

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\
 Data File : VN061521.D
 Acq On : 21 May 2020 11:18
 Operator : JC/MD
 Sample : VN0521WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 22 07:10:53 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

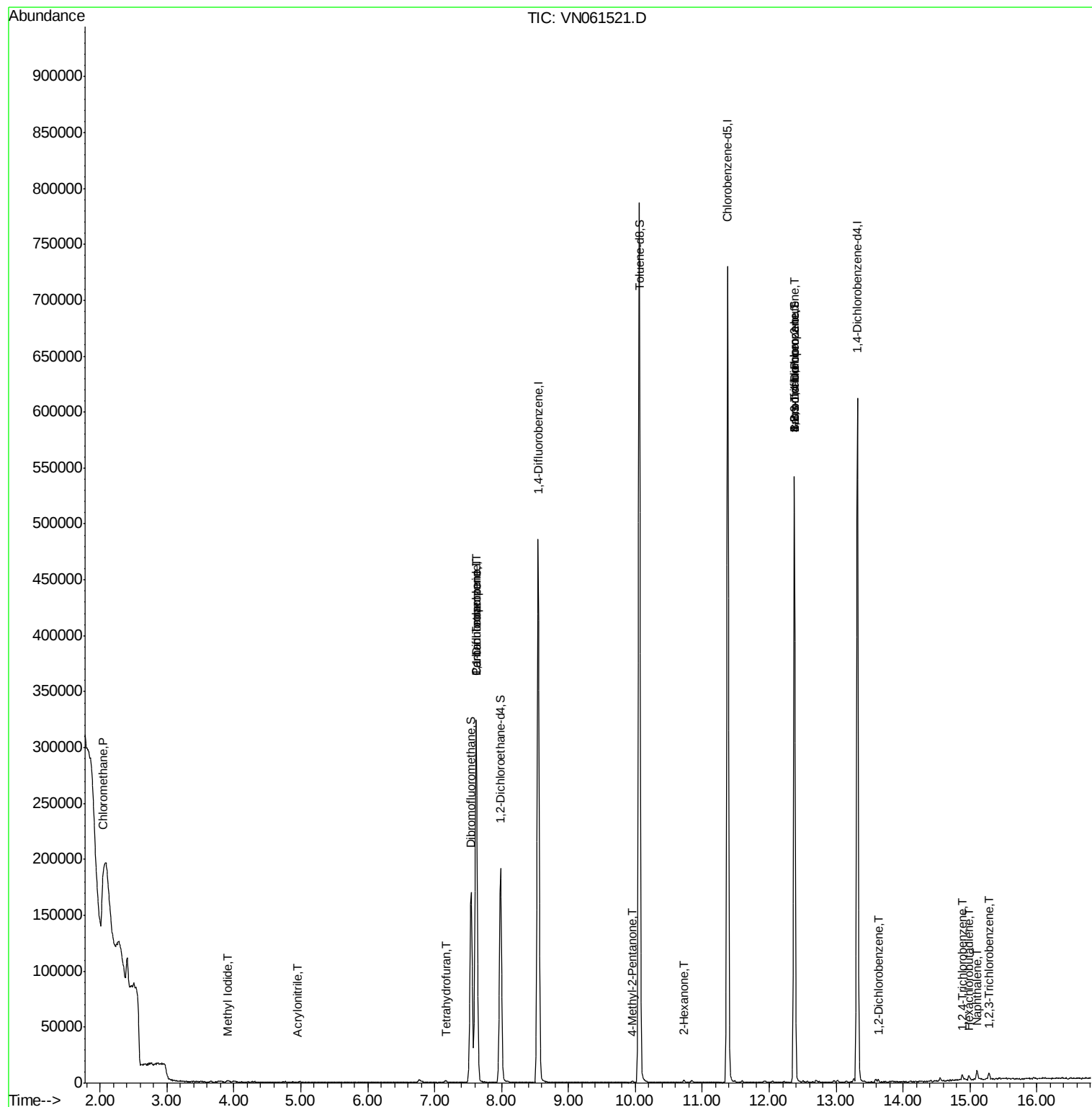
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	262179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	464250	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	432252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	165393	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	165412	42.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.54%	
35) Dibromofluoromethane	7.54	113	129872	53.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.80%	
50) Toluene-d8	10.06	98	558370	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
62) 4-Bromofluorobenzene	12.37	95	196561	46.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.28%	
Target Compounds			Qvalue			
3) Chloromethane	2.03	50	2046	0.575	ug/l #	85
5) Bromomethane	2.55	94	1755	Below Cal	#	57
10) Methyl Iodide	3.91	142	1960	0.628	ug/l #	86
13) Acrolein	3.56	56	170	Below Cal	#	16
15) Acrylonitrile	4.94	53	369	0.276	ug/l #	24
16) Acetone	3.78	43	1180	Below Cal	#	75
17) Carbon Disulfide	4.00	76	1498	Below Cal	#	75
18) Methyl Acetate	4.27	43	342	Below Cal	#	49
29) Tetrahydrofuran	7.17	42	1123	0.952	ug/l #	59
31) Cyclohexane	7.62	56	5543	Below Cal	#	14
36) 1,1-Dichloropropene	7.62	75	20630	4.752	ug/l #	50
38) Carbon Tetrachloride	7.62	117	27186	6.801	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	1137	0.304	ug/l #	67
59) 2-Hexanone	10.72	43	1606	0.593	ug/l	83
71) Bromoform	12.38	173	1557	2.628	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	98758	27.828	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	98758	73.820	ug/l #	12
91) 1,2-Dichlorobenzene	13.63	146	1239	0.245	ug/l	75
93) 1,2,4-Trichlorobenzene	14.89	180	1919	0.700	ug/l	97
94) Hexachlorobutadiene	14.98	225	876	0.719	ug/l	85
95) Naphthalene	15.10	128	8551	0.981	ug/l	97
96) 1,2,3-Trichlorobenzene	15.28	180	2296	0.841	ug/l	88

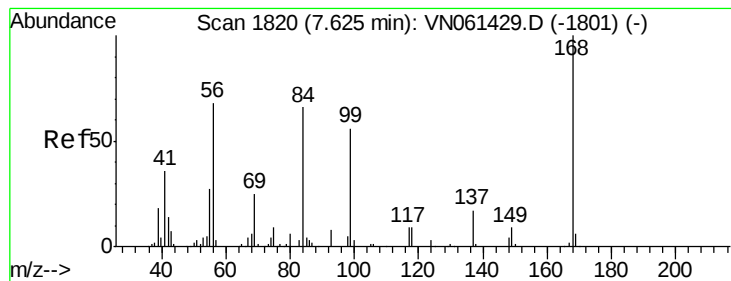
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

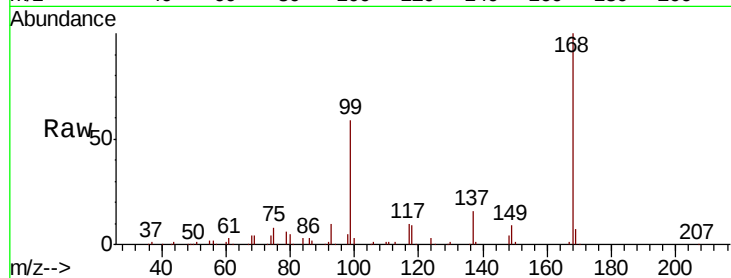
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 262179

Ion Ratio Lower Upper

168 100

99 59.1 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

120000

100000

80000

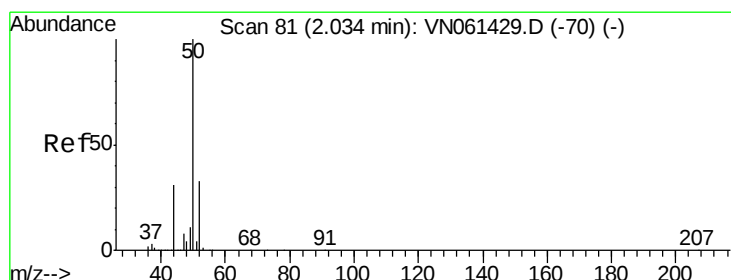
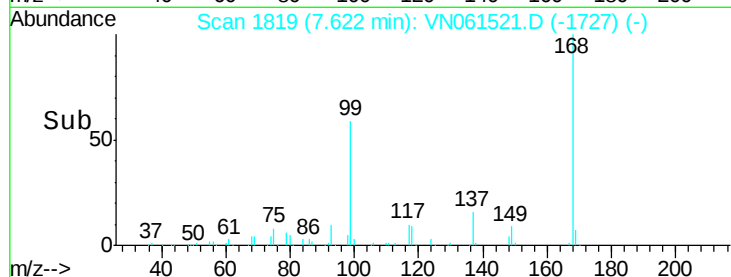
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.575 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061521.D

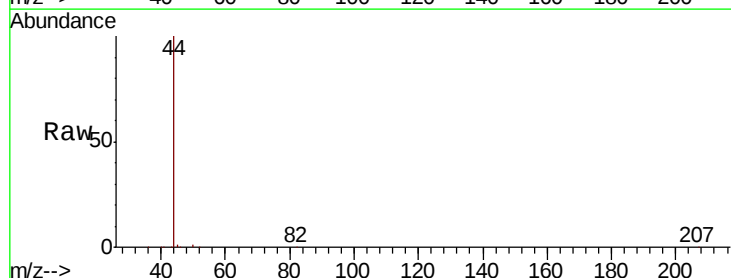
Acq: 21 May 2020 11:18

Tgt Ion: 50 Resp: 2046

Ion Ratio Lower Upper

50 100

52 25.0 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

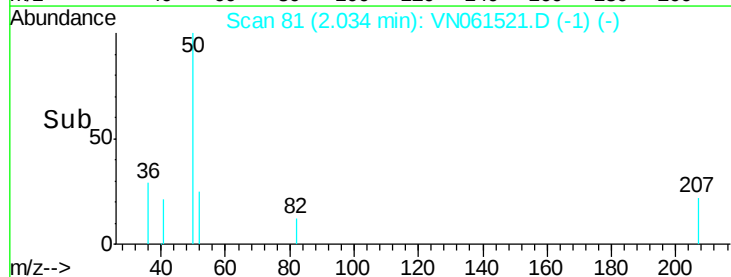
1500

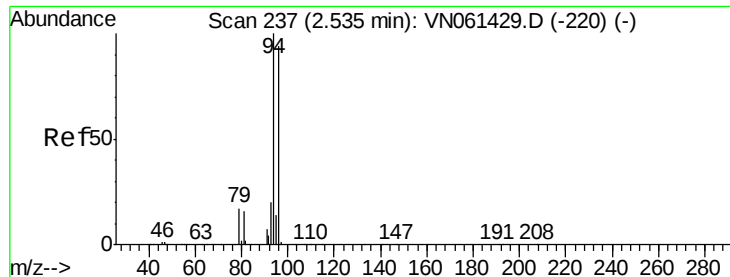
1000

500

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

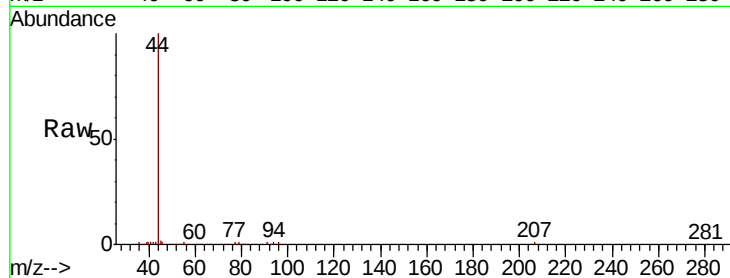
ClientSampled :

