

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011819\
 Data File : VN053476.D
 Acq On : 18 Jan 2019 17:04
 Operator : JC/SP
 Sample : K1199-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW521-4246

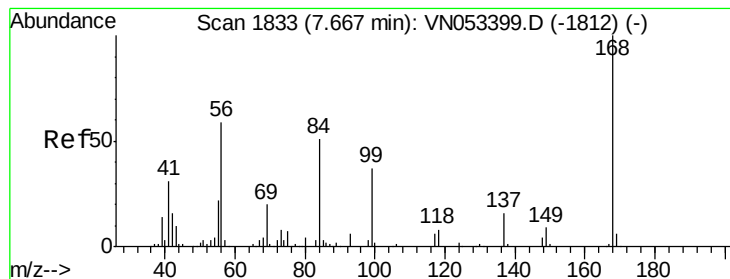
Quant Time: Jan 19 00:23:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	821568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1287189	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1223549	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	542013	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	421824	51.95	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.90%		
35) Dibromofluoromethane	7.59	113	384524	52.34	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.68%		
50) Toluene-d8	10.09	98	1590124	51.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.36%		
62) 4-Bromofluorobenzene	12.40	95	553719	50.83	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.66%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.63	56	102	22.857	ug/l #	14
16) Acetone	3.82	43	4077	2.140	ug/l	93
25) 2-Butanone	6.84	43	909	0.310	ug/l #	47
31) Cyclohexane	7.67	56	13333	0.714	ug/l #	1
32) 1,1,1-Trichloroethane	7.57	97	8383	0.692	ug/l #	50
36) 1,1-Dichloropropene	7.67	75	51918	4.429	ug/l #	50
38) Carbon Tetrachloride	7.67	117	71121	6.408	ug/l #	16
43) Isopropyl Acetate	8.22	43	15642	1.290	ug/l #	51
56) Ethyl methacrylate	10.14	69	31	2.060	ug/l #	28
71) Bromoform	12.41	173	3501	0.564	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	260874	36.523	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	260874	90.281	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	63	2.774	ug/l #	12
95) Naphthalene	15.13	128	552	3.978	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

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MSVOA_N

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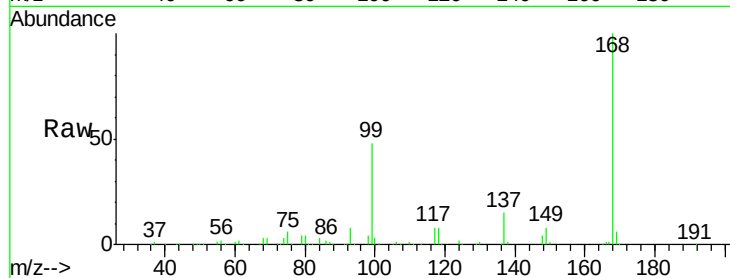
SA-TW521-4246

Tot Ion:168 Resp: 821568

Ion Ratio Lower Upper

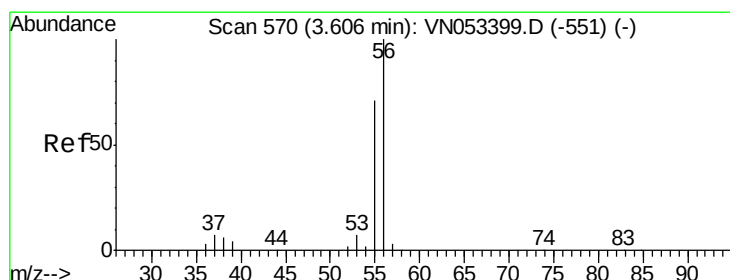
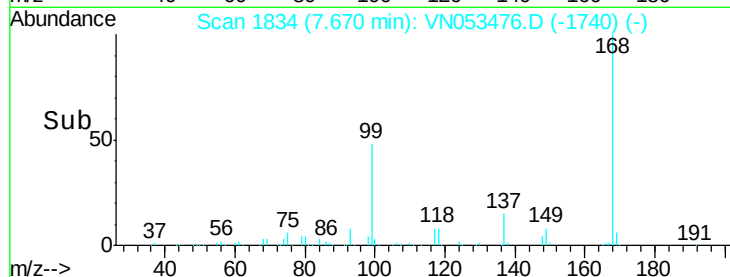
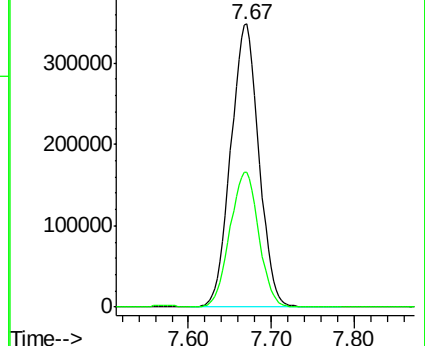
168 100

99 47.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 22.857 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN053476.D

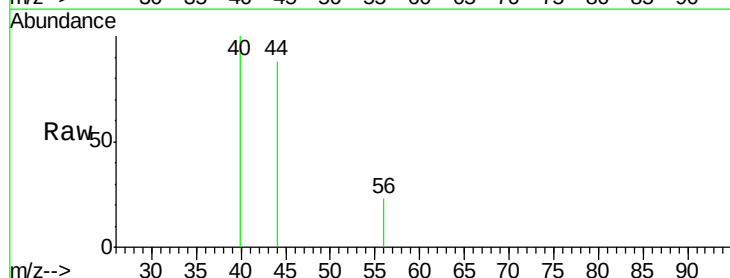
Acq: 18 Jan 2019 17:04

Tgt Ion: 56 Resp: 102

Ion Ratio Lower Upper

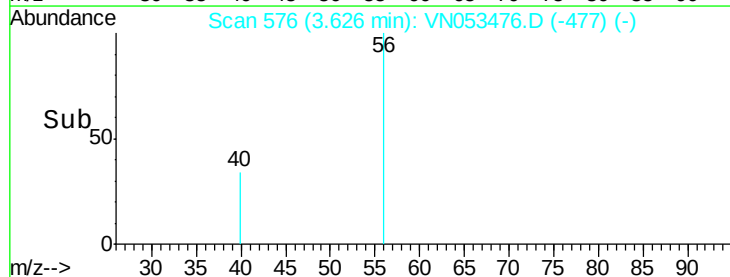
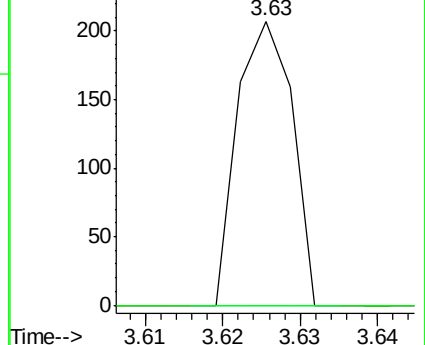
56 100

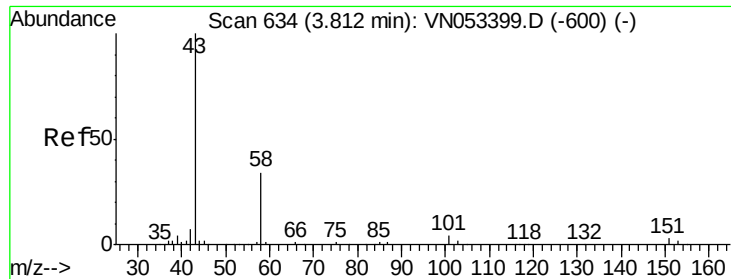
55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 2.140 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

