

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051920\
 Data File : VN061491.D
 Acq On : 19 May 2020 18:17
 Operator : JC/MD
 Sample : L2676-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0689

Quant Time: May 20 02:59:47 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

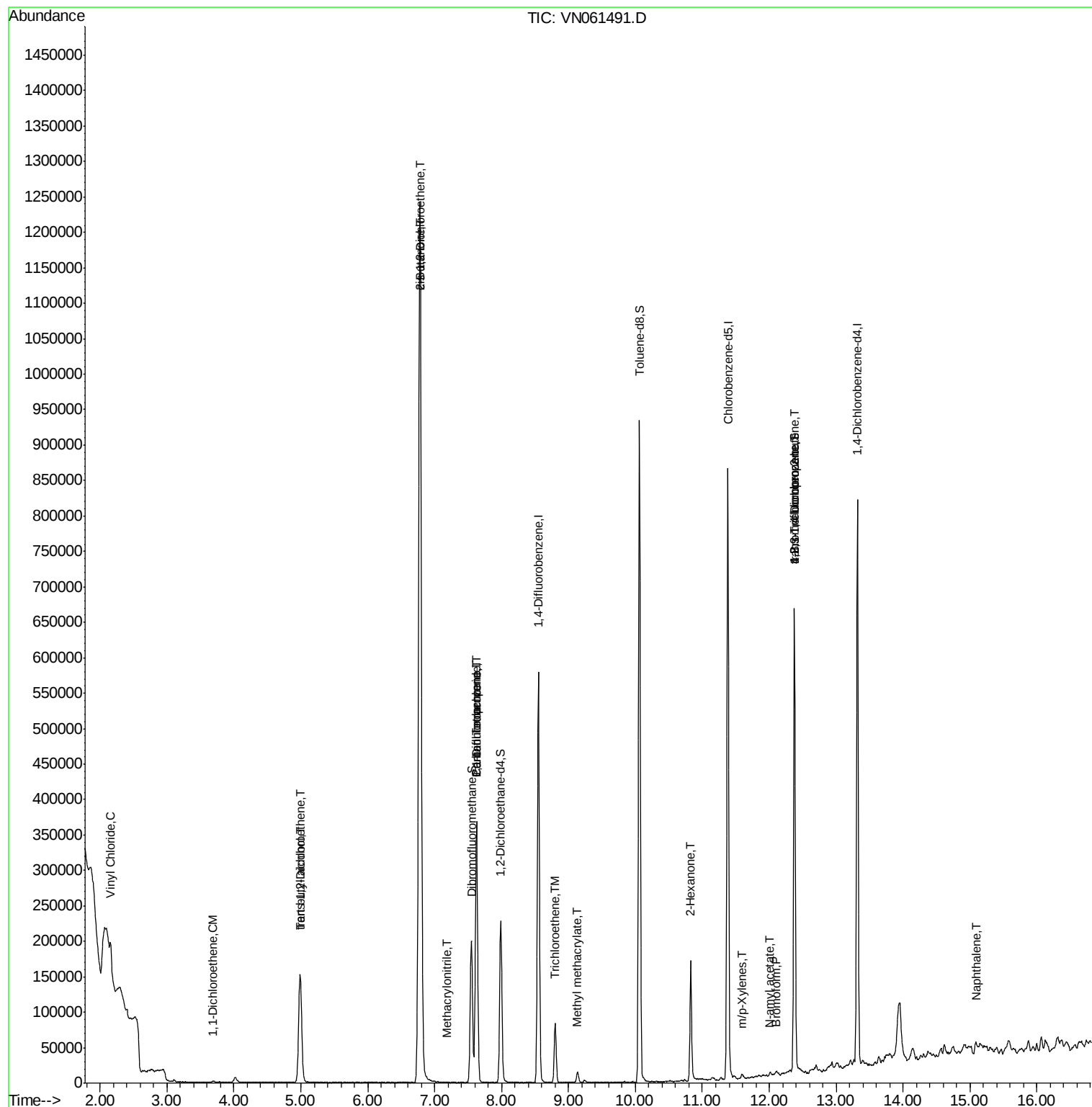
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	289982	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	532687	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	498978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	210019	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	197729	45.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.38%	
35) Dibromofluoromethane	7.55	113	155409	55.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.38%	
50) Toluene-d8	10.06	98	650594	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.38	95	237446	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.16	62	26895	4.778	ug/l	93
5) Bromomethane	2.53	94	68	Below Cal	#	63
11) Tert butyl alcohol	4.98	59	2337	4.686	ug/l #	80
12) 1,1-Dichloroethene	3.70	96	1093	0.368	ug/l #	80
16) Acetone	3.78	43	1208	Below Cal		96
17) Carbon Disulfide	4.01	76	3571	Below Cal	#	75
18) Methyl Acetate	4.27	43	131	Below Cal	#	49
21) trans-1,2-Dichloroethene	4.99	96	105453	30.767	ug/l	99
25) 2-Butanone	6.79	43	474	0.241	ug/l #	1
27) cis-1,2-Dichloroethene	6.78	96	865740	213.833	ug/l	86
31) Cyclohexane	7.62	56	6477	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	23945	4.807	ug/l #	50
38) Carbon Tetrachloride	7.63	117	30348	6.617	ug/l #	15
41) Methacrylonitrile	7.18	41	408	0.214	ug/l #	15
44) Trichloroethene	8.80	130	29290	7.447	ug/l	98
48) Methyl methacrylate	9.14	41	4082	1.122	ug/l #	40
59) 2-Hexanone	10.83	43	27894	8.983	ug/l #	46
68) m/p-Xylenes	11.59	106	2444	0.347	ug/l	96
71) Bromoform	12.11	173	95	2.052	ug/l #	29
74) N-amyl acetate	12.01	43	1681	0.272	ug/l #	50
76) 1,2,3-Trichloropropane	12.37	75	123419	27.387	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	123419	72.651	ug/l #	12
95) Naphthalene	15.11	128	2321	0.210	ug/l #	68

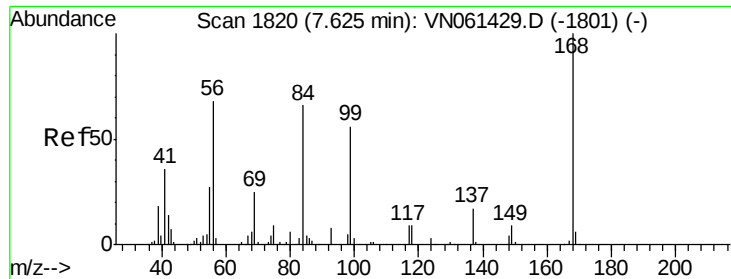
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

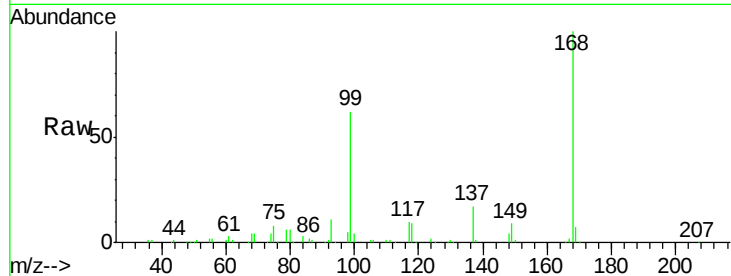
S32-0689

Tot Ion:168 Resp: 289982

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

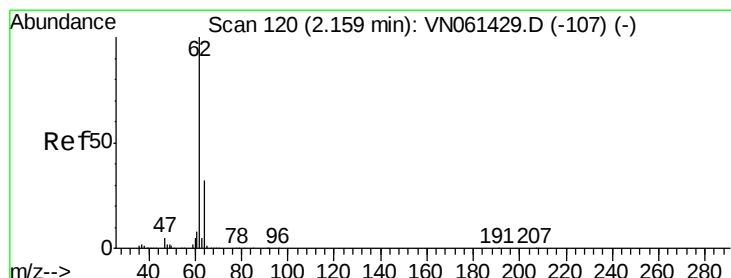
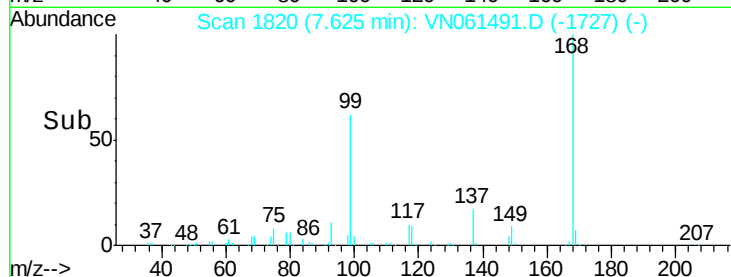
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#4