Tot Ion: 94 Resp: 1755

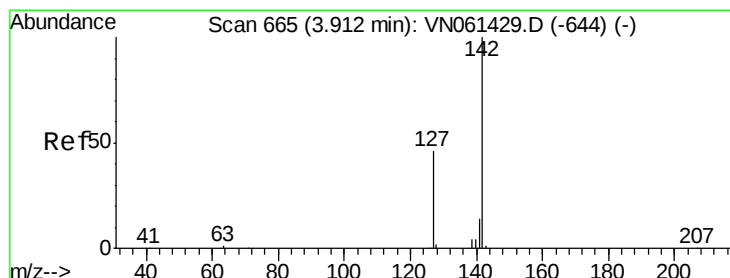
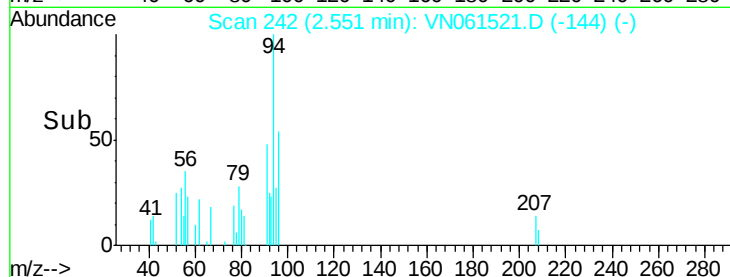
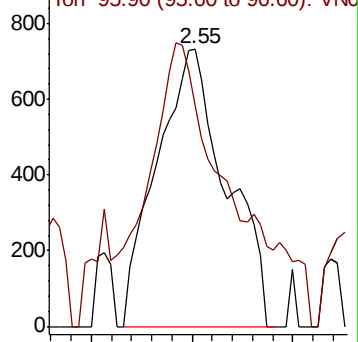
Ion Ratio Lower Upper

94 100

96 52.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN061429.D (-220) (-)



#10

Methyl Iodide

Concen: 0.628 ug/l

RT: 3.91 min Scan# 666

Delta R.T. 0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

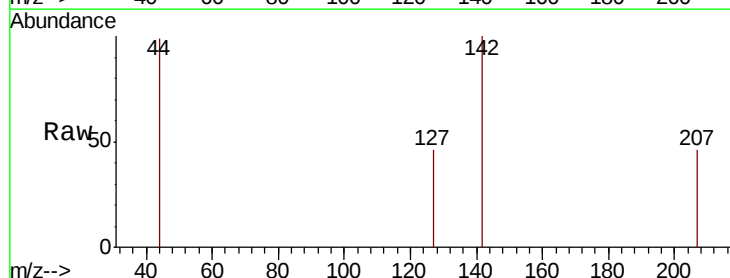
Tgt Ion: 142 Resp: 1960

Ion Ratio Lower Upper

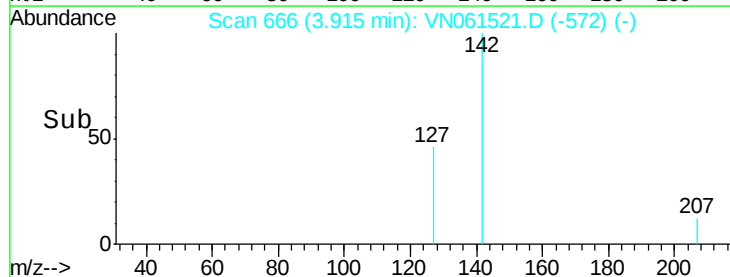
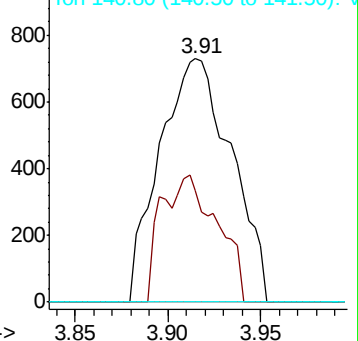
142 100

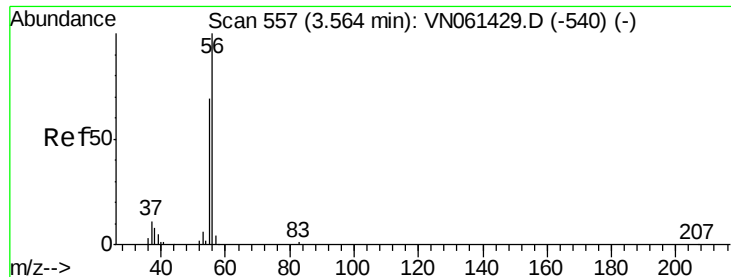
127 40.7 36.7 55.1

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN061429.D (-644) (-)





#13

Acrolein

Concen: Below Cal

RT: 3.56 min Scan# 557

Delta R.T. 0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

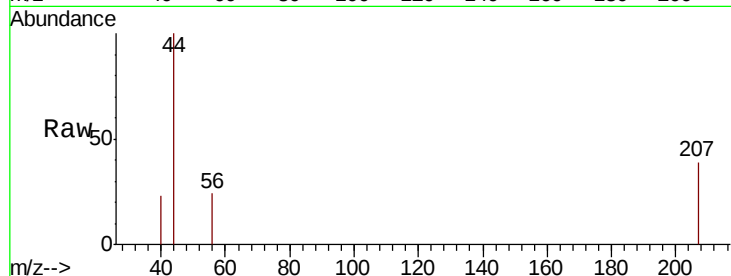
ClientSampleId :

Tot Ion: 56 Resp: 170

Ion Ratio Lower Upper

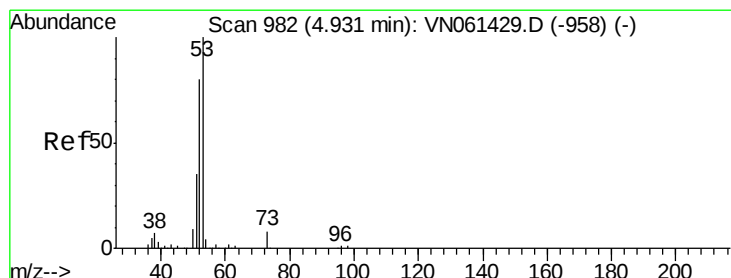
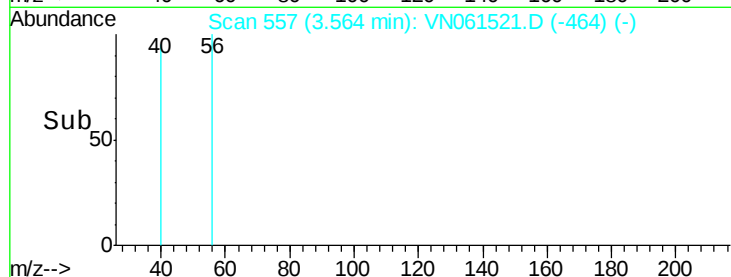
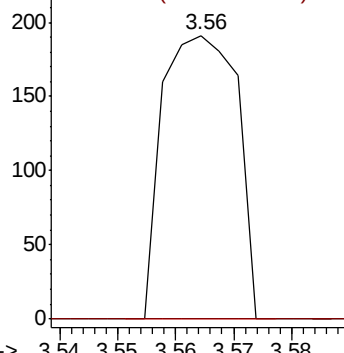
56 100

55 0.0 54.8 82.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acrylonitrile

Concen: 0.276 ug/l

RT: 4.94 min Scan# 986

Delta R.T. 0.01 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

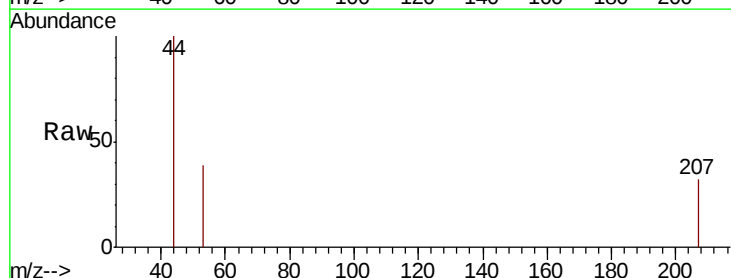
Tgt Ion: 53 Resp: 369

Ion Ratio Lower Upper

53 100

52 7.9 64.7 97.1#

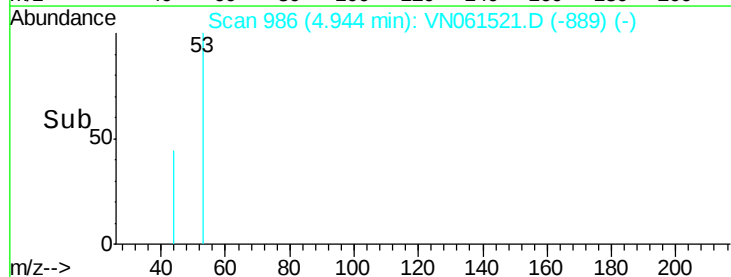
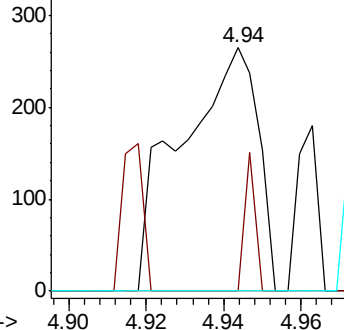
51 0.0 29.5 44.3#