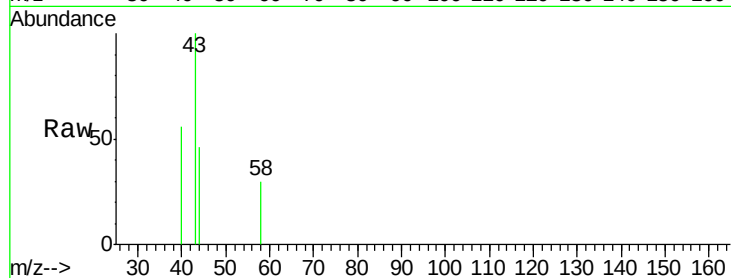
SA-TW521-4246

Tot Ion: 43 Resp: 4077

Ion Ratio Lower Upper

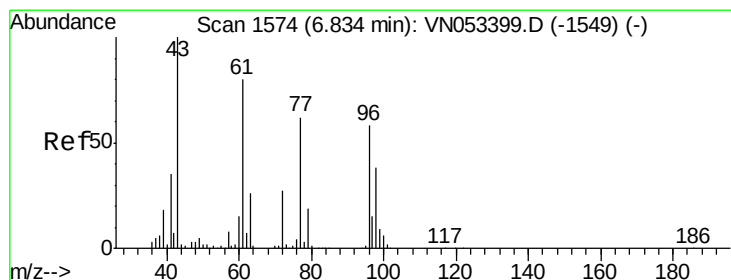
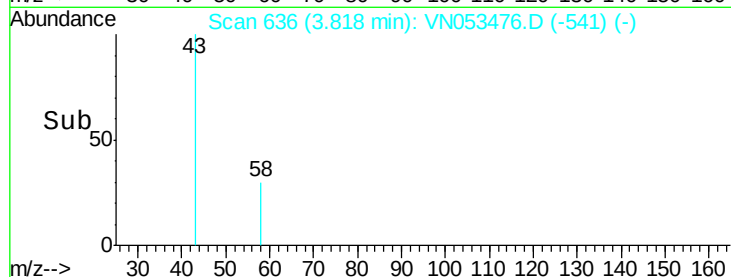
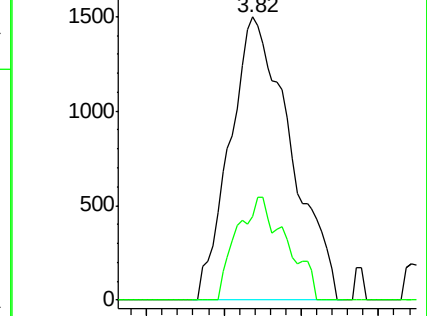
43 100

58 29.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#25

2-Butanone

Concen: 0.310 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053476.D

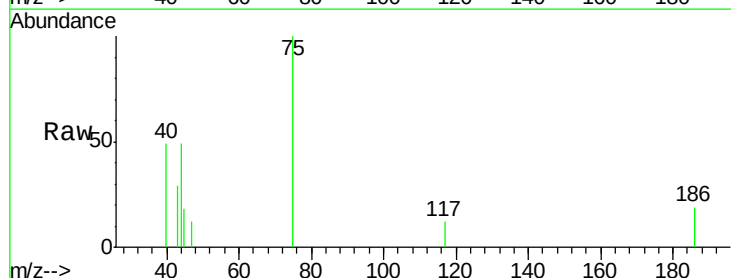
Acq: 18 Jan 2019 17:04

Tgt Ion: 43 Resp: 909

Ion Ratio Lower Upper

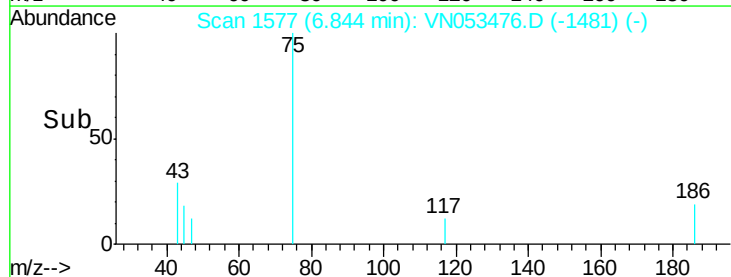
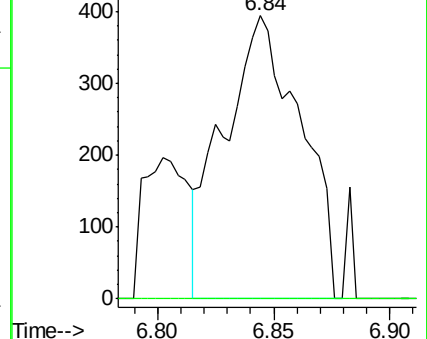
43 100

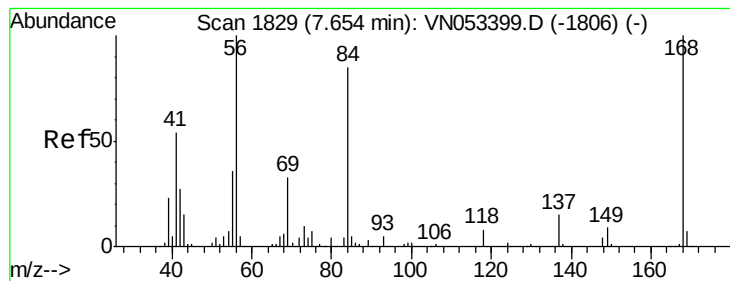
72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.714 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

SA-TW521-4246

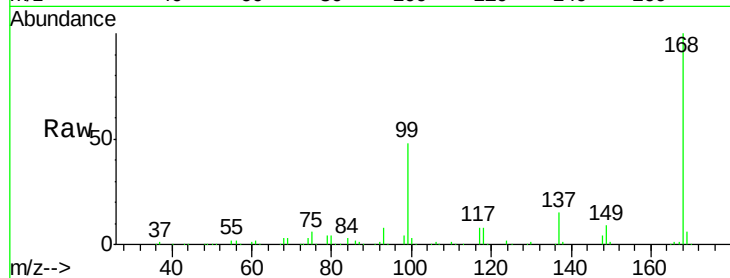
Tot Ion: 56 Resp: 13333

Ion Ratio Lower Upper

56 100

69 186.0 26.4 39.6#

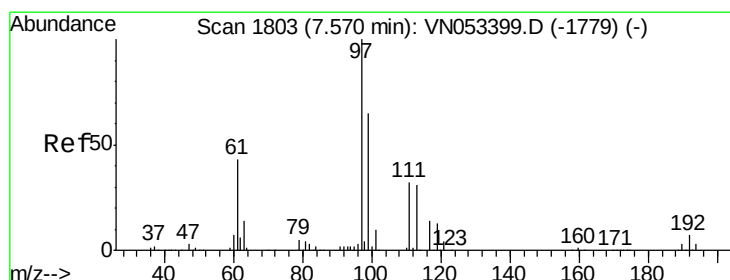
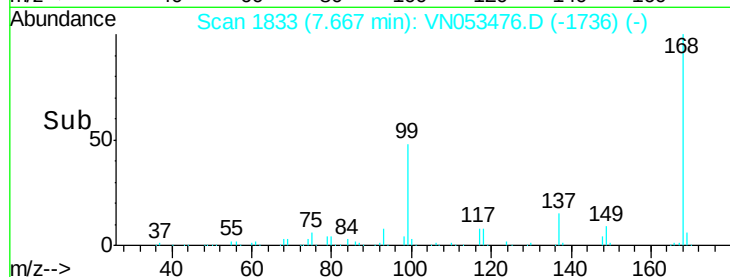
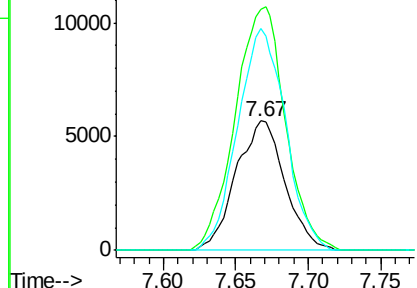
84 171.7 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 0.692 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