Vinyl Chloride

Concen: 4.778 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN061491.D

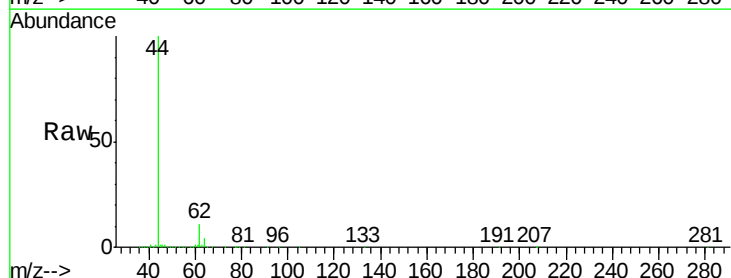
Acq: 19 May 2020 18:17

Tgt Ion: 62 Resp: 26895

Ion Ratio Lower Upper

62 100

64 35.6 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.16

20000

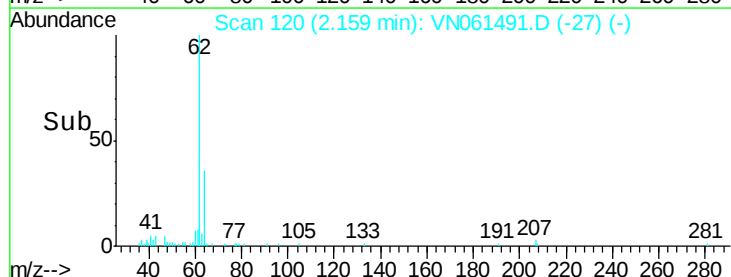
15000

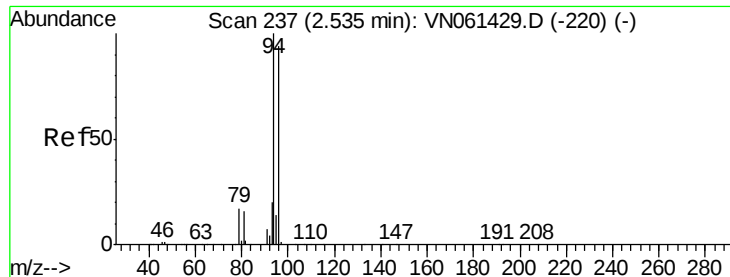
10000

5000

0

Time--> 2.10 2.15 2.20





#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 236

Delta R.T. -0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

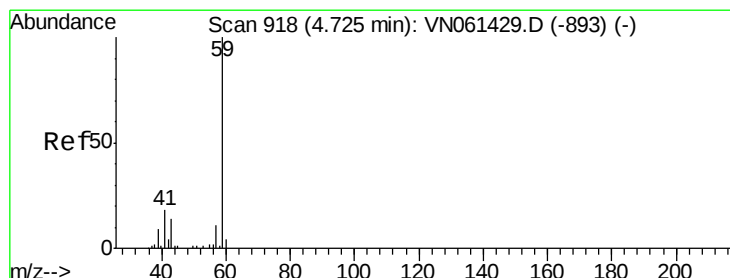
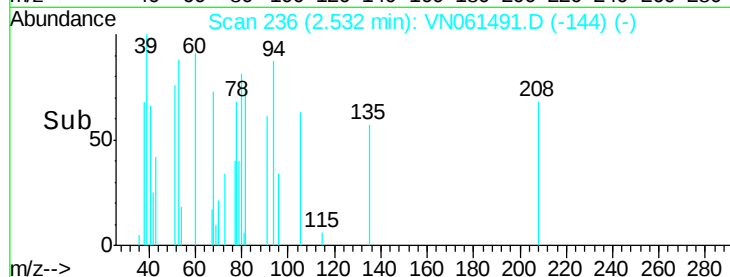
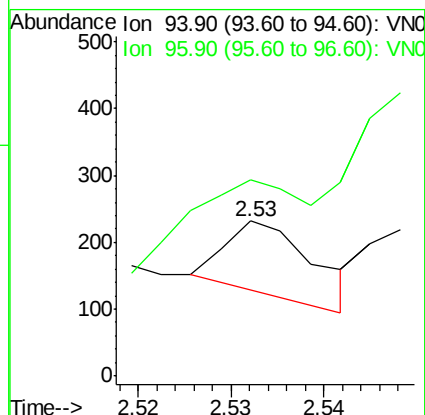
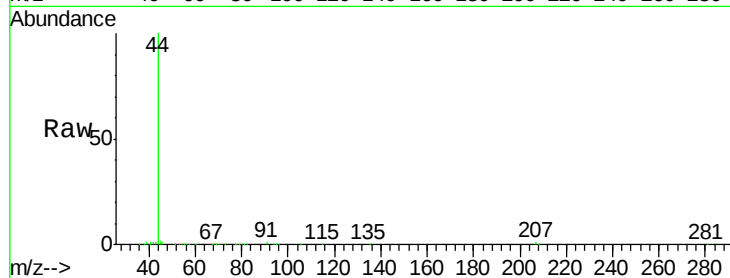
S32-0689

Tot Ion: 94 Resp: 68

Ion Ratio Lower Upper

94 100

96 57.5 74.9 112.3#



#11

Tert butyl alcohol

Concen: 4.686 ug/l

RT: 4.98 min Scan# 998

Delta R.T. 0.26 min

Lab File: VN061491.D

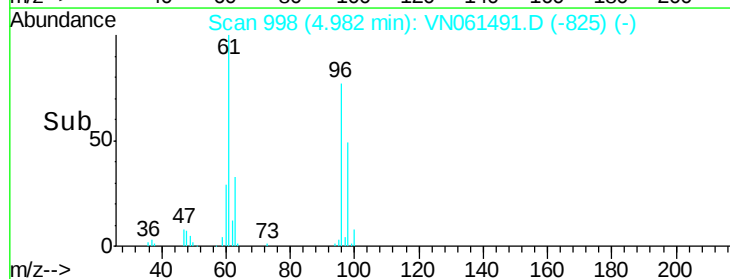
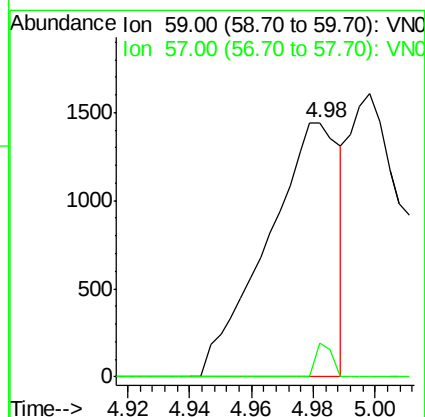
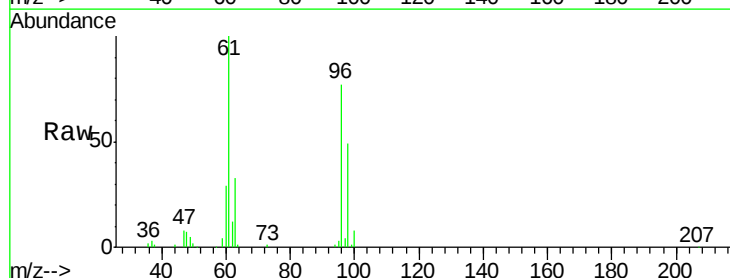
Acq: 19 May 2020 18:17

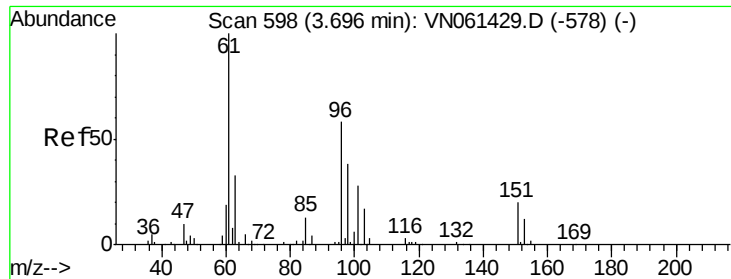
Tgt Ion: 59 Resp: 2337

Ion Ratio Lower Upper

59 100

57 2.8 8.2 12.2#

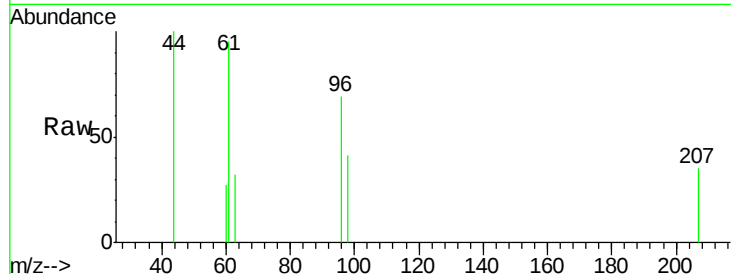




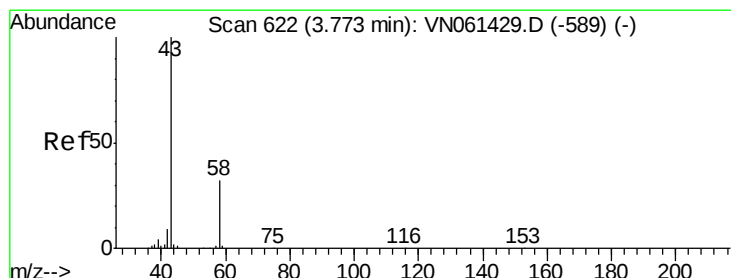
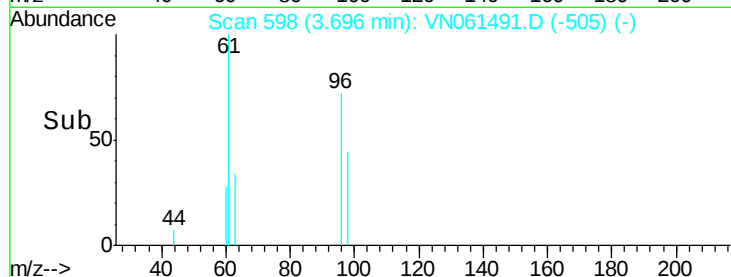
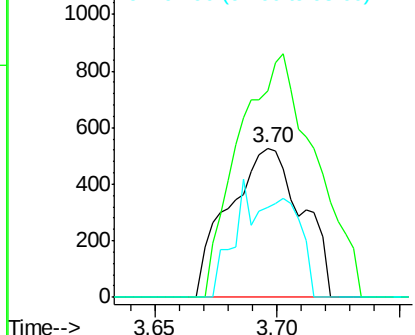
#12
 1,1-Dichloroethene
 Concen: 0.368 ug/l
 RT: 3.70 min Scan# 598
 Delta R.T. -0.00 min
 Lab File: VN061491.D
 Acq: 19 May 2020 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0689

Tot Ion: 96 Resp: 1093
 Ion Ratio Lower Upper
 96 100
 61 138.7 138.7 208.1#
 98 60.5 53.0 79.6

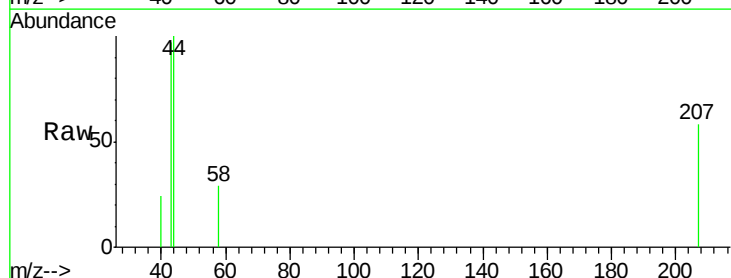


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

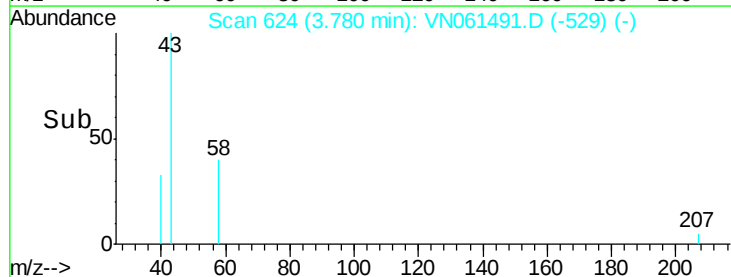
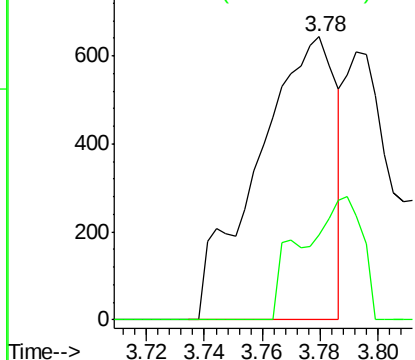


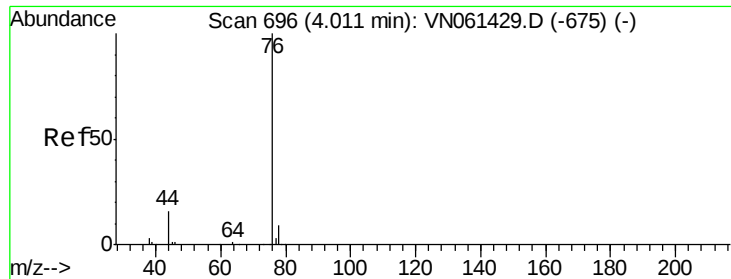
#16
 Acetone
 Concen: Below Cal
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN061491.D
 Acq: 19 May 2020 18:17

Tgt Ion: 43 Resp: 1208
 Ion Ratio Lower Upper
 43 100
 58 29.9 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