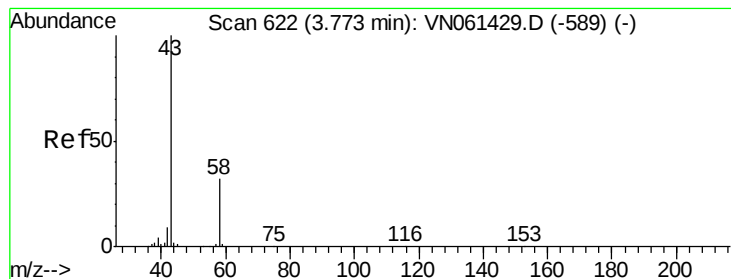


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

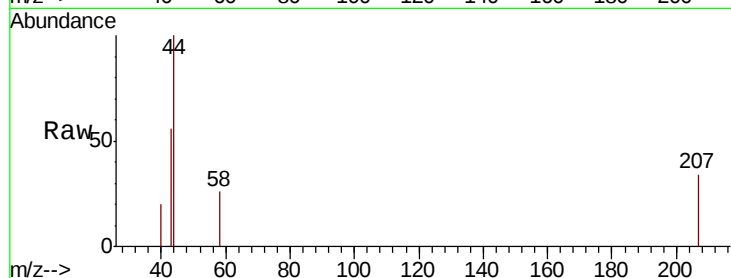
ClientSampled :

Tot Ion: 43 Resp: 1180

Ion Ratio Lower Upper

43 100

58 46.0 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

500

400

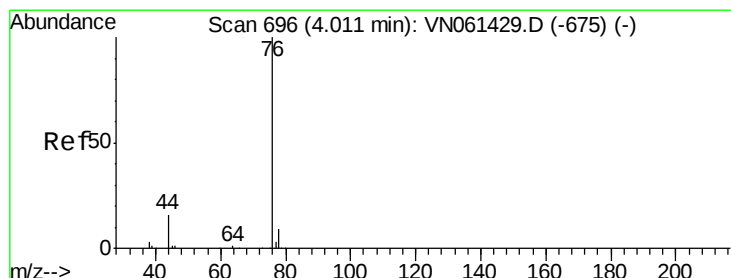
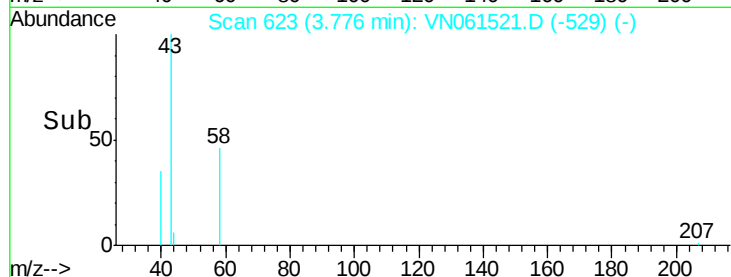
300

200

100

0

Time--> 3.75 3.80 3.85



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN061521.D

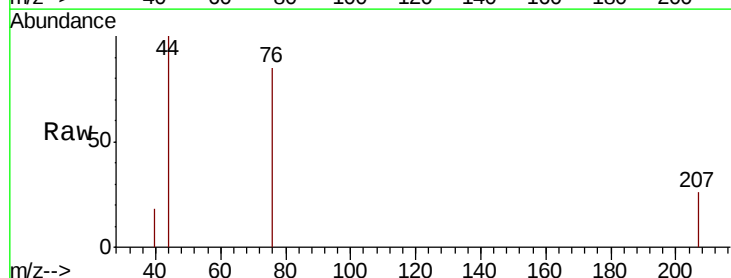
Acq: 21 May 2020 11:18

Tgt Ion: 76 Resp: 1498

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.00

800

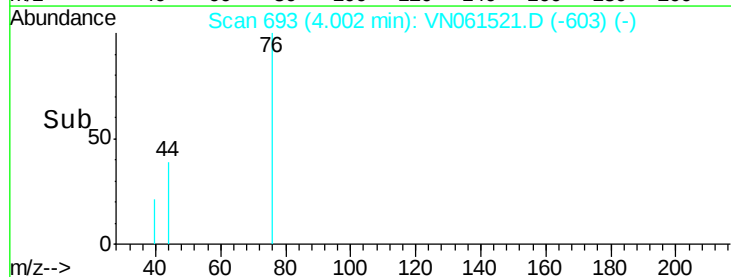
600

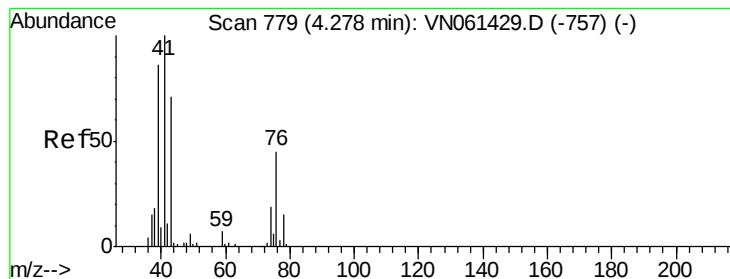
400

200

0

Time--> 3.95 4.00 4.05





#18

Methyl Acetate

Concen: Below Cal

RT: 4.27 min Scan# 777

Delta R.T. -0.01 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

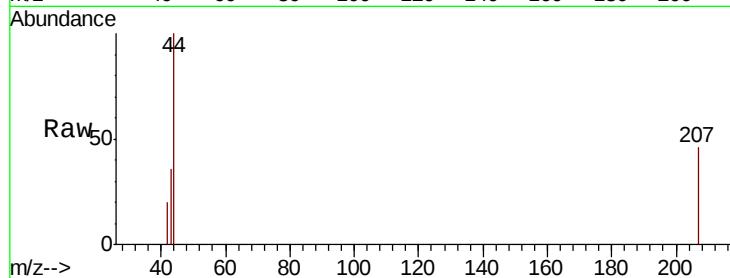
ClientSampled :

Tot Ion: 43 Resp: 342

Ion Ratio Lower Upper

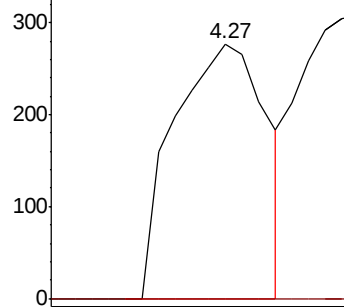
43 100

74 0.0 20.8 31.2#

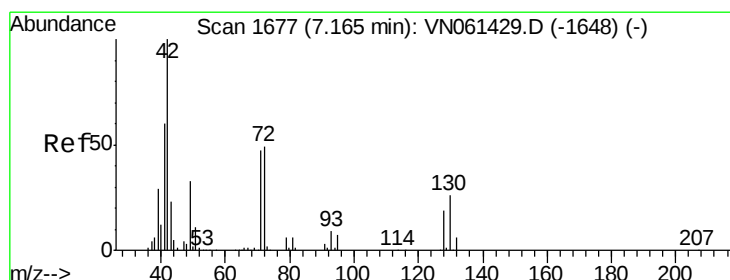
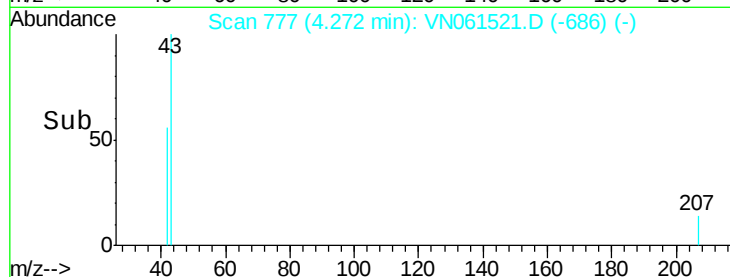


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



Time--> 4.24 4.26 4.28



#29

Tetrahydrofuran

Concen: 0.952 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

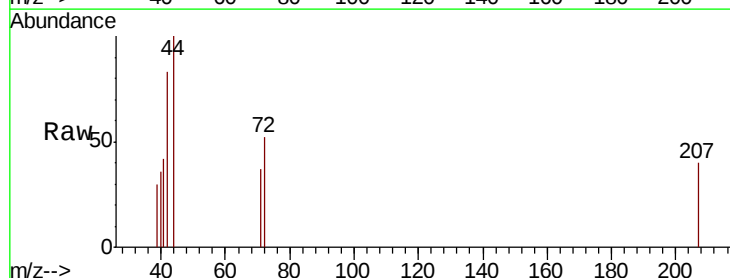
Tgt Ion: 42 Resp: 1123

Ion Ratio Lower Upper

42 100

72 29.9 39.0 58.6#

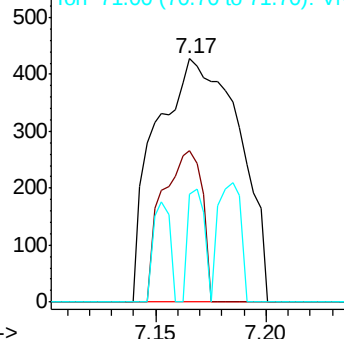
71 9.3 36.9 55.3#



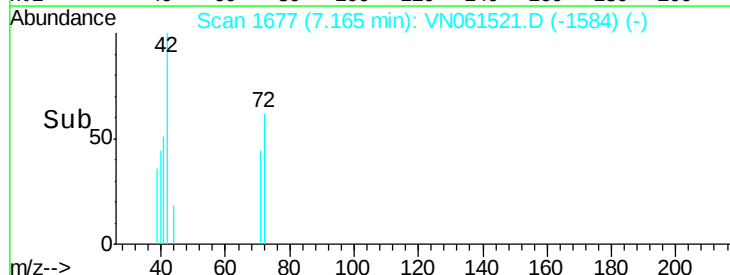
Abundance Ion 42.00 (41.70 to 42.70): VN0

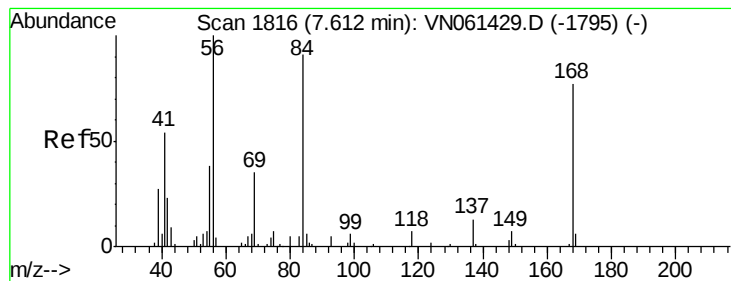
Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time--> 7.15 7.20