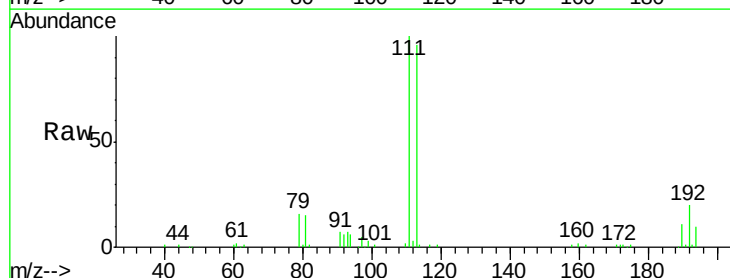
Tgt Ion: 97 Resp: 8383

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0#

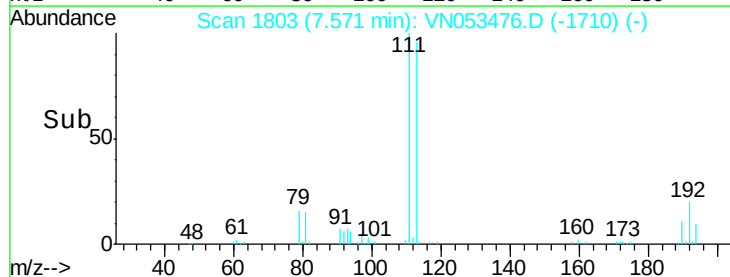
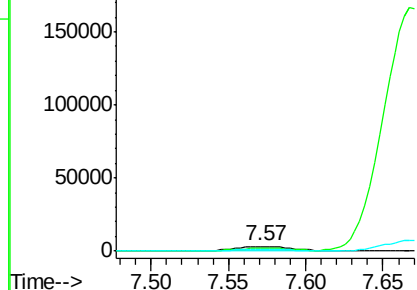
61 42.4 34.4 51.6

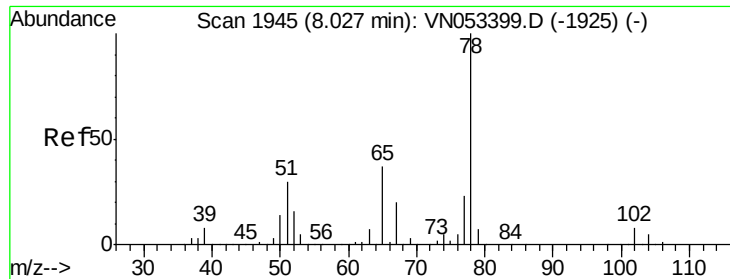


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

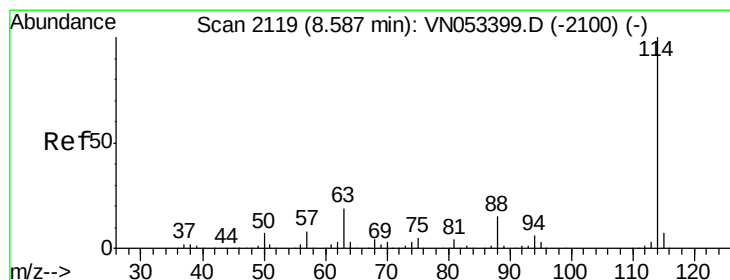
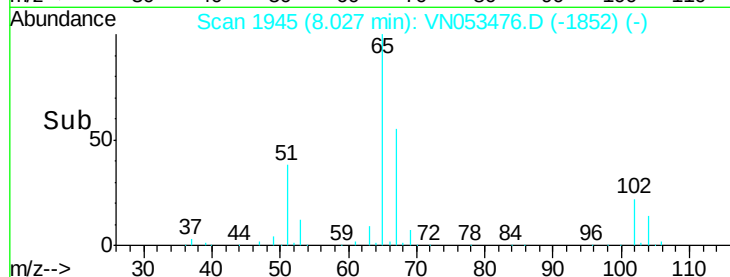
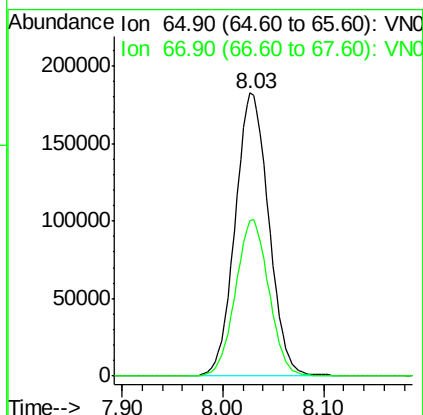
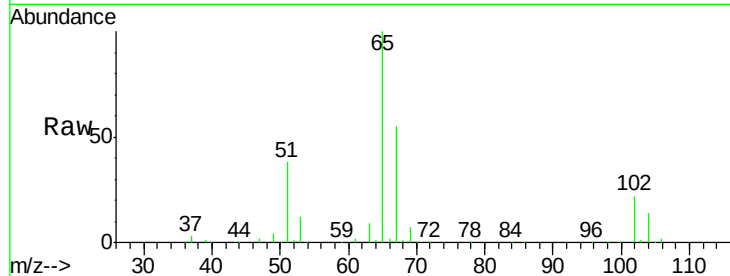




#33
 1,2-Dichloroethane-d4
 Concen: 0.692 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053476.D
 Acq: 18 Jan 2019 17:04

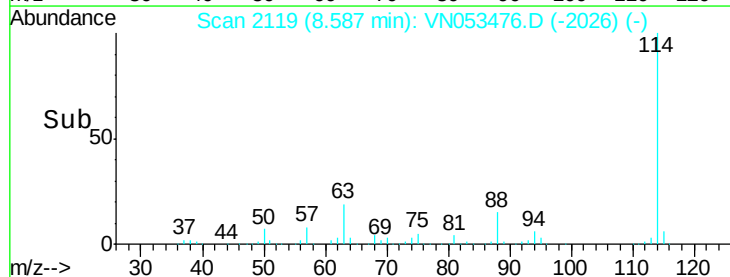
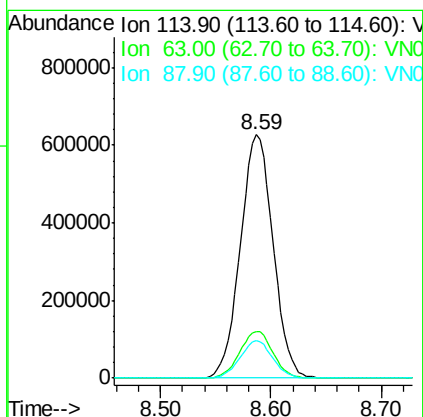
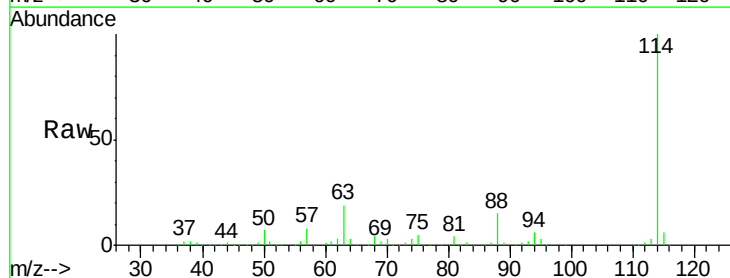
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW521-4246