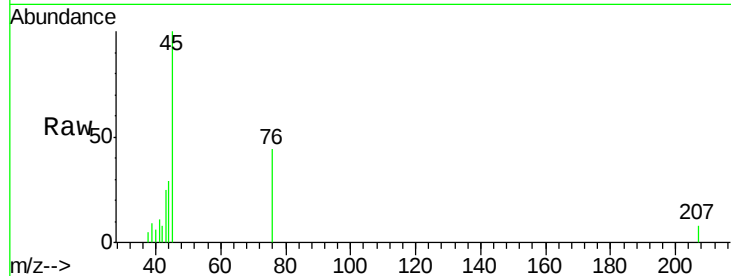
S32-0689

Tot Ion: 76 Resp: 3571

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

4.01

1500

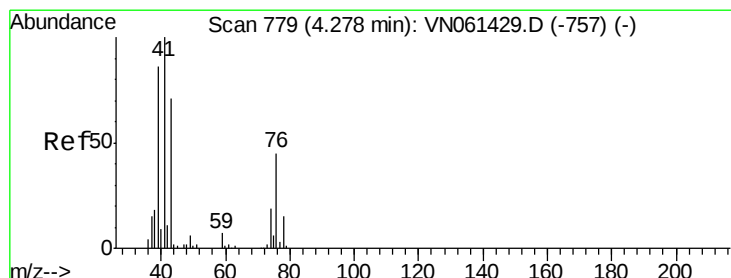
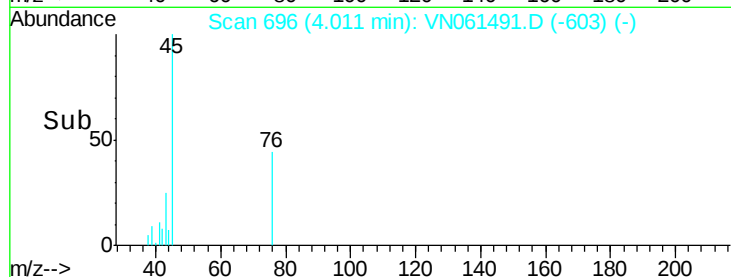
1000

500

0

3.95 4.00 4.05

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.27 min Scan# 777

Delta R.T. -0.01 min

Lab File: VN061491.D

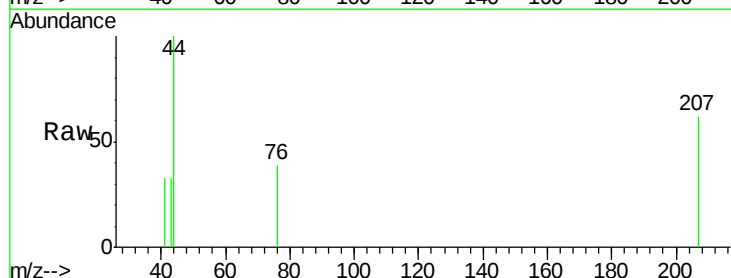
Acq: 19 May 2020 18:17

Tgt Ion: 43 Resp: 131

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

4.27

200

150

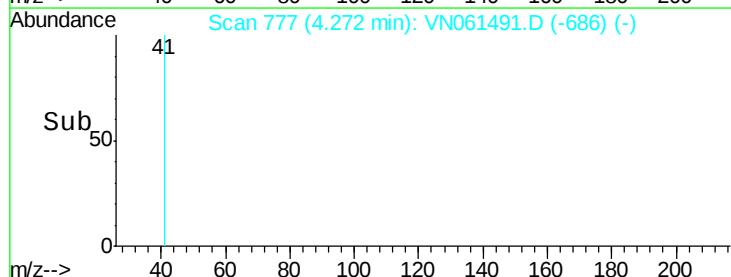
100

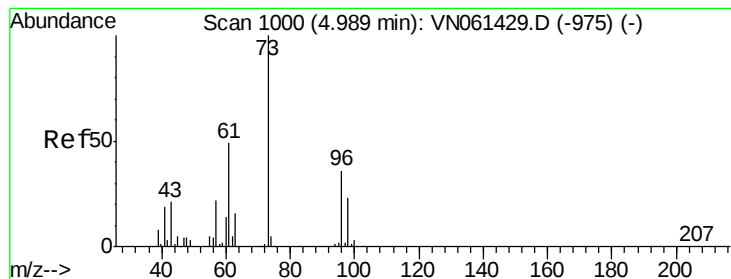
50

0

4.25 4.26 4.27 4.28

Time-->





#21

trans-1,2-Dichloroethene

Concen: 30.767 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampled :

S32-0689

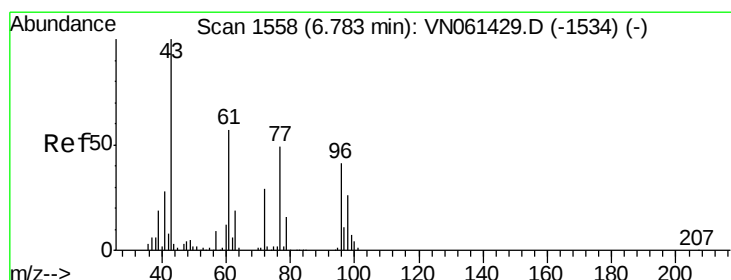
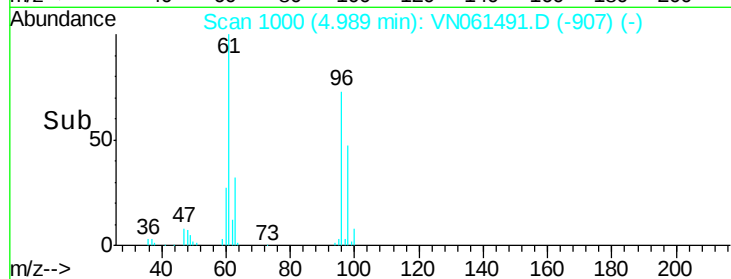
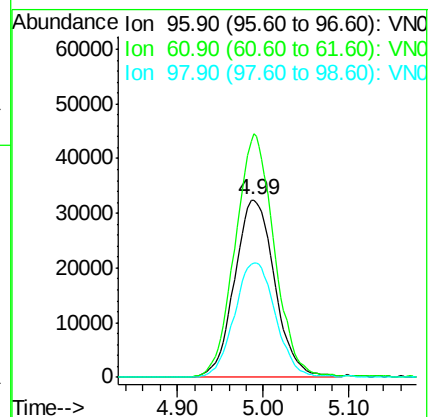
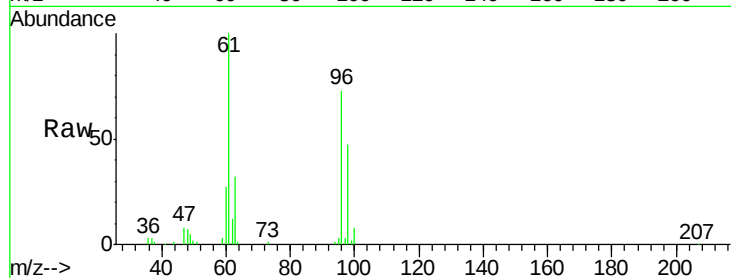
Tot Ion: 96 Resp: 105453

Ion Ratio Lower Upper

96 100

61 136.7 109.8 164.6

98 64.5 52.4 78.6



#25

2-Butanone

Concen: 0.241 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN061491.D

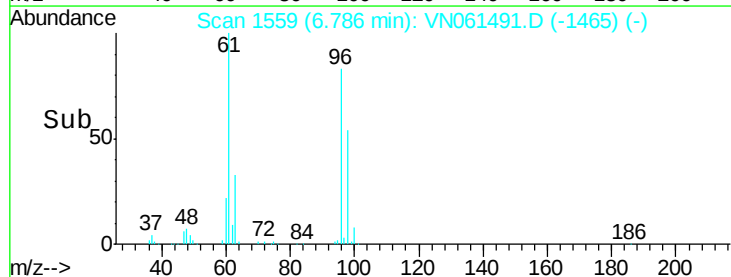
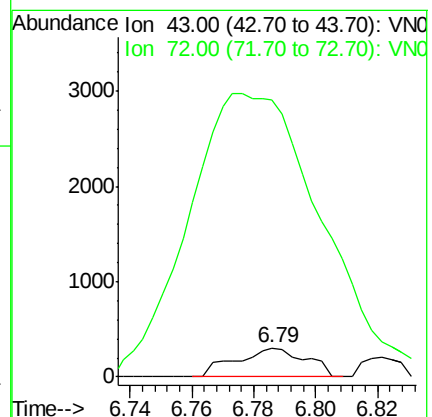
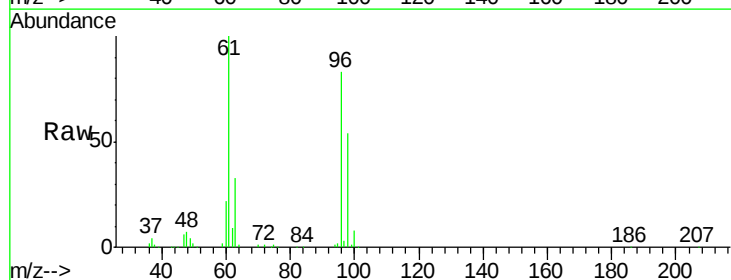
Acq: 19 May 2020 18:17

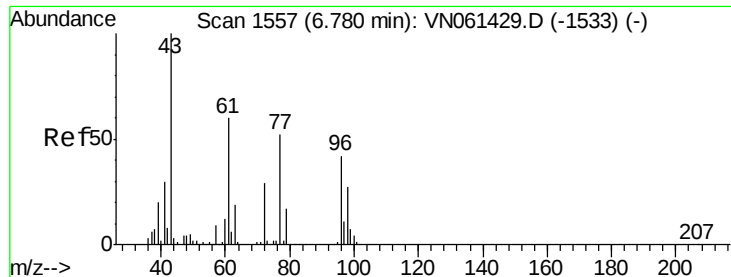
Tgt Ion: 43 Resp: 474

Ion Ratio Lower Upper

43 100

72 552.2 23.0 34.6#





#27

cis-1,2-Dichloroethene

Concen: 213.833 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

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ClientSampleId :

