

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051920\
 Data File : VN061492.D
 Acq On : 19 May 2020 18:40
 Operator : JC/MD
 Sample : L2676-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0690

Quant Time: May 20 03:00:17 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

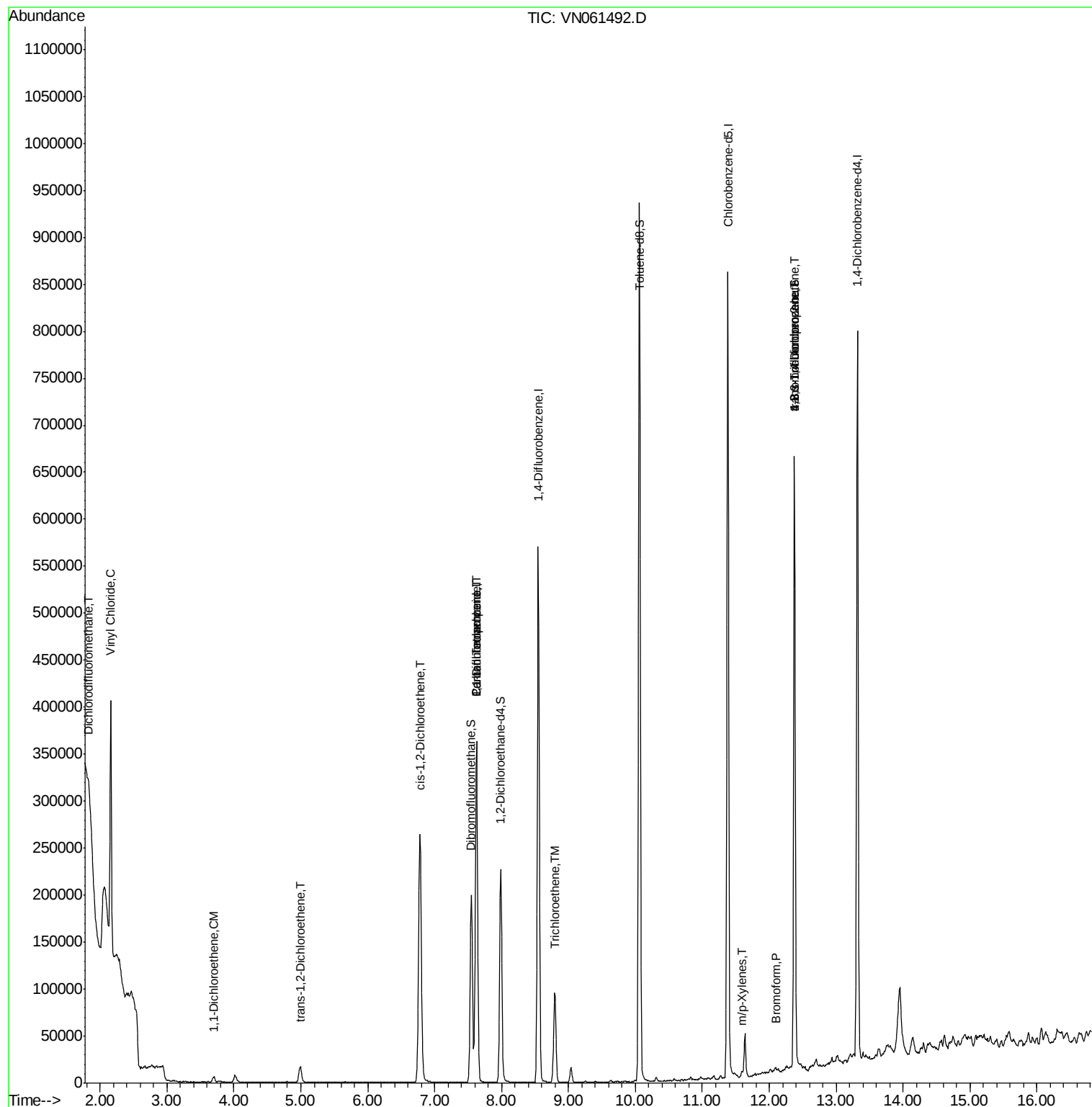
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	285102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	524248	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	497292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	203576	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	199548	46.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.80%	
35) Dibromofluoromethane	7.55	113	152774	55.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.26%	
50) Toluene-d8	10.06	98	647726	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	
62) 4-Bromofluorobenzene	12.37	95	236219	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	4072	1.718	ug/l	99
4) Vinyl Chloride	2.16	62	236081	42.662	ug/l	99
5) Bromomethane	2.52	94	61	Below Cal	#	24
12) 1,1-Dichloroethene	3.70	96	3677	1.258	ug/l	86
16) Acetone	3.78	43	1411	Below Cal	#	43
17) Carbon Disulfide	4.01	76	3830	Below Cal	#	85
18) Methyl Acetate	4.27	43	118	Below Cal	#	49
21) trans-1,2-Dichloroethene	4.99	96	11572	3.434	ug/l	96
27) cis-1,2-Dichloroethene	6.78	96	185288	46.549	ug/l	85
31) Cyclohexane	7.63	56	6674	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	24359	4.969	ug/l #	46
38) Carbon Tetrachloride	7.63	117	29891	6.622	ug/l #	15
44) Trichloroethene	8.80	130	24213	6.255	ug/l	99
68) m/p-Xylenes	11.60	106	2195	0.312	ug/l	92
71) Bromoform	12.10	173	121	2.061	ug/l #	29
76) 1,2,3-Trichloropropane	12.37	75	123004	28.159	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	123004	74.699	ug/l #	12

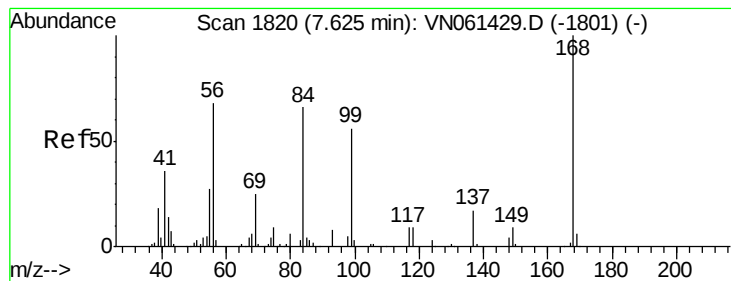
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

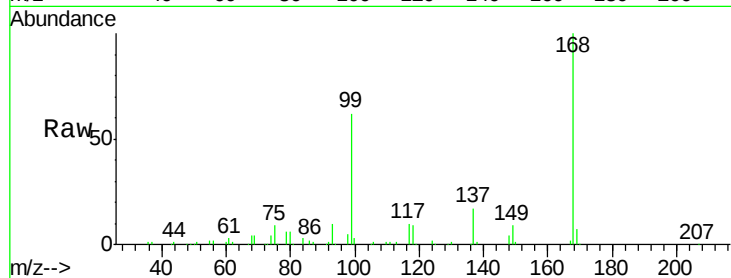
S32-0690

Tot Ion:168 Resp: 285102

Ion Ratio Lower Upper

168 100

99 61.7 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

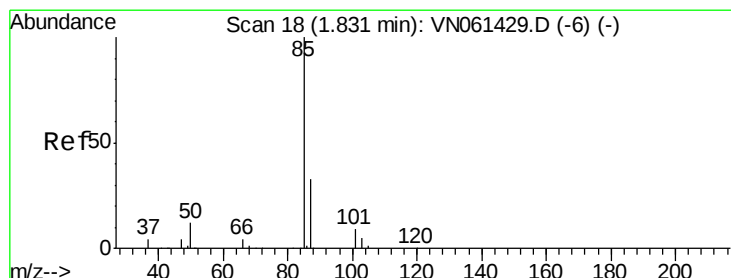
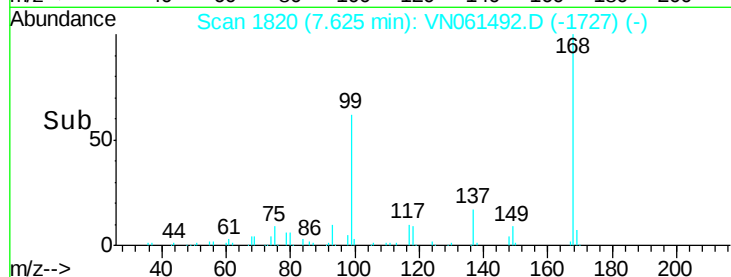
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.718 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN061492.D

