

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042219\
 Data File : VN055177.D
 Acq On : 22 Apr 2019 12:48
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Apr 23 05:58:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

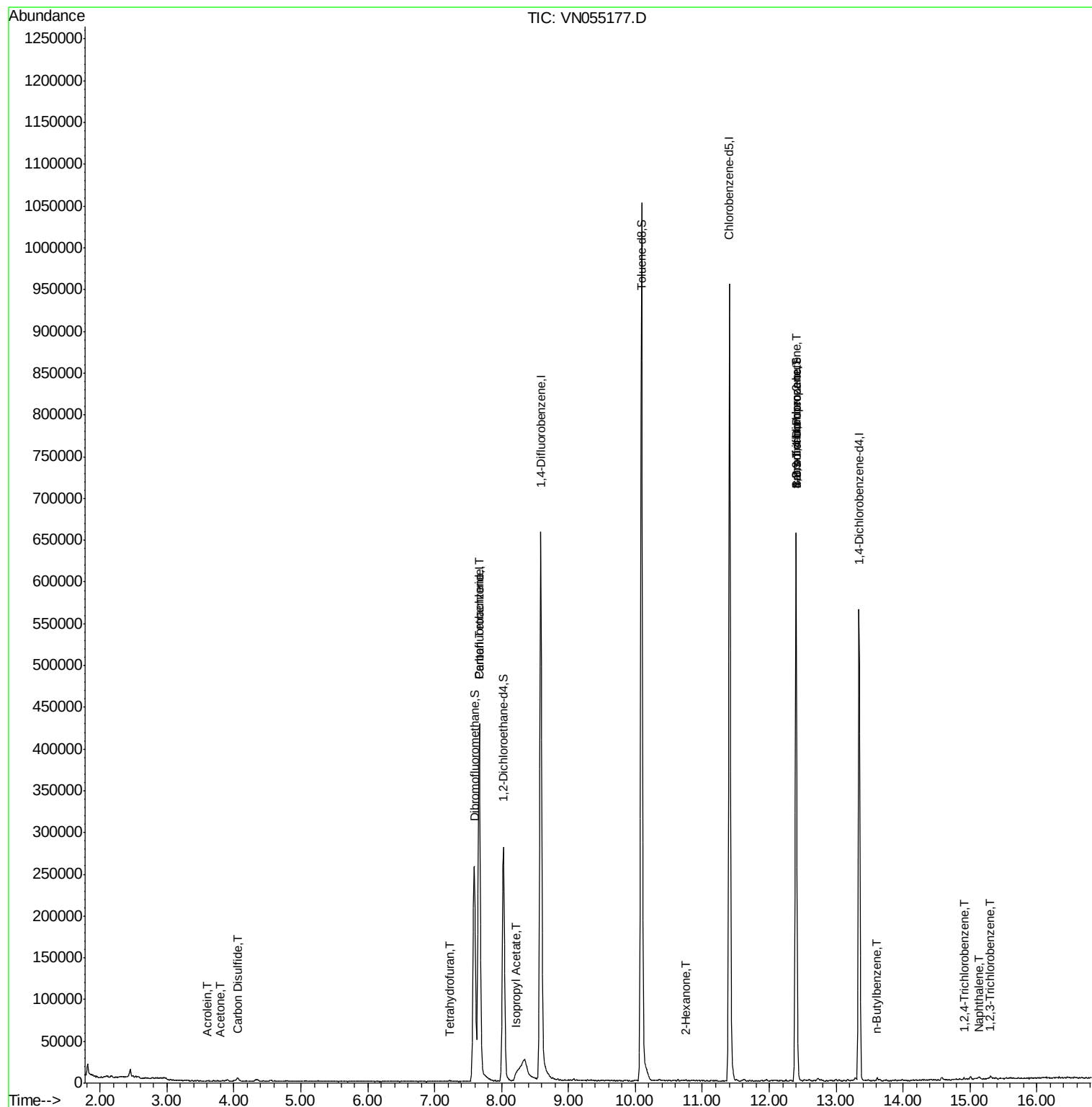
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	363191	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	614234	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	552481	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153178	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	240770	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
35) Dibromofluoromethane	7.59	113	202195	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	
50) Toluene-d8	10.09	98	746368	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
62) 4-Bromofluorobenzene	12.40	95	228113	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	
Target Compounds				Qvalue		
13) Acrolein	3.60	56	63	9.650	ug/l #	54
16) Acetone	3.80	43	347	0.214	ug/l #	45
17) Carbon Disulfide	4.05	76	8373	0.802	ug/l	99
29) Tetrahydrofuran	7.21	42	308	0.239	ug/l #	39
31) Cyclohexane	7.67	56	7778	Below Cal	#	1
38) Carbon Tetrachloride	7.66	117	32703	6.126	ug/l #	17
43) Isopropyl Acetate	8.22	43	6536	0.877	ug/l #	56
59) 2-Hexanone	10.76	43	1239	0.458	ug/l #	44
71) Bromoform	12.40	173	2437	0.977	ug/l #	1
73) Isopropylbenzene	12.24	105	416	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.51	83	67	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	114595	36.876	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	114595	139.791	ug/l #	5
83) tert-Butylbenzene	12.99	119	669	Below Cal	#	72
89) n-Butylbenzene	13.62	91	2253	0.284	ug/l	88
93) 1,2,4-Trichlorobenzene	14.92	180	731	3.045	ug/l	75
94) Hexachlorobutadiene	15.01	225	753	Below Cal		87
95) Naphthalene	15.13	128	2206	3.808	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.31	180	1204	2.639	ug/l #	89