S32-0689

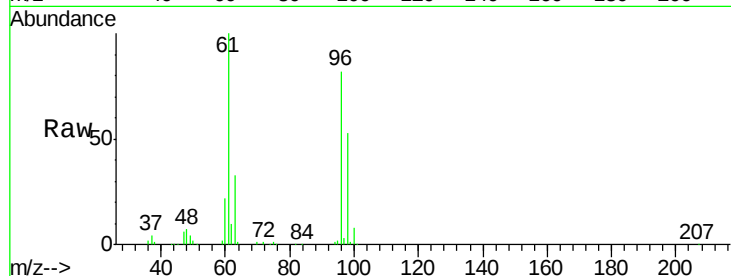
Tot Ion: 96 Resp: 865740

Ion Ratio Lower Upper

96 100

61 121.8 0.0 294.2

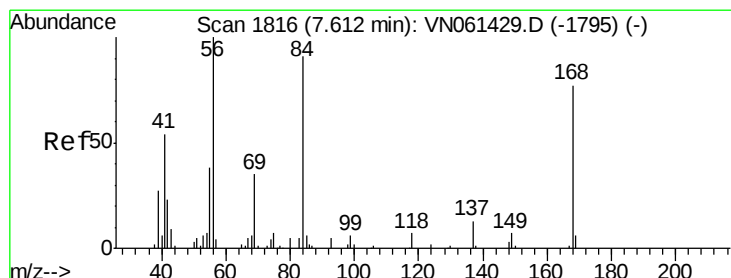
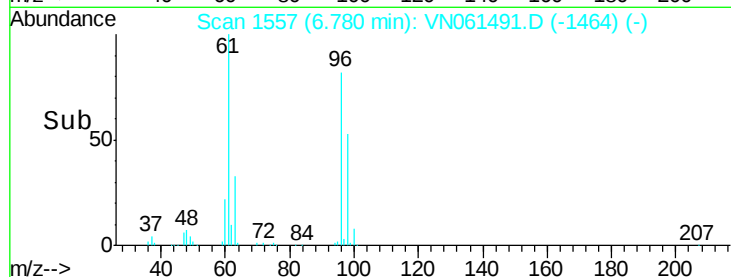
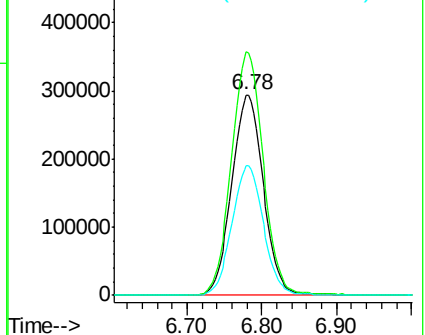
98 64.5 0.0 128.2



Abundance Ion 95.90 (95.60 to 96.60): VN061491.D (-1464) (-)

Ion 60.90 (60.60 to 61.60): VN061491.D (-1464) (-)

Ion 97.90 (97.60 to 98.60): VN061491.D (-1464) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

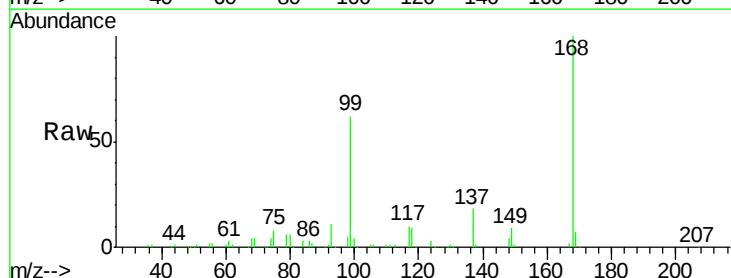
Tgt Ion: 56 Resp: 6477

Ion Ratio Lower Upper

56 100

69 176.4 27.8 41.6#

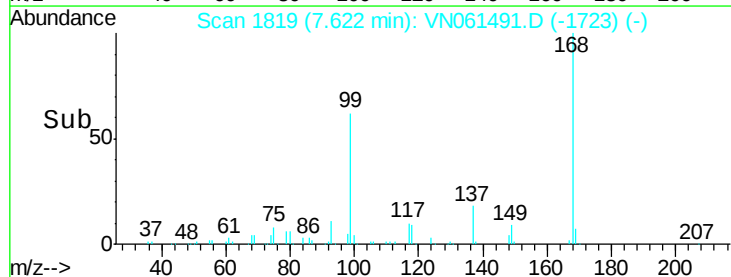
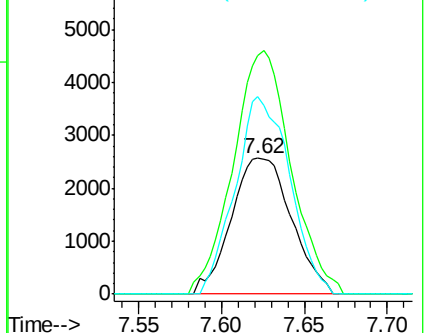
84 145.8 72.7 109.1#

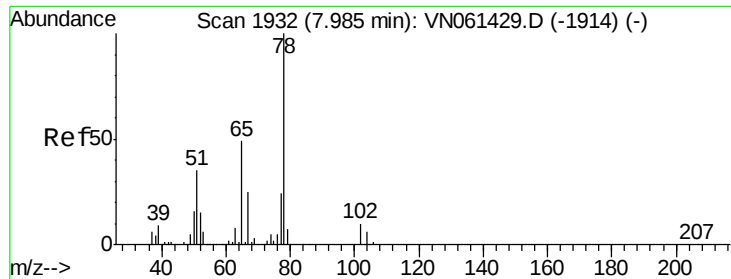


Abundance Ion 56.00 (55.70 to 56.70): VN061491.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061491.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061491.D (-1723) (-)

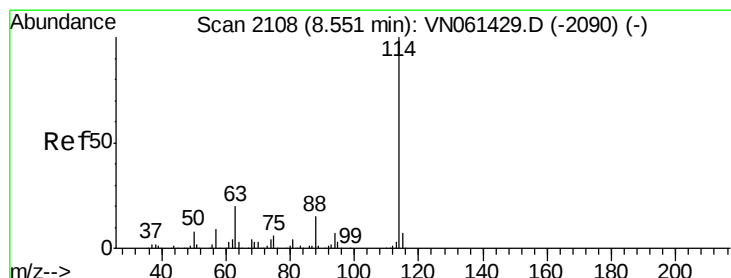
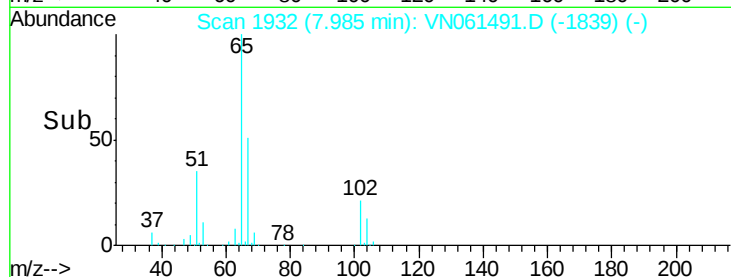
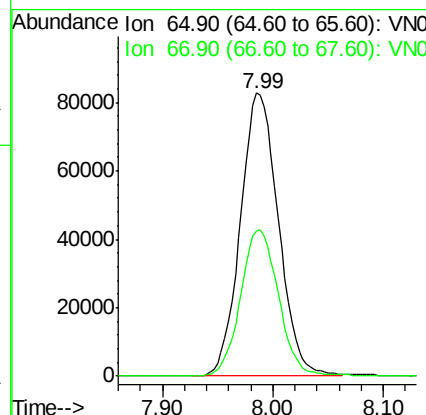
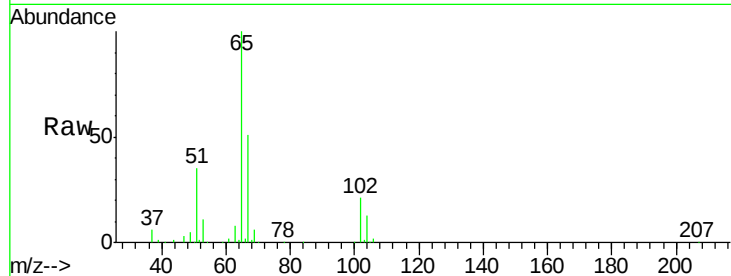




#33
 1,2-Dichloroethane-d4
 Concen: 45.688 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061491.D
 Acq: 19 May 2020 18:17

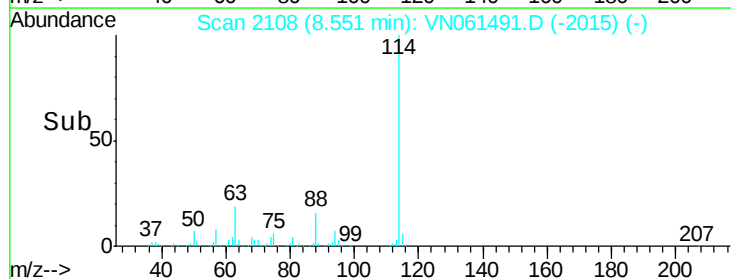
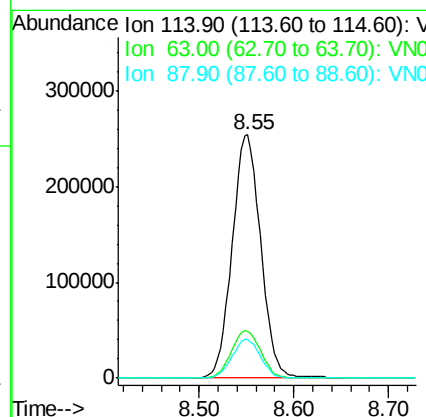
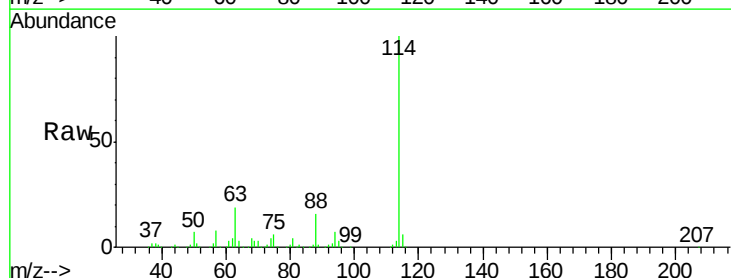
Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0689

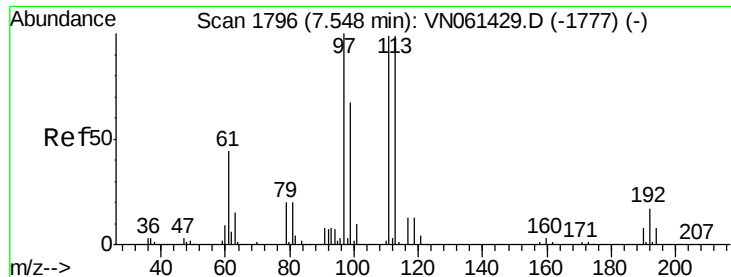
Tot Ion: 65 Resp: 197729
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061491.D
 Acq: 19 May 2020 18:17

Tgt Ion: 114 Resp: 532687
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.8
 88 15.8 0.0 30.8