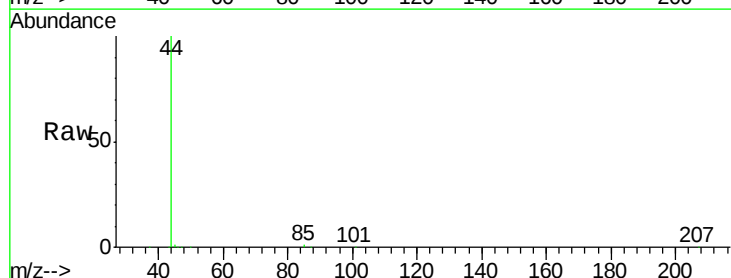
Acq: 19 May 2020 18:40

Tgt Ion: 85 Resp: 4072

Ion Ratio Lower Upper

85 100

87 31.8 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

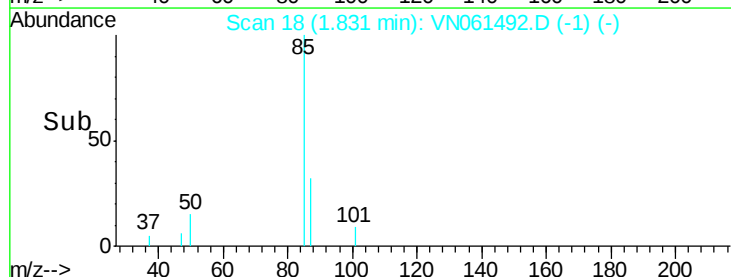
3000

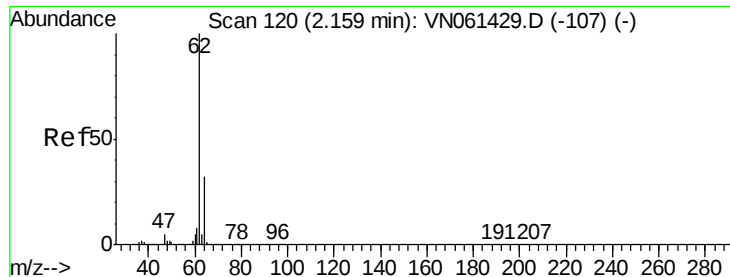
2000

1000

0

Time--> 1.80 1.85





#4

Vinyl Chloride

Concen: 42.662 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

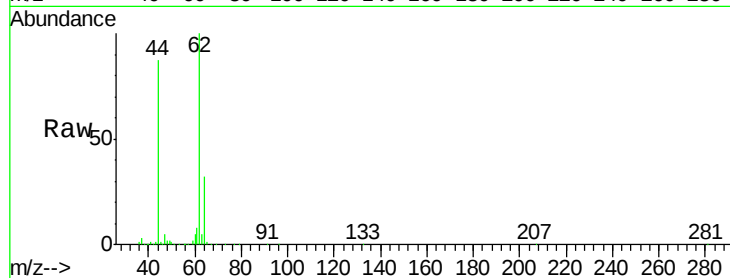
S32-0690

Tot Ion: 62 Resp: 236081

Ion Ratio Lower Upper

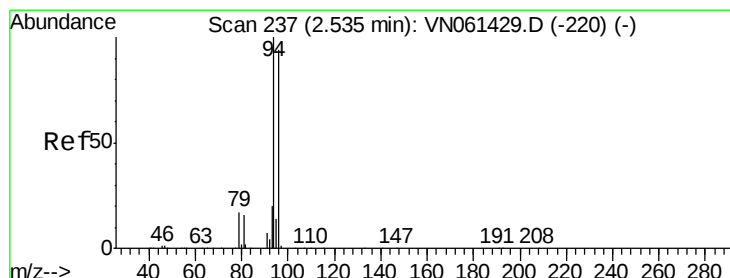
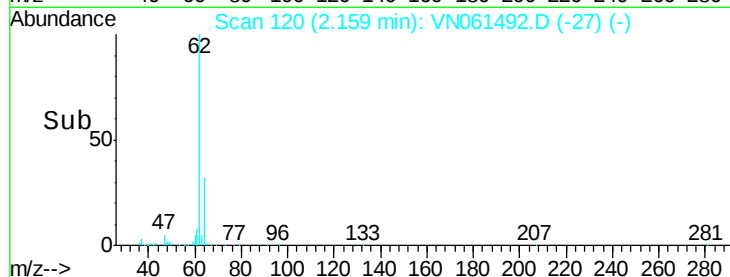
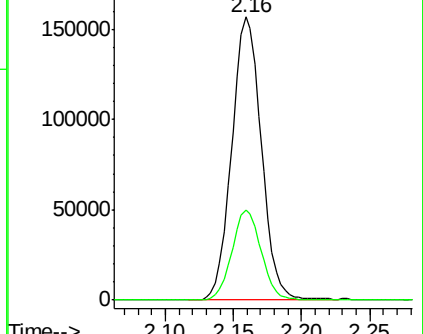
62 100

64 32.0 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN061492.D

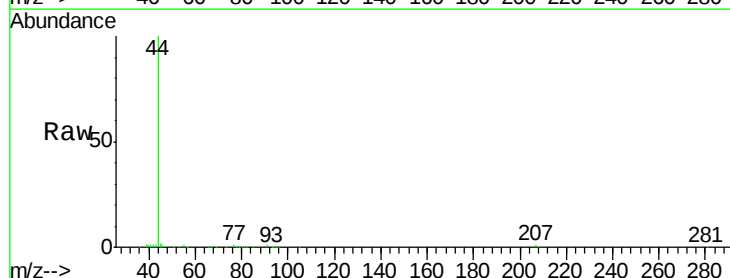
Acq: 19 May 2020 18:40

Tgt Ion: 94 Resp: 61

Ion Ratio Lower Upper

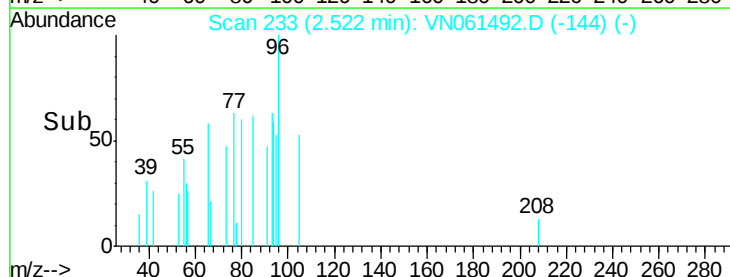
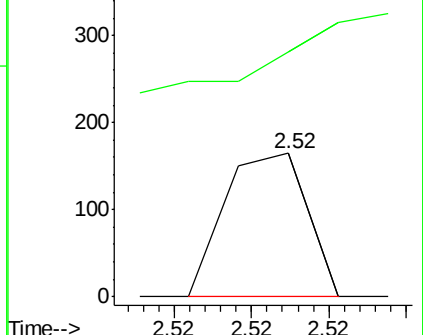
94 100

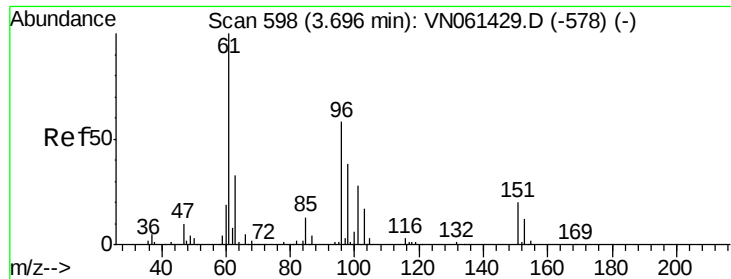
96 20.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC

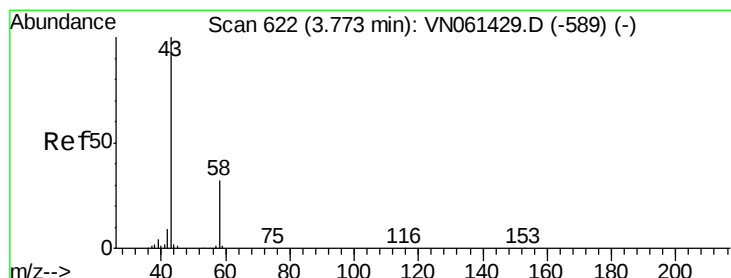
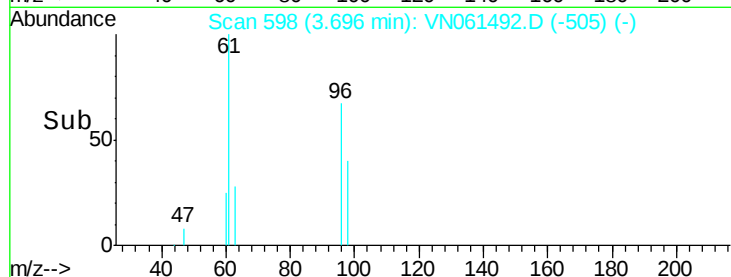
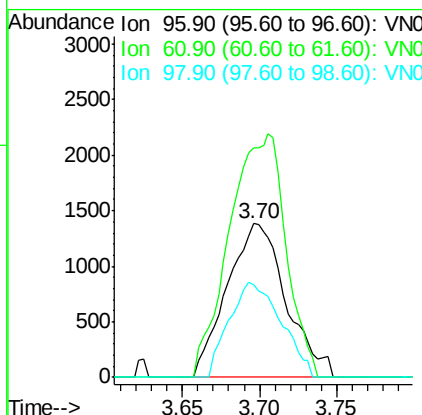
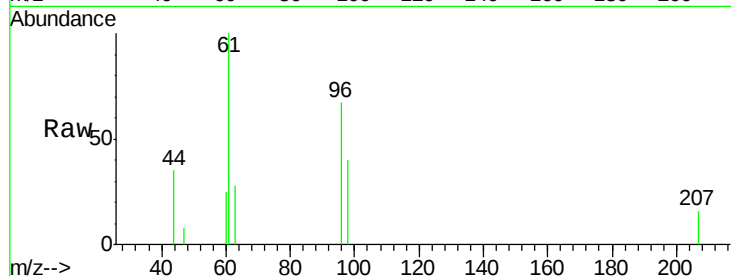