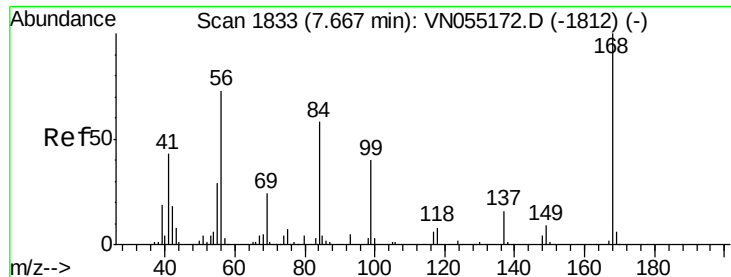
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampled :

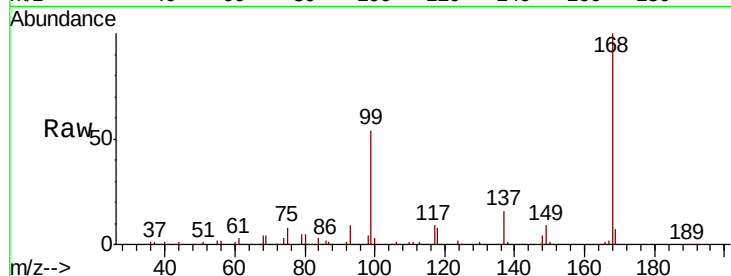
I.BLK

Tot Ion:168 Resp: 363191

Ion Ratio Lower Upper

168 100

99 54.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

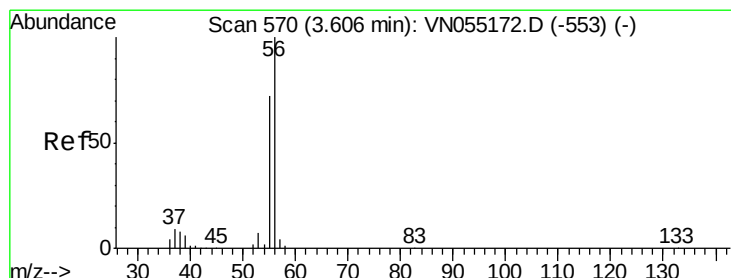
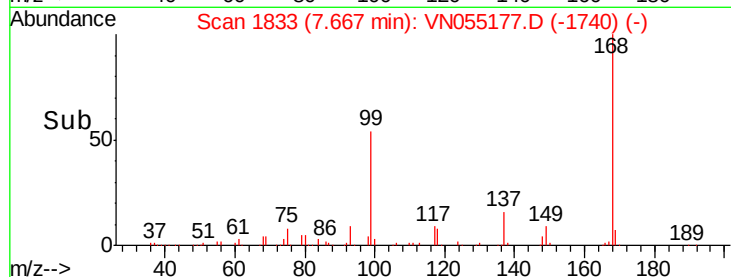
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 9.650 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN055177.D

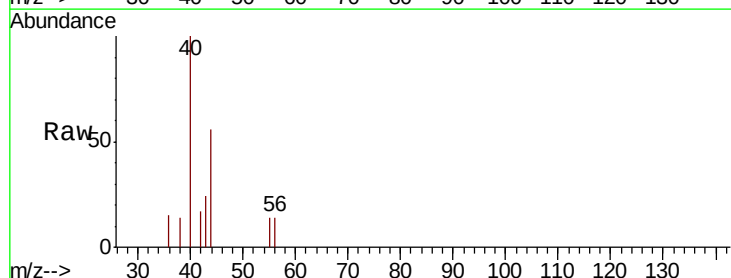
Acq: 22 Apr 2019 12:48

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 109.5 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