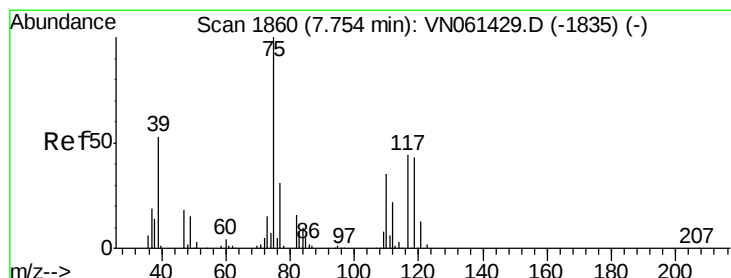
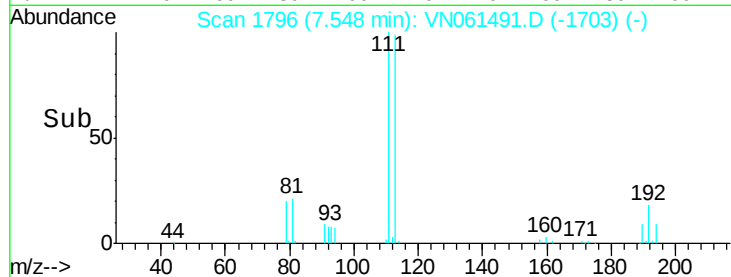
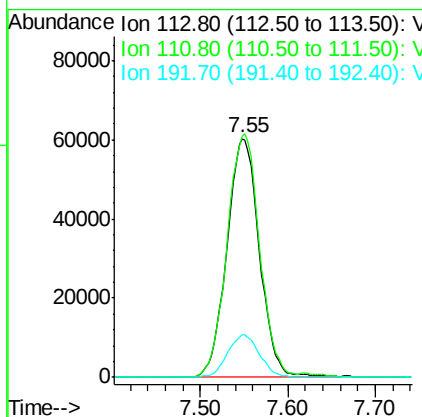
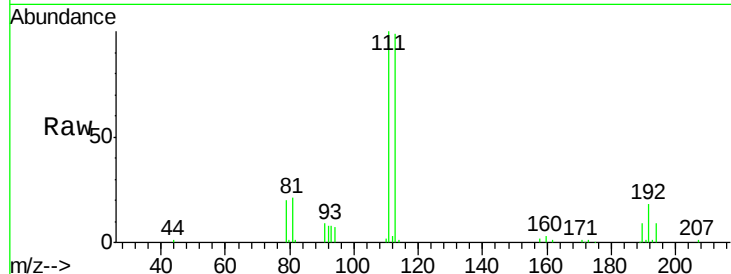




#35
 Dibromofluoromethane
 Concen: 55.690 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061491.D
 Acq: 19 May 2020 18:17

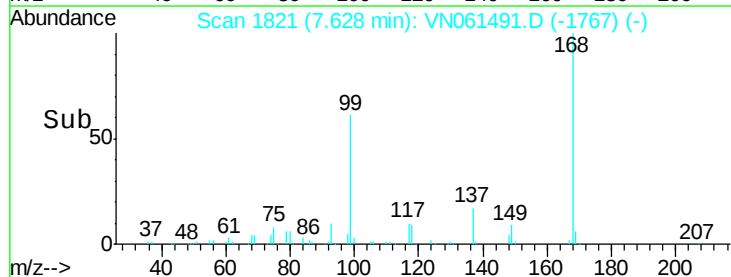
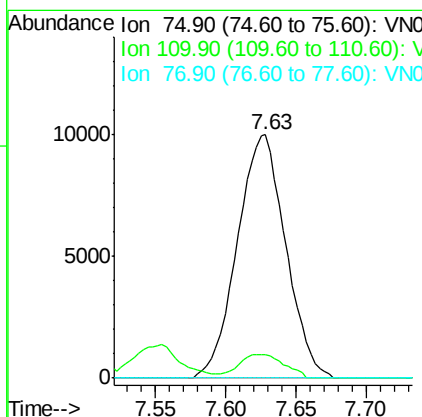
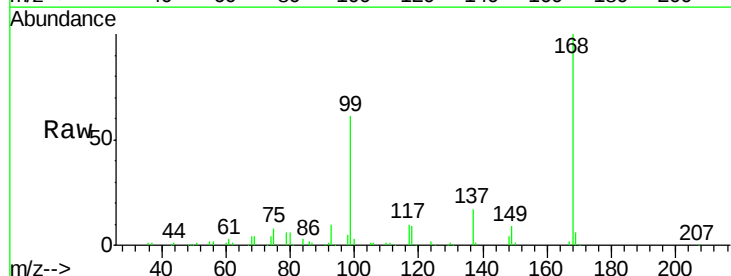
Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0689

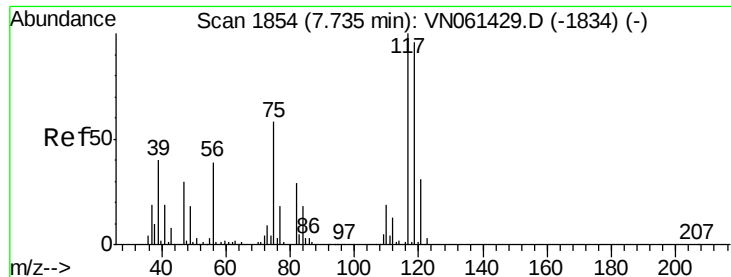
Tot Ion:113 Resp: 155409
 Ion Ratio Lower Upper
 113 100
 111 101.9 80.6 121.0
 192 17.6 13.2 19.8



#36
 1,1-Dichloropropene
 Concen: 4.807 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.13 min
 Lab File: VN061491.D
 Acq: 19 May 2020 18:17

Tgt Ion: 75 Resp: 23945
 Ion Ratio Lower Upper
 75 100
 110 9.1 17.3 51.9#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.617 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

S32-0689

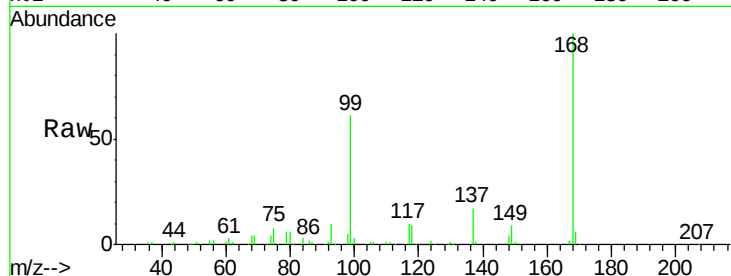
Tot Ion:117 Resp: 30348

Ion Ratio Lower Upper

117 100

119 4.0 77.0 115.6#

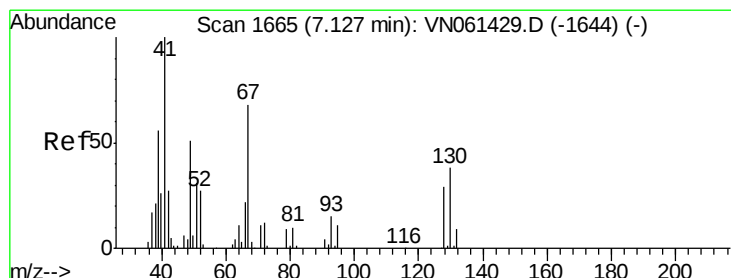
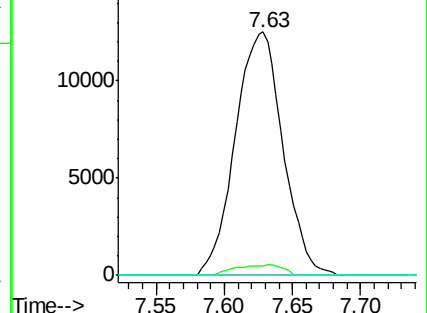
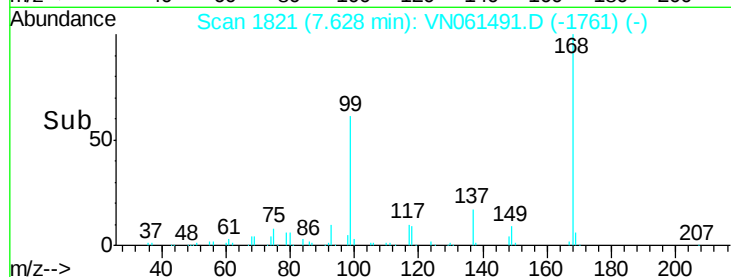
121 0.0 24.7 37.1#



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: 0.214 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.06 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Tgt Ion: 41 Resp: 408

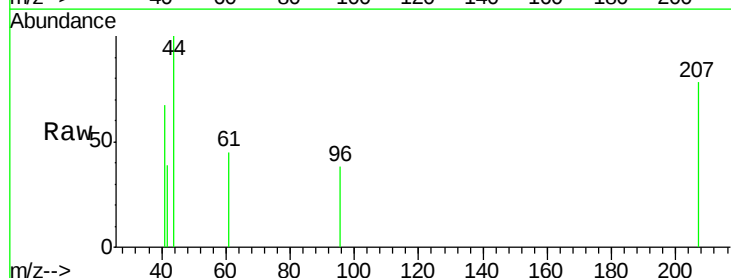
Ion Ratio Lower Upper

41 100

39 0.0 48.3 72.5#

67 0.0 74.2 111.4#

52 0.0 30.8 46.2#

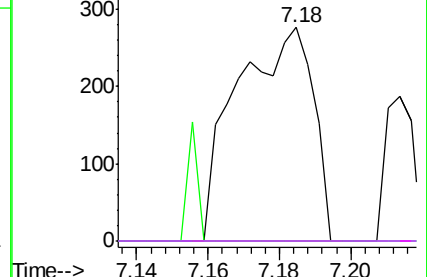
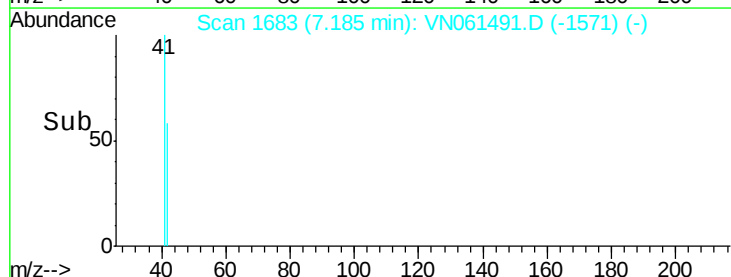


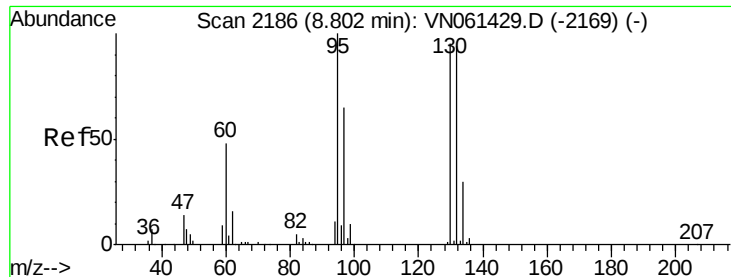
Abundance Ion 41.00 (40.70 to 41.70): V

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





#44

Trichloroethene

Concen: 7.447 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

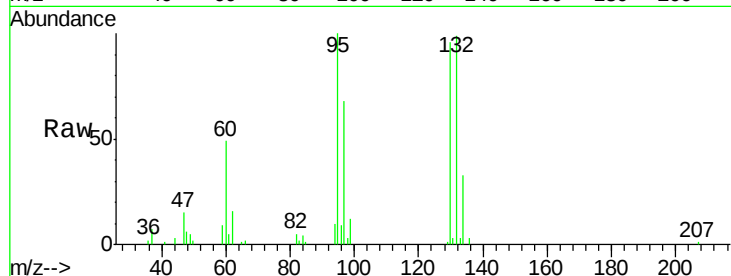
S32-0689

Tot Ion:130 Resp: 29290

Ion Ratio Lower Upper

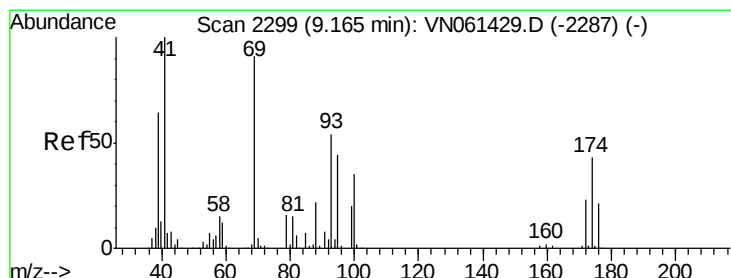
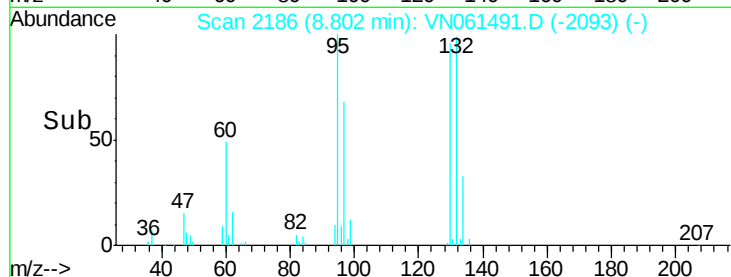
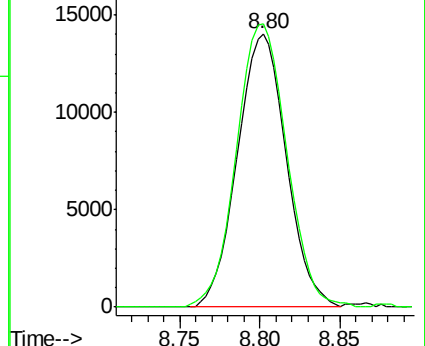
130 100