#12
 1,1-Dichloroethene
 Concen: 1.258 ug/l
 RT: 3.70 min Scan# 598
 Delta R.T. -0.00 min
 Lab File: VN061492.D
 Acq: 19 May 2020 18:40

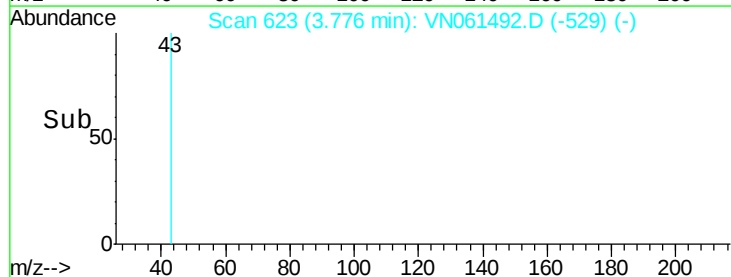
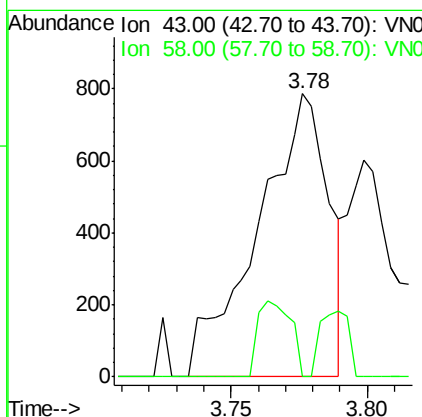
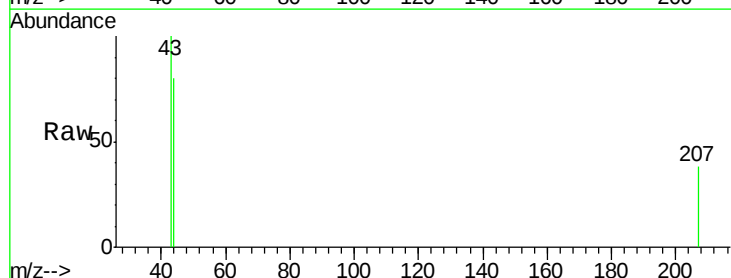
Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0690

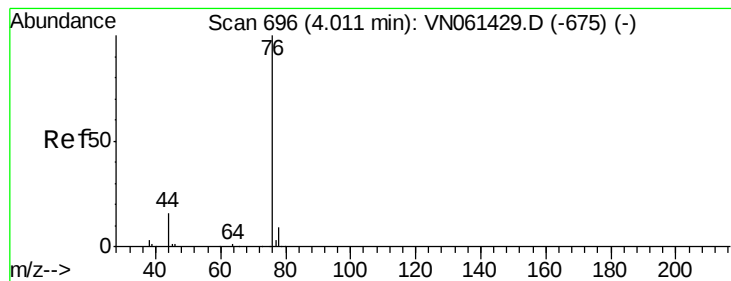
Tot Ion: 96 Resp: 3677
 Ion Ratio Lower Upper
 96 100
 61 149.7 138.7 208.1
 98 60.3 53.0 79.6



#16
 Acetone
 Concen: Below Cal
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061492.D
 Acq: 19 May 2020 18:40

Tgt Ion: 43 Resp: 1411
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.6 38.4#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 695

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

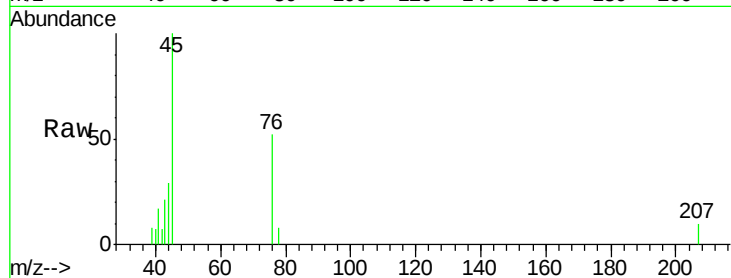
S32-0690

Tot Ion: 76 Resp: 3830

Ion Ratio Lower Upper

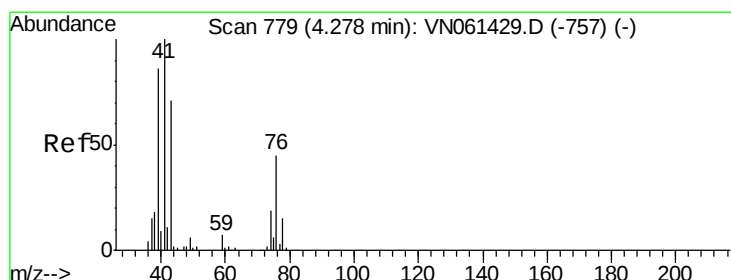
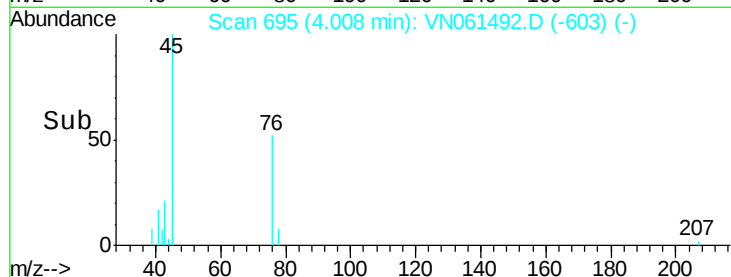
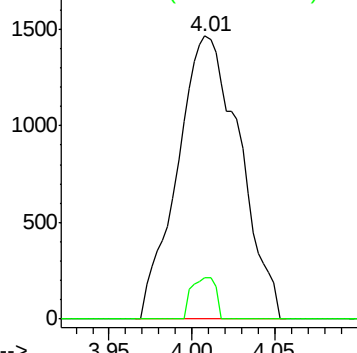
76 100

78 14.8 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: Below Cal

RT: 4.27 min Scan# 778

Delta R.T. -0.00 min

Lab File: VN061492.D

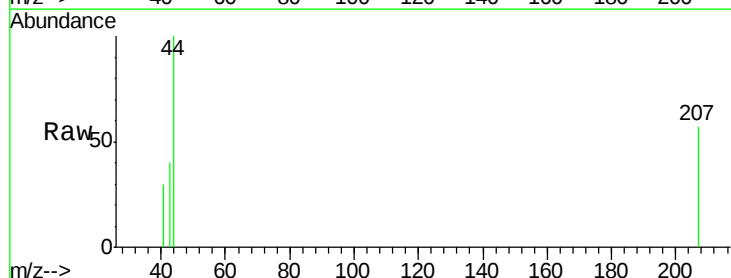
Acq: 19 May 2020 18:40

Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

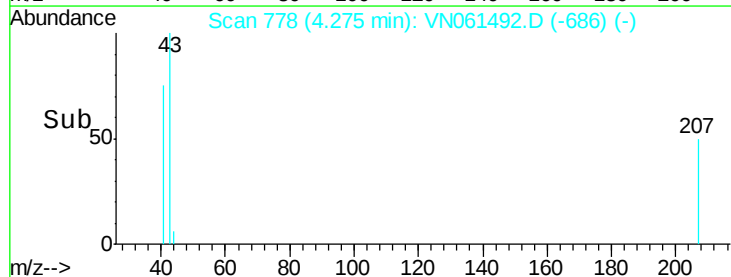
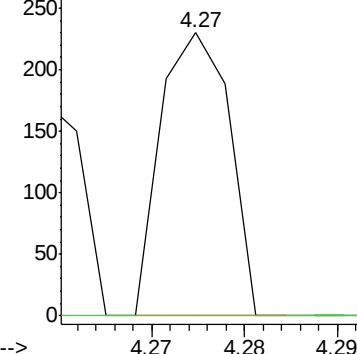
43 100