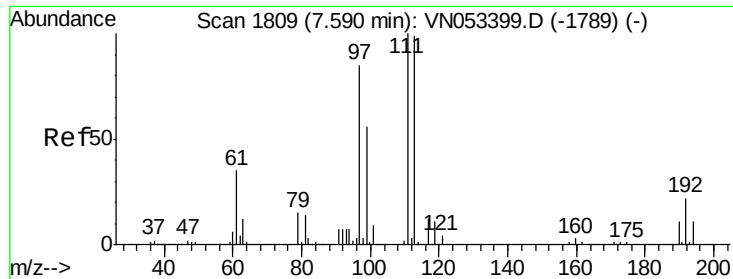
Tot Ion: 65 Resp: 421824
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053476.D
 Acq: 18 Jan 2019 17:04

Tgt Ion: 114 Resp: 1287189
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 15.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

SA-TW521-4246

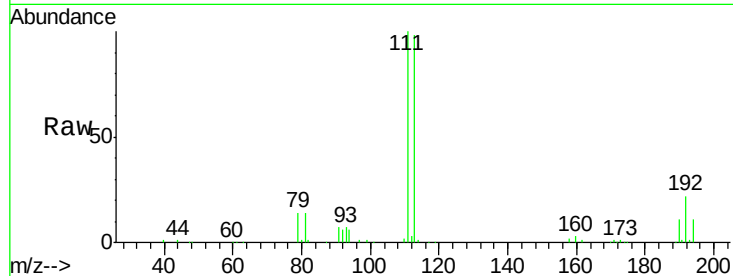
Tot Ion:113 Resp: 384524

Ion Ratio Lower Upper

113 100

111 103.0 81.1 121.7

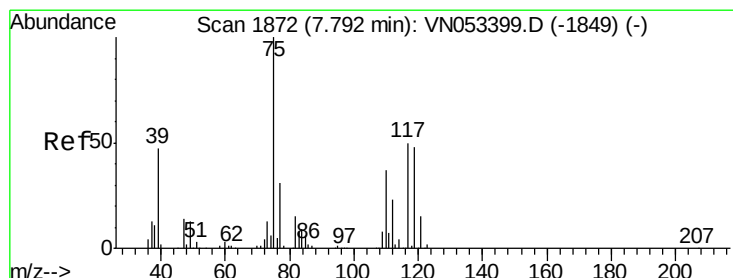
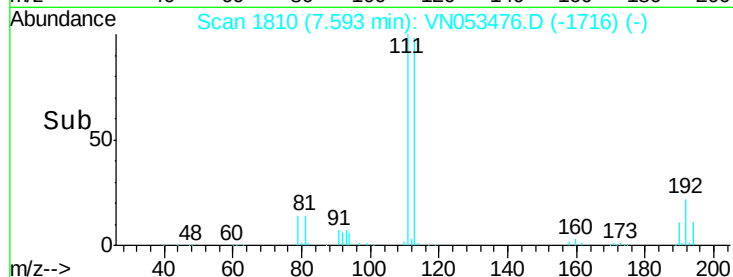
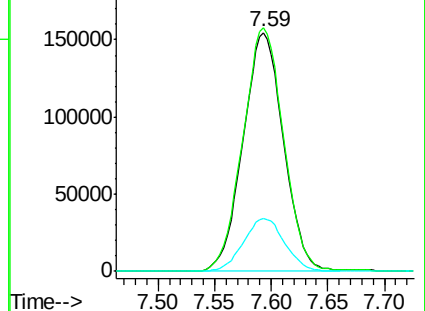
192 22.7 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.429 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

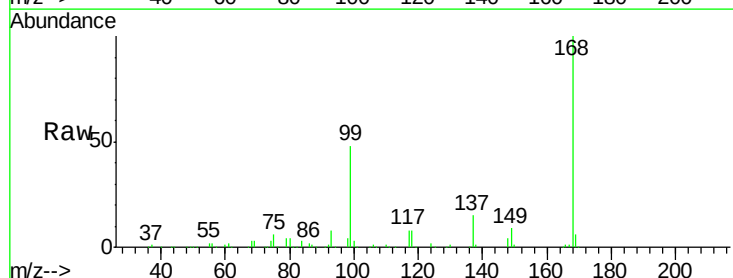
Tgt Ion: 75 Resp: 51918

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.3#

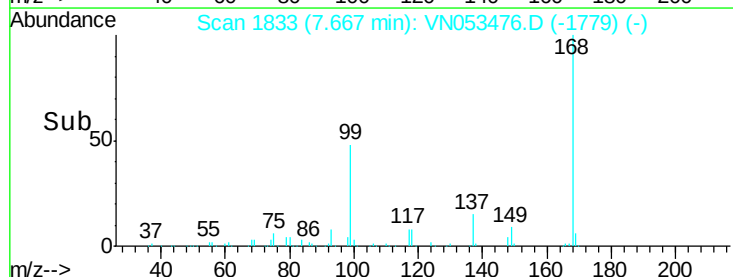
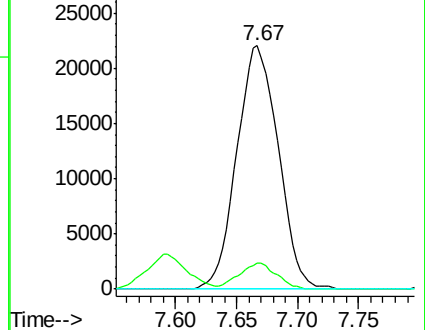
77 0.0 25.1 37.7#

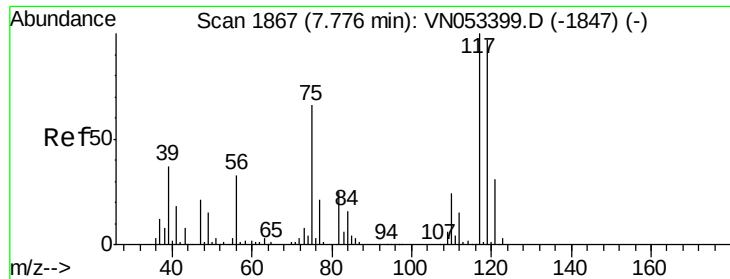


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.408 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