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

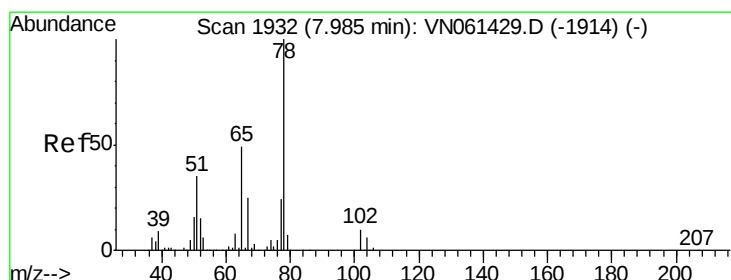
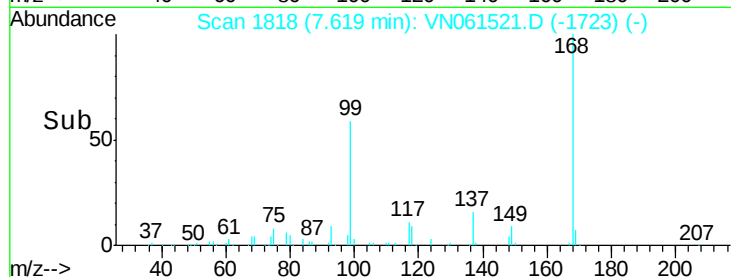
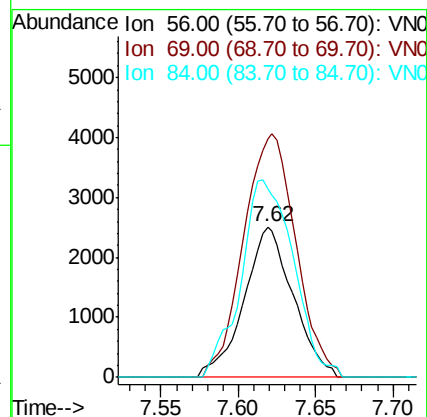
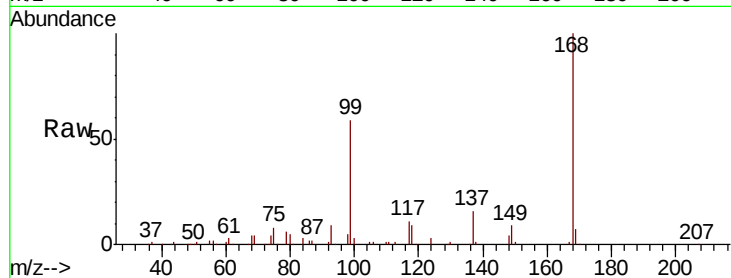
Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5543

Ion	Ratio	Lower	Upper
56	100		
69	158.7	27.8	41.6#
84	125.8	72.7	109.1#



#33

1,2-Dichloroethane-d4

Concen: 42.274 ug/l

RT: 7.99 min Scan# 1932

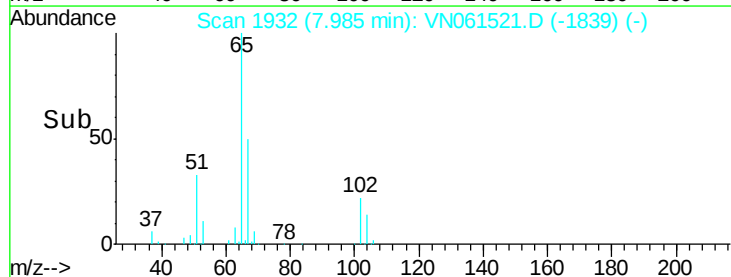
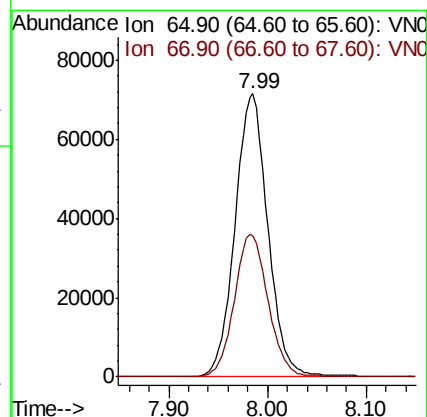
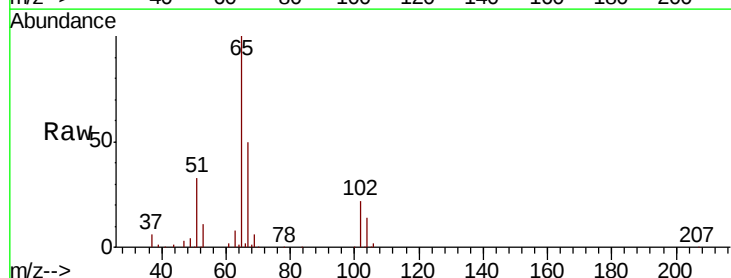
Delta R.T. -0.00 min

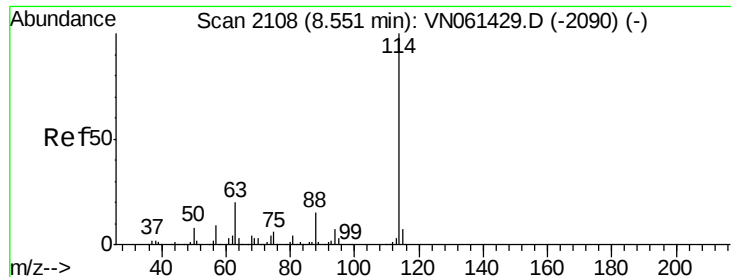
Lab File: VN061521.D

Acq: 21 May 2020 11:18

Tgt Ion: 65 Resp: 165412

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	101.4

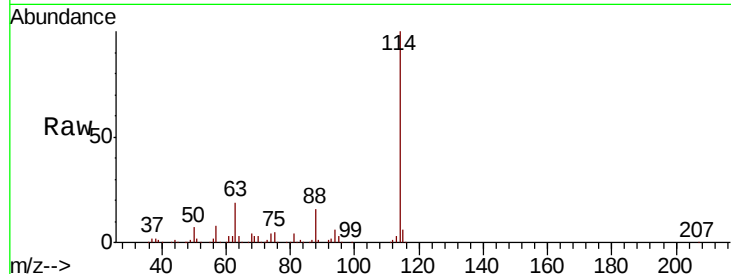




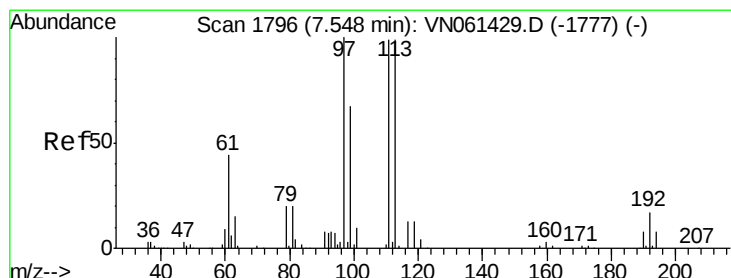
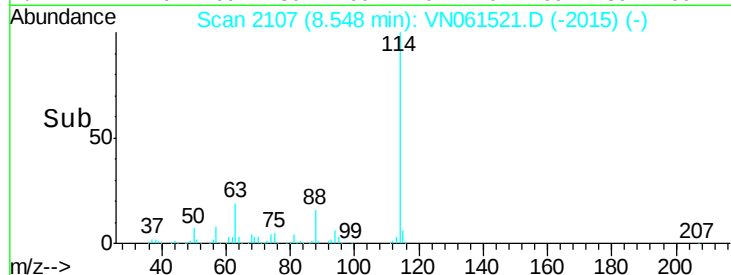
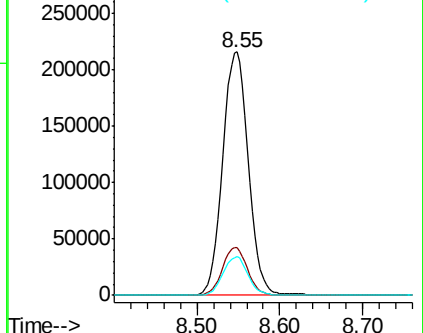
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061521.D
 Acq: 21 May 2020 11:18

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	40.8
88	15.8	0.0	30.8

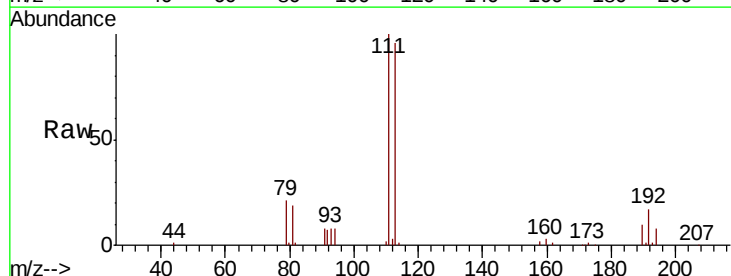


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

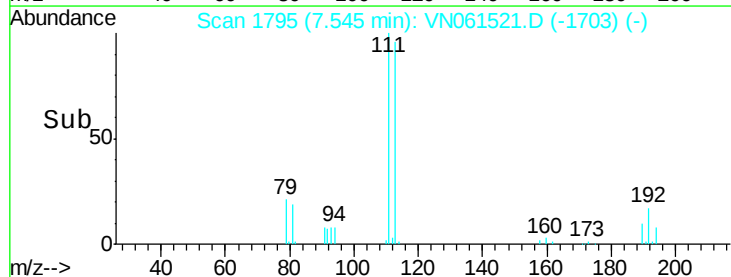
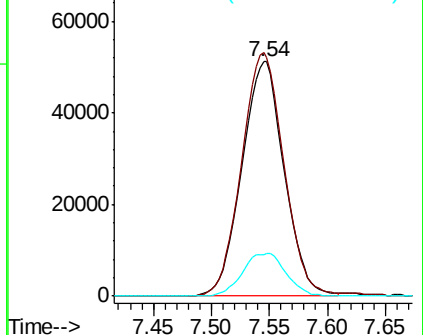


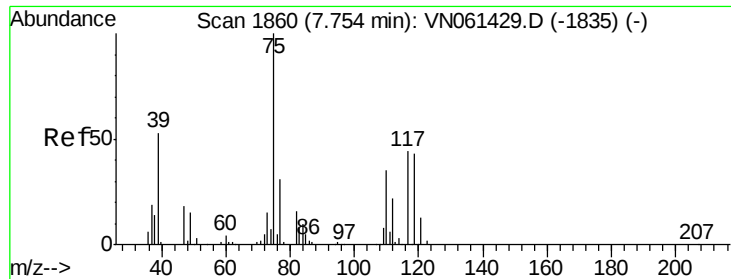
#35
 Dibromofluoromethane
 Concen: 53.400 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VN061521.D
 Acq: 21 May 2020 11:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.7	80.6	121.0
192	18.9	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: 4.752 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.14 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :
MSVOA_N
ClientSampleId :