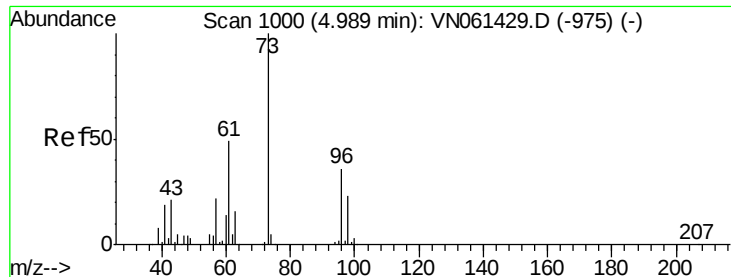
74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC





#21

trans-1,2-Dichloroethene

Concen: 3.434 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

S32-0690

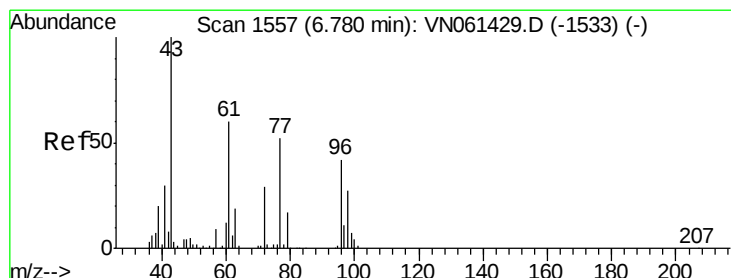
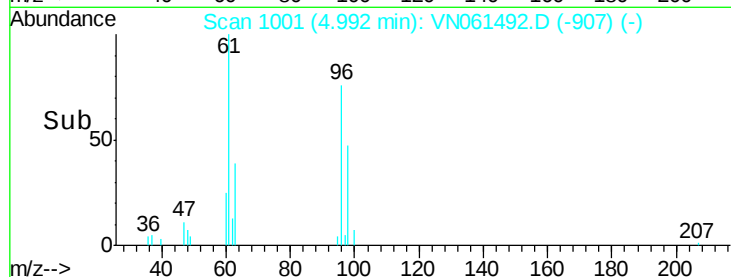
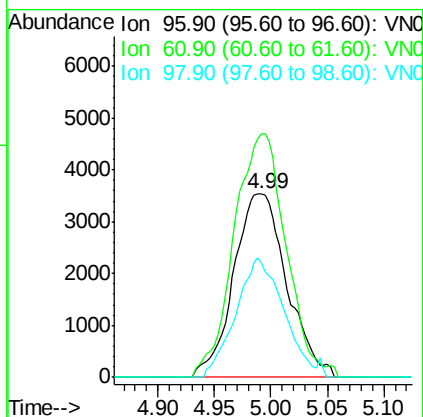
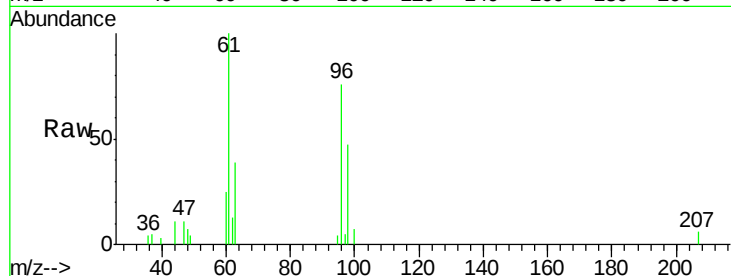
Tot Ion: 96 Resp: 11572

Ion Ratio Lower Upper

96 100

61 132.3 109.8 164.6

98 62.1 52.4 78.6



#27

cis-1,2-Dichloroethene

Concen: 46.549 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

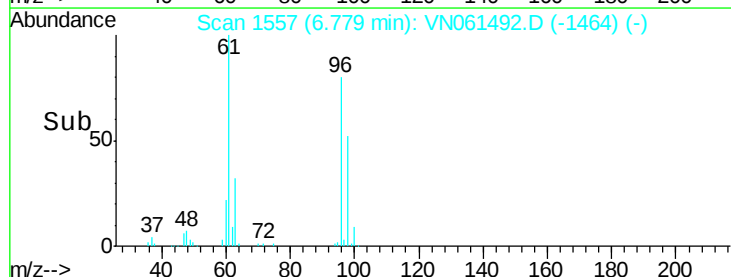
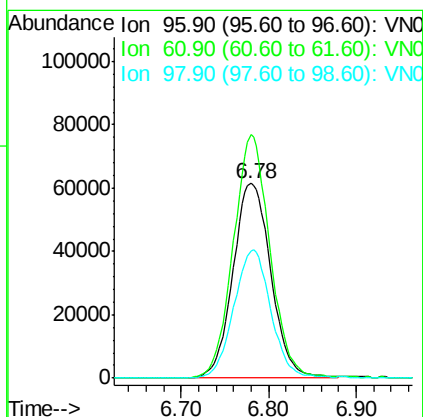
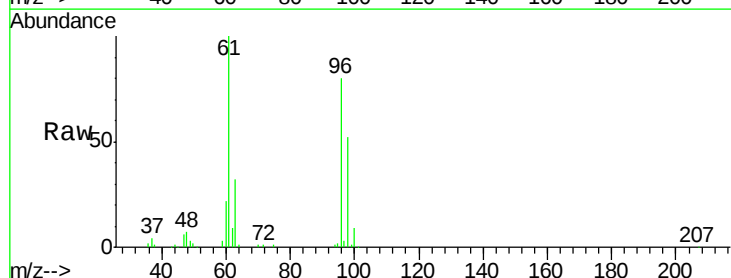
Tgt Ion: 96 Resp: 185288

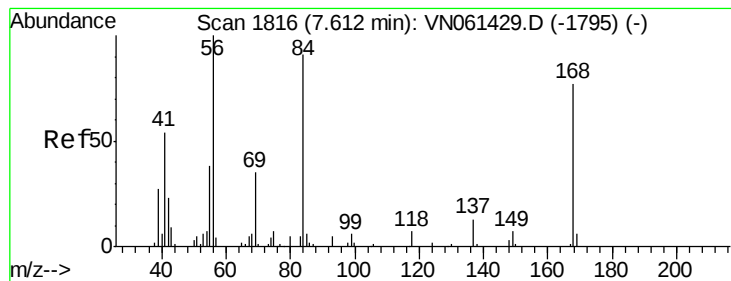
Ion Ratio Lower Upper

96 100

61 120.5 0.0 294.2

98 64.2 0.0 128.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

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S32-0690

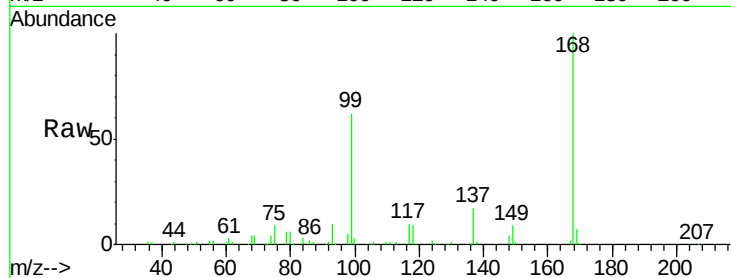
Tot Ion: 56 Resp: 6674

Ion Ratio Lower Upper

56 100

69 164.4 27.8 41.6#

84 144.0 72.7 109.1#

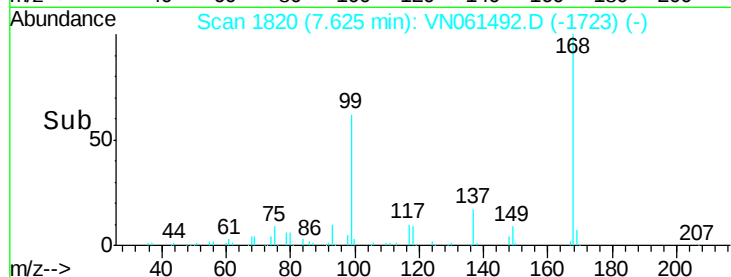


Abundance Ion 56.00 (55.70 to 56.70): VN061492.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN061492.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN061492.D (-1795) (-)

Time-->

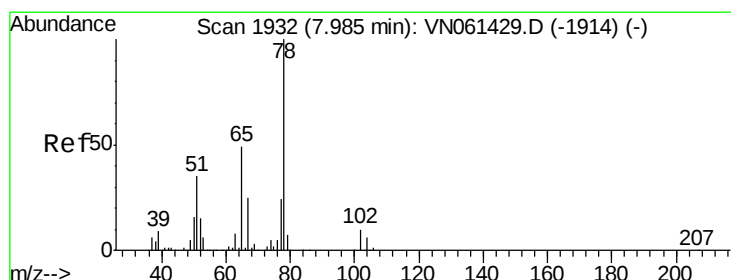


Abundance Ion 56.00 (55.70 to 56.70): VN061492.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061492.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061492.D (-1723) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.897 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061492.D

