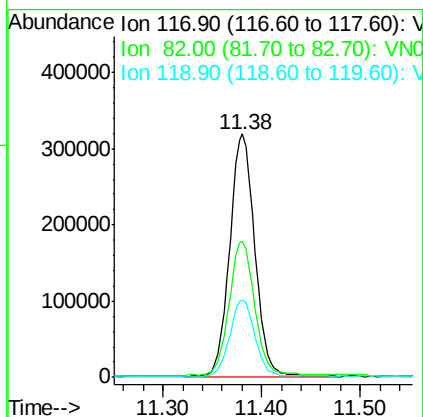
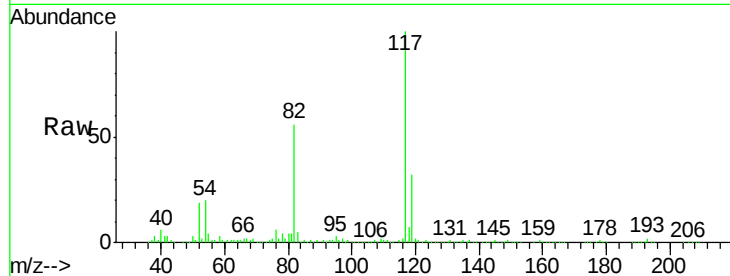




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061487.D
Acq: 19 May 2020 16:43

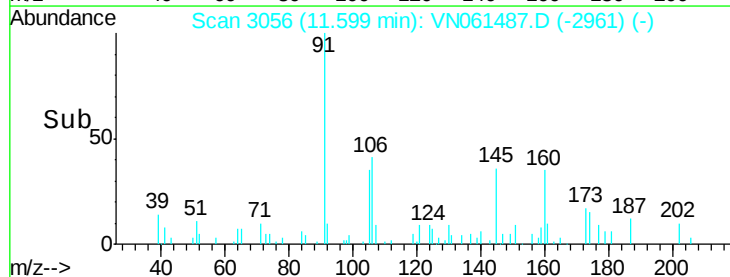
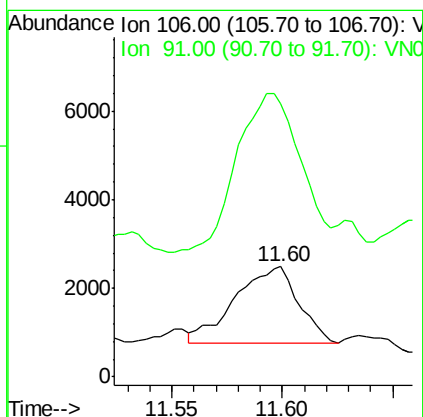
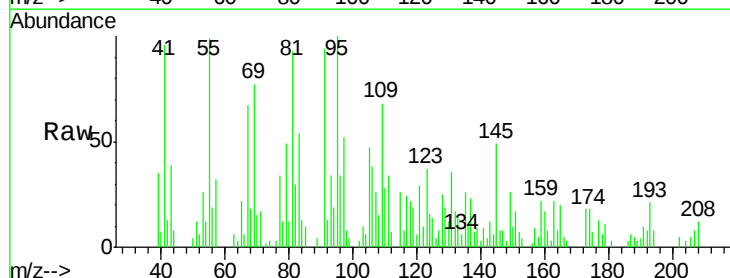
Instrument :
MSVOA_N
ClientSampled :

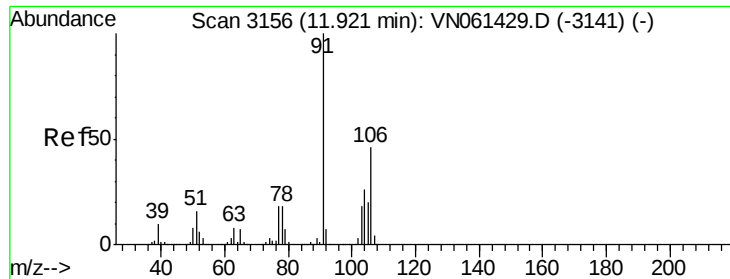
Tot Ion:117 Resp: 561515
Ion Ratio Lower Upper
117 100
82 55.4 45.2 67.8
119 31.7 25.3 37.9



