

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010719\
 Data File : VN053294.D
 Acq On : 7 Jan 2019 10:29
 Operator : MD\SY
 Sample : VN0107WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0107WBL01

Quant Time: Jan 08 01:21:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1064981	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1641067	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1489216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	596365	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	527635	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
35) Dibromofluoromethane	7.59	113	463067	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
50) Toluene-d8	10.09	98	2025873	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	12.40	95	665162	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	

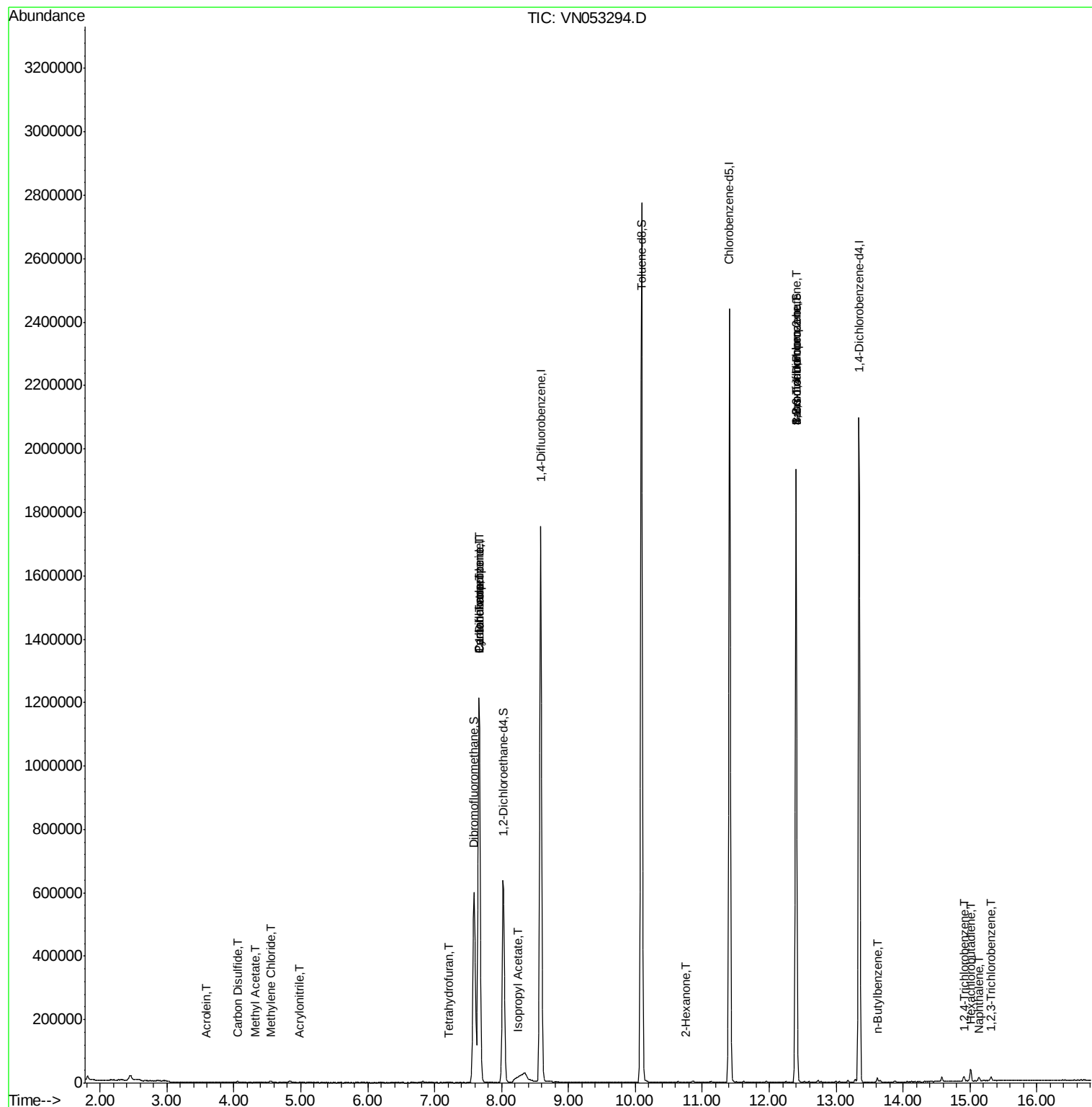
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	666	0.795	ug/l #	14
15) Acrylonitrile	4.99	53	804	0.202	ug/l #	69
16) Acetone	3.82	43	728	Below Cal	#	86
17) Carbon Disulfide	4.05	76	6518	0.213	ug/l	99
18) Methyl Acetate	4.32	43	2029	0.202	ug/l	93
20) Methylene Chloride	4.55	84	3326	0.279	ug/l #	74
29) Tetrahydrofuran	7.21	42	973	0.324	ug/l #	32
31) Cyclohexane	7.66	56	16280	0.669	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	69967	4.567	ug/l #	49
38) Carbon Tetrachloride	7.66	117	91426	6.465	ug/l #	16
43) Isopropyl Acetate	8.23	43	16982	0.865	ug/l #	52
59) 2-Hexanone	10.75	43	2508	0.371	ug/l	64
71) Bromoform	12.40	173	4094	0.512	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	310688	35.718	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	310688	105.089	ug/l #	14
89) n-Butylbenzene	13.61	91	7999	0.266	ug/l	98
93) 1,2,4-Trichlorobenzene	14.91	180	5632	0.916	ug/l	97
94) Hexachlorobutadiene	15.01	225	8934	1.777	ug/l	96
95) Naphthalene	15.13	128	10540	1.005	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	5428	1.349	ug/l	96

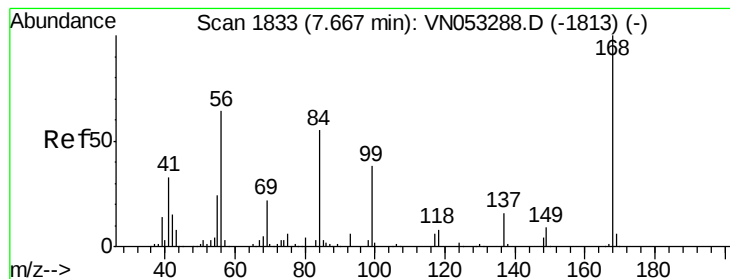
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jan 07 09:34:27 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

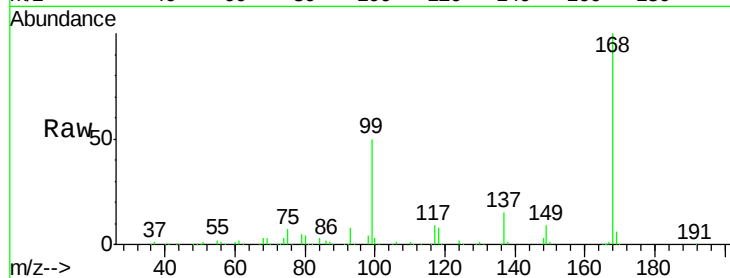
VN0107WBL01

Tot Ion:168 Resp: 1064981

Ion Ratio Lower Upper

168 100

99 49.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053288.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN053288.D (-1813) (-)

7.66

500000

400000

300000

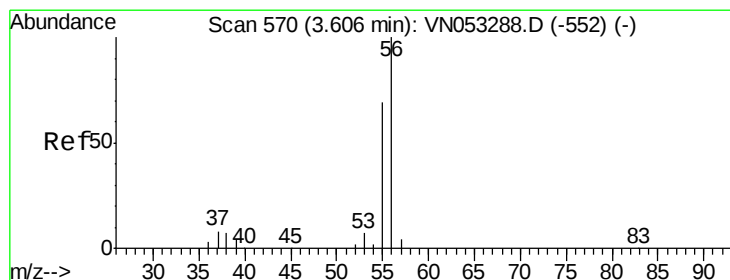
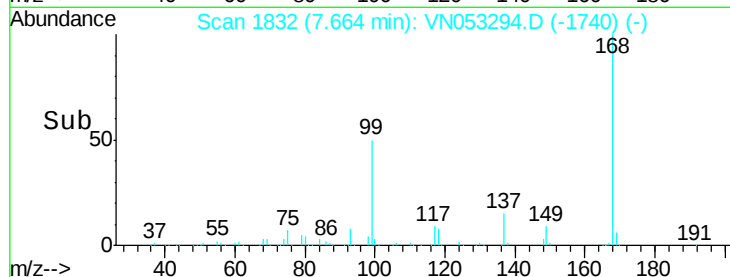
200000

100000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 0.795 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN053294.D

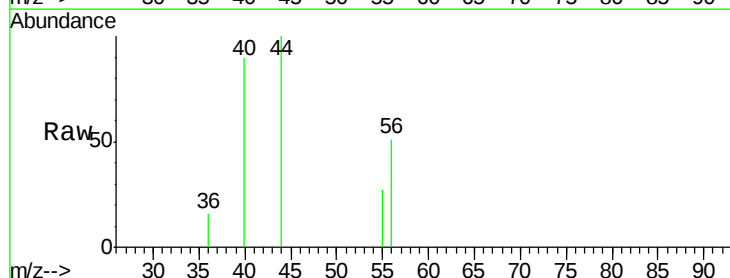
Acq: 7 Jan 2019 10:29

Tgt Ion: 56 Resp: 666

Ion Ratio Lower Upper

56 100

55 0.0 56.3 84.5#



Abundance Ion 56.00 (55.70 to 56.70): VN053288.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN053288.D (-552) (-)