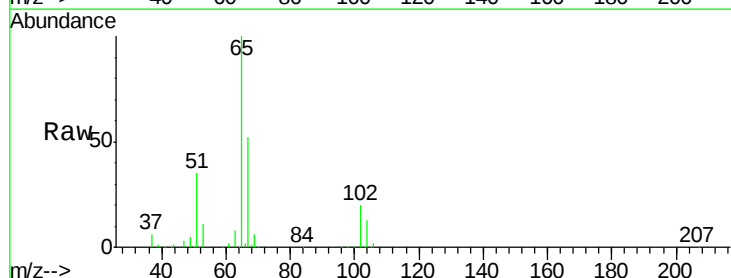
Acq: 19 May 2020 18:40

Tgt Ion: 65 Resp: 199548

Ion Ratio Lower Upper

65 100

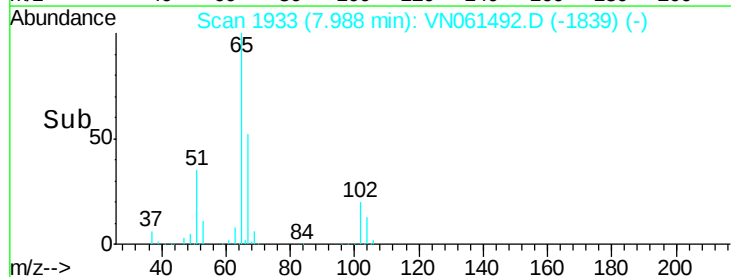
67 51.4 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN061492.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN061492.D (-1839) (-)

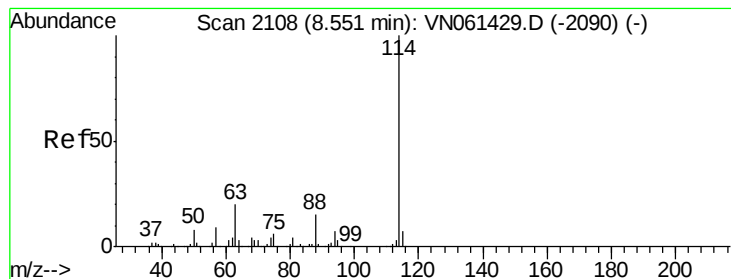
Time-->



Abundance Ion 64.90 (64.60 to 65.60): VN061492.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN061492.D (-1839) (-)

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2107

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

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ClientSampleId :

S32-0690

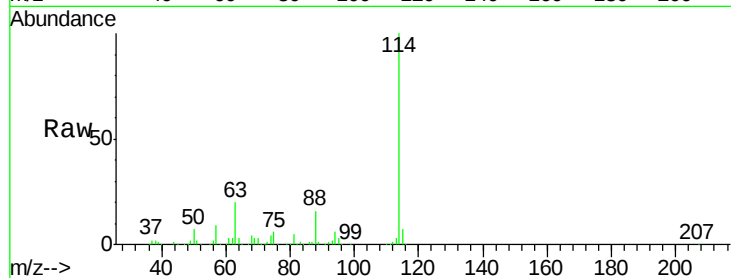
Tot Ion:114 Resp: 524248

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

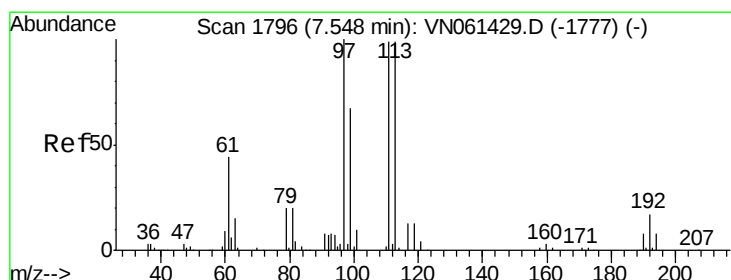
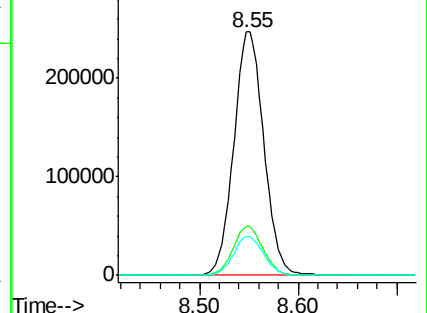
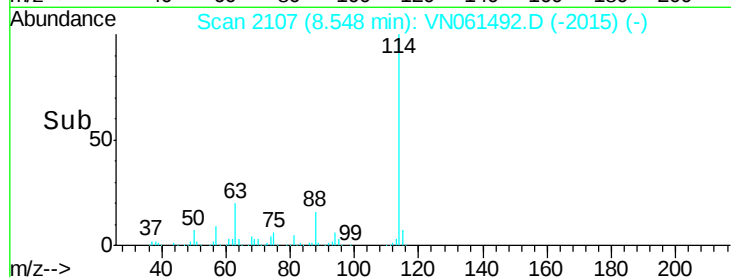
88 16.0 0.0 30.8



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: 55.627 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

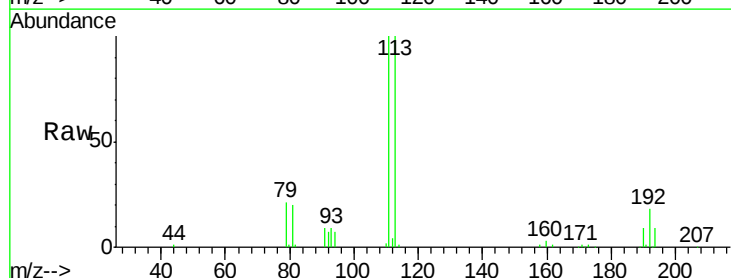
Tgt Ion:113 Resp: 152774

Ion Ratio Lower Upper

113 100

111 103.4 80.6 121.0

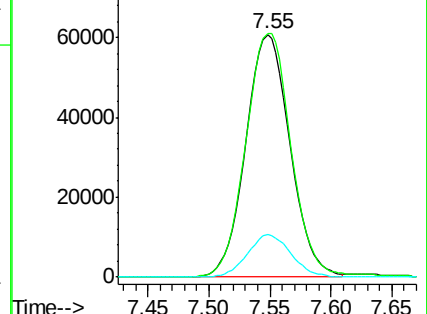
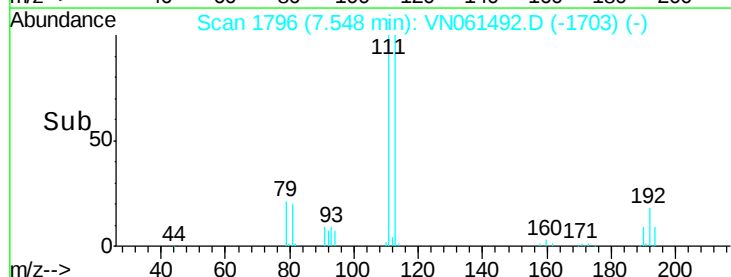
192 17.2 13.2 19.8

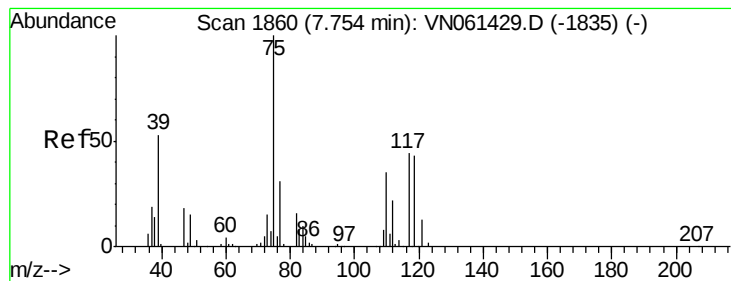


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.969 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