95 102.5 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0



#48

Methyl methacrylate

Concen: 1.122 ug/l

RT: 9.14 min Scan# 2290

Delta R.T. -0.03 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

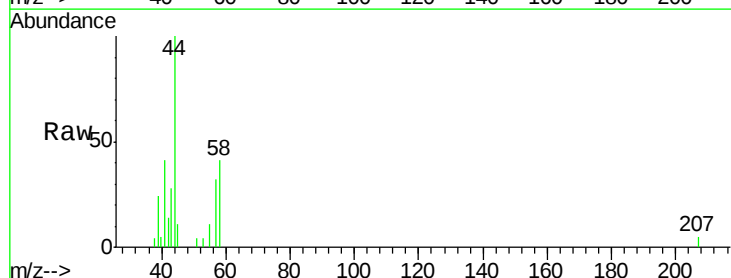
Tgt Ion: 41 Resp: 4082

Ion Ratio Lower Upper

41 100

69 0.0 75.3 112.9#

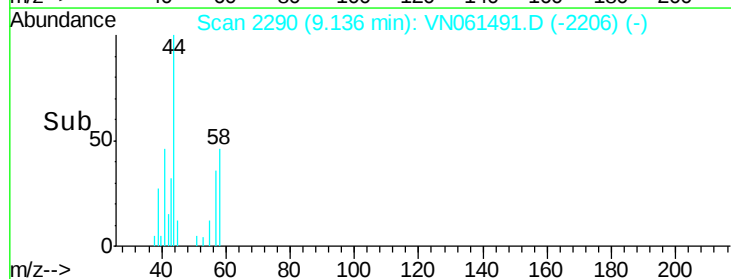
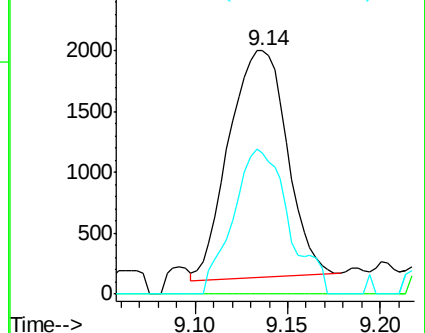
39 60.8 52.6 79.0

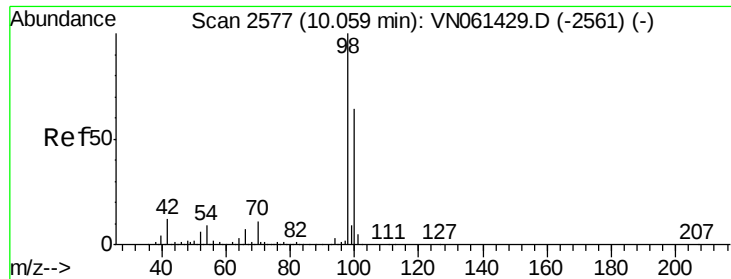


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 50.264 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

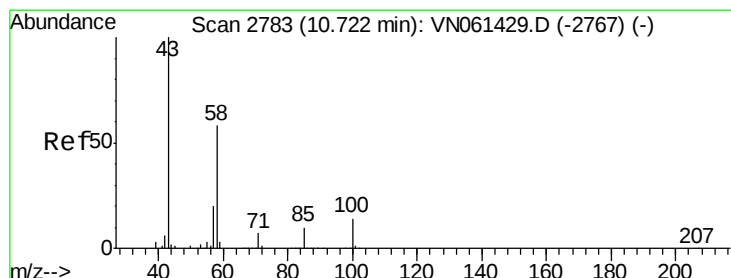
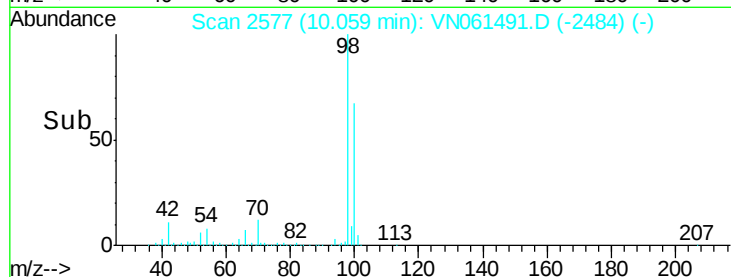
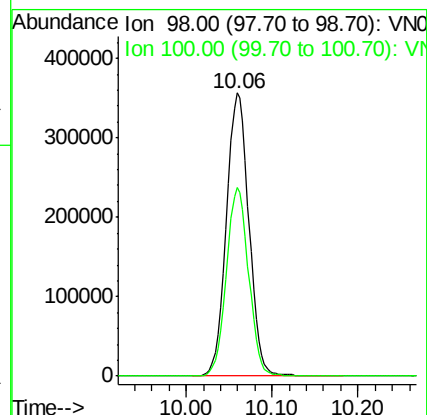
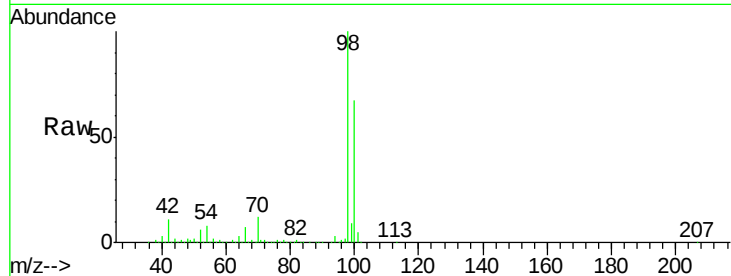
S32-0689

Tot Ion: 98 Resp: 650594

Ion Ratio Lower Upper

98 100

100 65.8 51.8 77.8



#59

2-Hexanone

Concen: 8.983 ug/l

RT: 10.83 min Scan# 2816

Delta R.T. 0.11 min

Lab File: VN061491.D

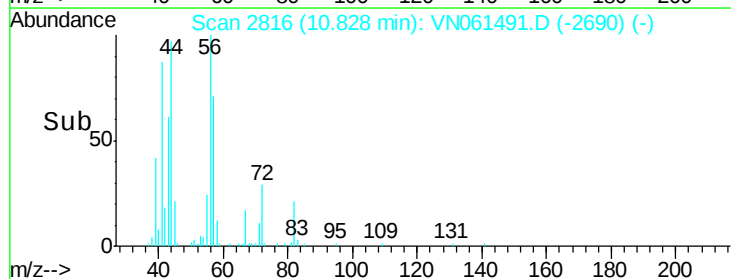
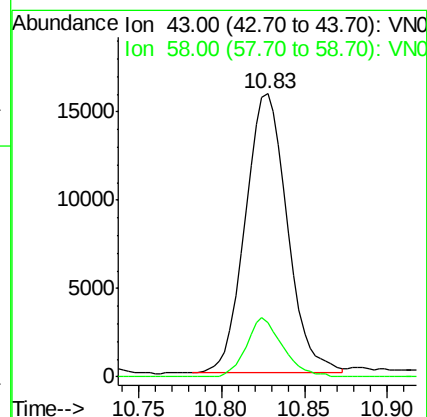
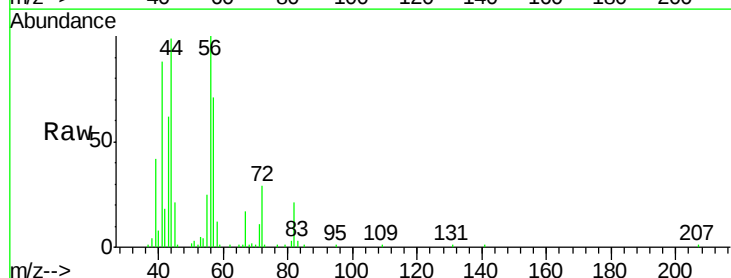
Acq: 19 May 2020 18:17