#68
m/p-Xylenes
Concen: 0.438 ug/l
RT: 11.60 min Scan# 3056
Delta R.T. 0.01 min
Lab File: VN061487.D
Acq: 19 May 2020 16:43

Tgt Ion:106 Resp: 3475
Ion Ratio Lower Upper
106 100
91 208.5 163.0 244.6

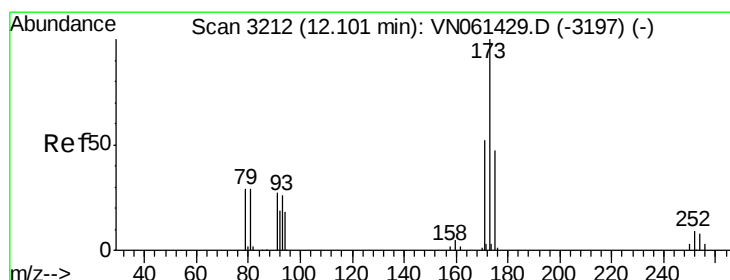
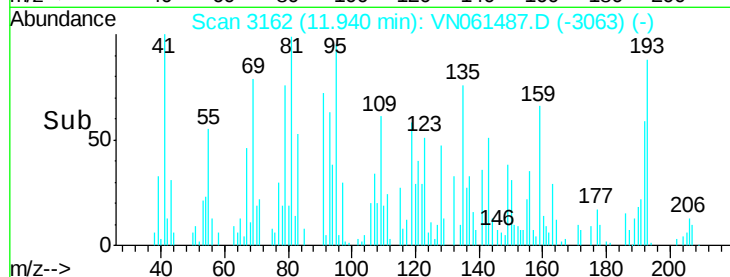
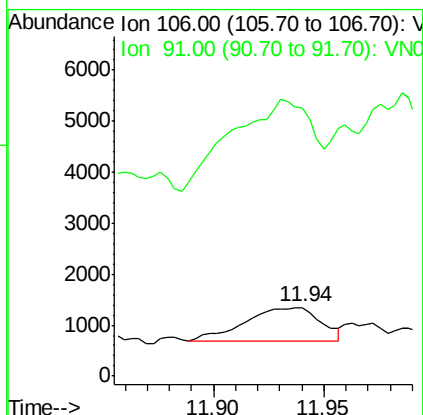
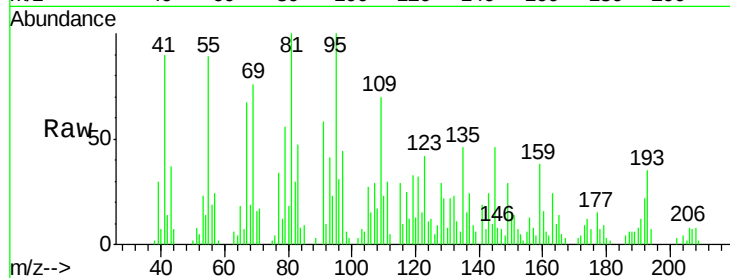




#69
o-Xylene
Concen: 0.205 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.02 min
Lab File: VN061487.D
Acq: 19 May 2020 16:43