S32-0690

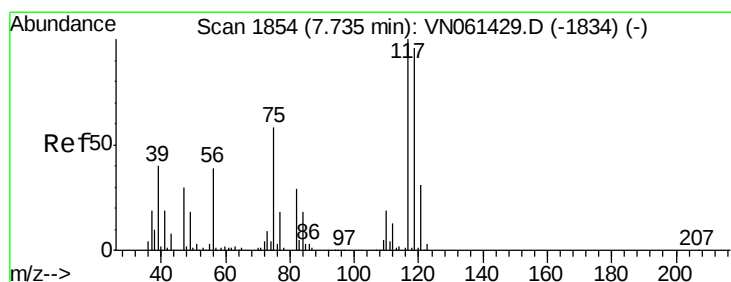
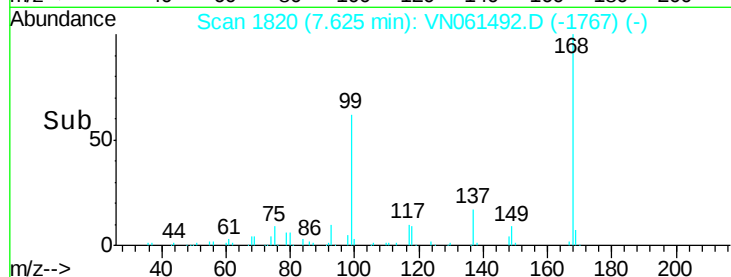
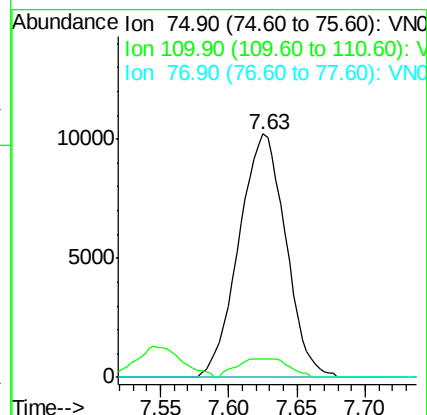
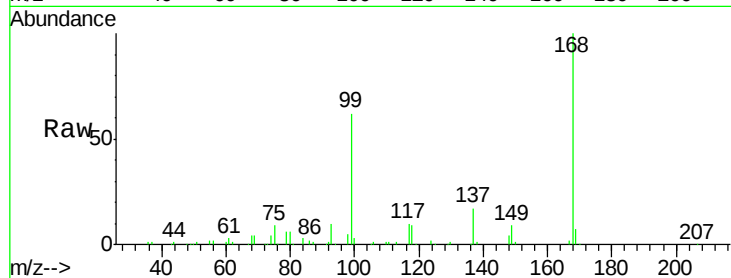
Tot Ion: 75 Resp: 24359

Ion Ratio Lower Upper

75 100

110 4.5 17.3 51.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.622 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

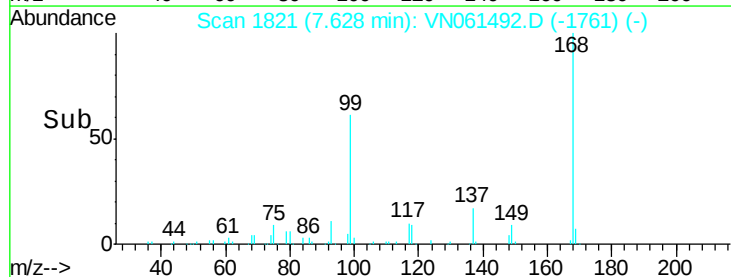
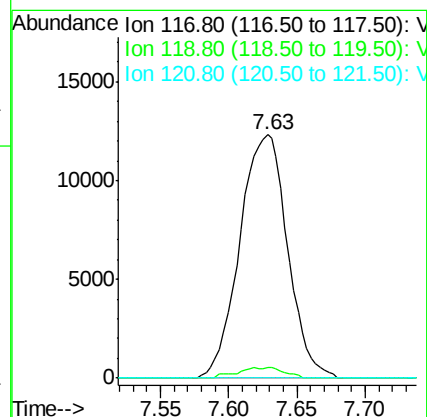
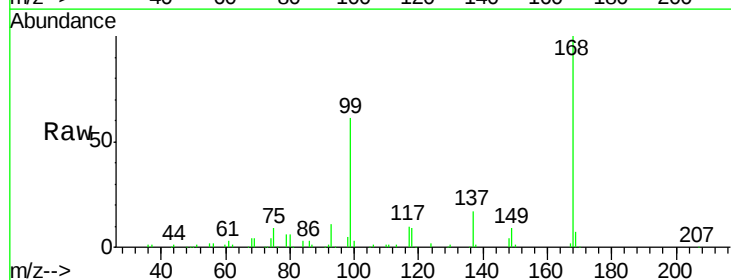
Tgt Ion: 117 Resp: 29891

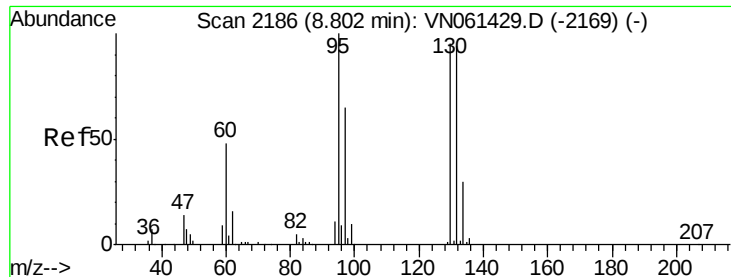
Ion Ratio Lower Upper

117 100

119 4.2 77.0 115.6#

121 0.0 24.7 37.1#





#44

Trichloroethene

Concen: 6.255 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

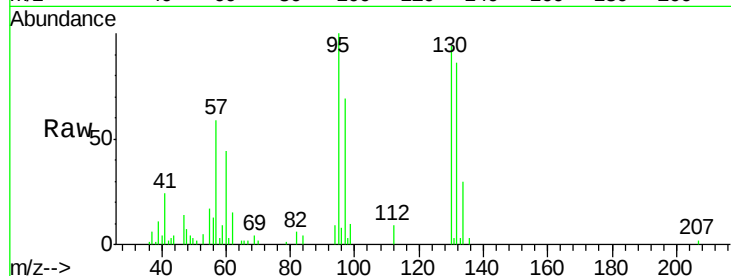
S32-0690

Tot Ion:130 Resp: 24213

Ion Ratio Lower Upper

130 100

95 106.0 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): VN061429.D (-2169) (-)

Ion 94.90 (94.60 to 95.60): VN061429.D (-2169) (-)

8.80

15000

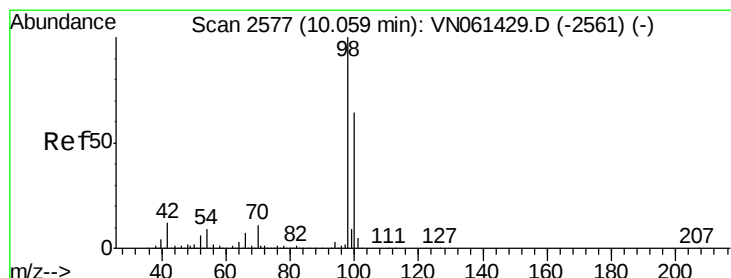
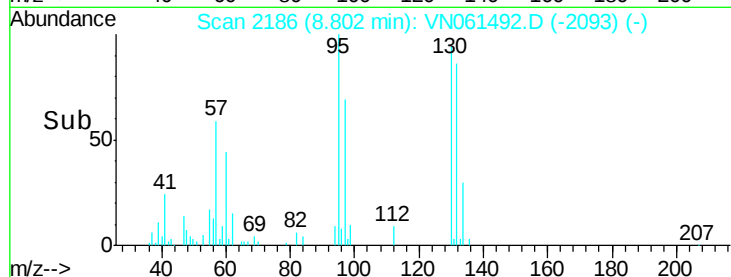
10000

5000

0

Time-->

8.75 8.80 8.85



#50

Toluene-d8

Concen: 50.848 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061492.D

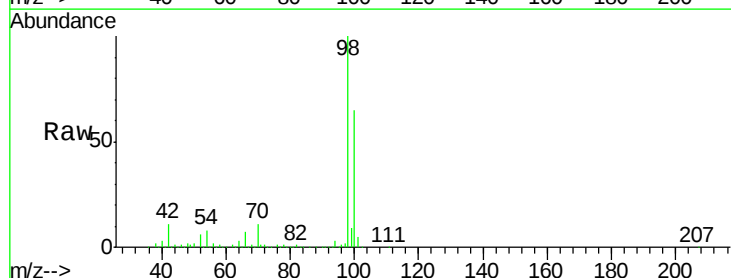
Acq: 19 May 2020 18:40

Tgt Ion: 98 Resp: 647726

Ion Ratio Lower Upper

98 100

100 65.3 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) (-)