SA-TW521-4246

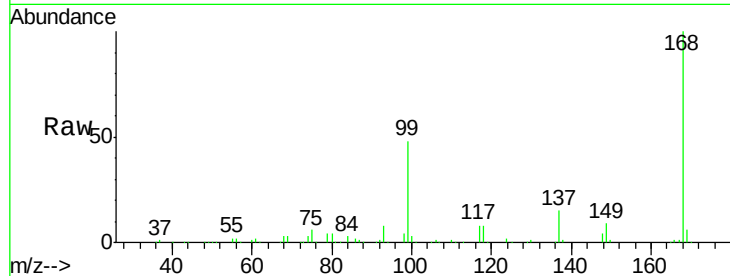
Tot Ion:117 Resp: 71121

Ion Ratio Lower Upper

117 100

119 5.4 77.2 115.8#

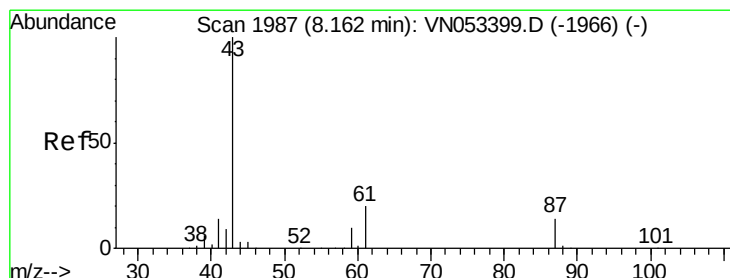
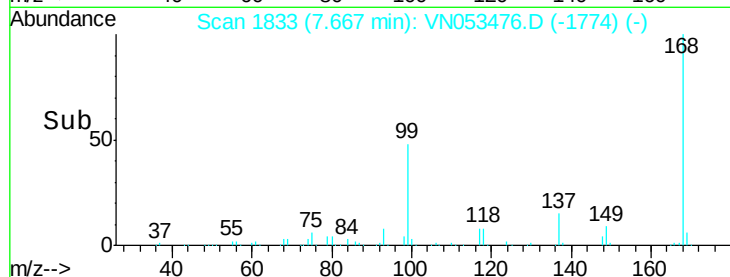
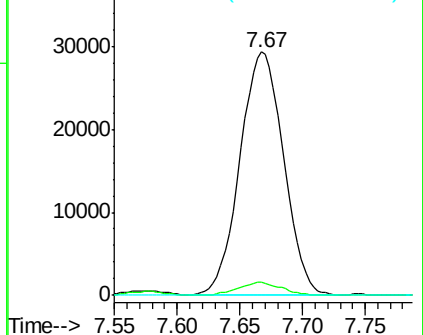
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 1.290 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.05 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

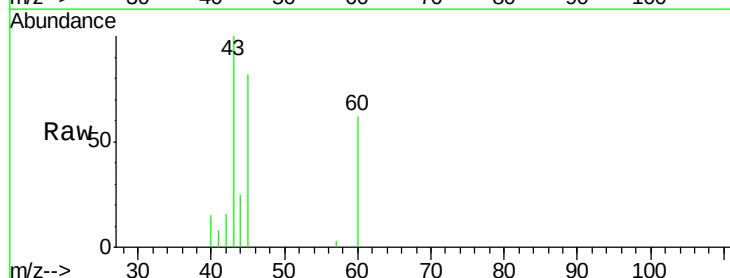
Tgt Ion: 43 Resp: 15642

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

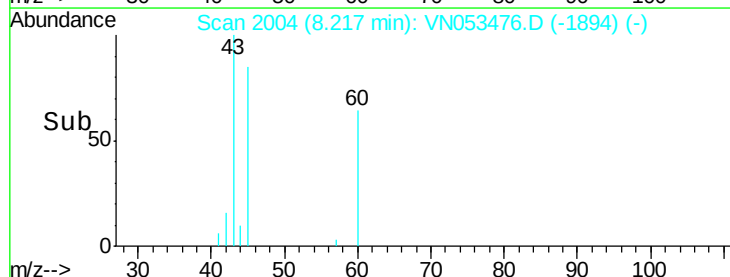
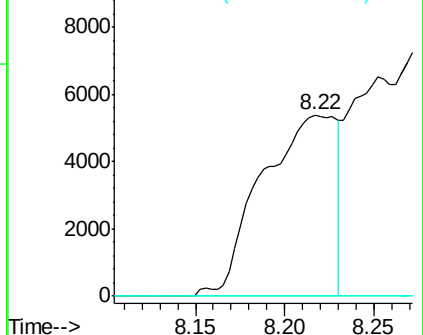
87 0.0 11.0 16.6#

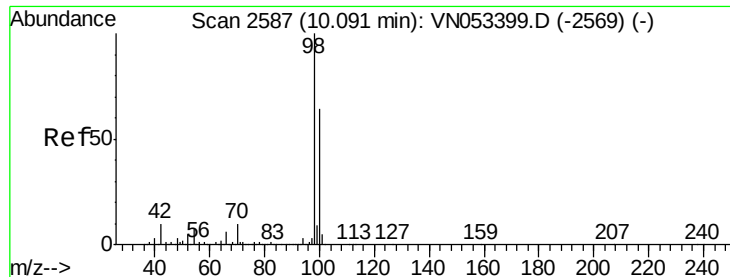


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

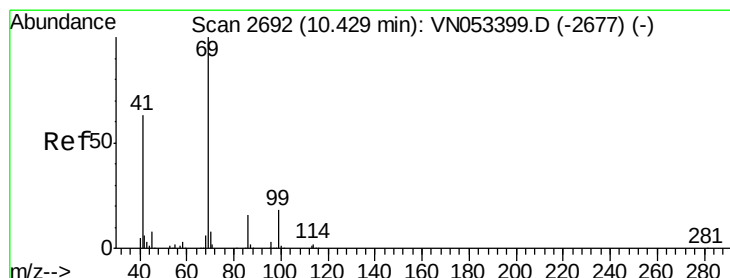
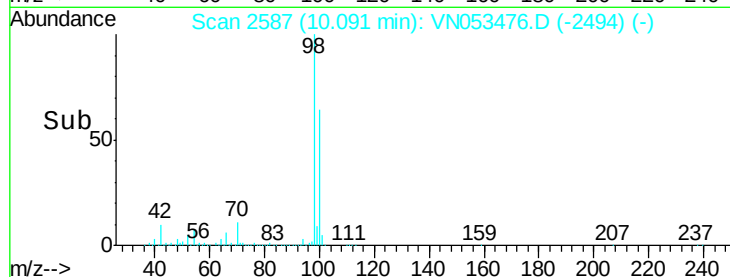
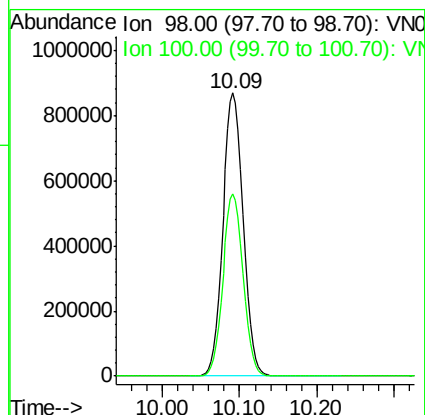
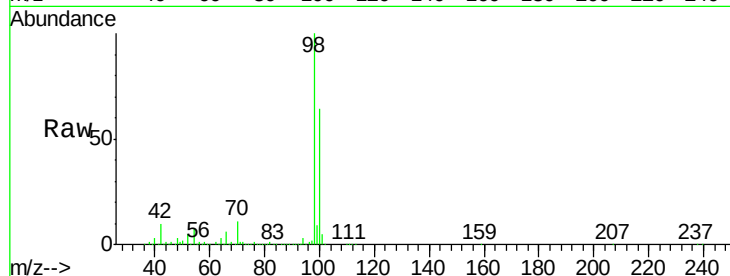
SA-TW521-4246