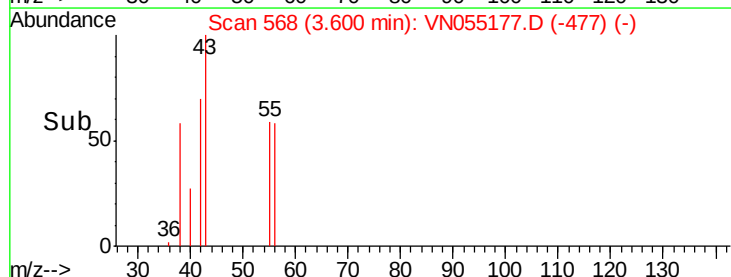
300

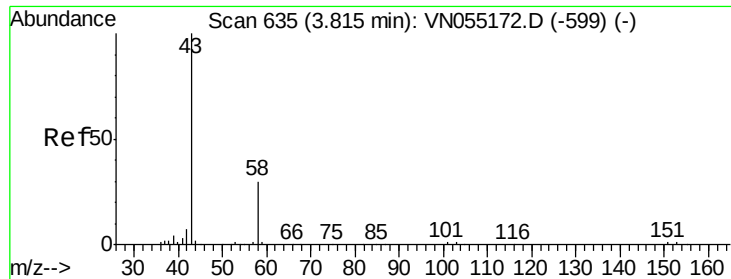
200

100

0

Time-->





#16

Acetone

Concen: 0.214 ug/l

RT: 3.80 min Scan# 631

Delta R.T. -0.01 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampled :

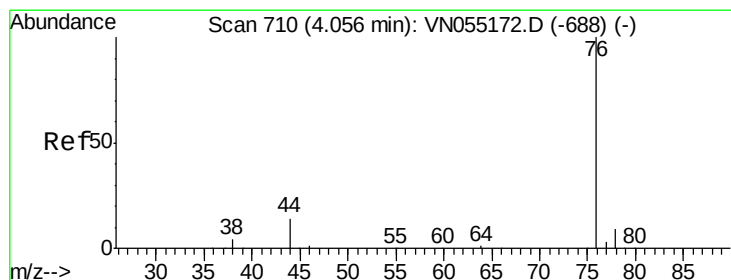
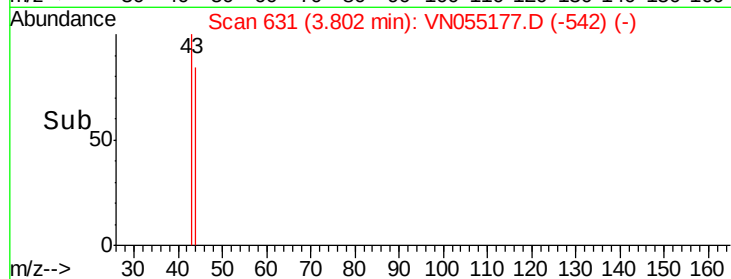
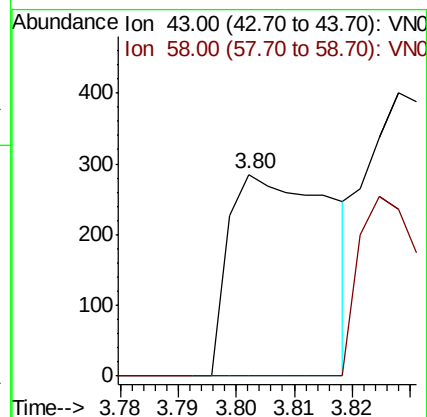
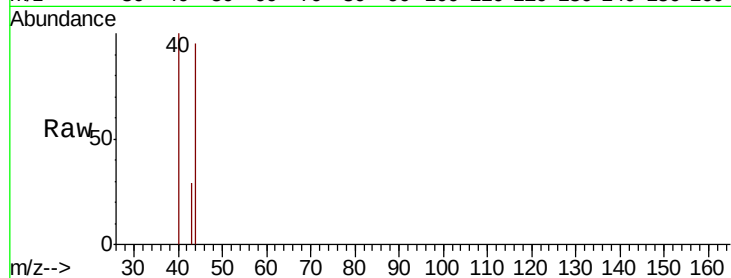
I.BLK