10.06

400000

300000

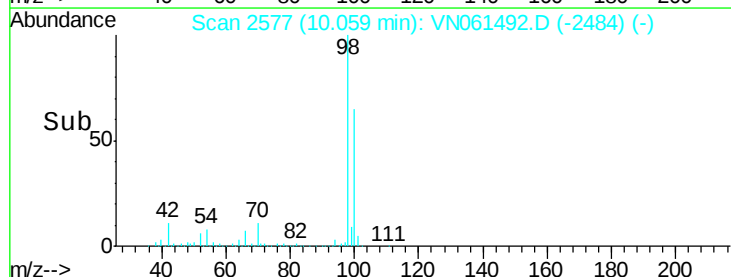
200000

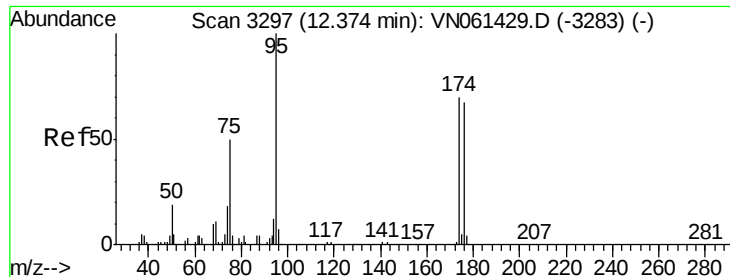
100000

0

Time-->

10.00 10.06 10.10

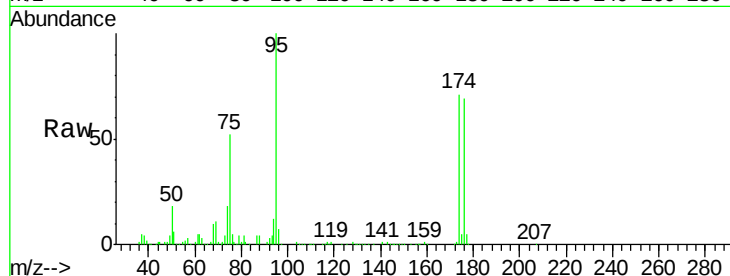




#62
4-Bromofluorobenzene
Concen: 49.635 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN061492.D
Acq: 19 May 2020 18:40

Instrument :
MSVOA_N
ClientSampleId :
S32-0690

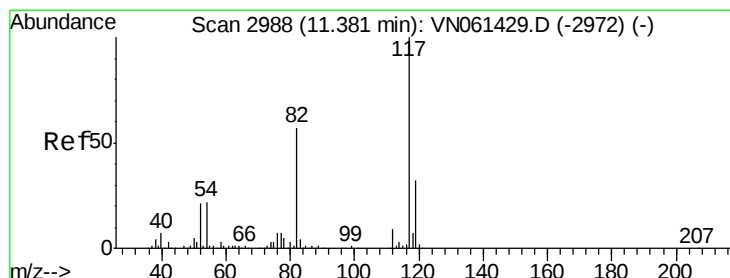
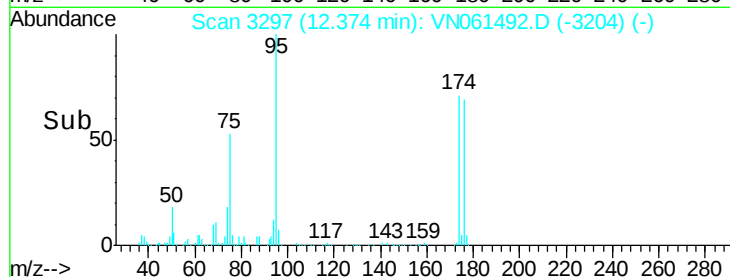
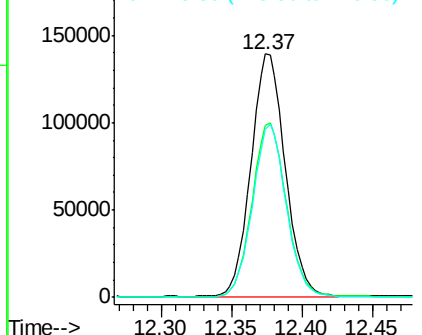
Tot Ion	95	Resp	236219
Ion Ratio	Lower	Upper	
95	100		
174	71.6	0.0	141.2
176	70.3	0.0	137.6



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

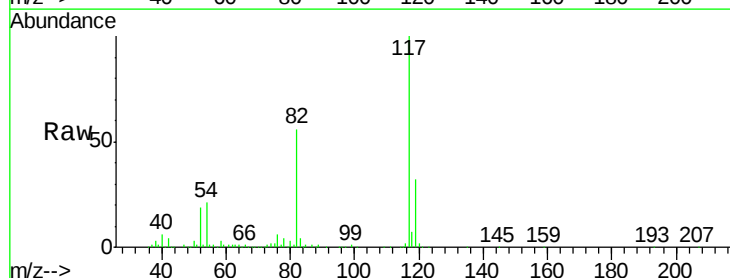
Ion 173.80 (173.50 to 174.50): VN061429.D (-3283) (-)

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: VN061492.D
Acq: 19 May 2020 18:40

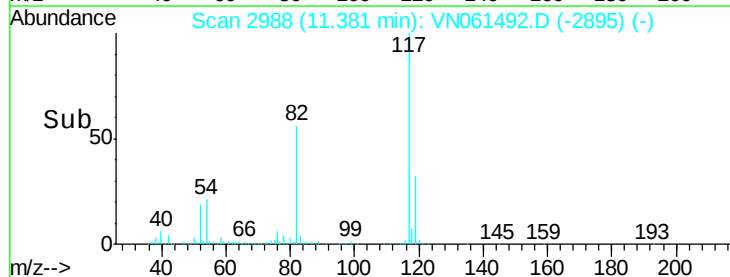
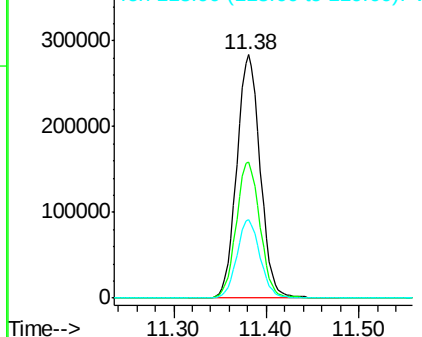
Tgt Ion	117	Resp	497292
Ion Ratio	Lower	Upper	
117	100		
82	55.9	45.2	67.8
119	32.1	25.3	37.9

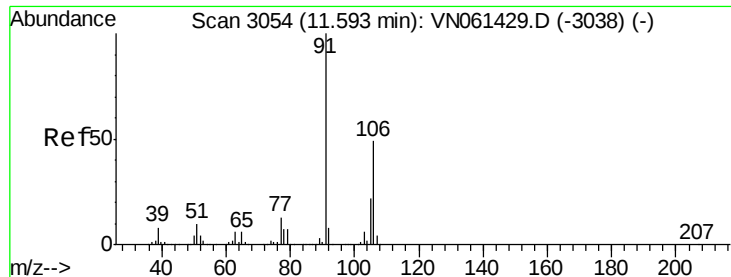


Abundance Ion 116.90 (116.60 to 117.60): VN061429.D (-2972) (-)

Ion 82.00 (81.70 to 82.70): VN061429.D (-2972) (-)

Ion 118.90 (118.60 to 119.60): VN061429.D (-2972) (-)





#68

m/p-Xvlenes

Concen: 0.312 ug/l

RT: 11.60 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampled :

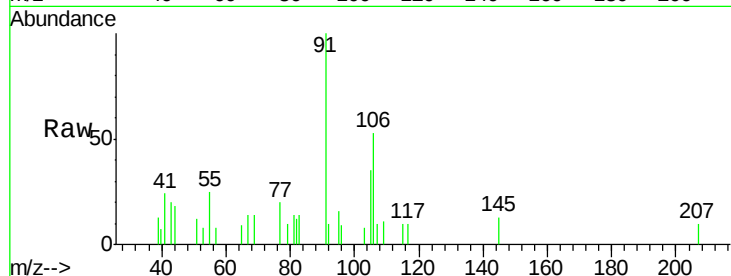
S32-0690

Tot Ion:106 Resp: 2195

Ion Ratio Lower Upper

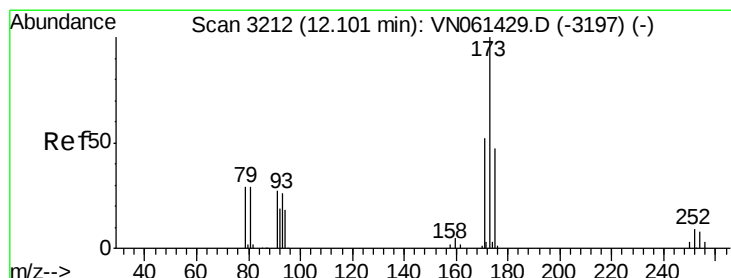
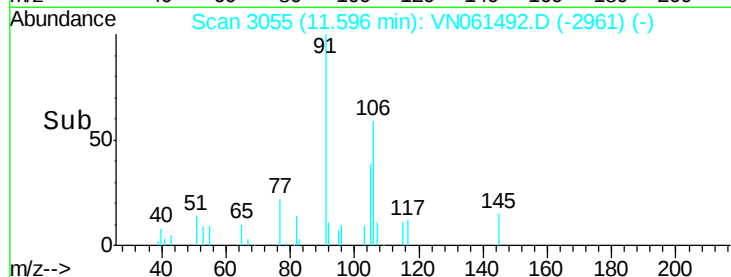
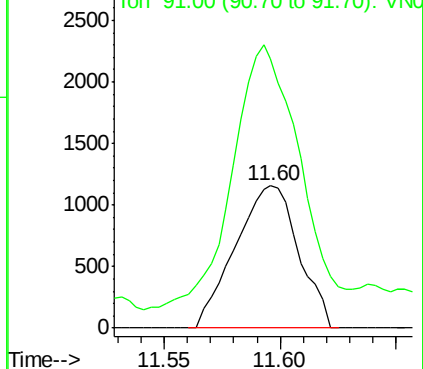
106 100