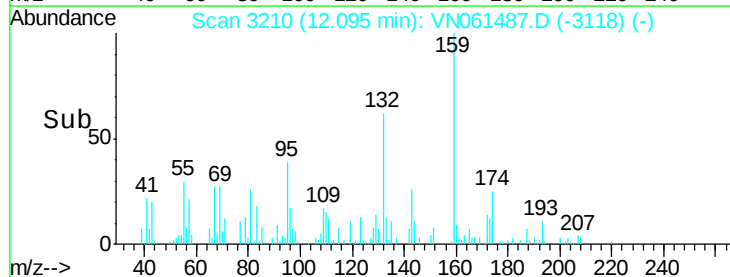
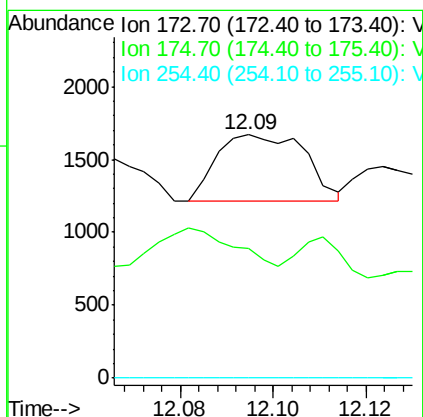
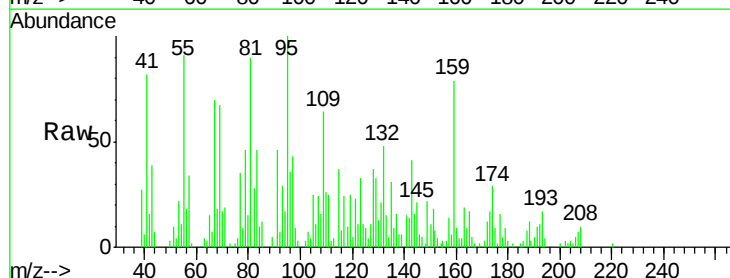
Instrument :
MSVOA_N
ClientSampled :

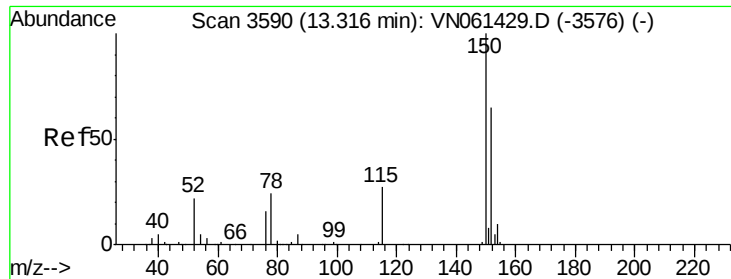
Tot Ion:106 Resp: 1571
Ion Ratio Lower Upper
106 100
91 291.5 107.9 323.7



#71
Bromoform
Concen: 2.202 ug/l
RT: 12.09 min Scan# 3210
Delta R.T. -0.01 min
Lab File: VN061487.D
Acq: 19 May 2020 16:43