Tot Ion: 43 Resp: 347

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#



#17

Carbon Disulfide

Concen: 0.802 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN055177.D

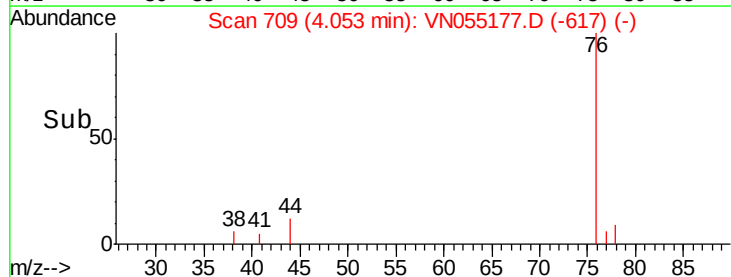
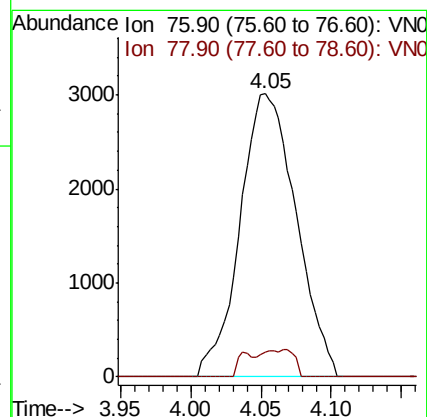
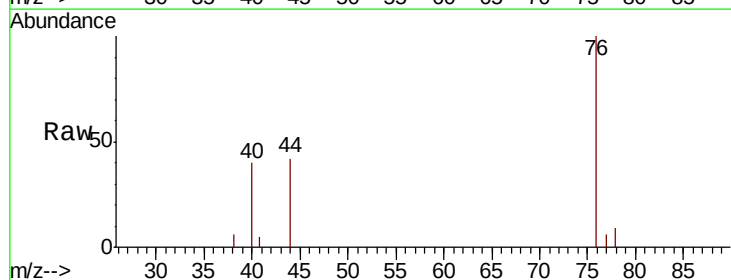
Acq: 22 Apr 2019 12:48

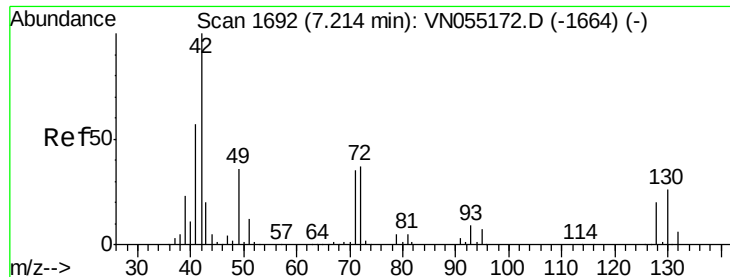
Tgt Ion: 76 Resp: 8373

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9





#29

Tetrahydrofuran

Concen: 0.239 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

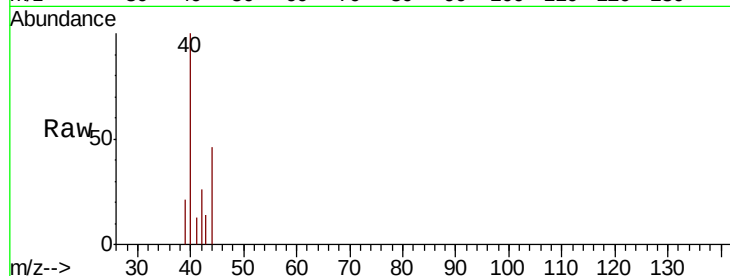
Tot Ion: 42 Resp: 308

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.2#

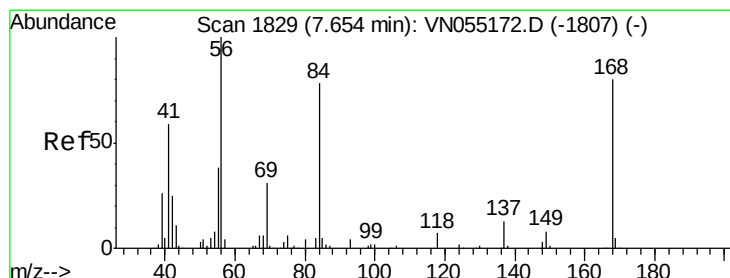
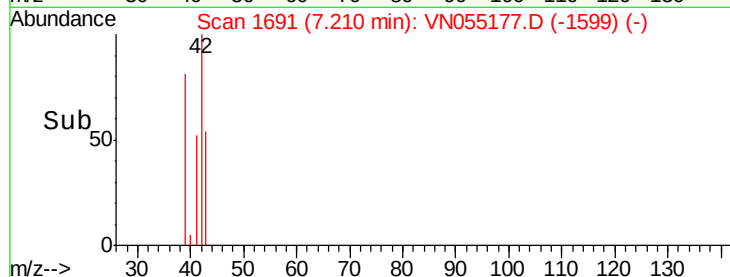
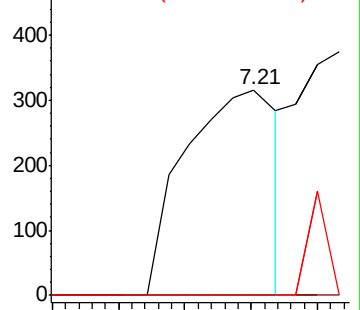
71 0.0 27.8 41.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