3.60

600

500

400

300

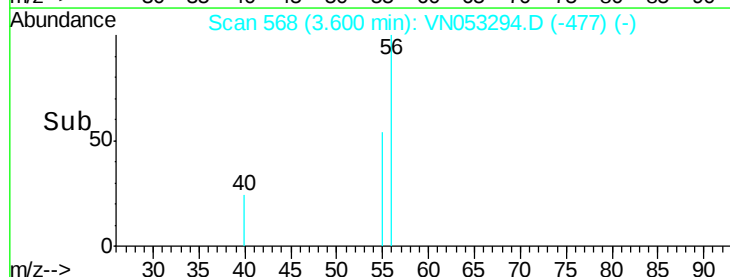
200

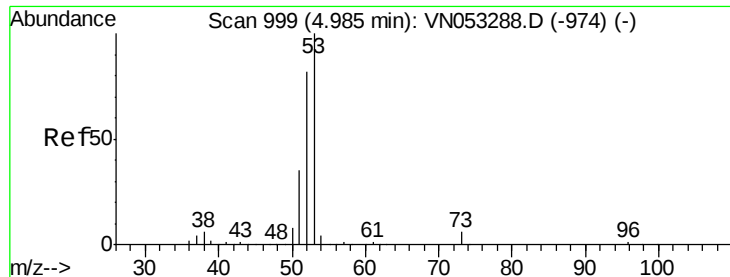
100

0

3.58 3.60 3.62

Time-->





#15

Acrylonitrile

Concen: 0.202 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

VN0107WBL01

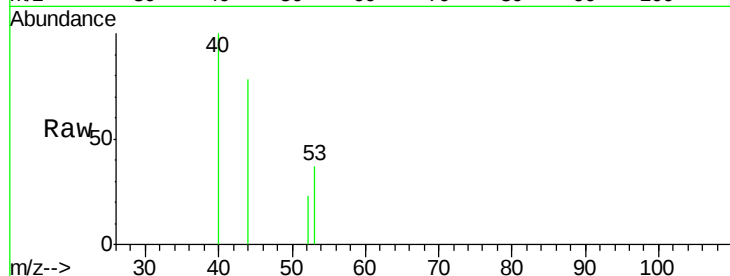
Tot Ion: 53 Resp: 804

Ion Ratio Lower Upper

53 100

52 62.9 65.2 97.8#

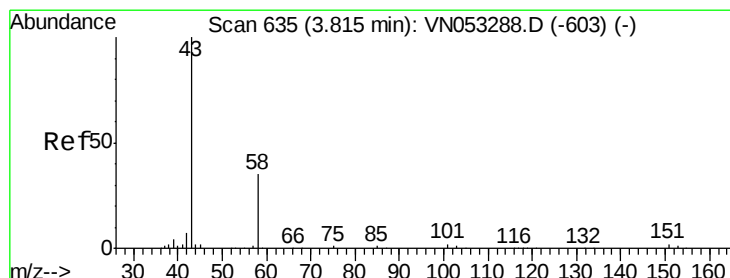
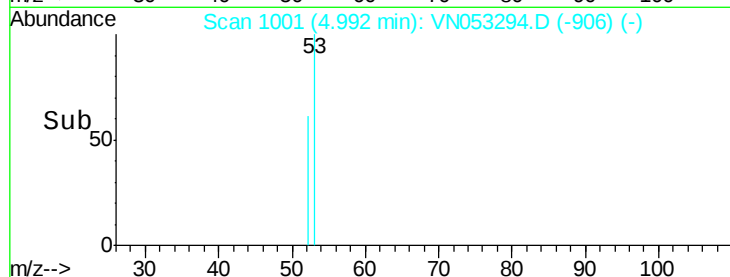
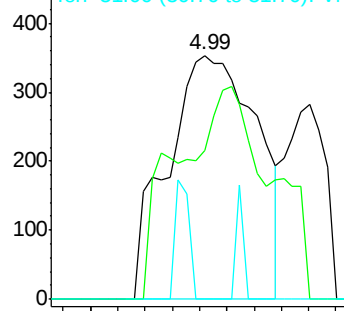
51 4.0 28.0 42.0#



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: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053294.D

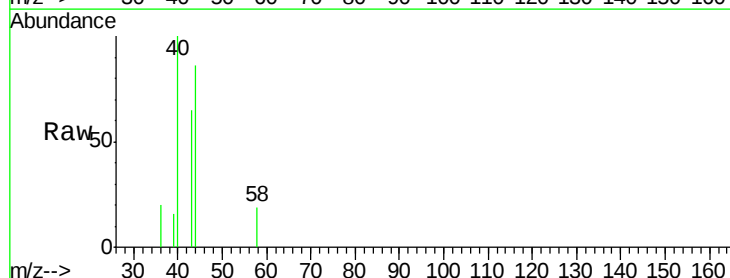
Acq: 7 Jan 2019 10:29

Tgt Ion: 43 Resp: 728

Ion Ratio Lower Upper

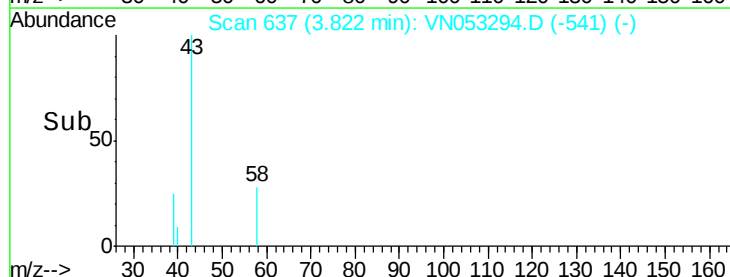
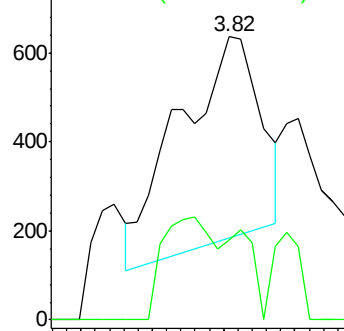
43 100

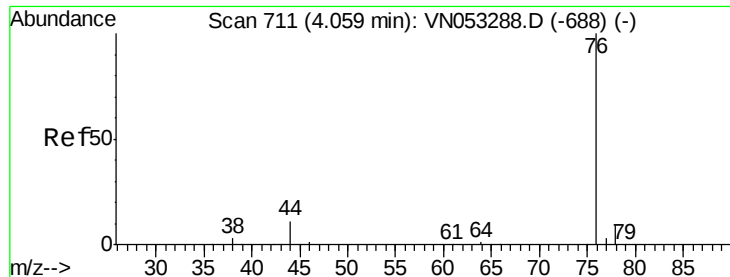
58 43.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.213 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.01 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

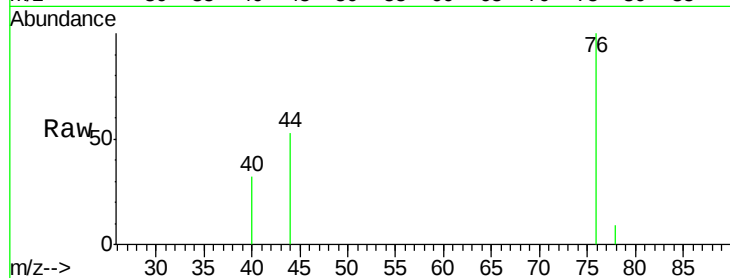
VN0107WBL01

Tot Ion: 76 Resp: 6518

Ion Ratio Lower Upper

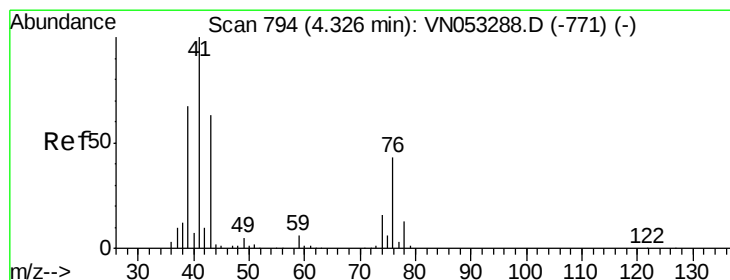
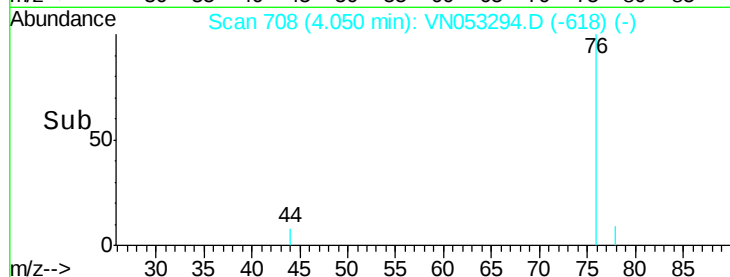
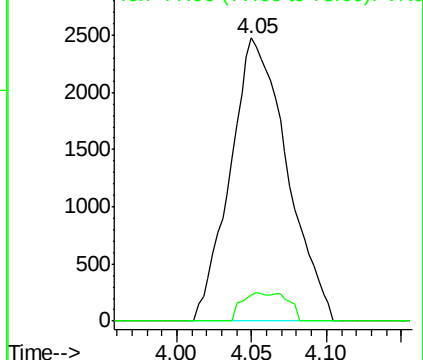
76 100

78 9.5 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.202 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053294.D

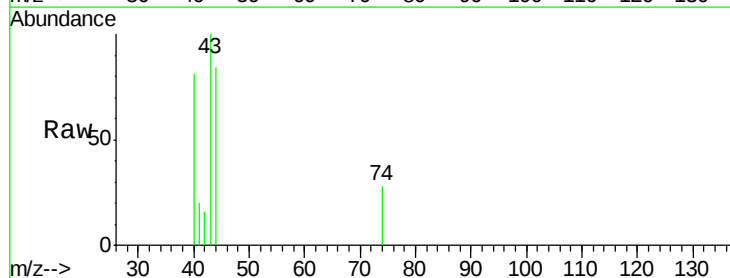
Acq: 7 Jan 2019 10:29

Tgt Ion: 43 Resp: 2029

Ion Ratio Lower Upper

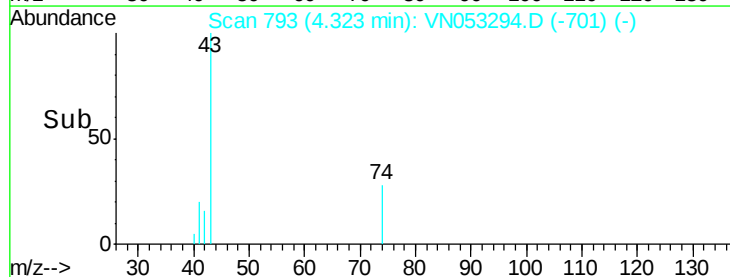
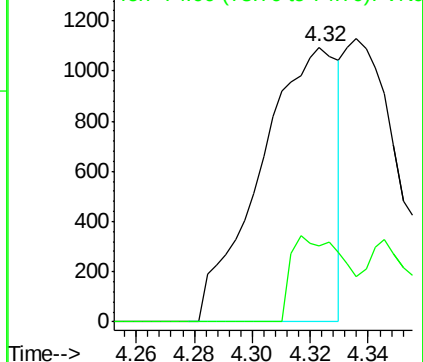
43 100