Tgt Ion:173 Resp: 605
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

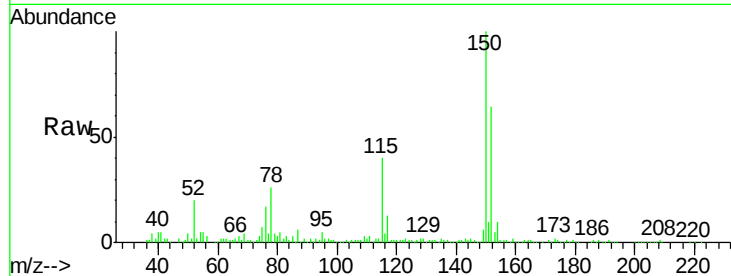
Tot Ion:152 Resp: 250043

Ion Ratio Lower Upper

152 100

115 62.2 30.9 92.5

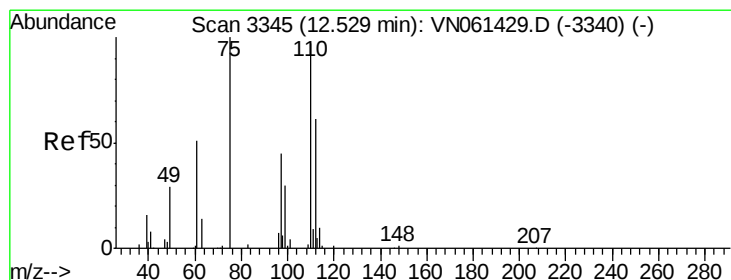
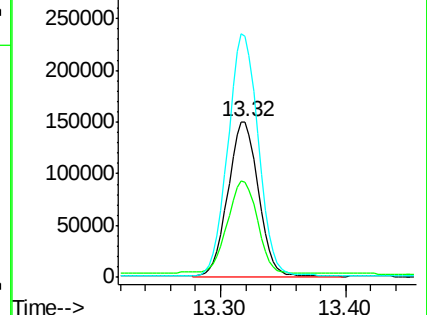
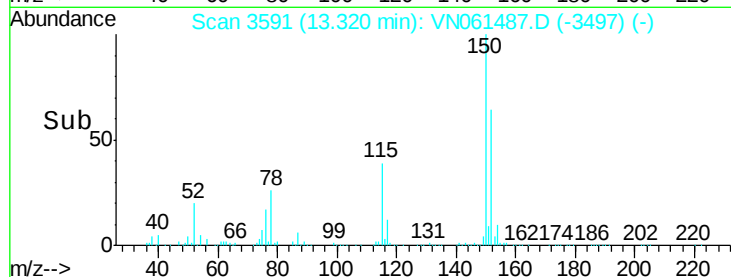
150 157.5 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.550 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061487.D

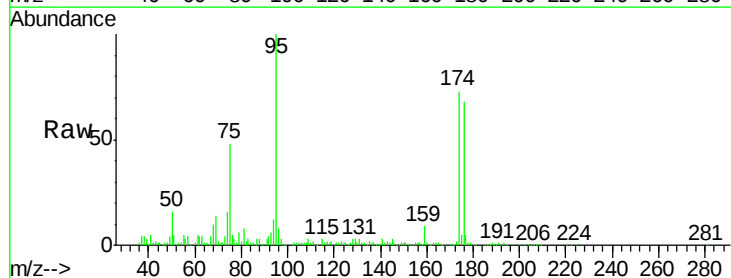
Acq: 19 May 2020 16:43

Tgt Ion: 75 Resp: 137084

Ion Ratio Lower Upper

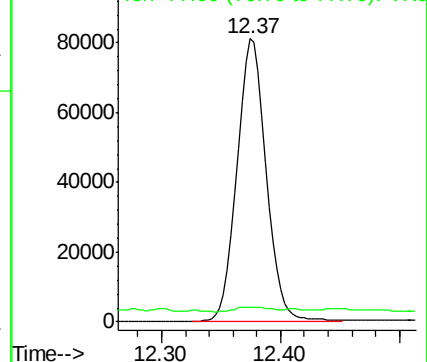
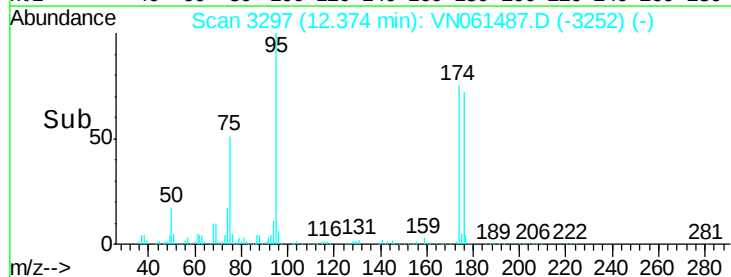
75 100