Tot Ion: 98 Resp: 1590124

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.0



#56

Ethyl methacrylate

Concen: 2.060 ug/l

RT: 10.14 min Scan# 2601

Delta R.T. -0.29 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

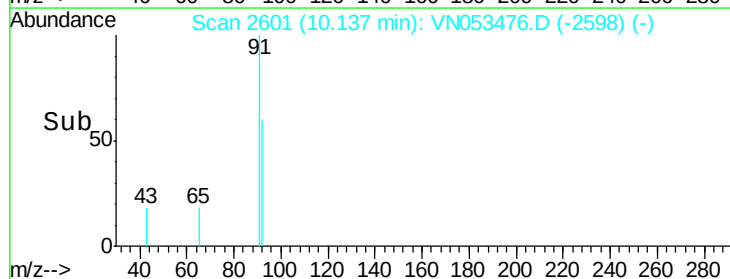
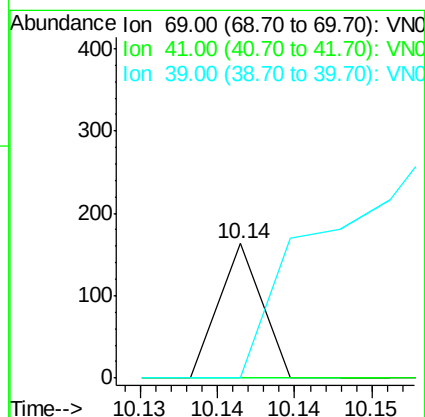
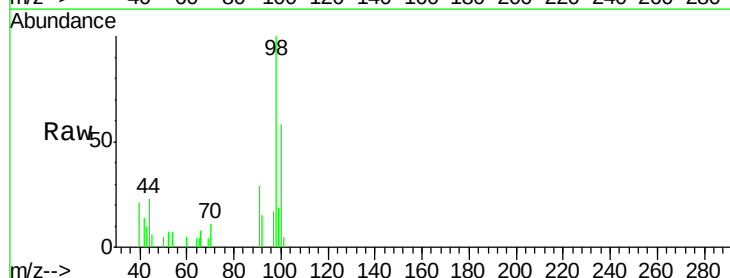
Tgt Ion: 69 Resp: 31

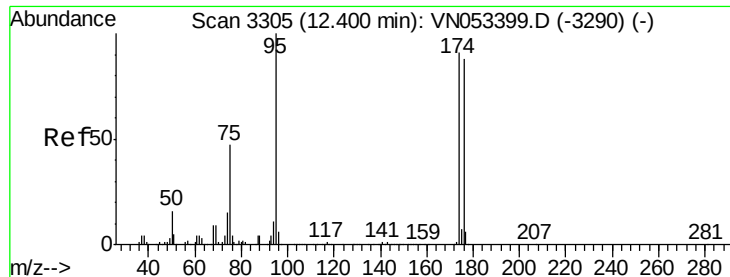
Ion Ratio Lower Upper

69 100

41 0.0 49.4 74.0#

39 0.0 23.3 34.9#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

SA-TW521-4246

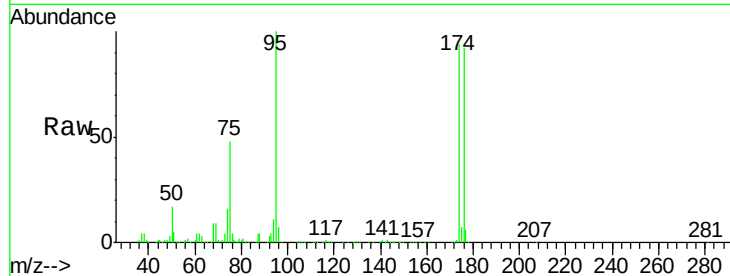
Tot Ion: 95 Resp: 553719

Ion Ratio Lower Upper

95 100

174 92.9 0.0 183.2

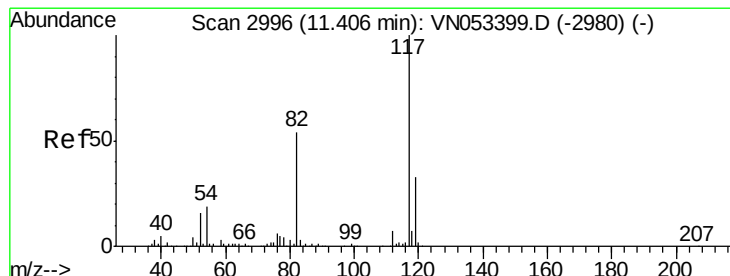
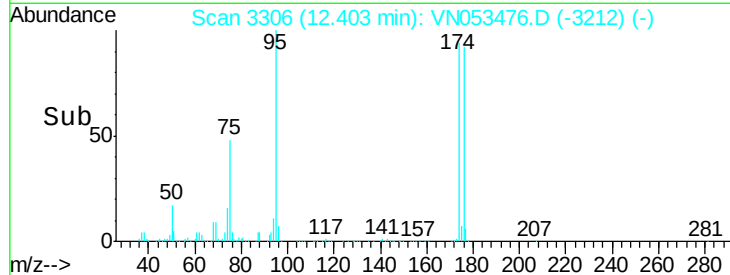
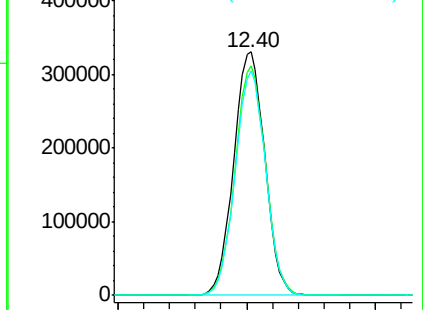
176 90.2 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

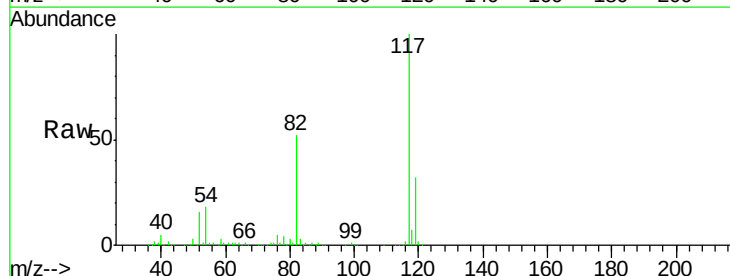
Tgt Ion: 117 Resp: 1223549

Ion Ratio Lower Upper

117 100

82 52.5 42.9 64.3

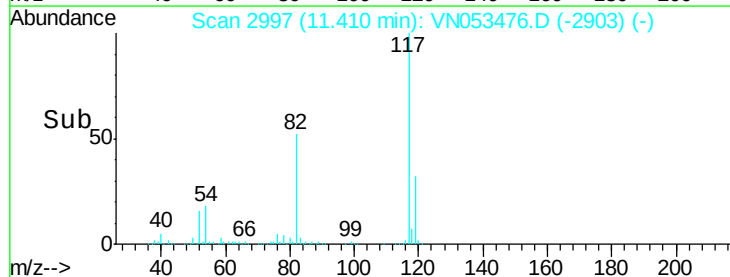
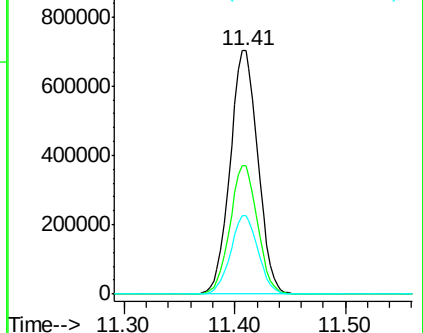
119 32.3 26.0 39.0