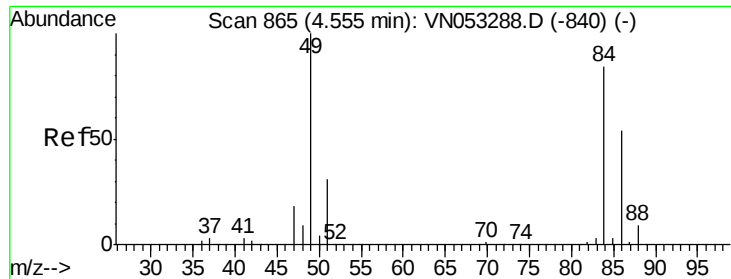
74 21.2 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

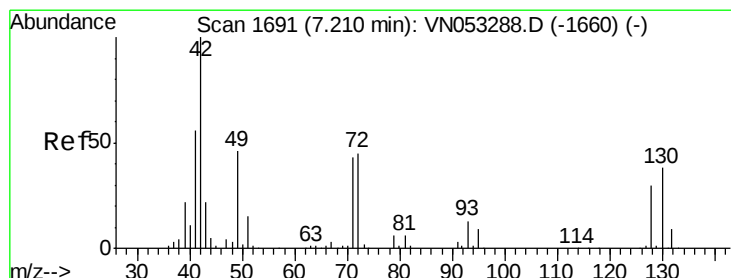
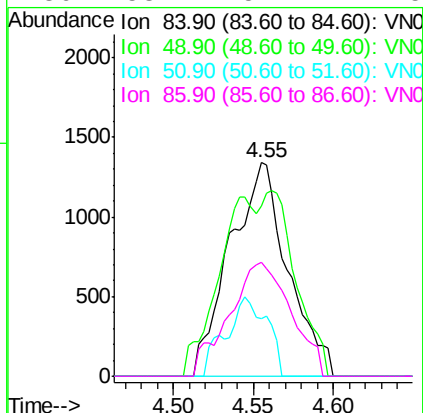
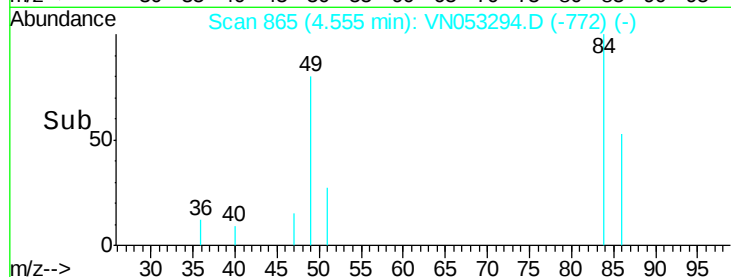
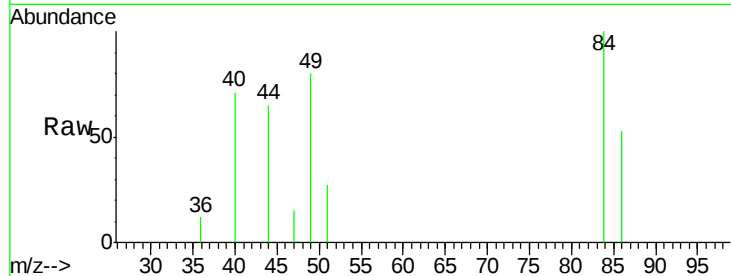




#20
Methvlene Chloride
Concen: 0.279 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053294.D
Acq: 7 Jan 2019 10:29

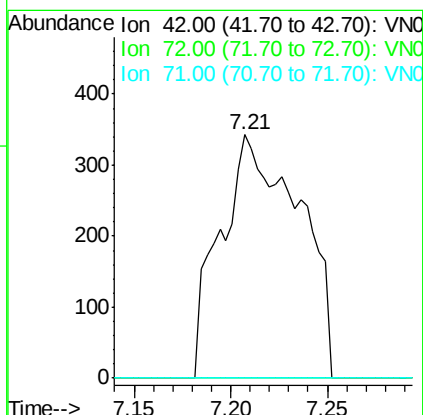
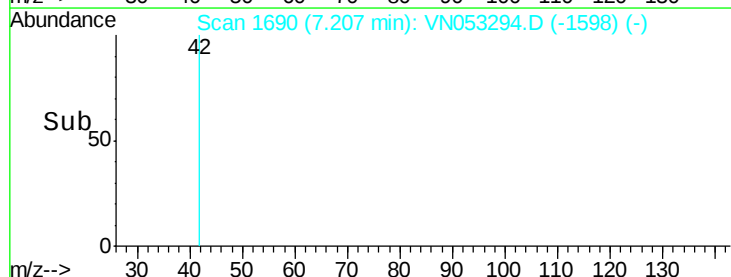
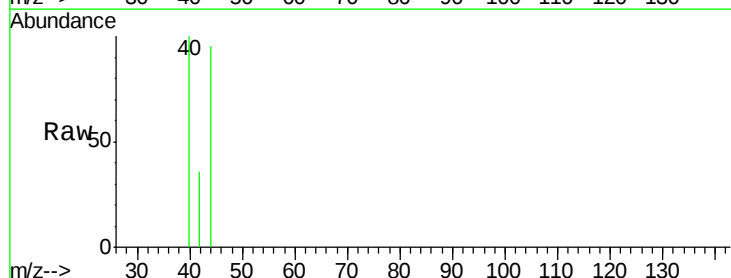
Instrument :
MSVOA_N
ClientSampleId :
VN0107WBL01

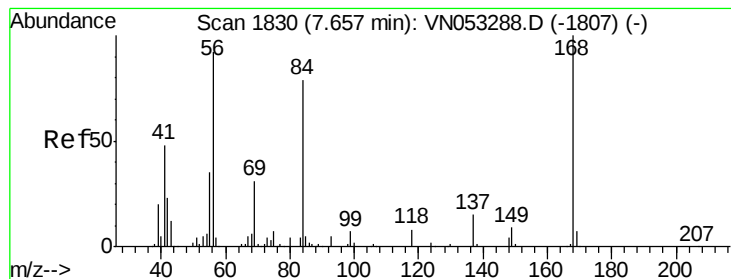
Tot Ion:	84	Resp:	3326
Ion	Ratio	Lower	Upper
84	100		
49	79.5	95.3	142.9#
51	27.3	29.0	43.6#
86	53.4	51.7	77.5



#29
Tetrahydrofuran
Concen: 0.324 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053294.D
Acq: 7 Jan 2019 10:29

Tgt Ion:	42	Resp:	973
Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.6	53.4#
71	0.0	33.8	50.8#





#31

Cyclohexane

Concen: 0.669 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0107WBL01

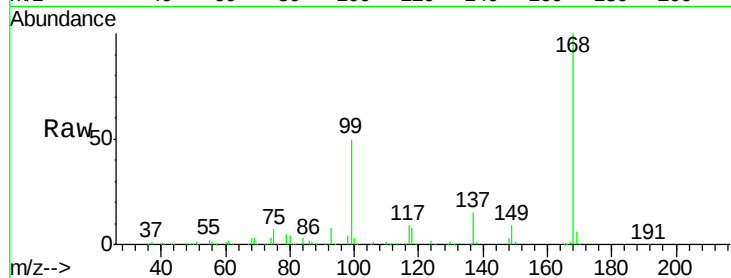
Tot Ion: 56 Resp: 16280

Ion Ratio Lower Upper

56 100

69 219.1 26.7 40.1#

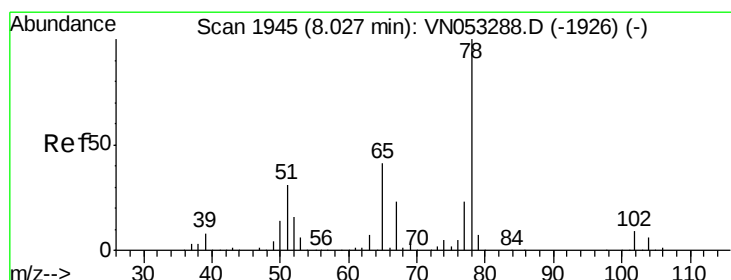
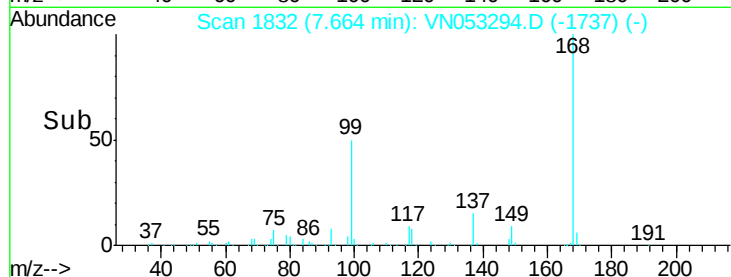
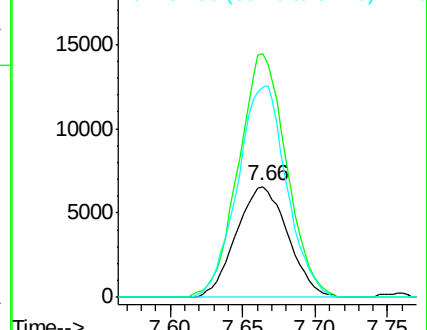
84 189.4 68.2 102.4#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN053294.D