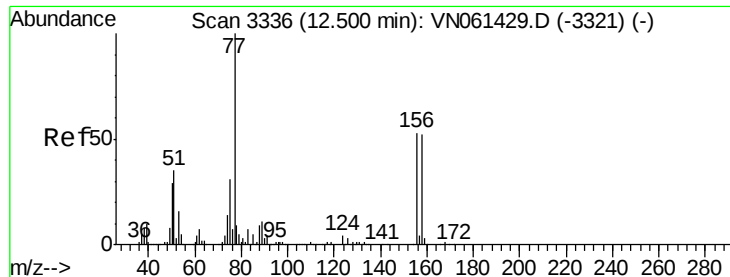
77 2.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 0.267 ug/l

RT: 12.42 min Scan# 3311

Delta R.T. -0.08 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

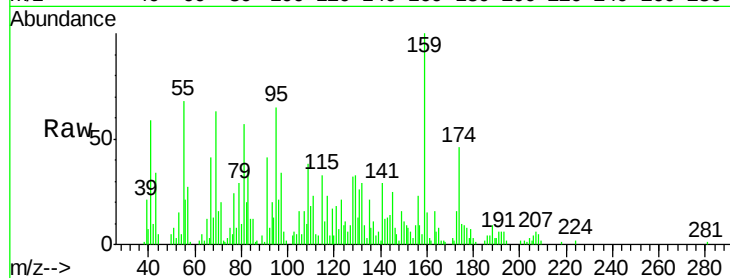
Tot Ion:156 Resp: 1164

Ion Ratio Lower Upper

156 100

77 26.5 112.3 336.9#

158 15.3 47.9 143.6#

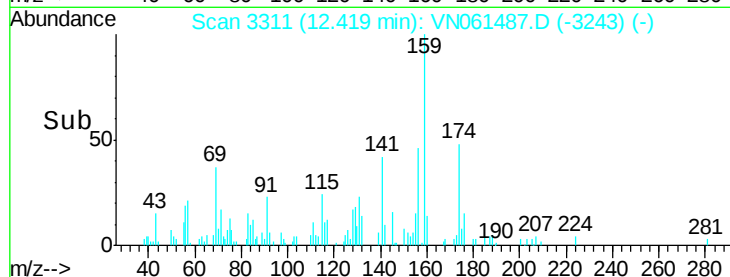


Abundance Ion 155.80 (155.50 to 156.50): V

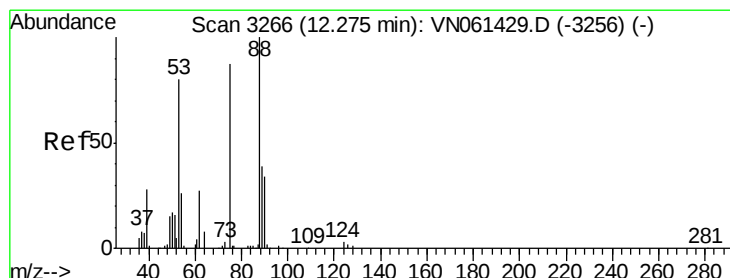
Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.779 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