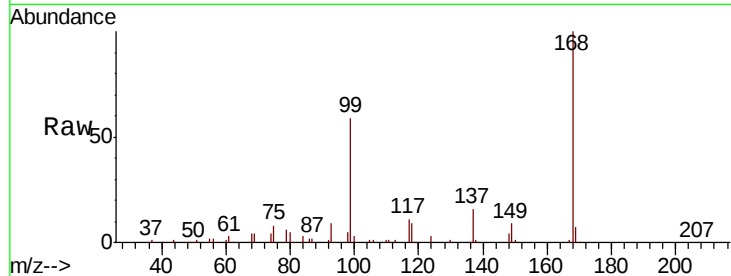
Tot Ion: 75 Resp: 20630

Ion Ratio Lower Upper

75 100

110 9.5 17.3 51.9#

77 0.0 24.9 37.3#

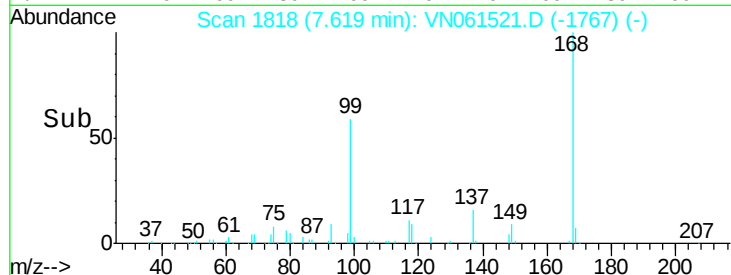


Abundance Ion 74.90 (74.60 to 75.60): VN061429.D (-1835) (-)

Ion 109.90 (109.60 to 110.60): VN061429.D (-1835) (-)

Ion 76.90 (76.60 to 77.60): VN061429.D (-1835) (-)

Time-->

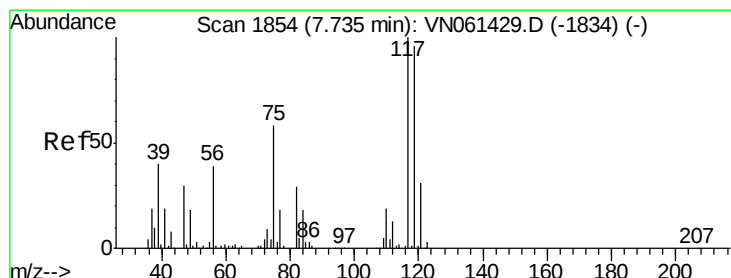


Abundance Ion 74.90 (74.60 to 75.60): VN061521.D (-1767) (-)

Ion 109.90 (109.60 to 110.60): VN061521.D (-1767) (-)

Ion 76.90 (76.60 to 77.60): VN061521.D (-1767) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.801 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.12 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

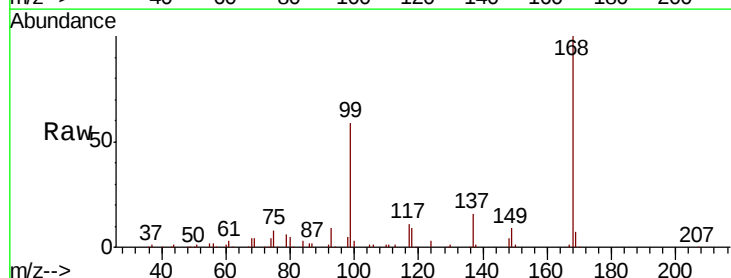
Tgt Ion: 117 Resp: 27186

Ion Ratio Lower Upper

117 100

119 3.8 77.0 115.6#

121 0.0 24.7 37.1#

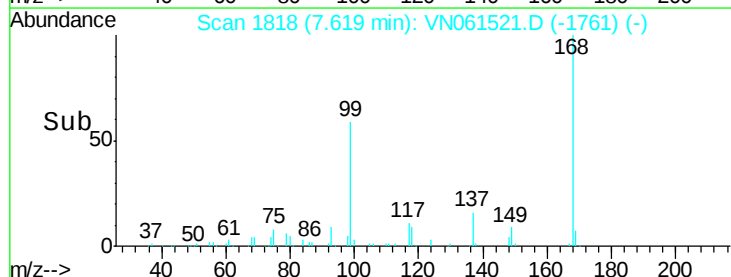


Abundance Ion 116.80 (116.50 to 117.50): VN061429.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN061429.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN061429.D (-1834) (-)

Time-->

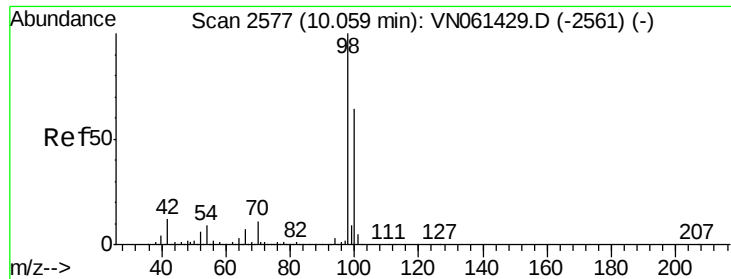


Abundance Ion 116.80 (116.50 to 117.50): VN061521.D (-1761) (-)

Ion 118.80 (118.50 to 119.50): VN061521.D (-1761) (-)

Ion 120.80 (120.50 to 121.50): VN061521.D (-1761) (-)

Time-->



#50

Toluene-d8

Concen: 49.498 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

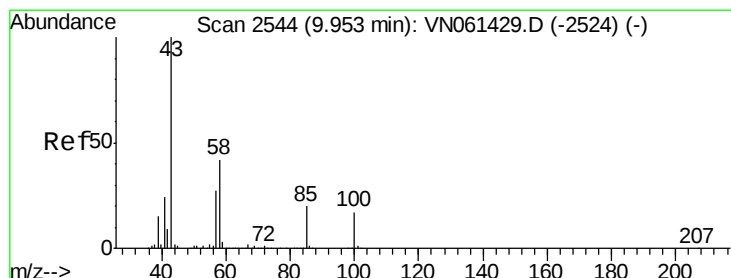
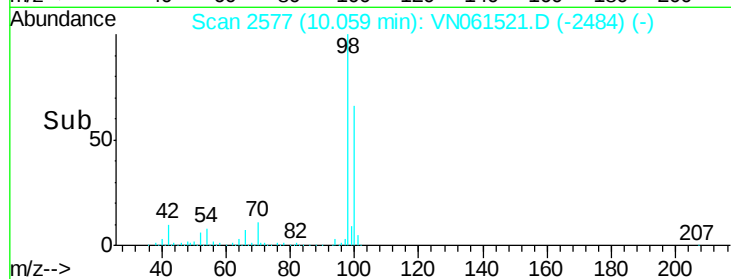
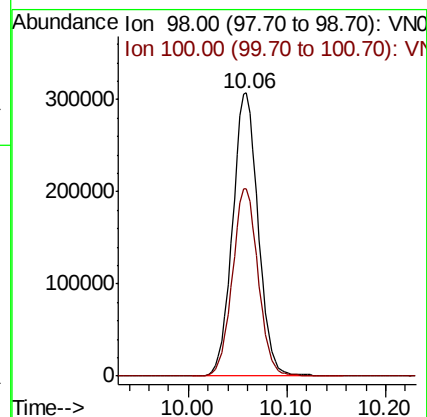
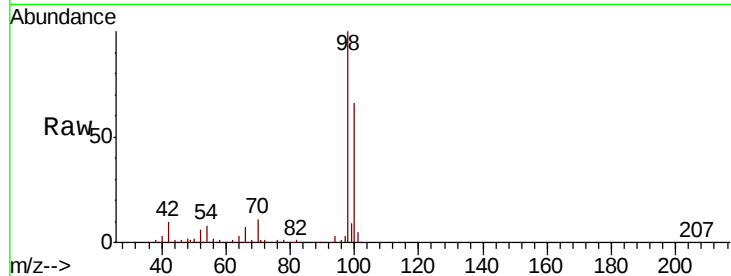
ClientSampleId :

Tot Ion: 98 Resp: 558370

Ion Ratio Lower Upper

98 100

100 66.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 0.304 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN061521.D

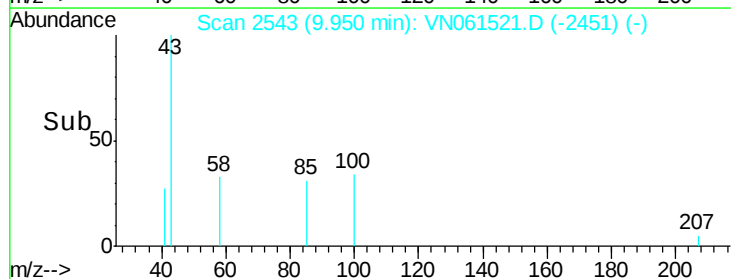
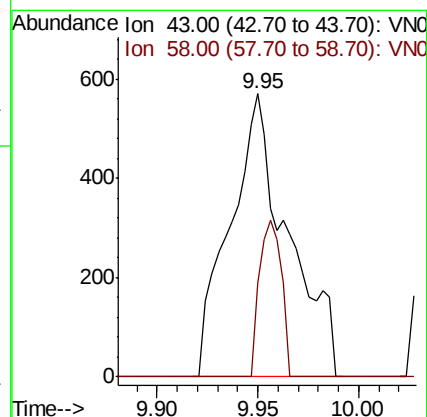
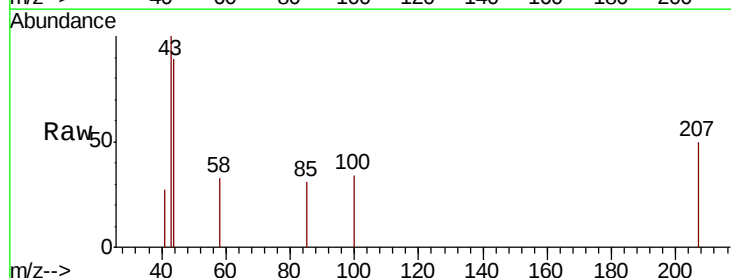
Acq: 21 May 2020 11:18