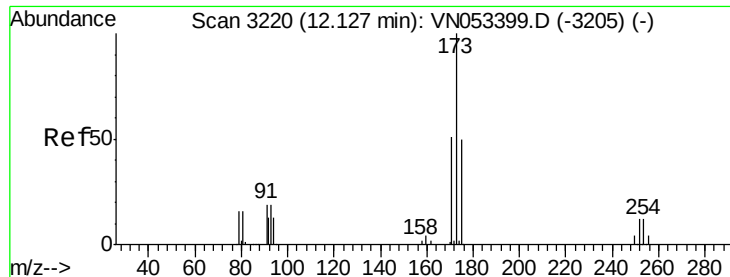


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.564 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

SA-TW521-4246

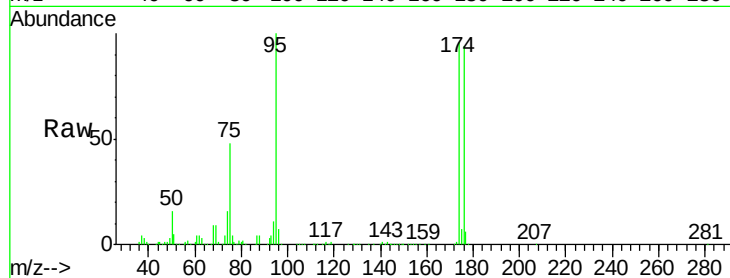
Tot Ion:173 Resp: 3501

Ion Ratio Lower Upper

173 100

175 925.6 24.6 74.0#

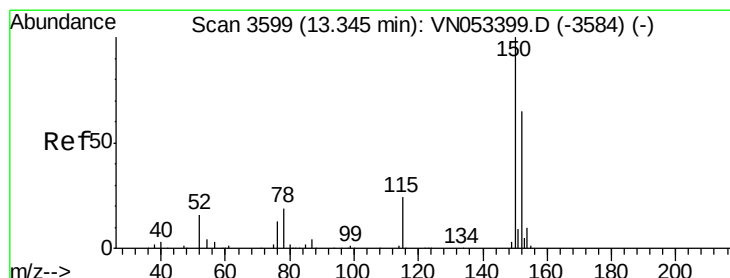
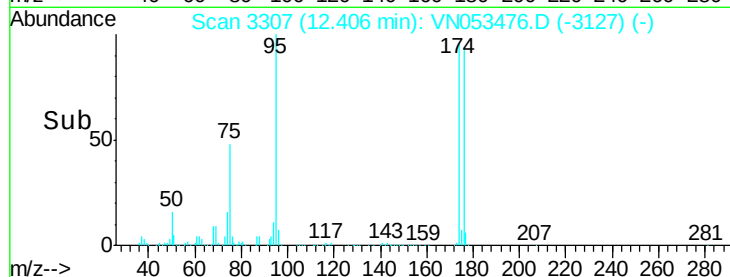
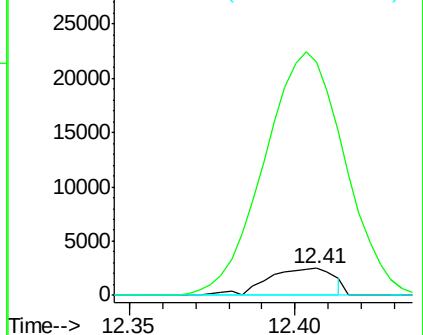
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

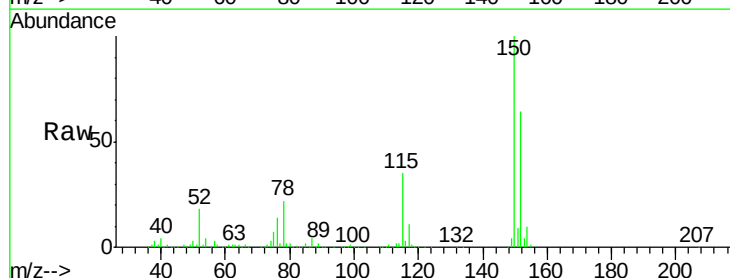
Tgt Ion:152 Resp: 542013

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

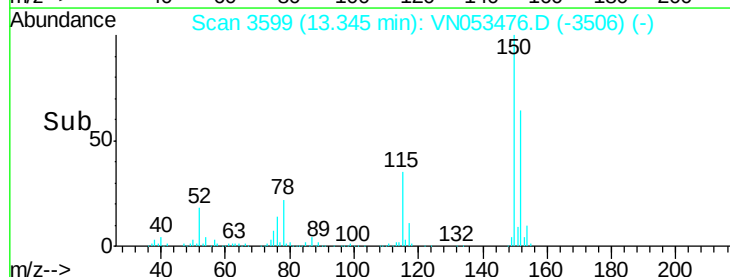
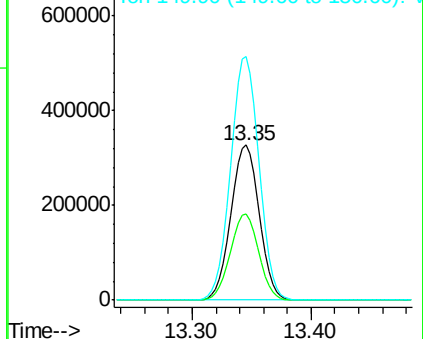
150 156.8 0.0 349.0

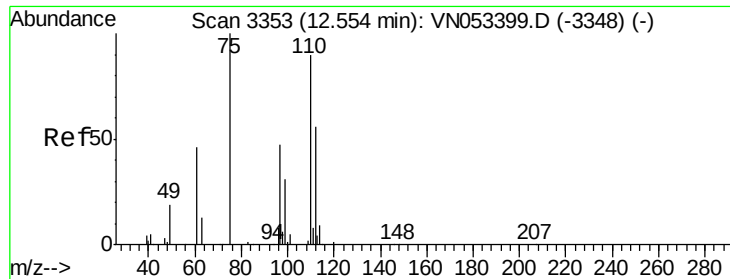


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.523 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

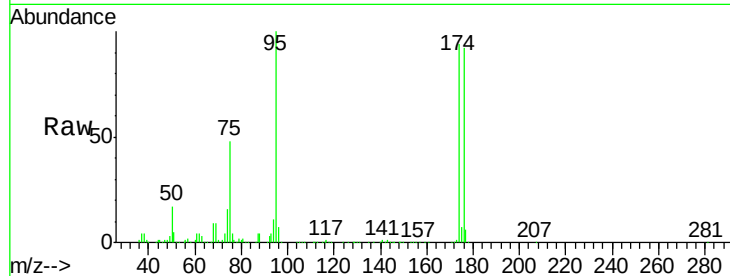
SA-TW521-4246

Tot Ion: 75 Resp: 260874

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

150000

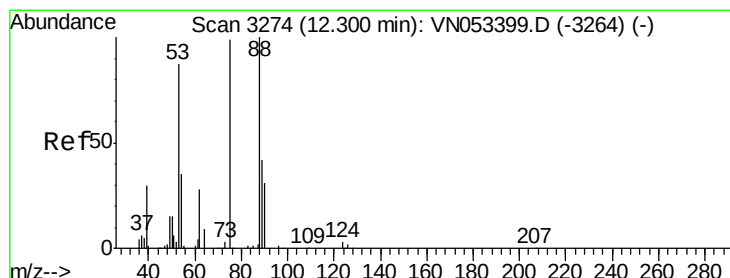
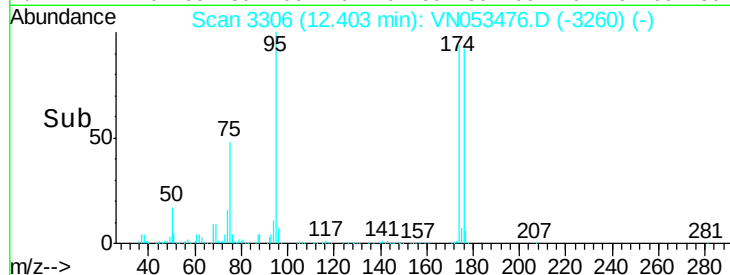
100000