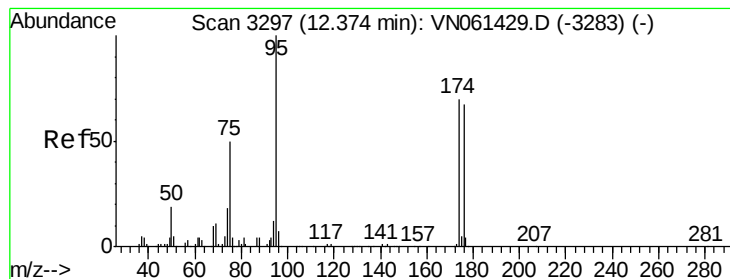
Tgt Ion: 43 Resp: 27894

Ion Ratio Lower Upper

43 100

58 18.4 29.2 87.6#





#62

4-Bromofluorobenzene

Concen: 49.102 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

S32-0689

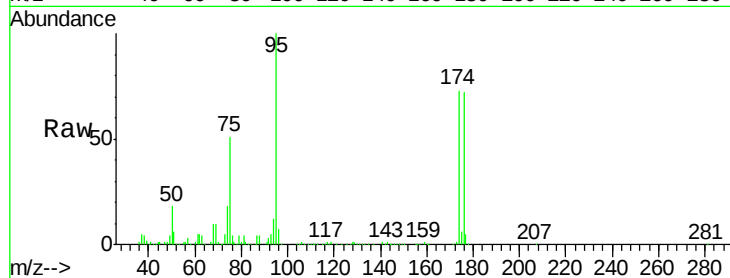
Tot Ion: 95 Resp: 237446

Ion Ratio Lower Upper

95 100

174 73.3 0.0 141.2

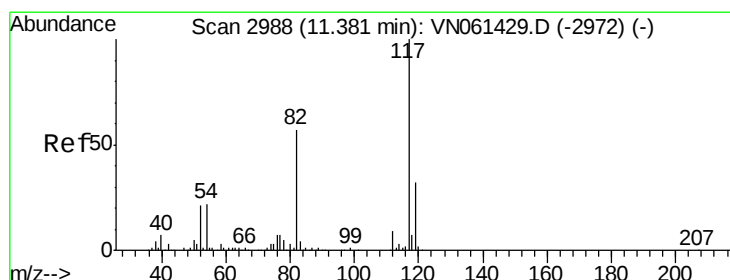
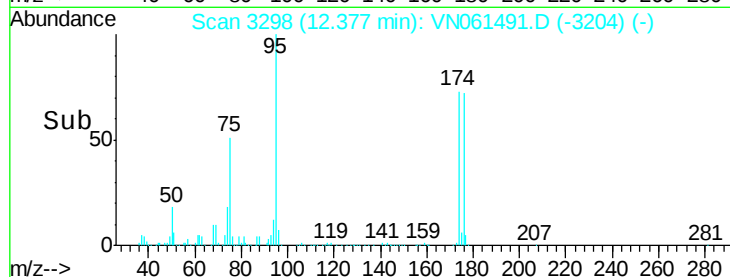
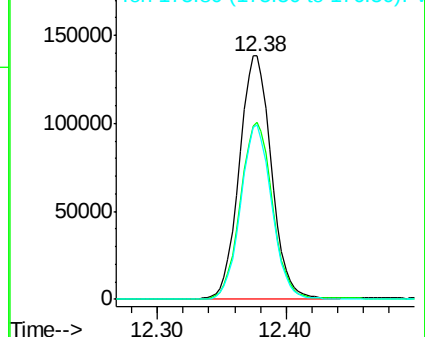
176 70.0 0.0 137.6



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: VN061491.D

Acq: 19 May 2020 18:17

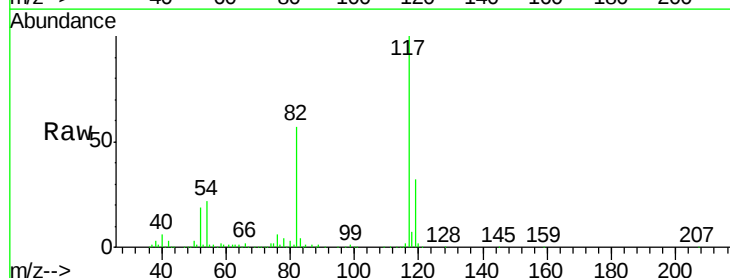
Tgt Ion: 117 Resp: 498978

Ion Ratio Lower Upper

117 100

82 57.2 45.2 67.8

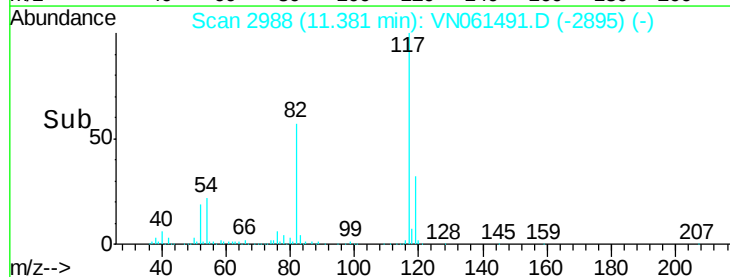
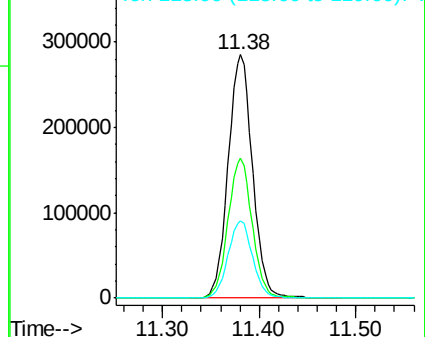
119 32.0 25.3 37.9

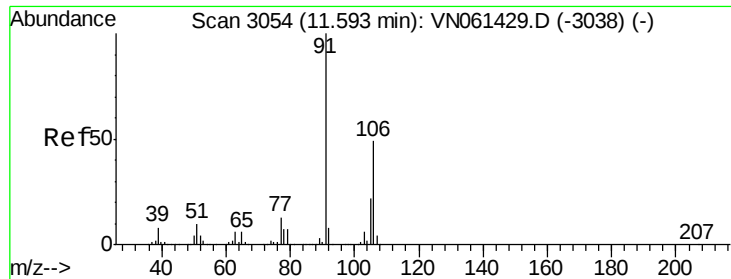


Abundance Ion 116.90 (116.60 to 117.60): VN061429.D (-2972) (-)

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

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

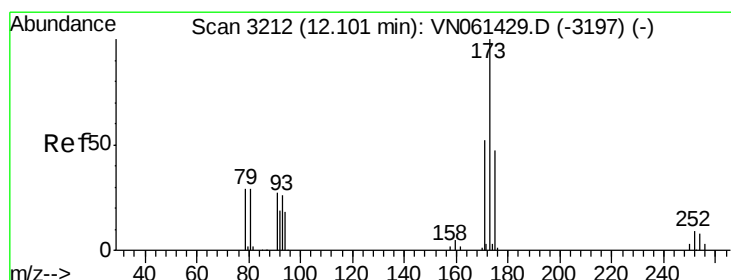
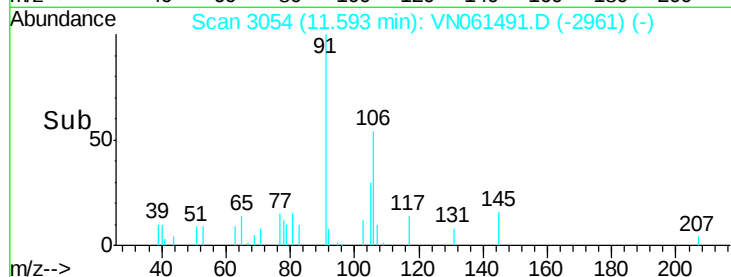
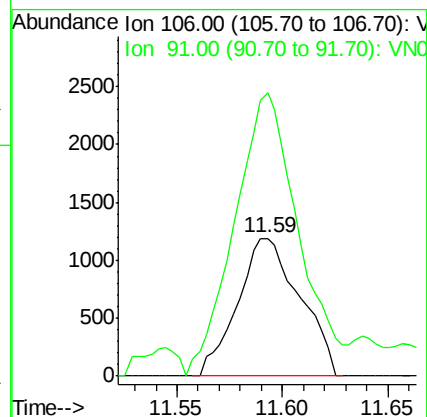
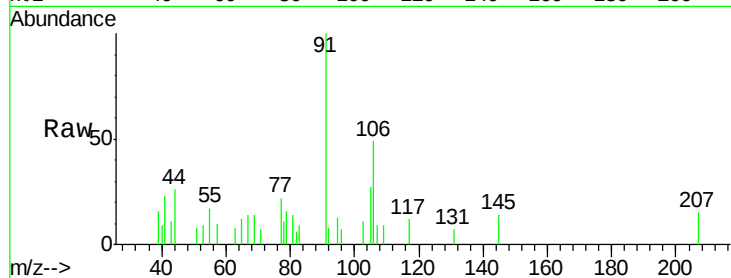




#68
m/p-Xvlenes
Concen: 0.347 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN061491.D
Acq: 19 May 2020 18:17

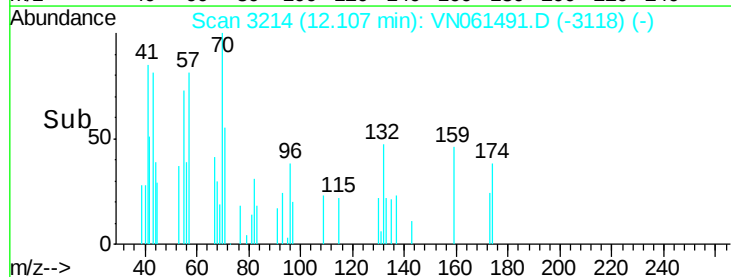
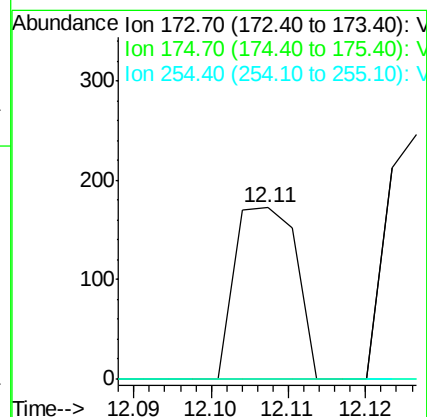
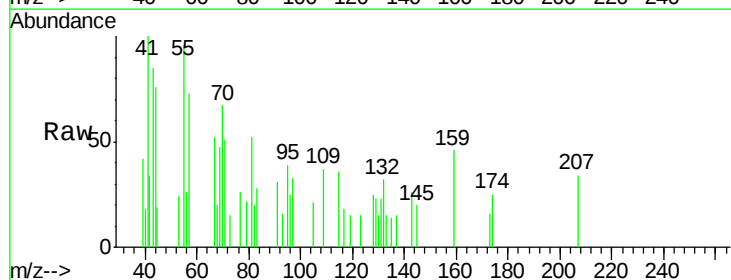
Instrument :
MSVOA_N
ClientSampled :
S32-0689

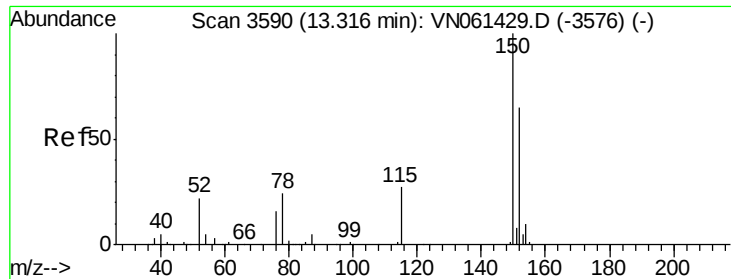
Tot Ion:106 Resp: 2444
Ion Ratio Lower Upper
106 100
91 209.3 163.0 244.6



#71
Bromoform
Concen: 2.052 ug/l
RT: 12.11 min Scan# 3214
Delta R.T. 0.01 min
Lab File: VN061491.D
Acq: 19 May 2020 18:17