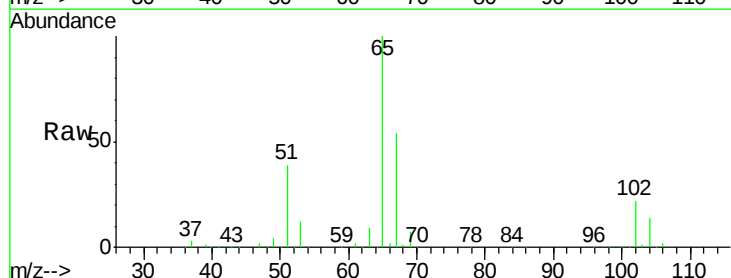
Acq: 7 Jan 2019 10:29

Tgt Ion: 65 Resp: 527635

Ion Ratio Lower Upper

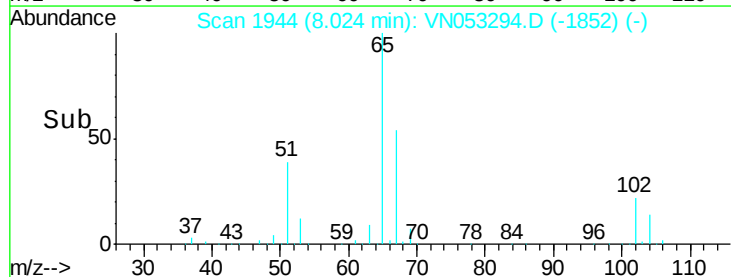
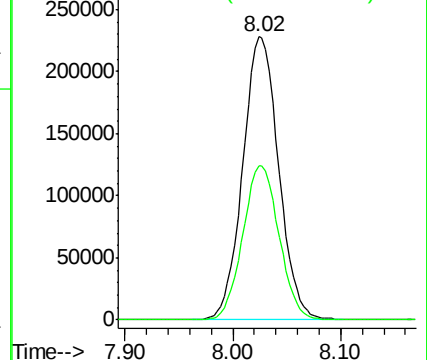
65 100

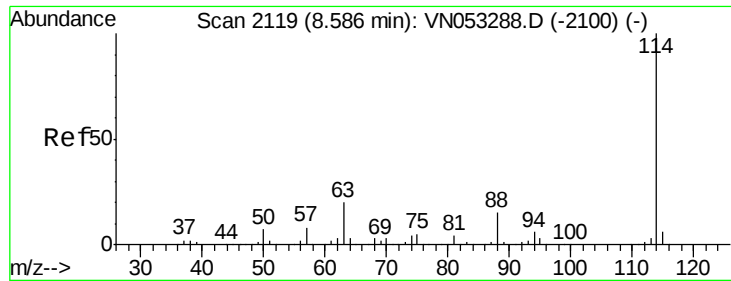
67 55.2 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

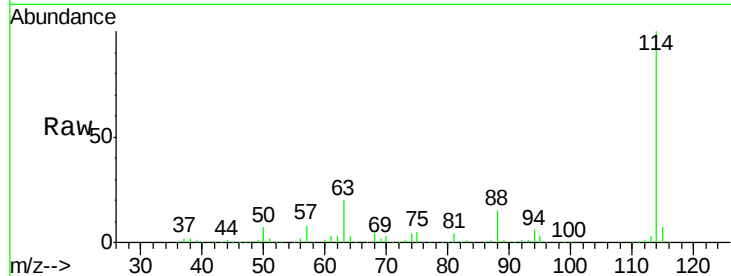




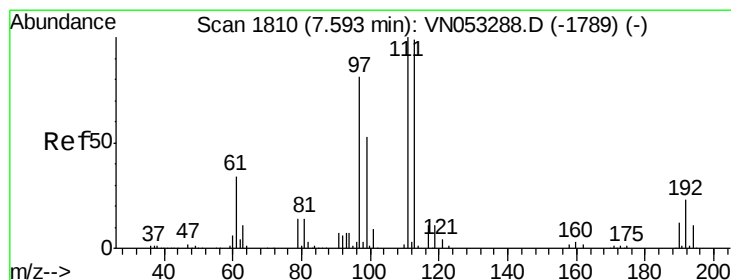
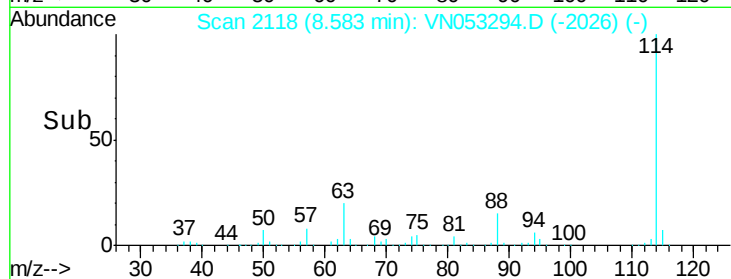
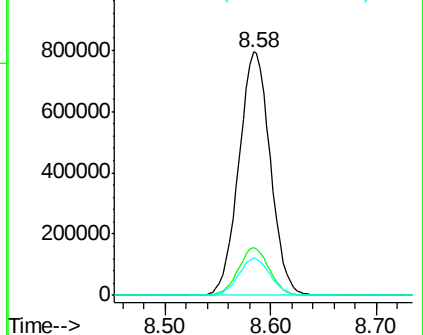
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053294.D
 Acq: 7 Jan 2019 10:29

Instrument :
 MSVOA_N
 ClientSampled :
 VN0107WBL01

Tot Ion:114 Resp: 1641067
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.3 0.0 30.8

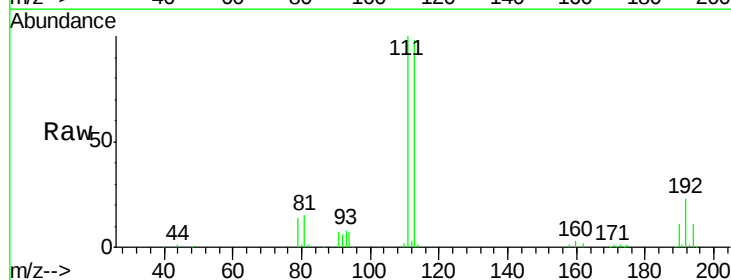


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

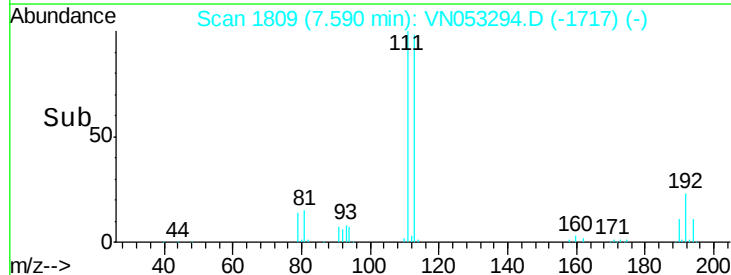
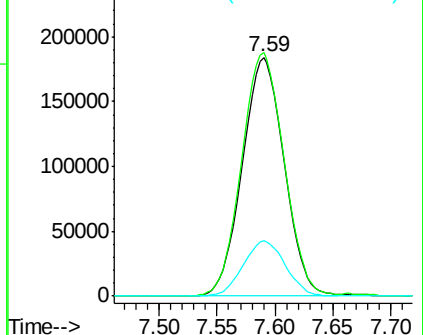


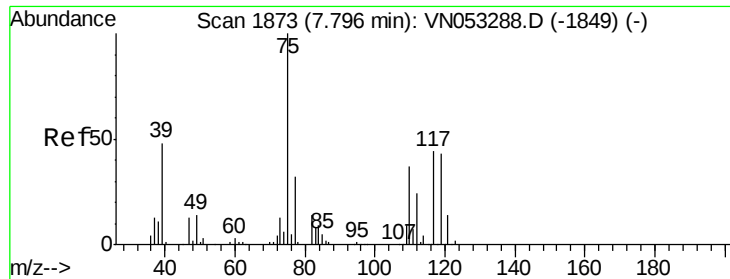
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053294.D
 Acq: 7 Jan 2019 10:29

Tgt Ion:113 Resp: 463067
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.4 122.2
 192 23.3 17.9 26.9



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: 4.567 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0107WBL01

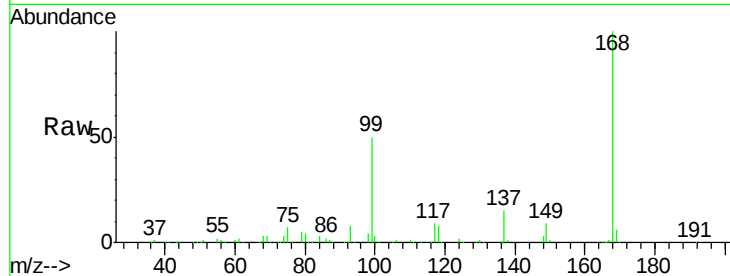
Tot Ion: 75 Resp: 69967

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.0#

77 0.0 25.3 37.9#



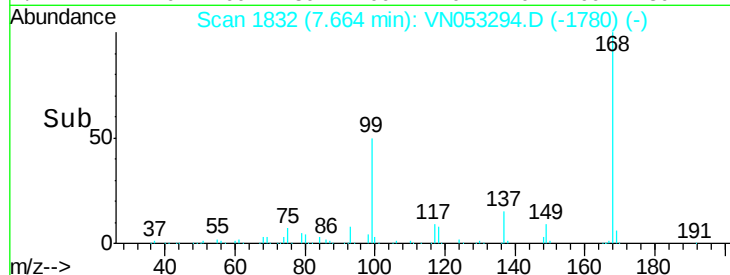
Abundance Ion 74.90 (74.60 to 75.60): VN053288.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053288.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053288.D (-1849) (-)