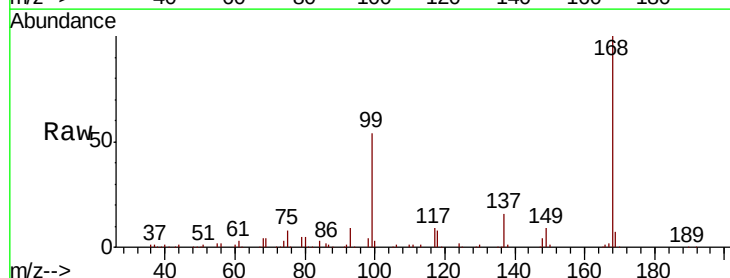
Tgt Ion: 56 Resp: 7778

Ion Ratio Lower Upper

56 100

69 183.0 24.6 37.0#

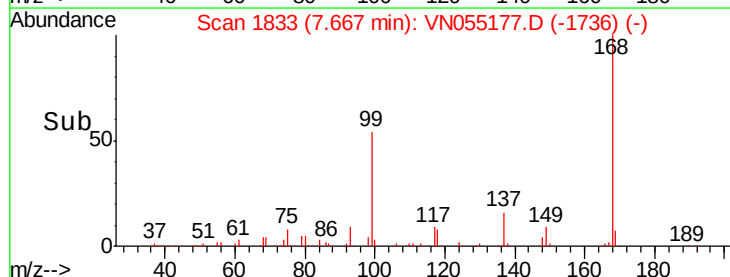
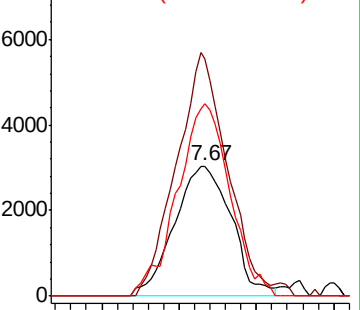
84 148.6 61.4 92.2#

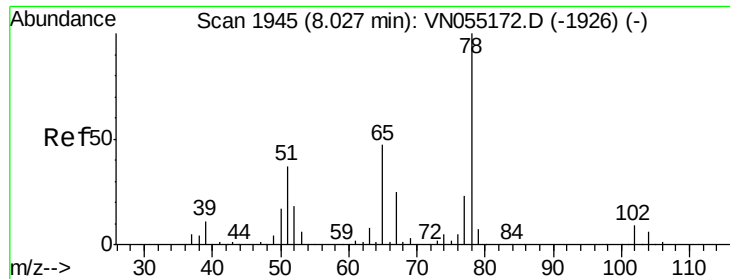


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

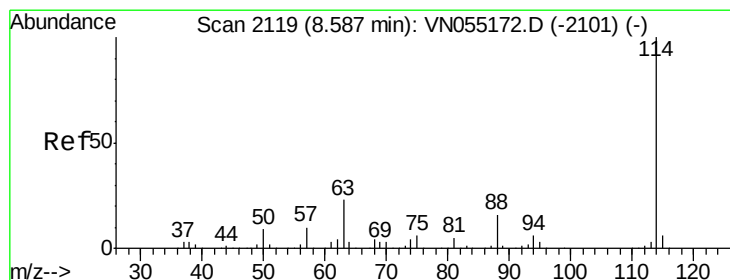
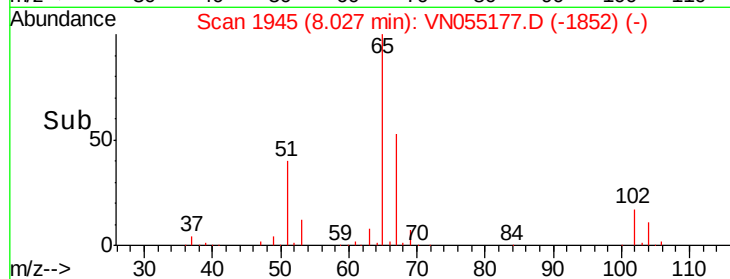
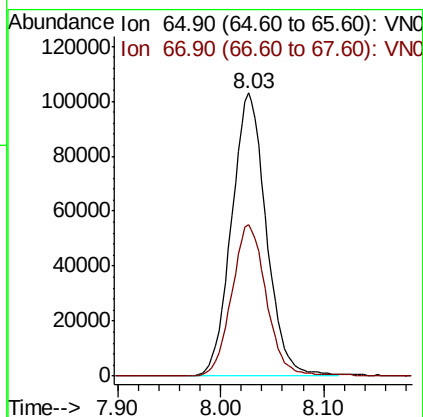
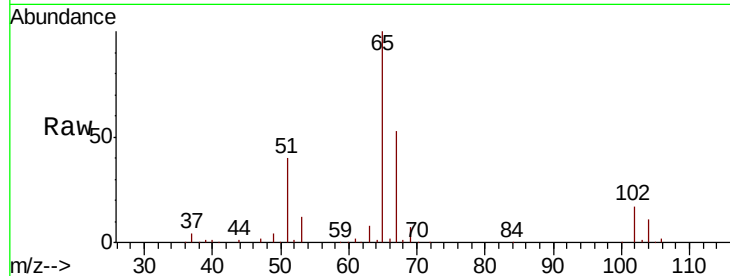