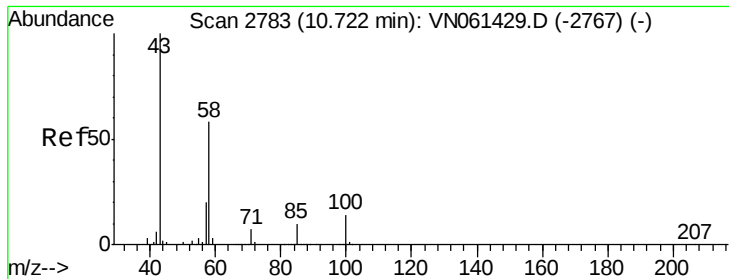
Tgt Ion: 43 Resp: 1137

Ion Ratio Lower Upper

43 100

58 21.2 33.4 50.2#





#59

2-Hexanone

Concen: 0.593 ug/l

RT: 10.72 min Scan# 2782

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

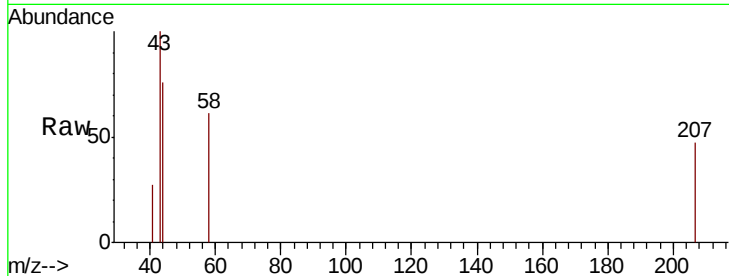
ClientSampleId :

Tot Ion: 43 Resp: 1606

Ion Ratio Lower Upper

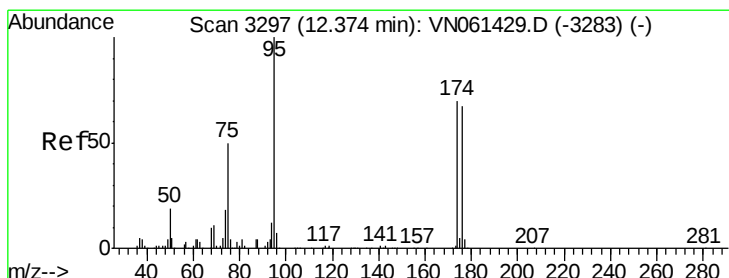
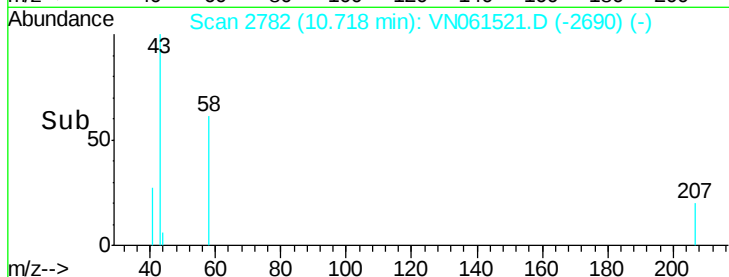
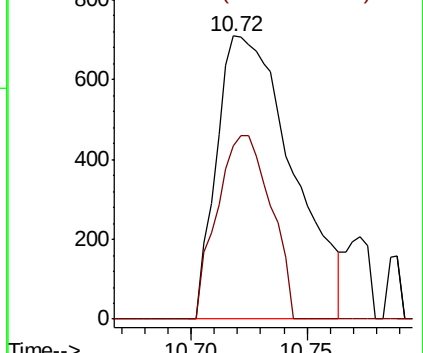
43 100

58 46.0 29.2 87.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 46.639 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

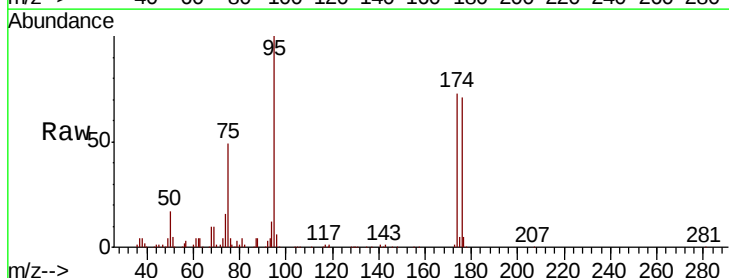
Tgt Ion: 95 Resp: 196561

Ion Ratio Lower Upper

95 100

174 74.1 0.0 141.2

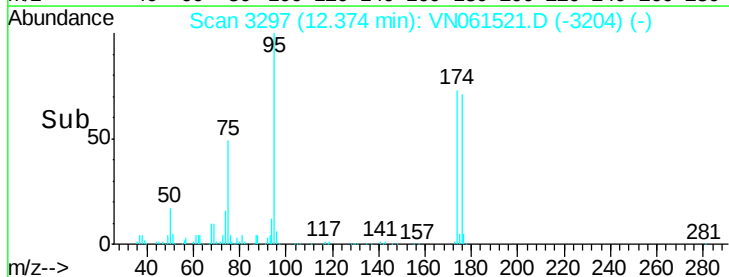
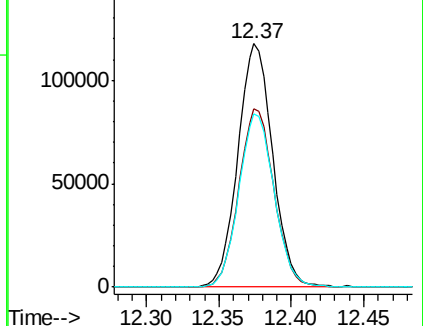
176 72.4 0.0 137.6

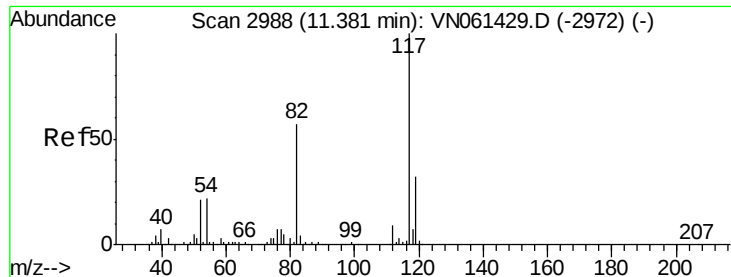


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

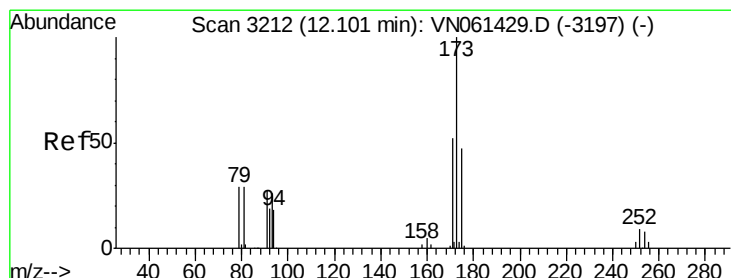
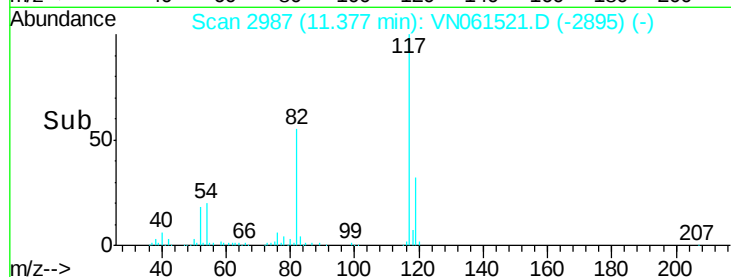
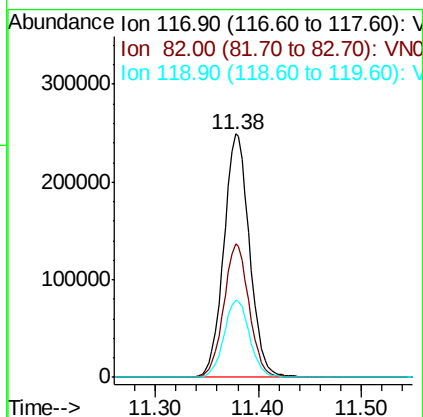
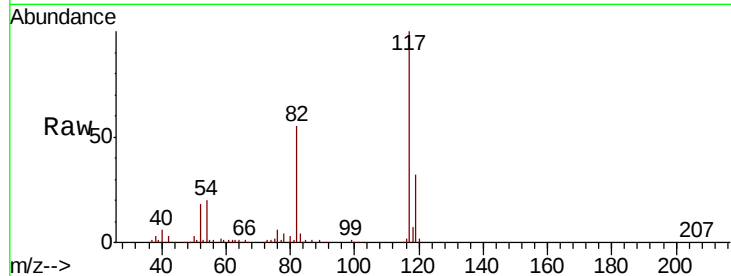




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2987
Delta R.T. -0.00 min
Lab File: VN061521.D
Acq: 21 May 2020 11:18

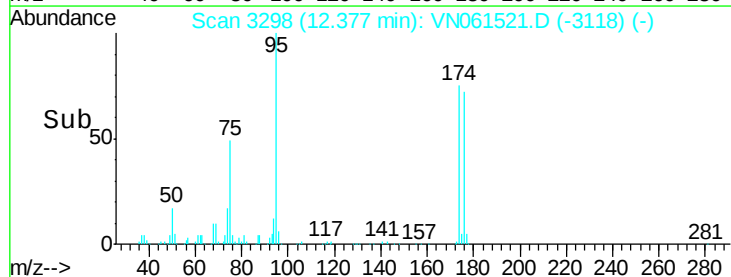
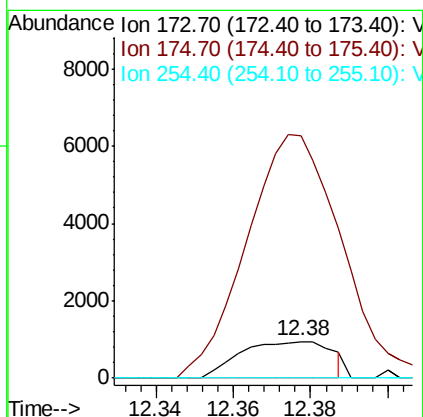
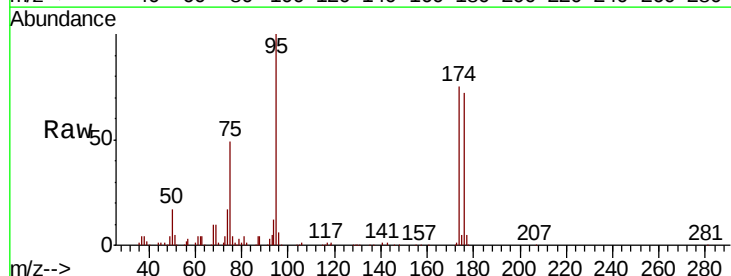
Instrument :
MSVOA_N
ClientSampleId :