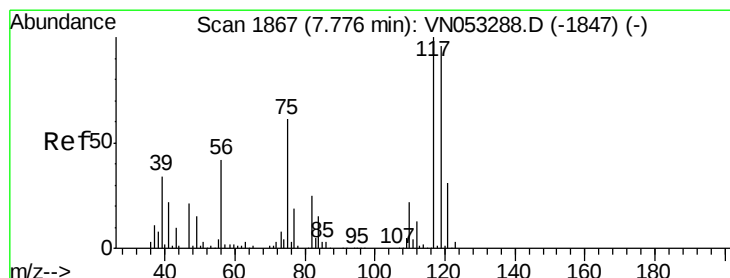
Time-->

7.55 7.60 7.65 7.70 7.75



Time-->

7.55 7.60 7.65 7.70 7.75



#38

Carbon Tetrachloride

Concen: 6.465 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

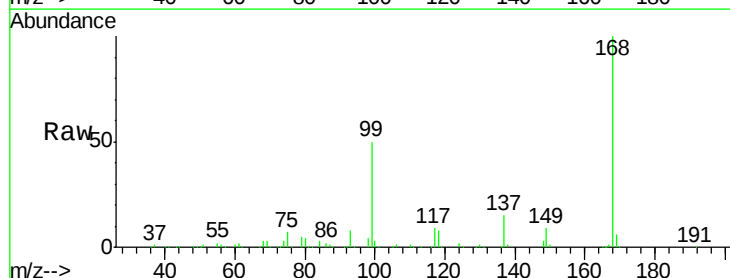
Tgt Ion: 117 Resp: 91426

Ion Ratio Lower Upper

117 100

119 5.3 76.6 115.0#

121 0.0 25.0 37.4#



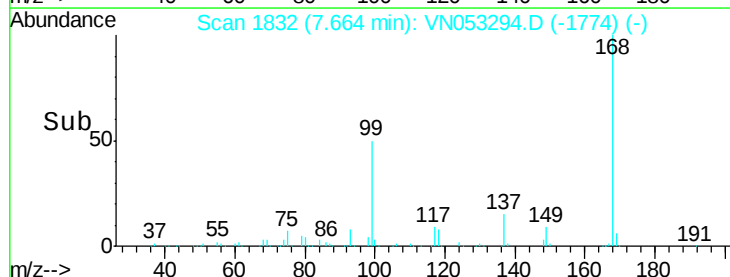
Abundance Ion 116.80 (116.50 to 117.50): VN053288.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN053288.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN053288.D (-1847) (-)

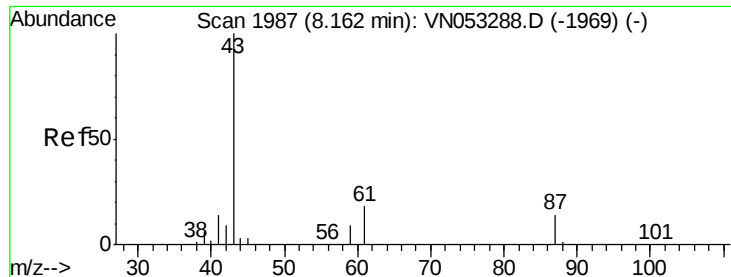
Time-->

7.55 7.60 7.65 7.70 7.75



Time-->

7.55 7.60 7.65 7.70 7.75



#43

Isopropyl Acetate

Concen: 0.865 ug/l

RT: 8.23 min Scan# 2008

Delta R.T. 0.07 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

VN0107WBL01

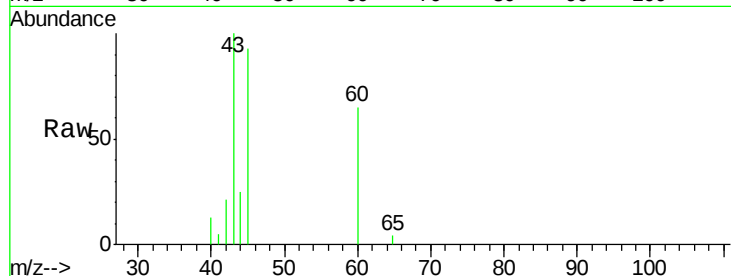
Tot Ion: 43 Resp: 16982

Ion Ratio Lower Upper

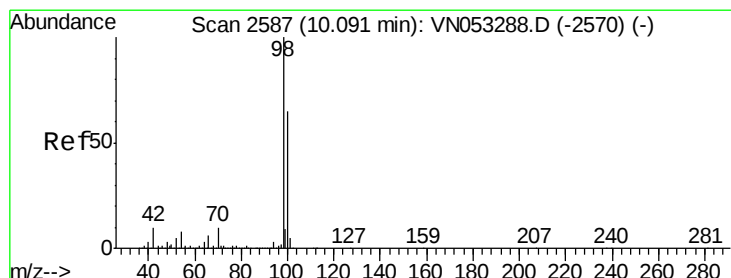
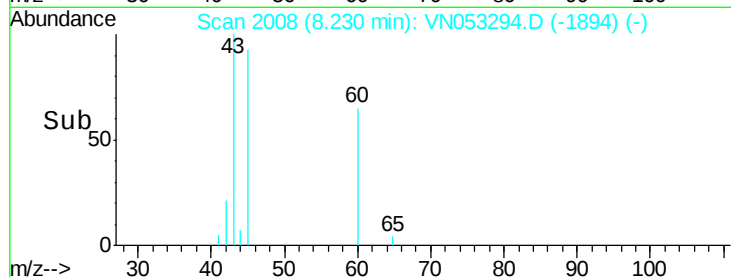
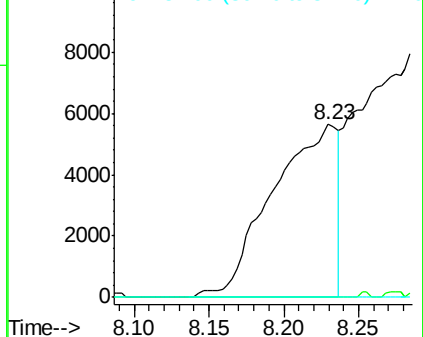
43 100

61 0.0 23.3 34.9#

87 0.0 10.8 16.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053294.D

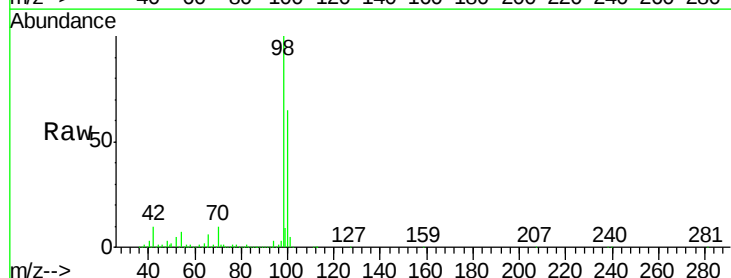
Acq: 7 Jan 2019 10:29

Tgt Ion: 98 Resp: 2025873

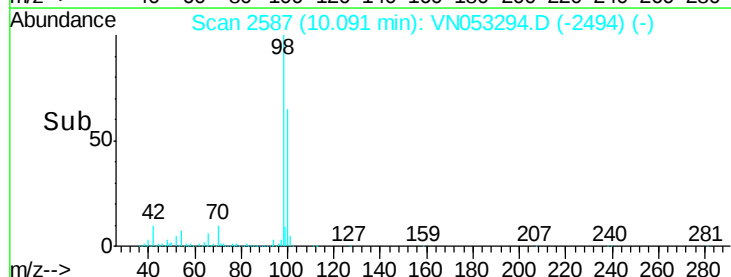
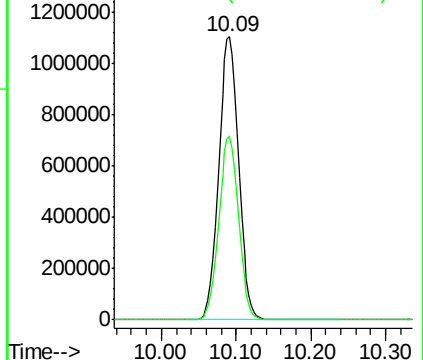
Ion Ratio Lower Upper

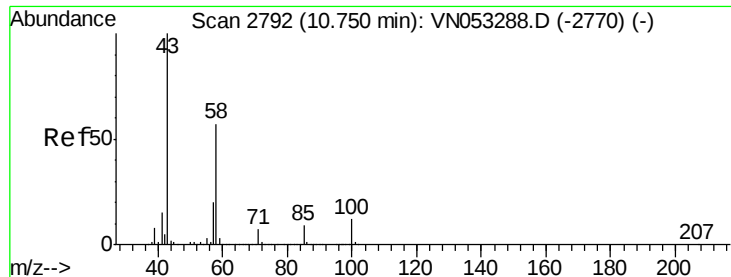
98 100

100 64.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

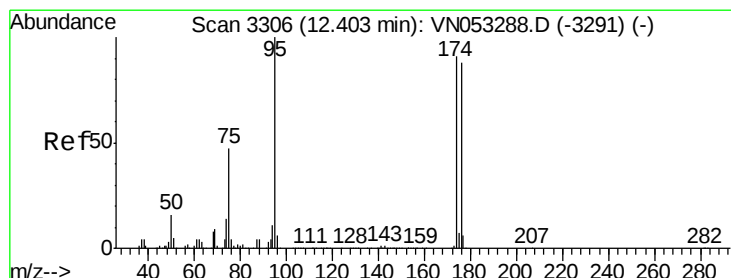
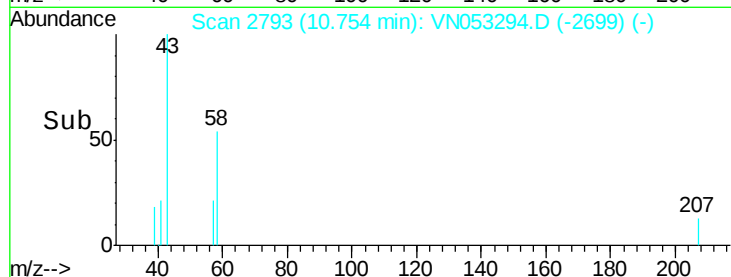
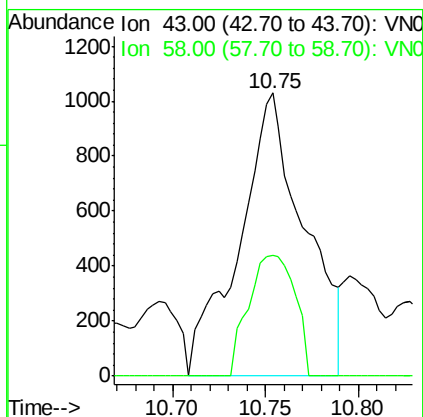
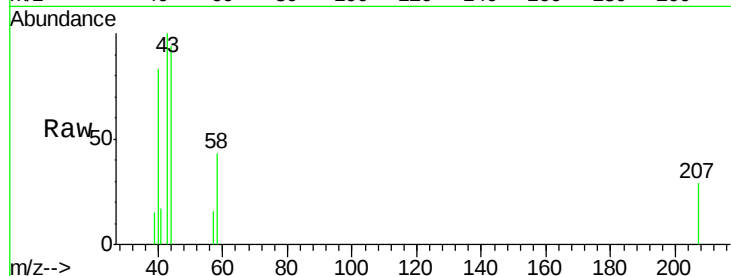