#33
 1,2-Dichloroethane-d4
 Concen: 48.978 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055177.D
 Acq: 22 Apr 2019 12:48

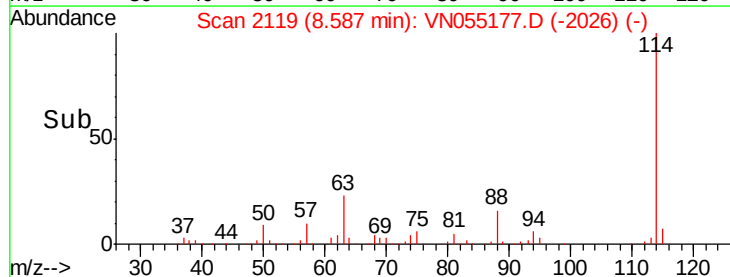
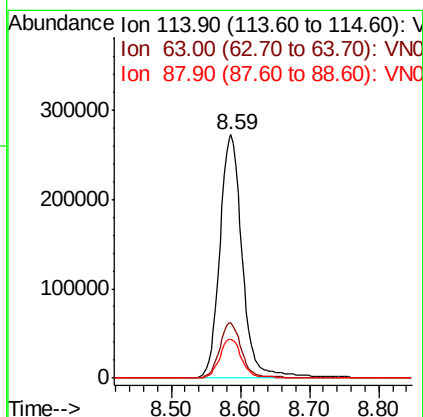
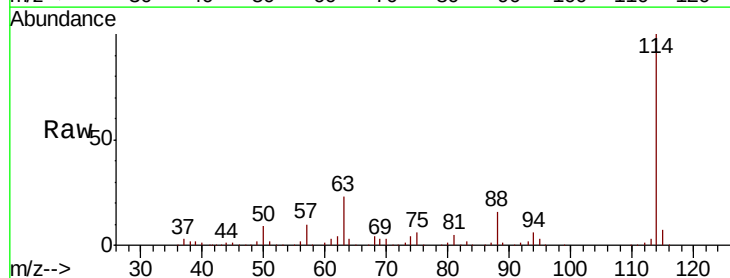
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

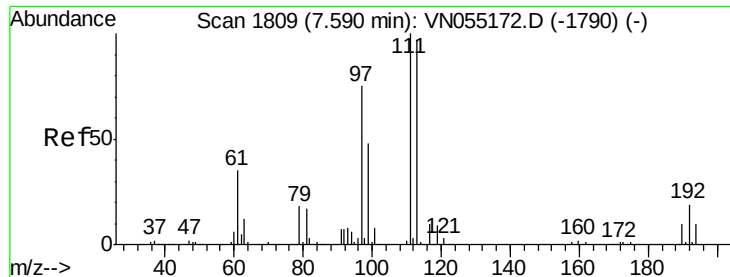
Tot Ion: 65 Resp: 240770
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055177.D
 Acq: 22 Apr 2019 12:48

Tgt Ion: 114 Resp: 614234
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.2
 88 16.1 0.0 32.8