91 191.3 163.0 244.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#71

Bromoform

Concen: 2.061 ug/l

RT: 12.10 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

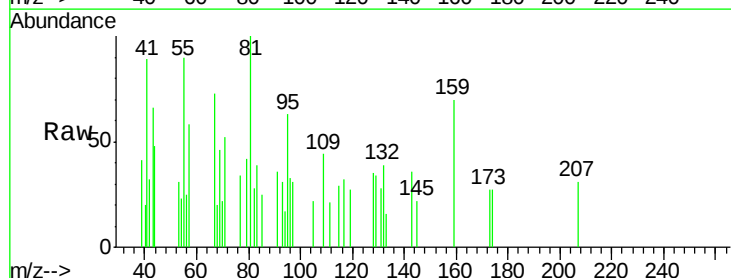
Tgt Ion:173 Resp: 121

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.8#

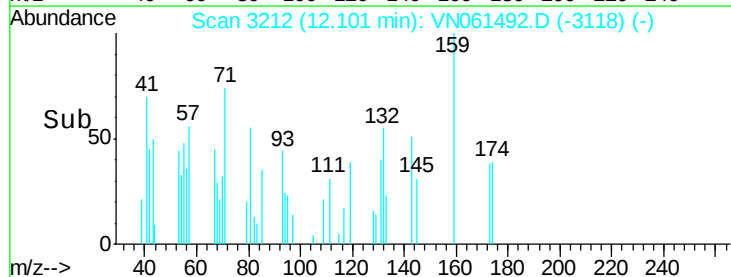
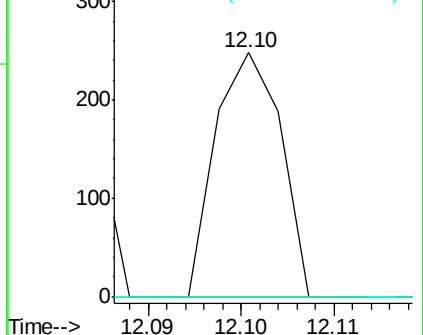
254 0.0 0.0 0.0

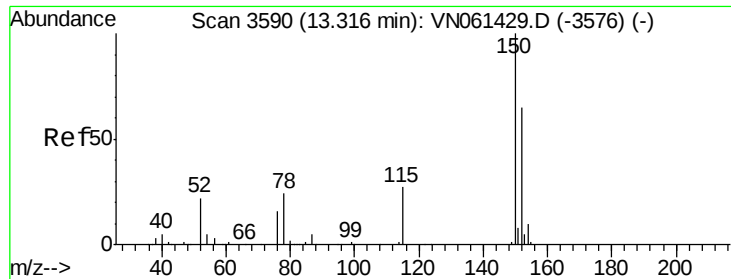


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

S32-0690

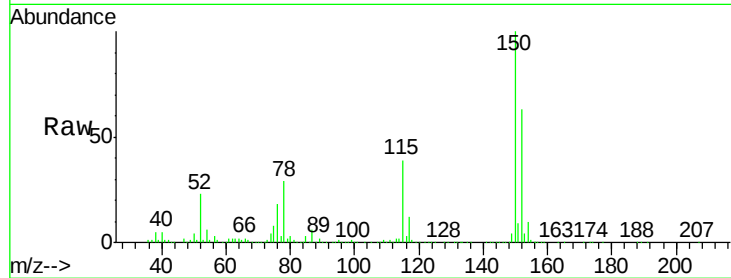
Tot Ion:152 Resp: 203576

Ion Ratio Lower Upper

152 100

115 61.1 30.9 92.5

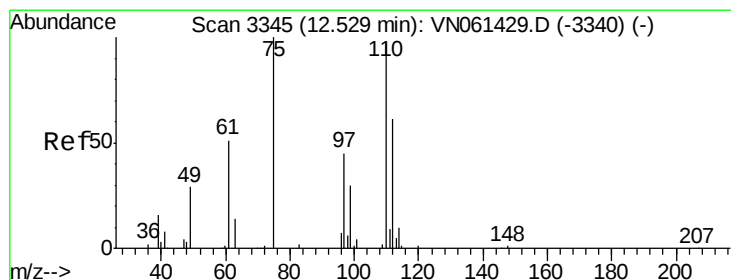
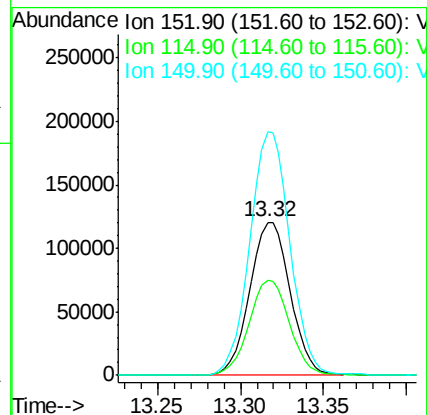
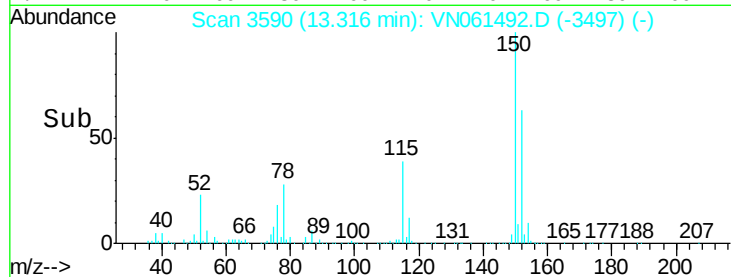
150 158.8 0.0 349.2



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: 28.159 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061492.D

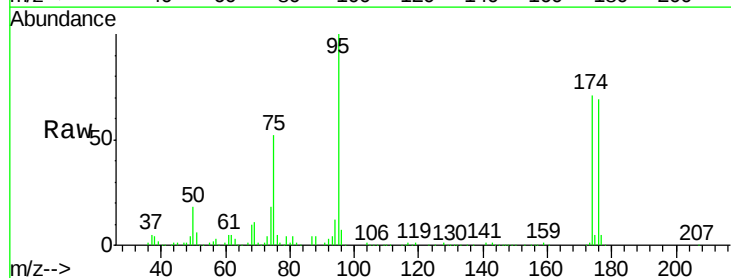
Acq: 19 May 2020 18:40

Tgt Ion: 75 Resp: 123004

Ion Ratio Lower Upper

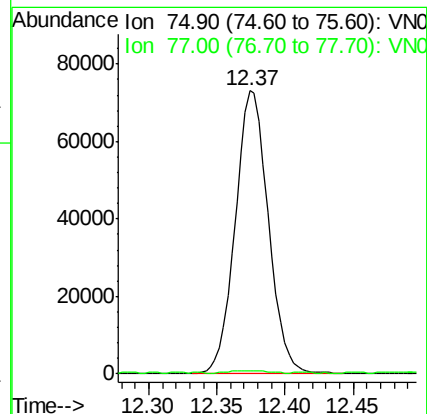
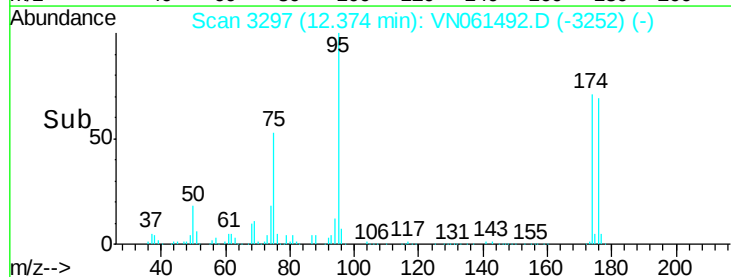
75 100

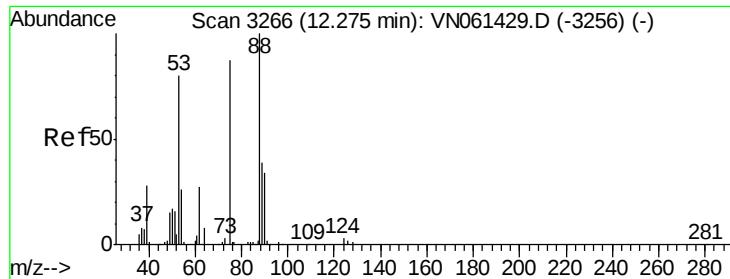
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.699 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061492.D

Acq: 19 May 2020 18:40

Instrument :

MSVOA_N

ClientSampleId :

S32-0690

Tot Ion: 75 Resp: 123004

Ion Ratio Lower Upper

75 100

53 0.1 75.2 112.8#

89 0.0 38.2 57.4#