#59
2-Hexanone
Concen: 0.371 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053294.D
Acq: 7 Jan 2019 10:29

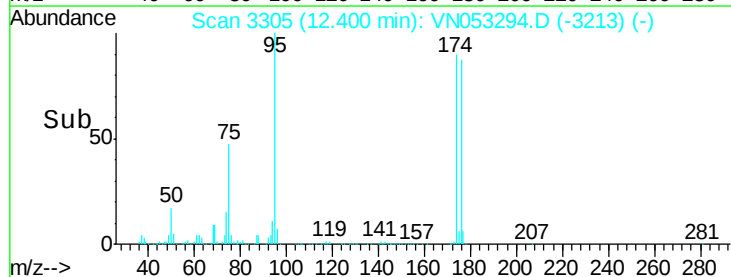
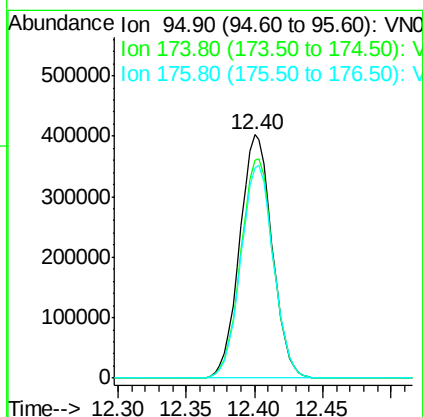
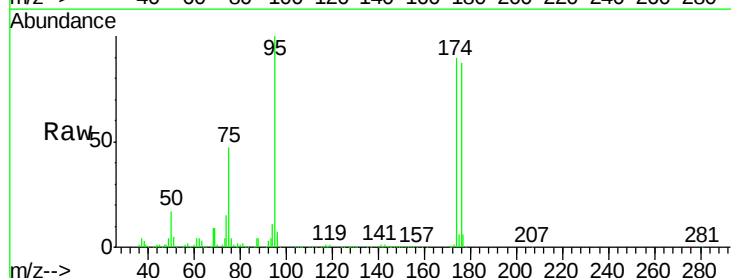
Instrument :
MSVOA_N
ClientSampled :
VN0107WBL01

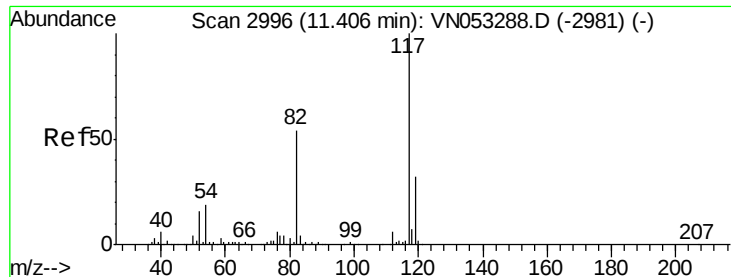
Tot Ion: 43 Resp: 2508
Ion Ratio Lower Upper
43 100
58 30.3 28.3 85.0



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053294.D
Acq: 7 Jan 2019 10:29

Tgt Ion: 95 Resp: 665162
Ion Ratio Lower Upper
95 100
174 90.5 0.0 180.4
176 87.9 0.0 175.6

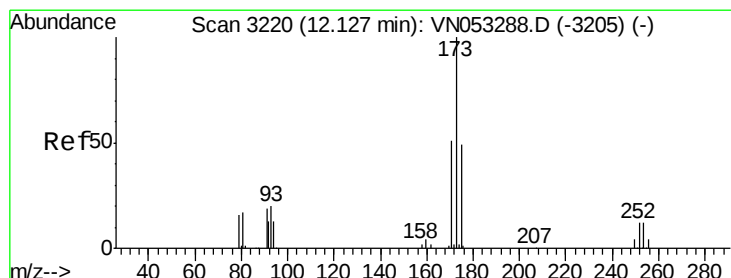
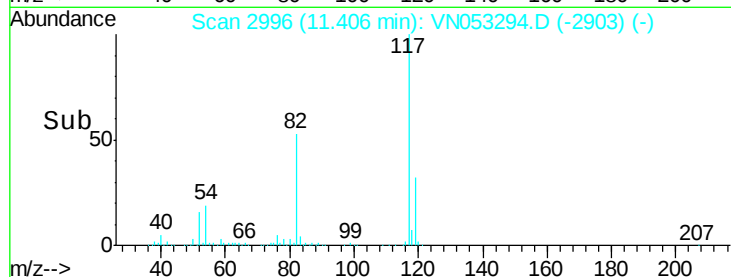
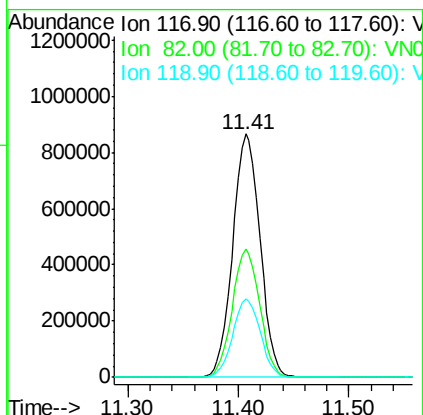
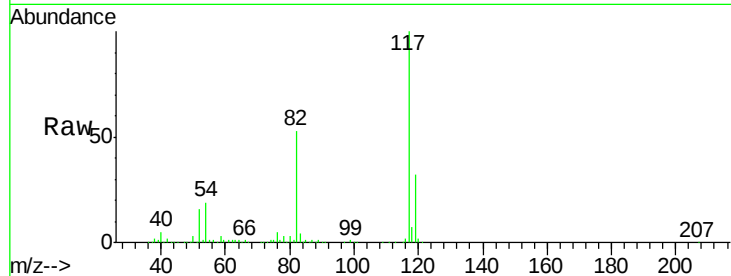




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053294.D
Acq: 7 Jan 2019 10:29

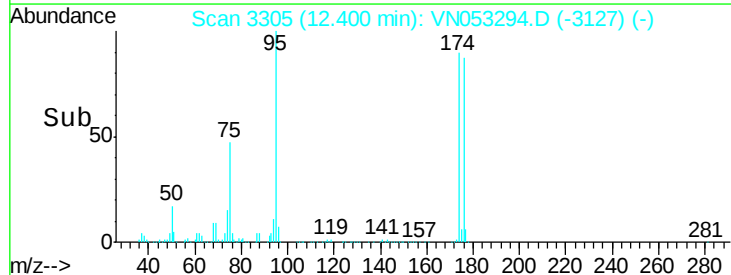
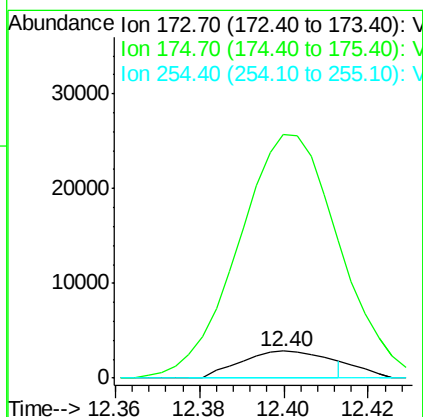
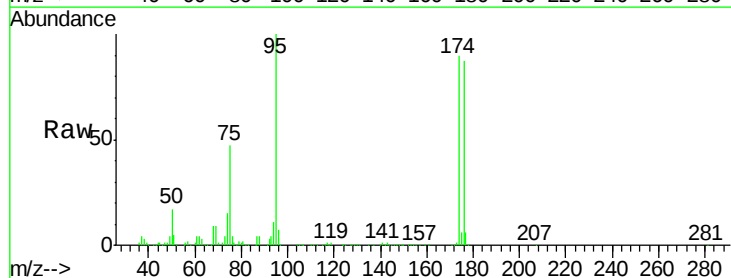
Instrument :
MSVOA_N
ClientSampleId :
VN0107WBL01

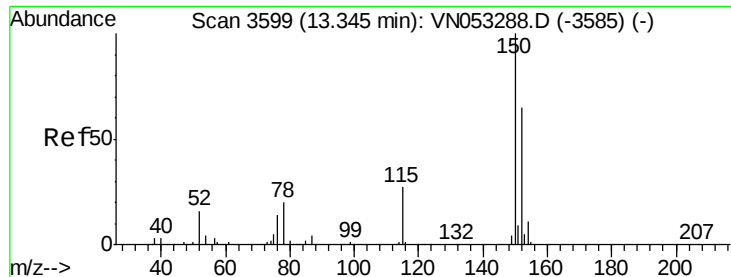
Tot Ion:117 Resp: 1489216
Ion Ratio Lower Upper
117 100
82 52.5 42.9 64.3
119 32.2 25.6 38.4



#71
Bromoform
Concen: 0.512 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053294.D
Acq: 7 Jan 2019 10:29

Tgt Ion:173 Resp: 4094
Ion Ratio Lower Upper
173 100
175 925.2 24.3 72.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0107WBL01