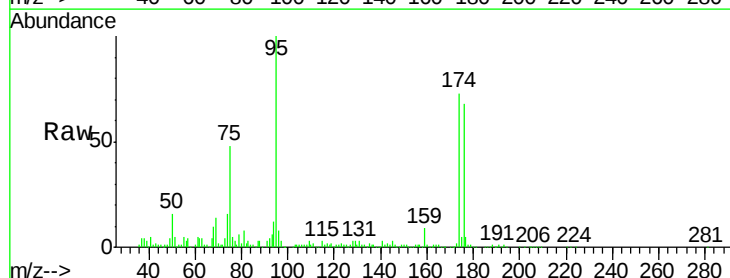
Tgt Ion: 75 Resp: 137084

Ion Ratio Lower Upper

75 100

53 0.4 75.2 112.8#

89 0.1 38.2 57.4#

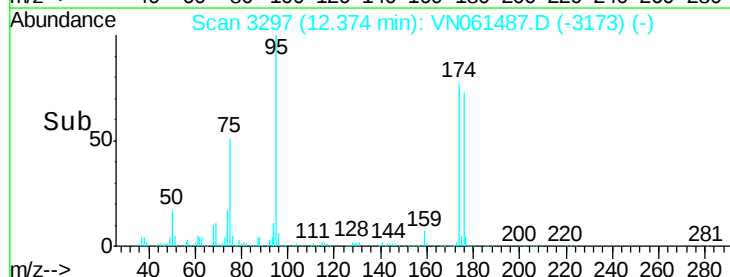


Abundance Ion 74.90 (74.60 to 75.60): VNO

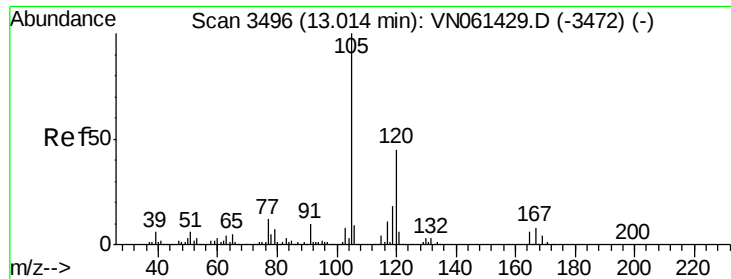
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

Time-->



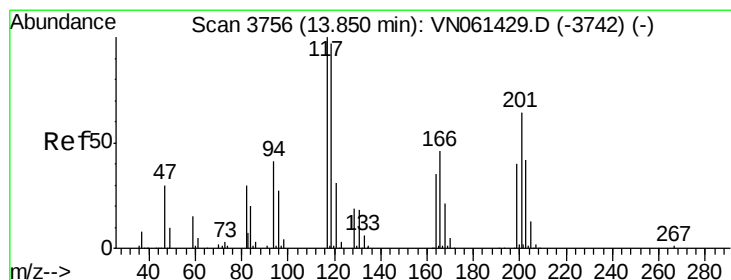
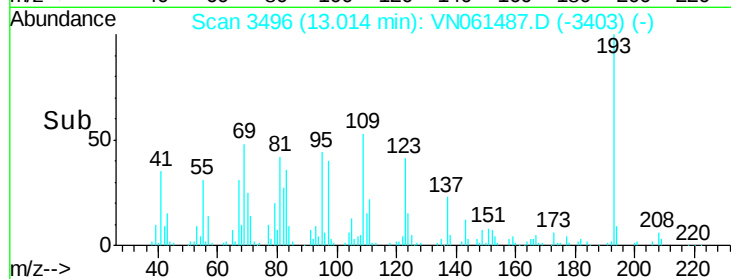
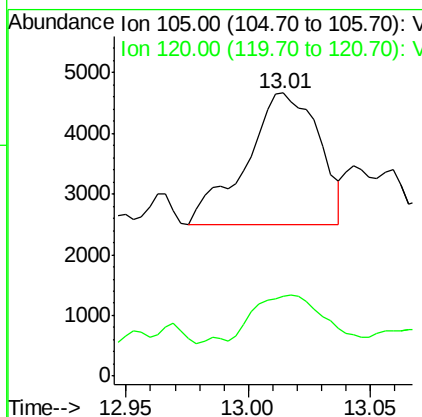
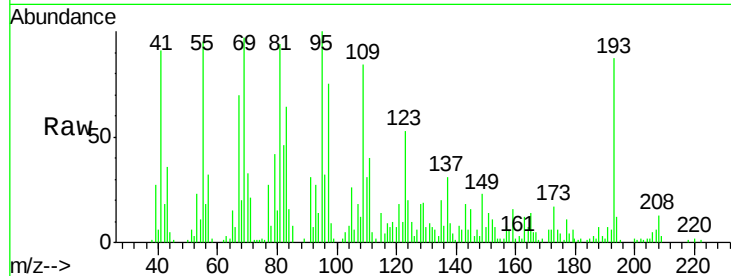
Time-->