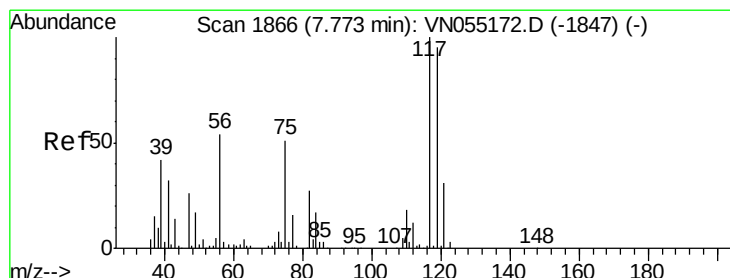
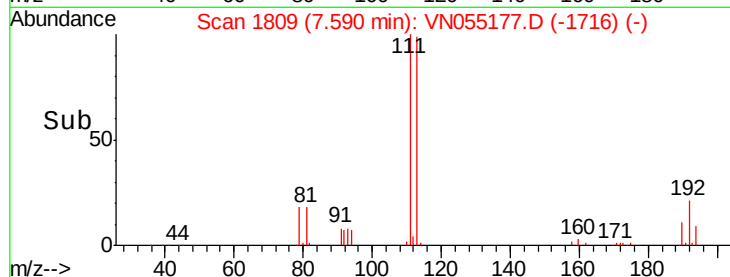
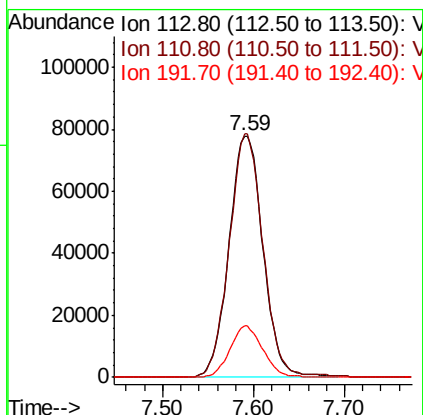
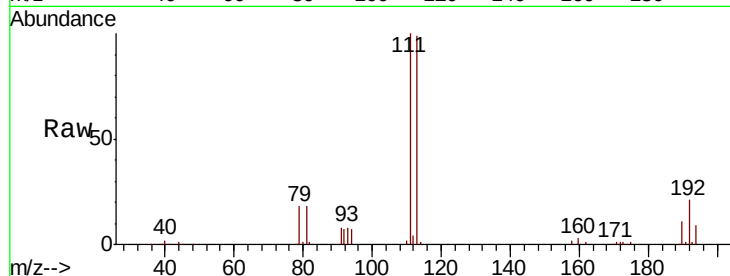




#35
 Dibromofluoromethane
 Concen: 48.456 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055177.D
 Acq: 22 Apr 2019 12:48

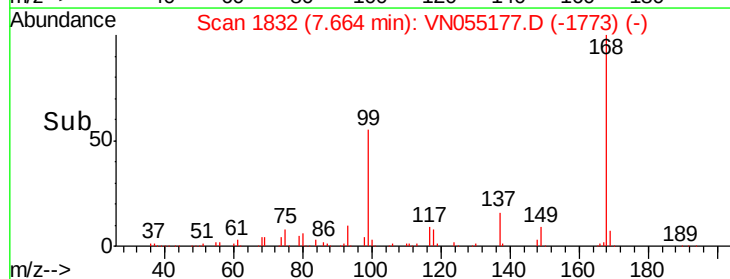
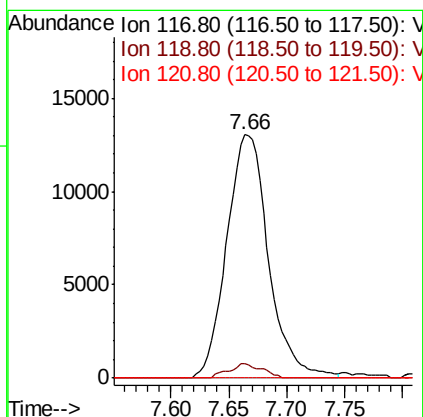
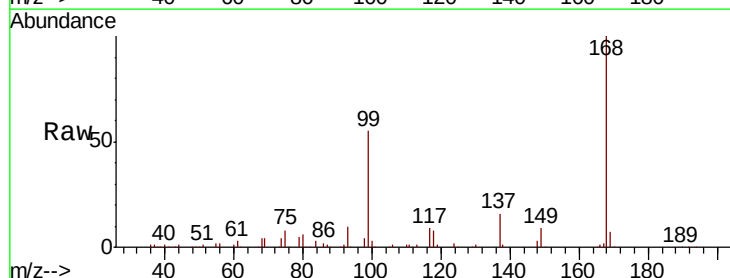
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

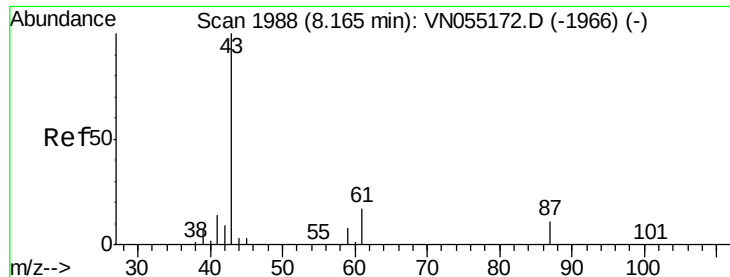
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.3	81.0	121.4
192	20.6	16.2	24.4