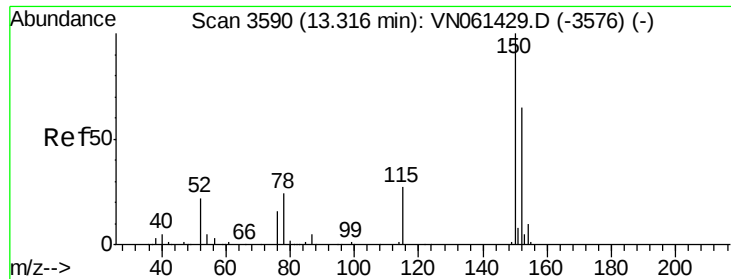
Tot Ion:117 Resp: 432252
Ion Ratio Lower Upper
117 100
82 54.7 45.2 67.8
119 31.8 25.3 37.9



#71
Bromoform
Concen: 2.628 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061521.D
Acq: 21 May 2020 11:18

Tgt Ion:173 Resp: 1557
Ion Ratio Lower Upper
173 100
175 598.5 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# 3590

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

ClientSampleId :

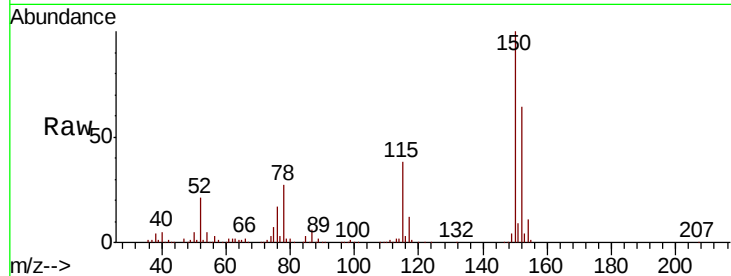
Tot Ion:152 Resp: 165393

Ion Ratio Lower Upper

152 100

115 60.3 30.9 92.5

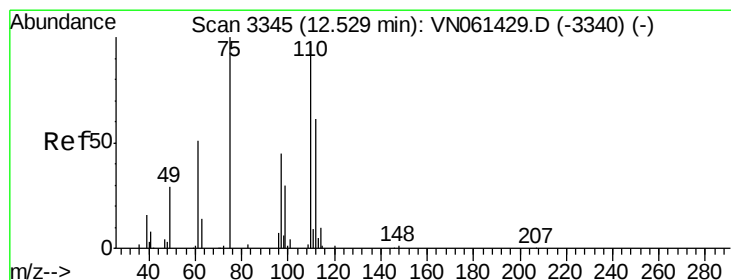
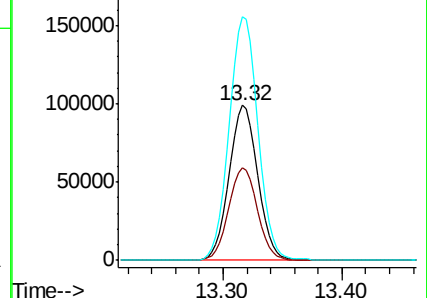
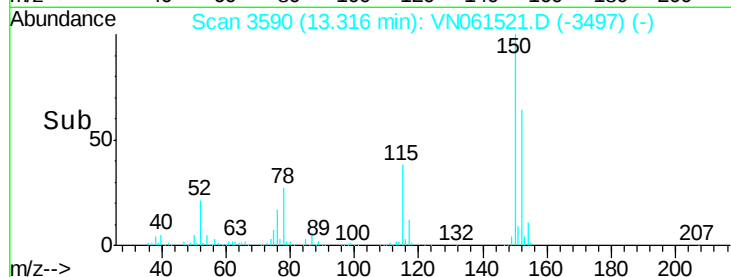
150 157.7 0.0 349.2



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: 27.828 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061521.D

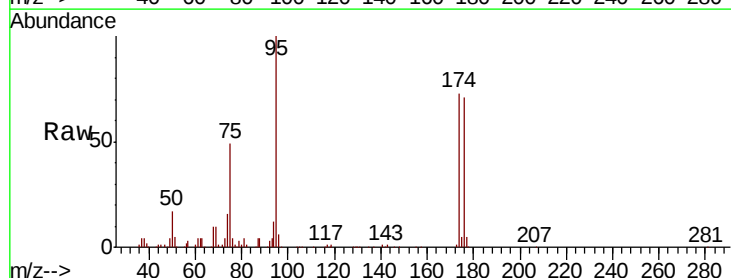
Acq: 21 May 2020 11:18

Tgt Ion: 75 Resp: 98758

Ion Ratio Lower Upper

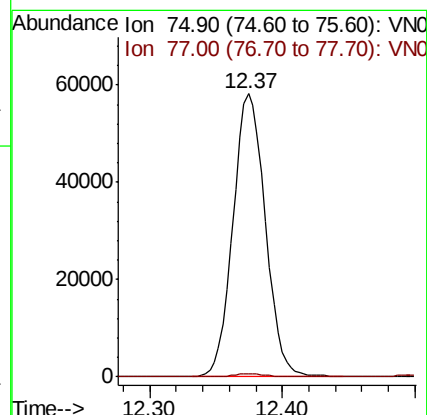
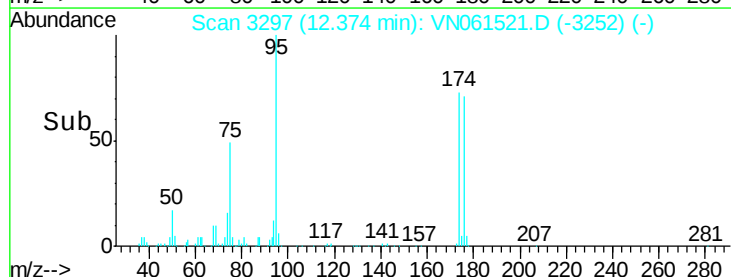
75 100

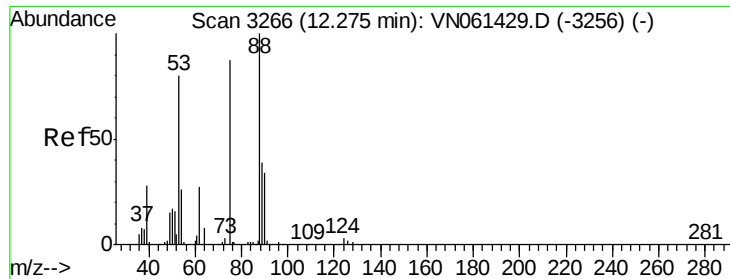
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

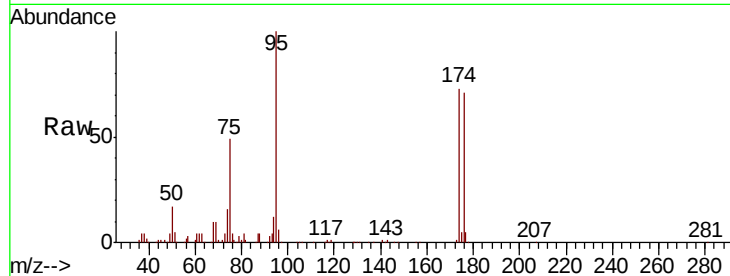




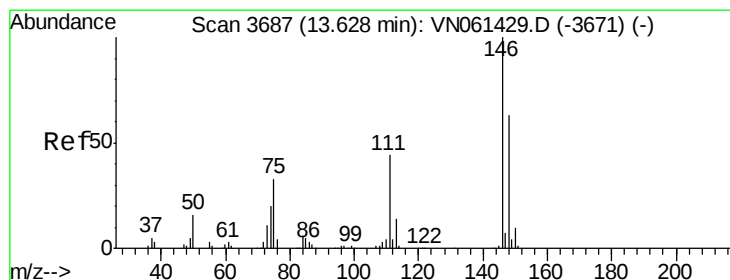
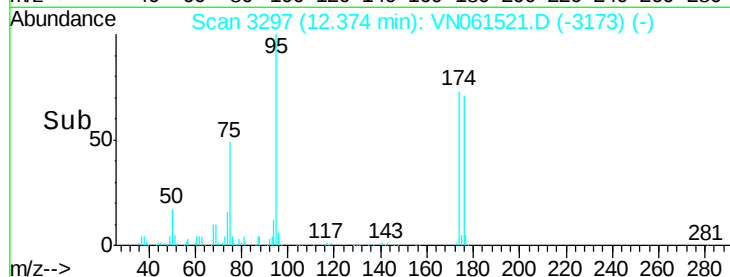
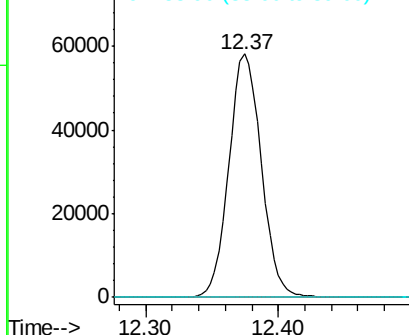
#81
trans-1,4-Dichloro-2-butene
Concen: 73.820 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.10 min
Lab File: VN061521.D
Acq: 21 May 2020 11:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 98758
Ion Ratio Lower Upper
75 100
53 0.0 75.2 112.8#
89 0.0 38.2 57.4#

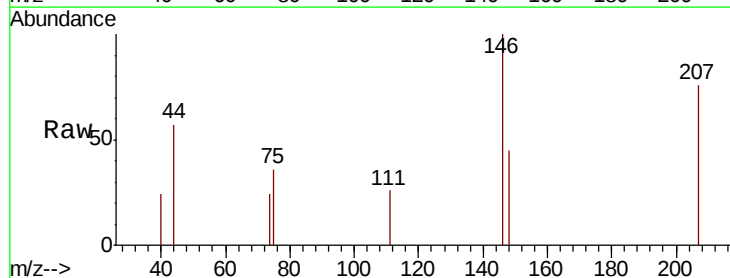


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

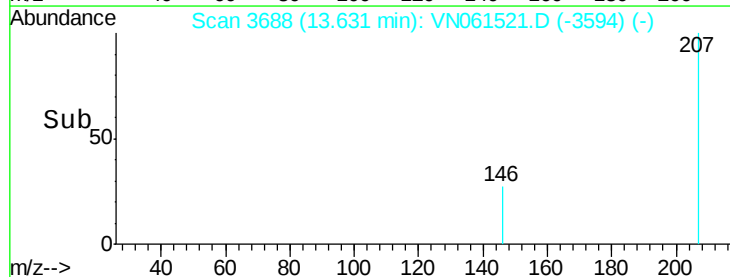
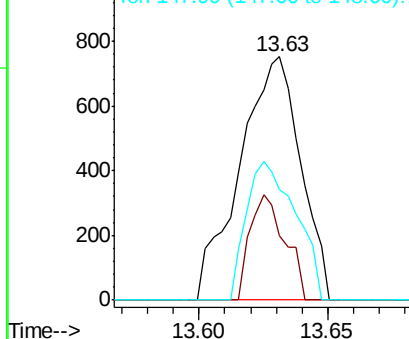