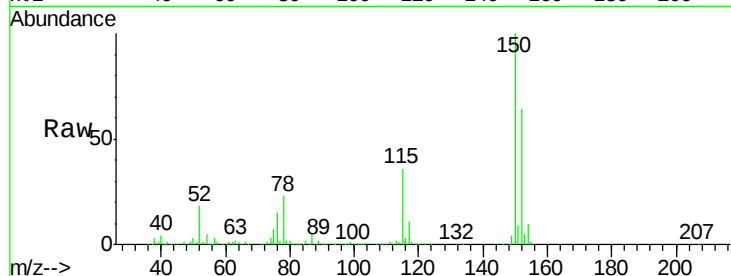
Tot Ion:152 Resp: 596365

Ion Ratio Lower Upper

152 100

115 56.7 28.0 84.0

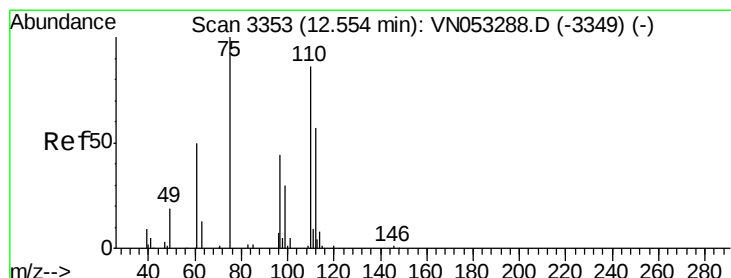
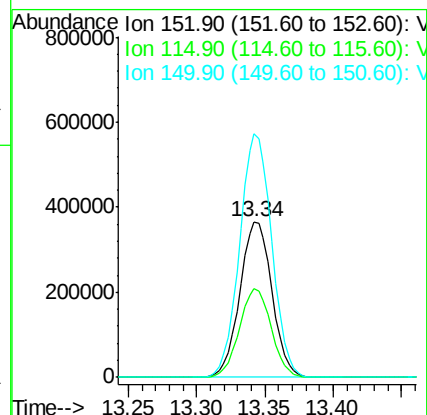
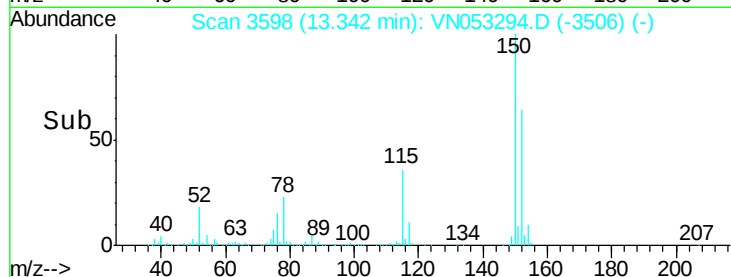
150 156.7 0.0 346.6



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: 35.718 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053294.D

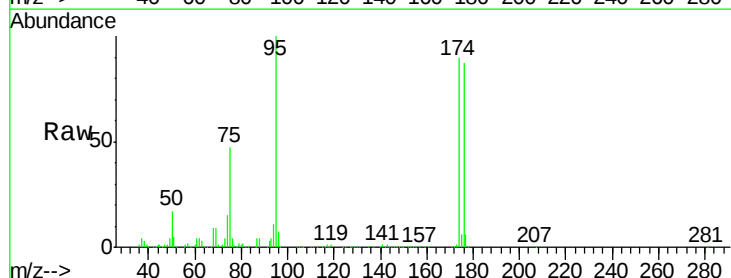
Acq: 7 Jan 2019 10:29

Tgt Ion: 75 Resp: 310688

Ion Ratio Lower Upper

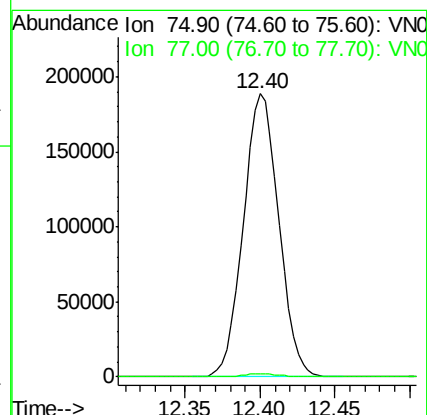
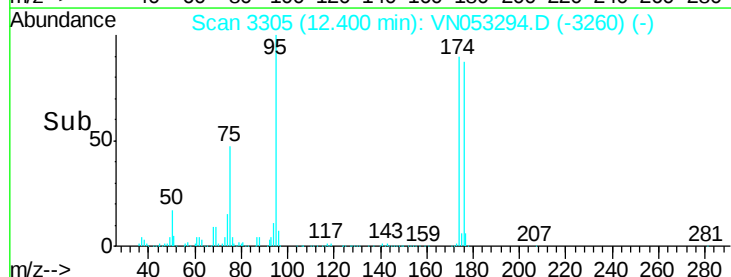
75 100

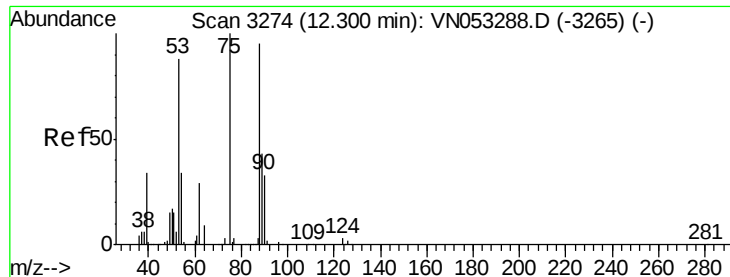
77 1.2 0.0 0.0#



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: 105.089 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0107WBL01

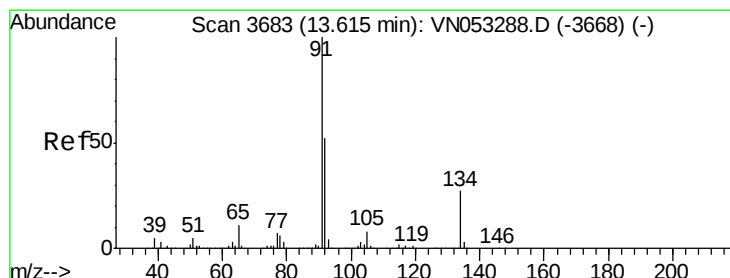
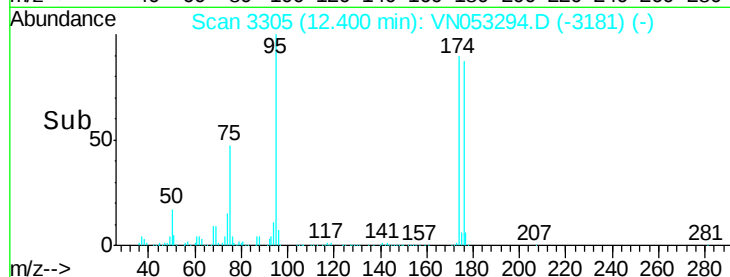
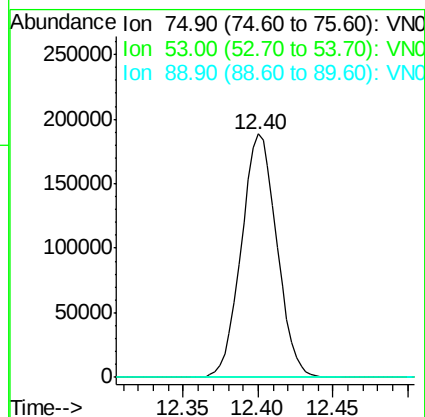
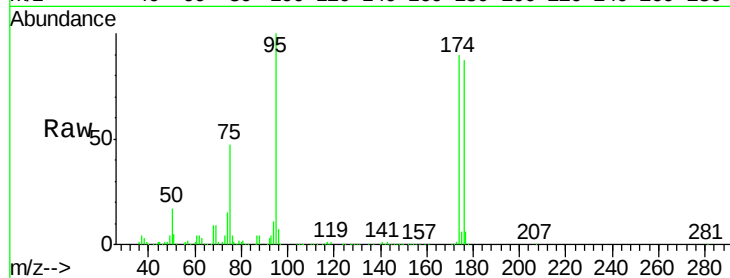
Tot Ion: 75 Resp: 310688

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 35.4 53.0#



#89

n-Butylbenzene

Concen: 0.266 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

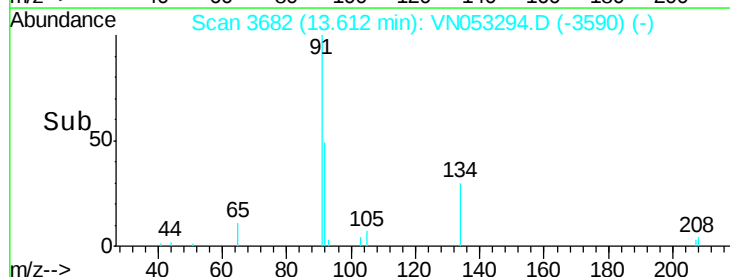
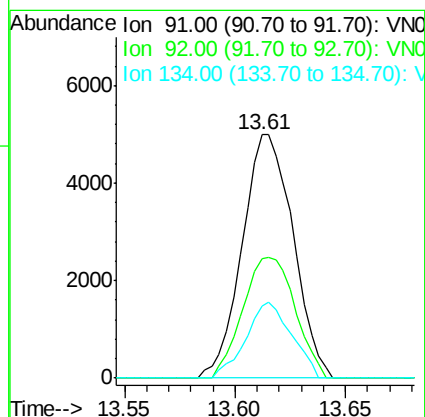
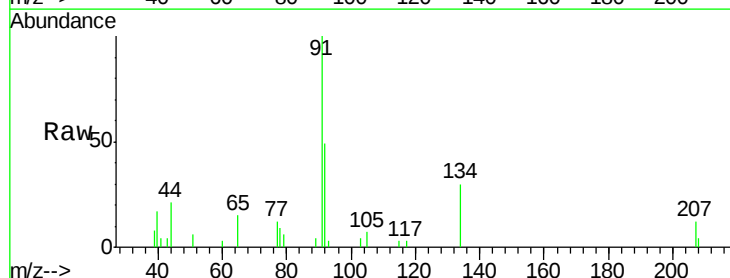
Tgt Ion: 91 Resp: 7999