#84
 1,2,4-Trimethylbenzene
 Concen: 0.272 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. 0.00 min
 Lab File: VN061487.D
 Acq: 19 May 2020 16:43

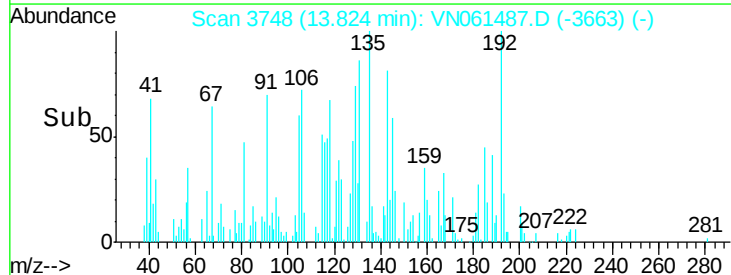
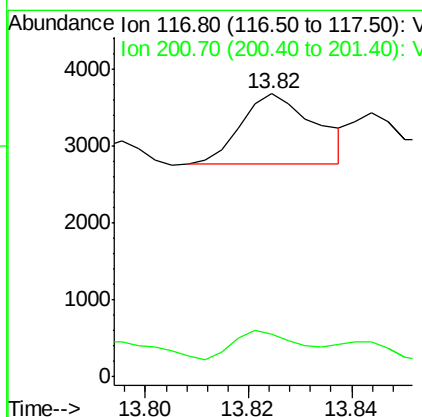
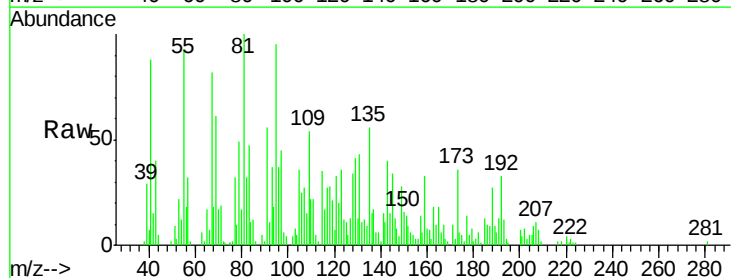
Instrument :
 MSVOA_N
 ClientSampled :

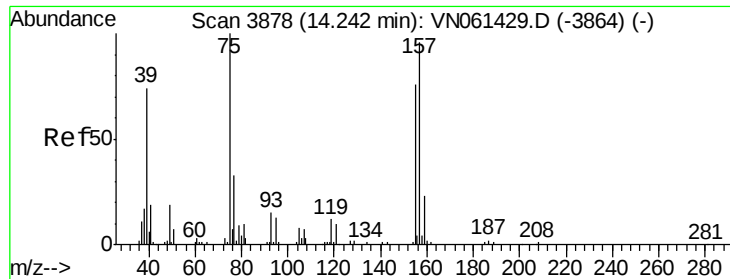
Tot Ion:105 Resp: 4475
 Ion Ratio Lower Upper
 105 100
 120 32.3 22.4 67.3



#90
 Hexachloroethane
 Concen: 0.395 ug/l
 RT: 13.82 min Scan# 3748
 Delta R.T. -0.03 min
 Lab File: VN061487.D
 Acq: 19 May 2020 16:43