Tgt Ion:173 Resp: 95
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# 3590

Delta R.T. -0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

S32-0689

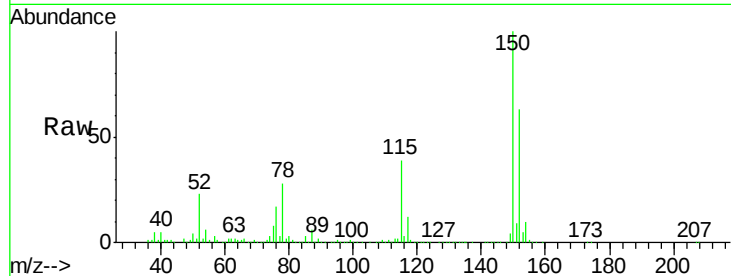
Tot Ion:152 Resp: 210019

Ion Ratio Lower Upper

152 100

115 60.5 30.9 92.5

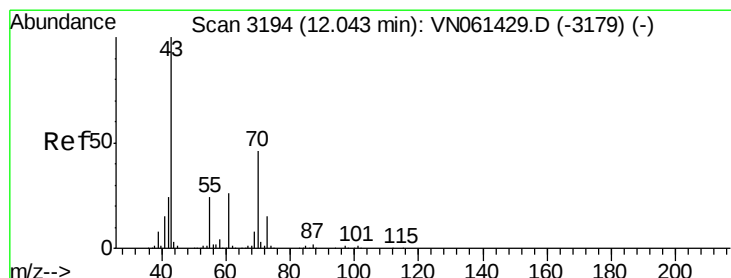
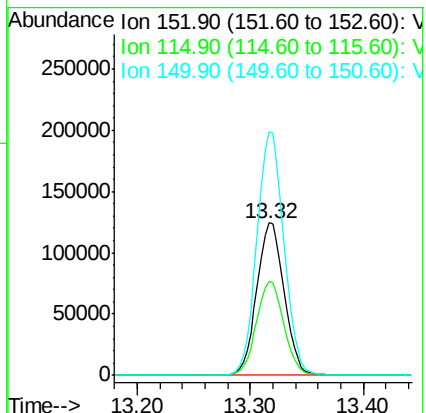
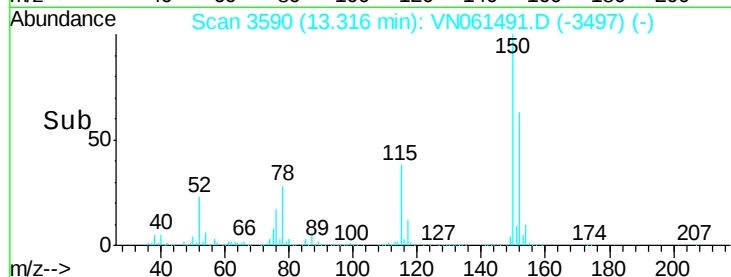
150 157.9 0.0 349.2



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



#74

N-ethyl acetate

Concen: 0.272 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Tgt Ion: 43 Resp: 1681

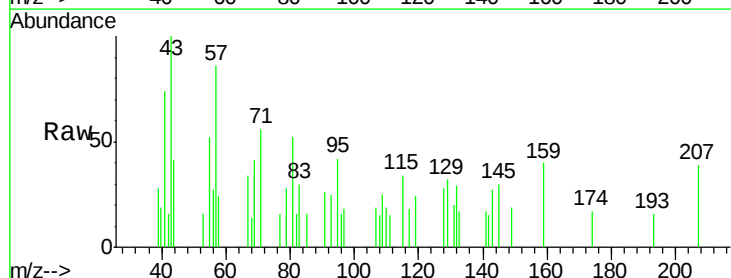
Ion Ratio Lower Upper

43 100

70 10.1 37.0 55.4#

55 5.0 19.5 29.3#

61 0.0 20.8 31.2#

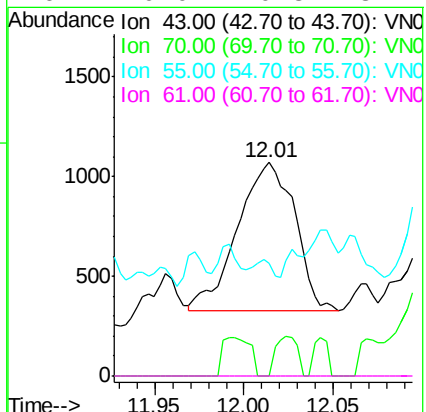
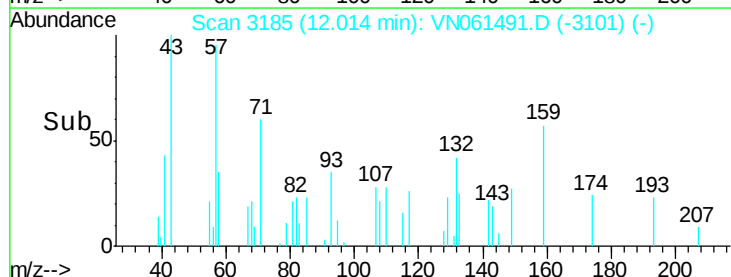


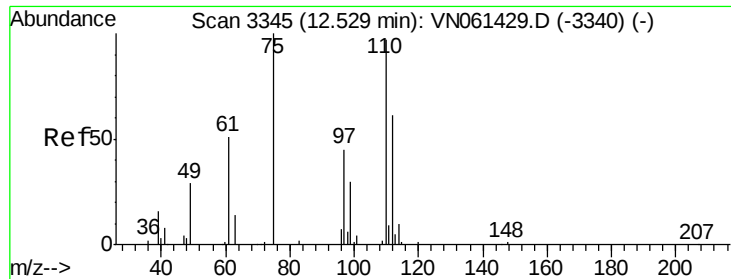
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 27.387 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

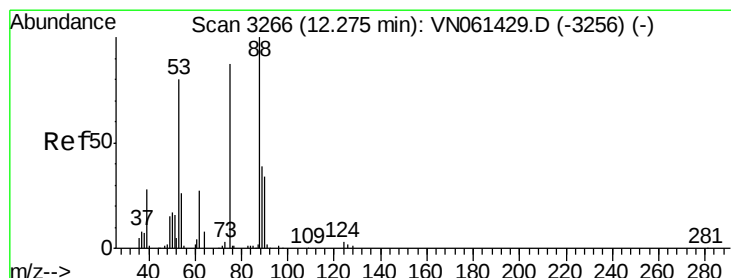
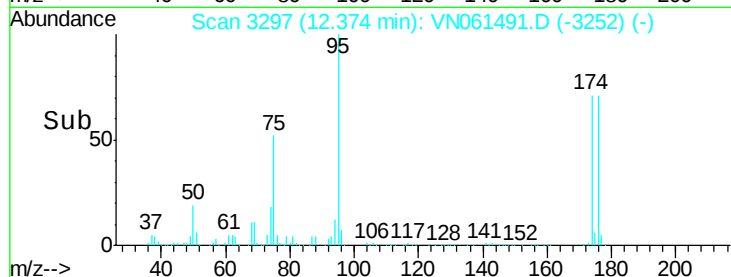
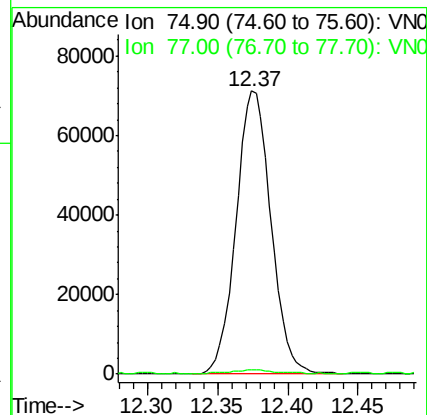
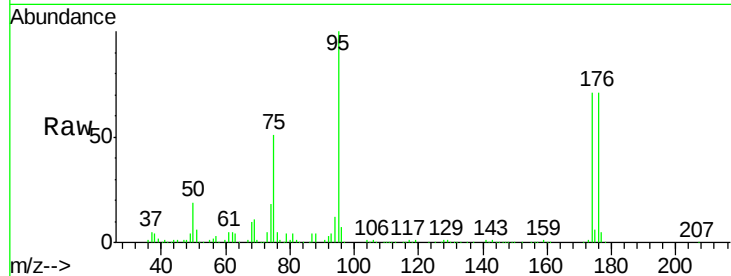
S32-0689

Tot Ion: 75 Resp: 123419

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.651 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

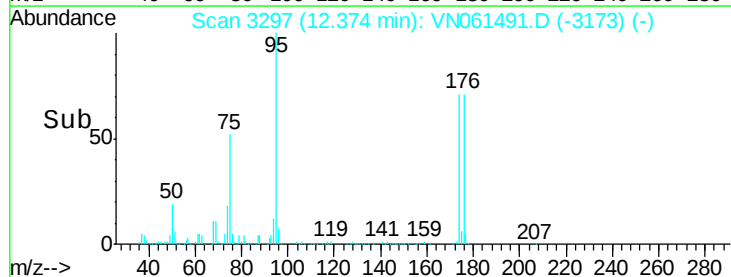
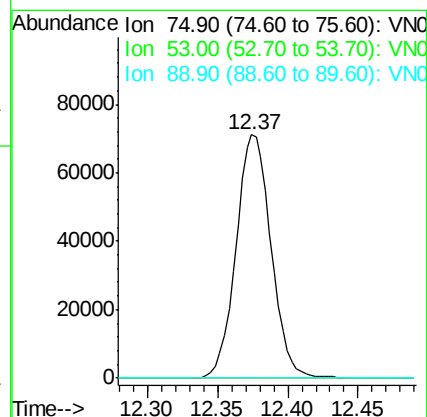
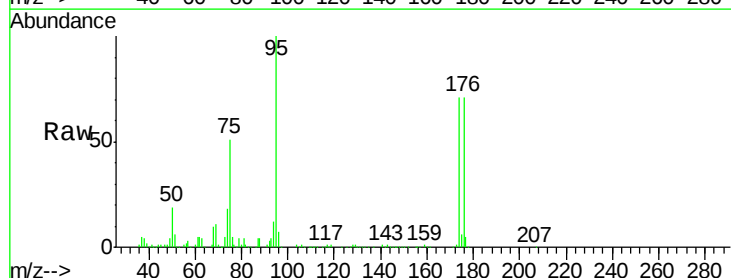
Tgt Ion: 75 Resp: 123419

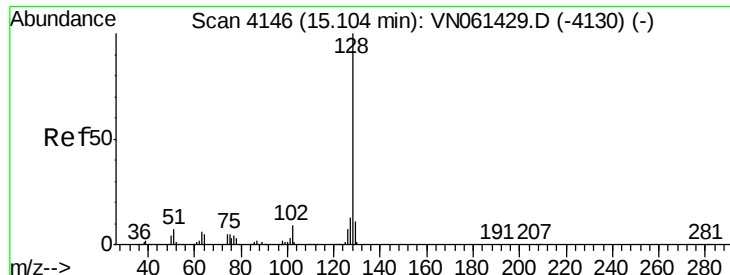
Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#





#95

Naphthalene

Concen: 0.210 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061491.D

Acq: 19 May 2020 18:17

Instrument :

MSVOA_N

ClientSampleId :

S32-0689

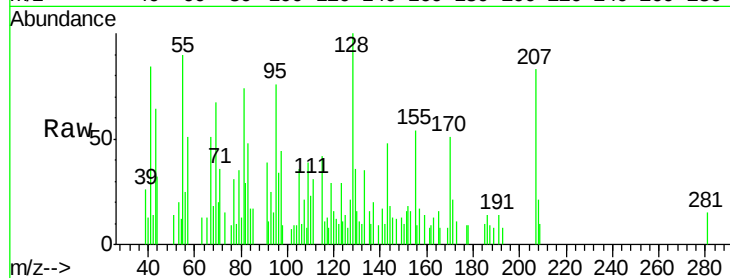
Tot Ion:128 Resp: 2321

Ion Ratio Lower Upper

128 100

127 25.7 10.1 15.1#

129 22.6 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