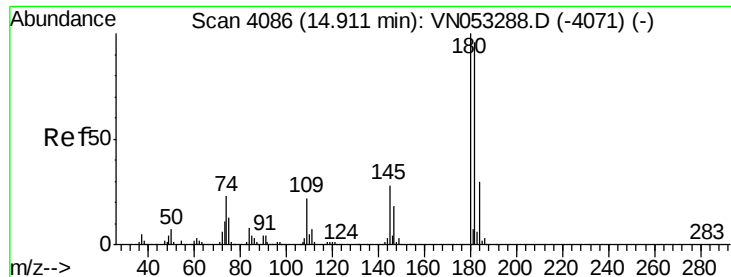
Ion Ratio Lower Upper

91 100

92 50.9 26.3 78.8

134 28.0 13.5 40.5

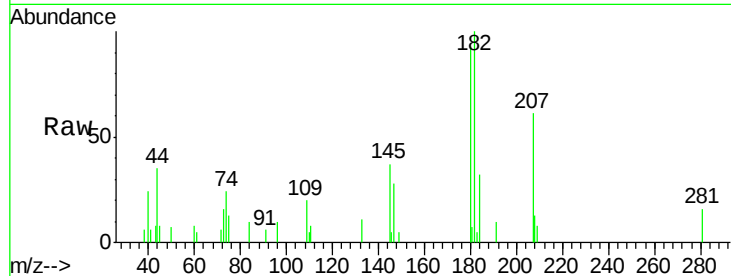




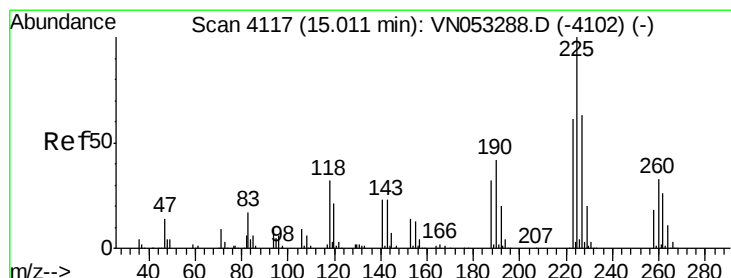
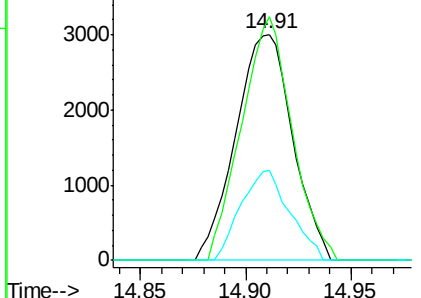
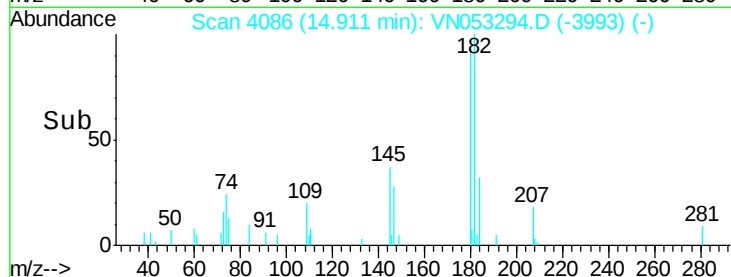
#93
 1,2,4-Trichlorobenzene
 Concen: 0.916 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053294.D
 Acq: 7 Jan 2019 10:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0107WBL01

Tot Ion:180 Resp: 5632
 Ion Ratio Lower Upper
 180 100
 182 96.0 47.8 143.4
 145 34.3 14.4 43.0

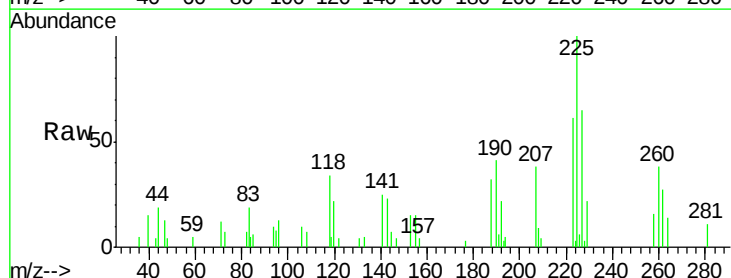


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

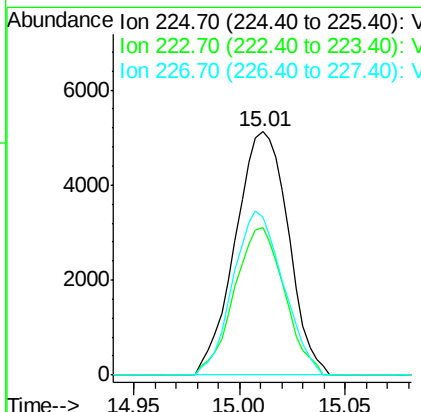
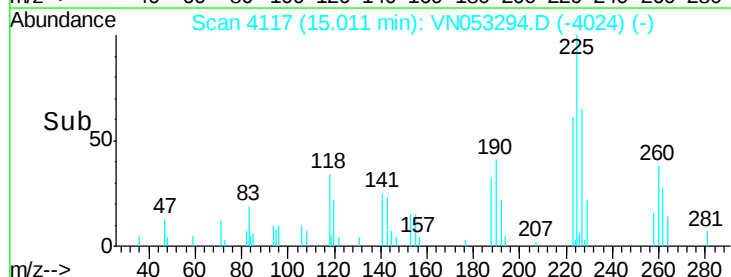


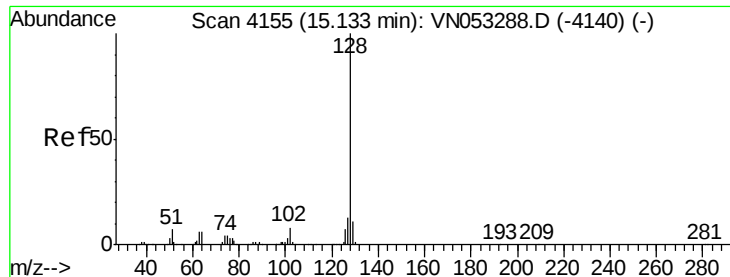
#94
 Hexachlorobutadiene
 Concen: 1.777 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053294.D
 Acq: 7 Jan 2019 10:29

Tgt Ion:225 Resp: 8934
 Ion Ratio Lower Upper
 225 100
 223 57.4 30.9 92.8
 227 63.8 31.4 94.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.005 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

VN0107WBL01

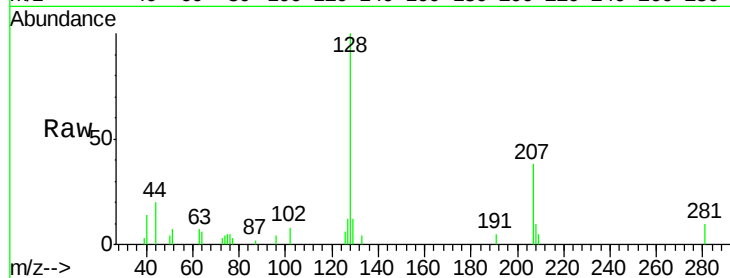
Tot Ion:128 Resp: 10540

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

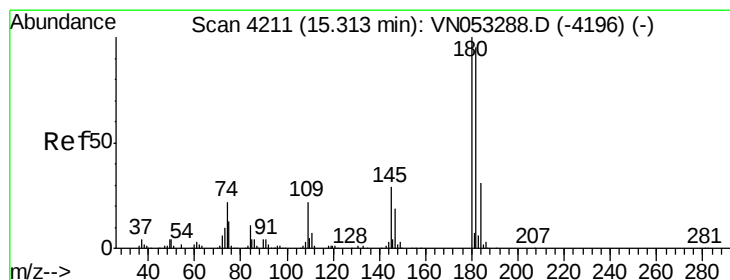
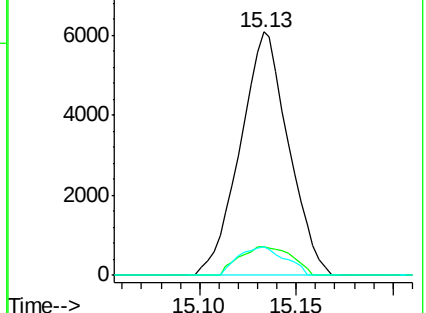
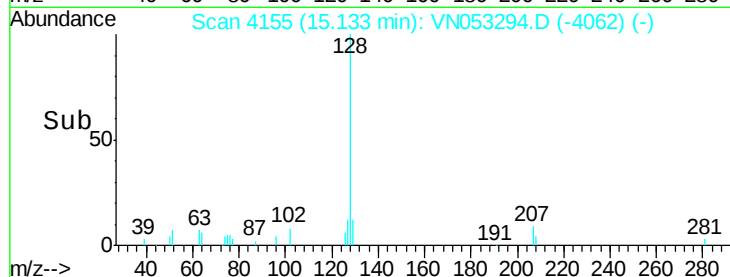
129 11.1 8.7 13.1



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: 1.349 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053294.D

Acq: 7 Jan 2019 10:29

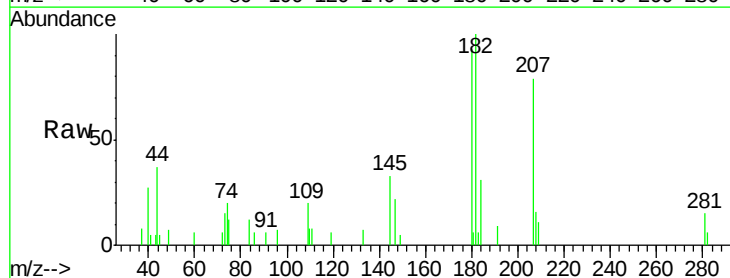
Tgt Ion:180 Resp: 5428

Ion Ratio Lower Upper

180 100

182 101.1 48.4 145.0

145 31.5 14.9 44.5



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