50000

0

Time-->

12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 90.281 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

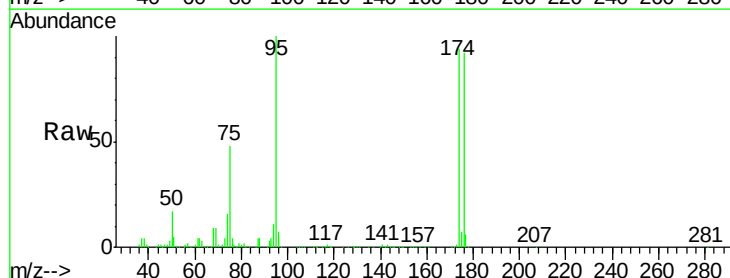
Tgt Ion: 75 Resp: 260874

Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

200000

150000

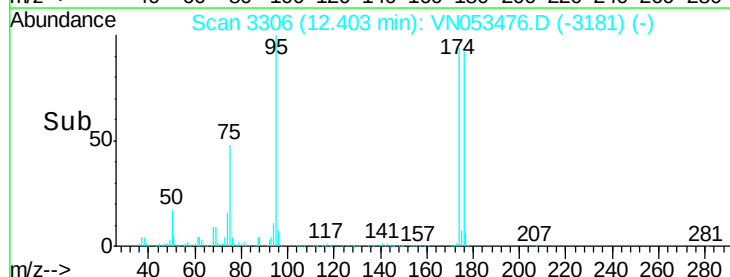
100000

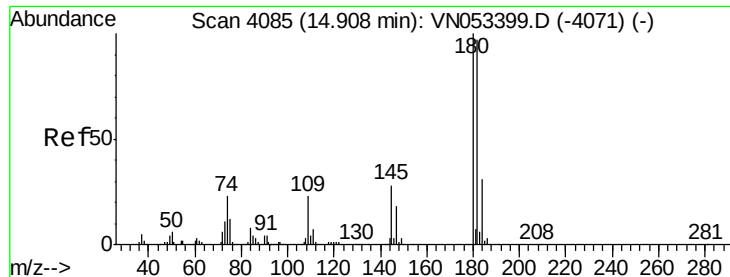
50000

0

Time-->

12.35 12.40 12.45





#93

1,2,4-Trichlorobenzene

Concen: 2.774 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

Instrument :

MSVOA_N

ClientSampled :

SA-TW521-4246

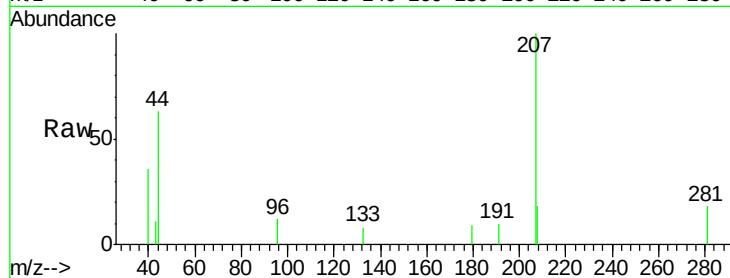
Tot Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

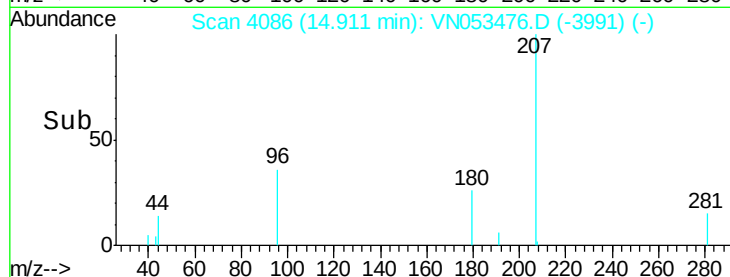
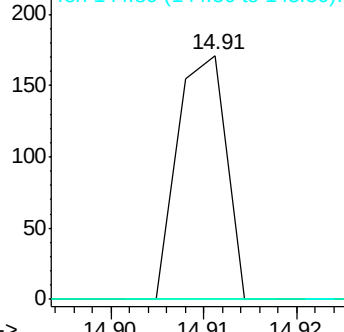
145 0.0 13.9 41.6#



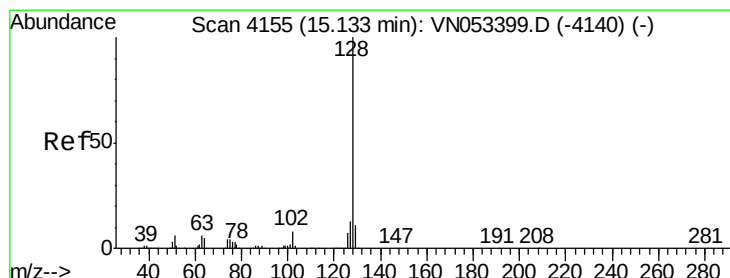
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#95

Naphthalene

Concen: 3.978 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053476.D

Acq: 18 Jan 2019 17:04

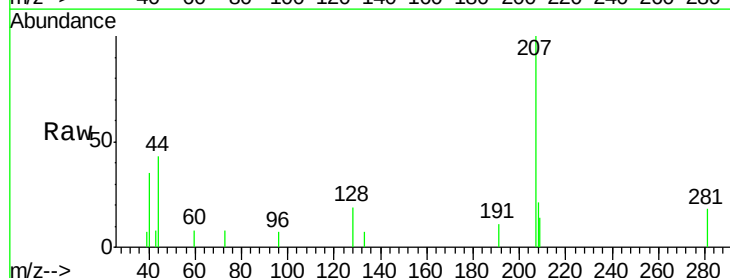
Tgt Ion:128 Resp: 552

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

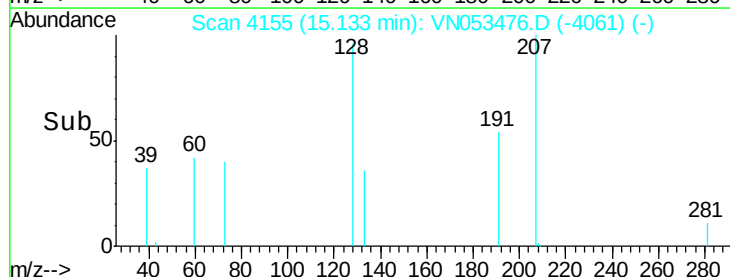
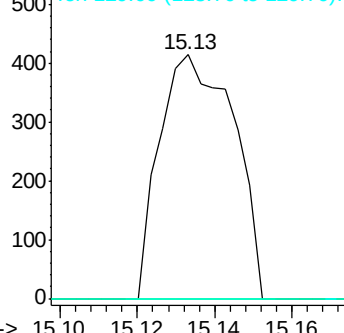
129 0.0 8.6 13.0#



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



Time-->