Tgt Ion:117 Resp: 904
 Ion Ratio Lower Upper
 117 100
 201 34.7 32.9 98.7





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.303 ug/l

RT: 14.09 min Scan# 3832

Delta R.T. -0.15 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

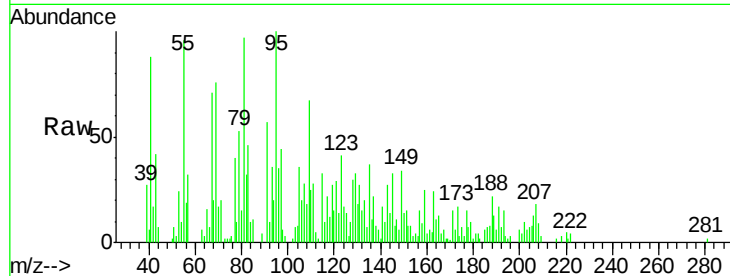
Tot Ion: 75 Resp: 338

Ion Ratio Lower Upper

75 100

155 72.5 38.9 116.7

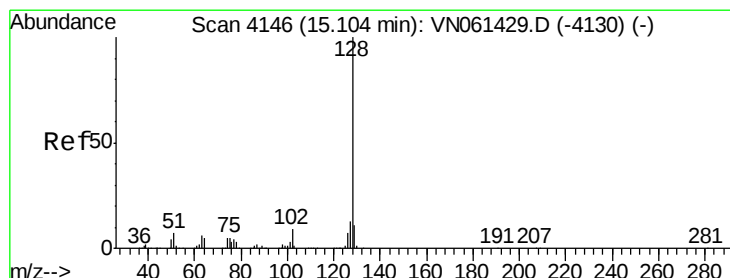
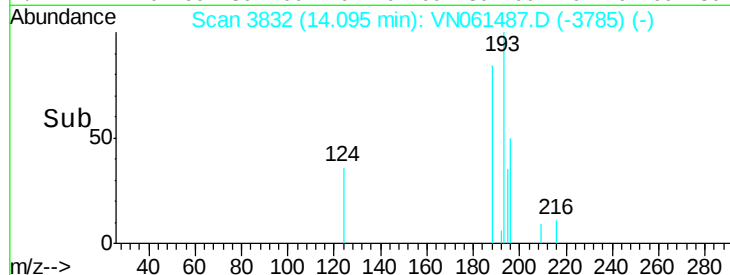
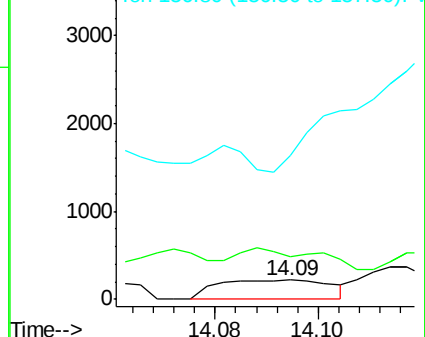
157 50.0 48.6 145.8



Abundance Ion 74.90 (74.60 to 75.60): VN061429.D (-3864) (-)

Ion 154.80 (154.50 to 155.50): VN061429.D (-3864) (-)

Ion 156.80 (156.50 to 157.50): VN061429.D (-3864) (-)



#95

Naphthalene

Concen: 0.568 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN061487.D

Acq: 19 May 2020 16:43

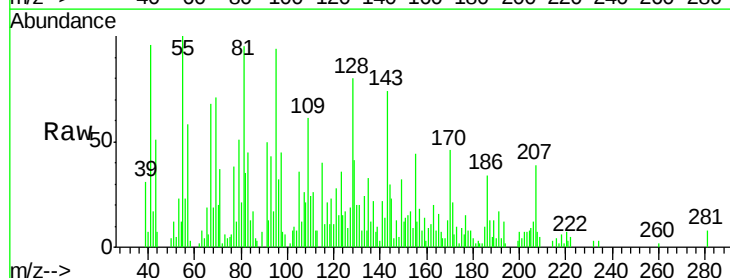
Tgt Ion: 128 Resp: 7494

Ion Ratio Lower Upper

128 100

127 9.1 10.1 15.1#

129 15.9 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN061429.D (-4130) (-)

Ion 127.00 (126.70 to 127.70): VN061429.D (-4130) (-)

Ion 129.00 (128.70 to 129.70): VN061429.D (-4130) (-)