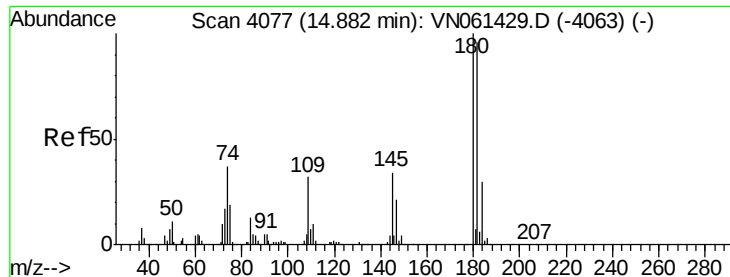
#91
1,2-Dichlorobenzene
Concen: 0.245 ug/l
RT: 13.63 min Scan# 3688
Delta R.T. 0.00 min
Lab File: VN061521.D
Acq: 21 May 2020 11:18

Tgt Ion: 146 Resp: 1239
Ion Ratio Lower Upper
146 100
111 24.9 21.9 65.7
148 46.2 31.6 94.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

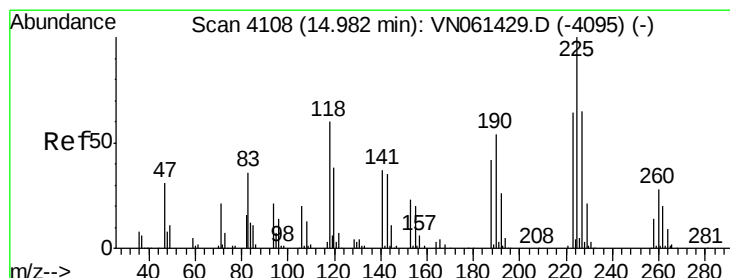
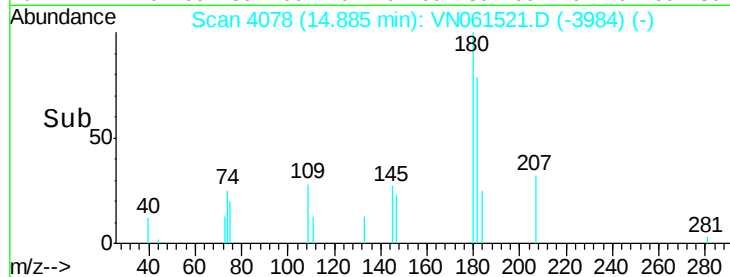
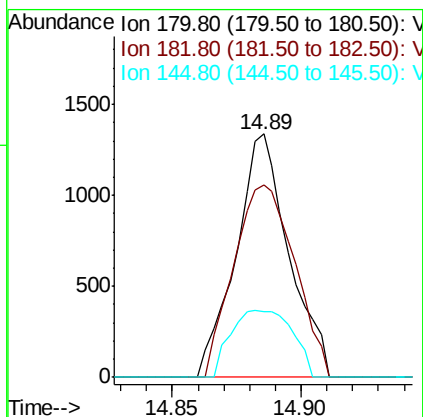
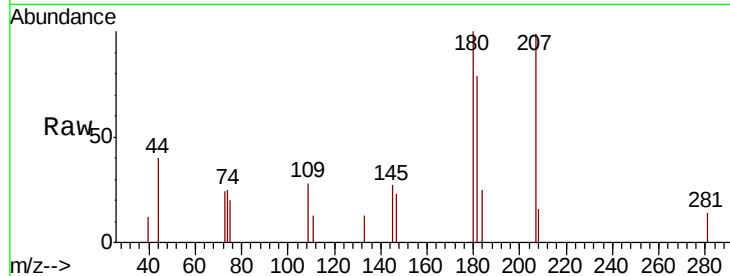




#93
 1,2,4-Trichlorobenzene
 Concen: 0.700 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN061521.D
 Acq: 21 May 2020 11:18

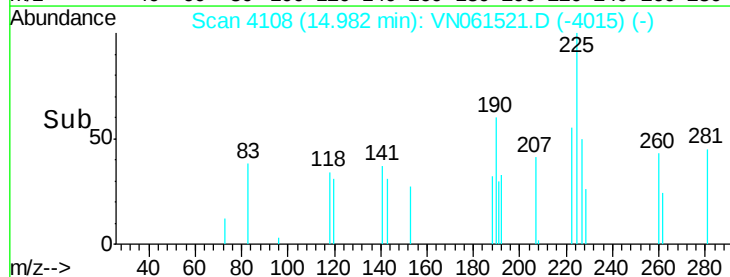
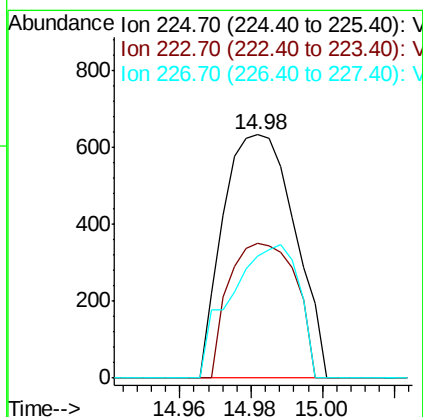
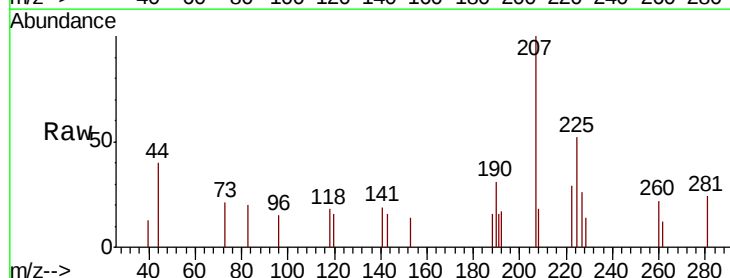
Instrument :
 MSVOA_N
 ClientSampleId :

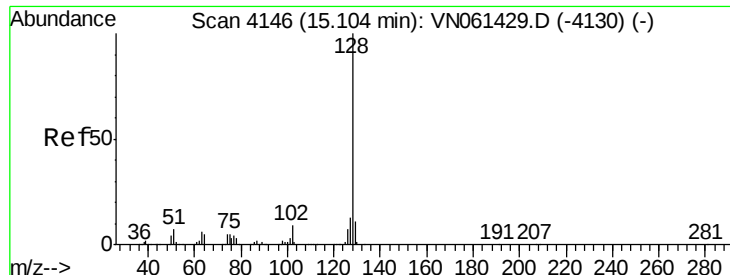
Tot Ion:180 Resp: 1919
 Ion Ratio Lower Upper
 180 100
 182 90.8 47.0 141.0
 145 31.8 16.7 50.0



#94
 Hexachlorobutadiene
 Concen: 0.719 ug/l
 RT: 14.98 min Scan# 4108
 Delta R.T. -0.00 min
 Lab File: VN061521.D
 Acq: 21 May 2020 11:18

Tgt Ion:225 Resp: 876
 Ion Ratio Lower Upper
 225 100
 223 51.7 31.9 95.7
 227 52.2 31.5 94.5





#95

Naphthalene

Concen: 0.981 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

Instrument :

MSVOA_N

ClientSampleId :

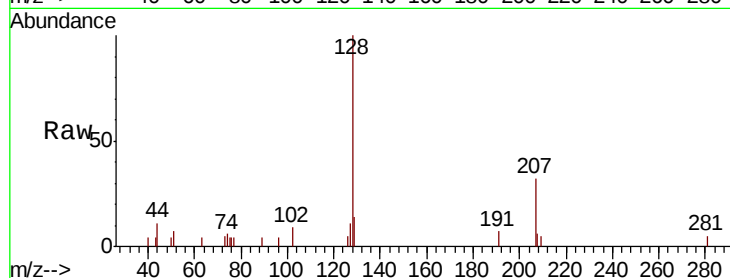
Tot Ion:128 Resp: 8551

Ion Ratio Lower Upper

128 100

127 10.1 10.1 15.1

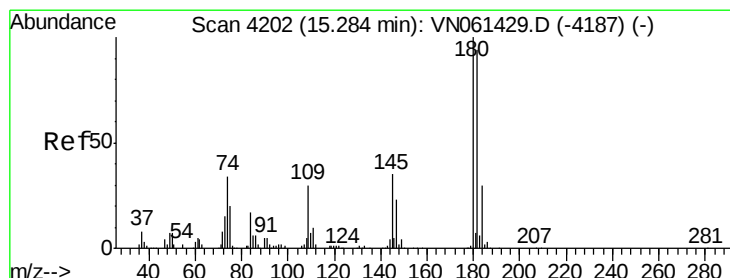
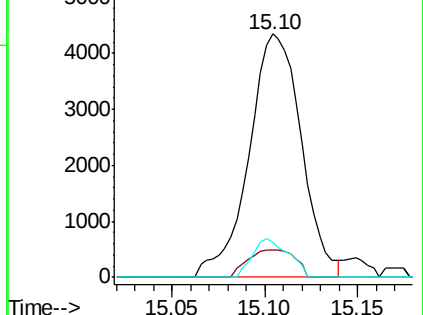
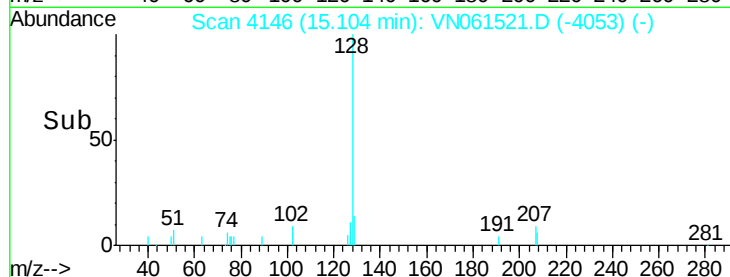
129 10.8 8.6 13.0



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: 0.841 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. -0.00 min

Lab File: VN061521.D

Acq: 21 May 2020 11:18

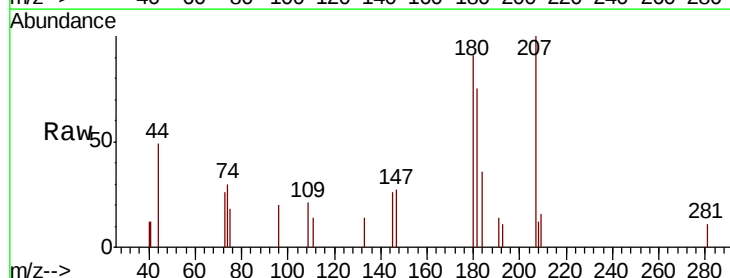
Tgt Ion:180 Resp: 2296

Ion Ratio Lower Upper

180 100

182 84.3 47.8 143.3

145 26.2 17.3 51.9



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