#38
 Carbon Tetrachloride
 Concen: 6.126 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055177.D
 Acq: 22 Apr 2019 12:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.0	114.0#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 0.877 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.05 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

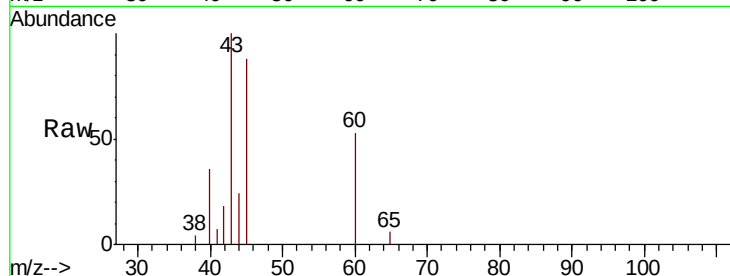
Tot Ion: 43 Resp: 6536

Ion Ratio Lower Upper

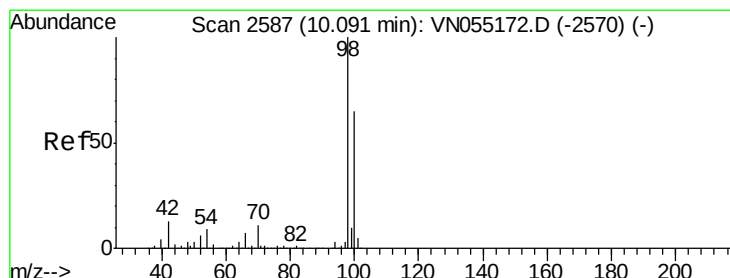
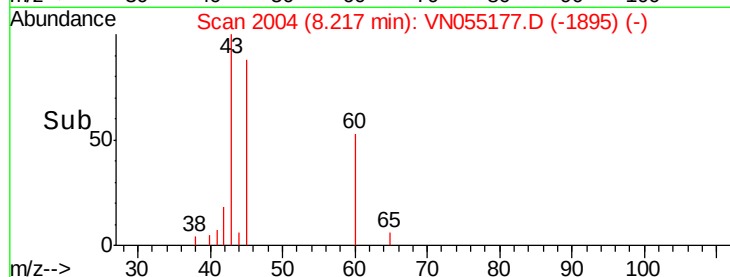
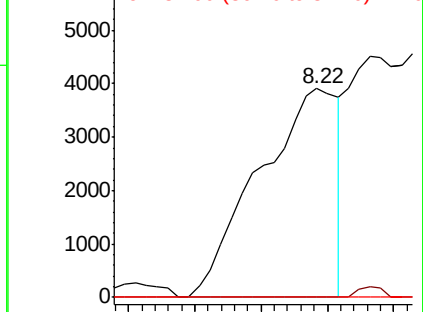
43 100

61 0.0 20.6 30.8#

87 0.0 8.8 13.2#



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



#50

Toluene-d8

Concen: 48.275 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055177.D

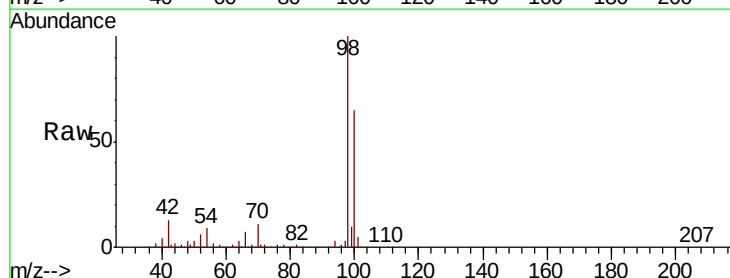
Acq: 22 Apr 2019 12:48

Tgt Ion: 98 Resp: 746368

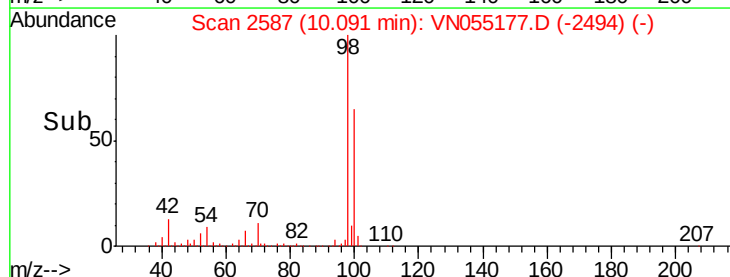
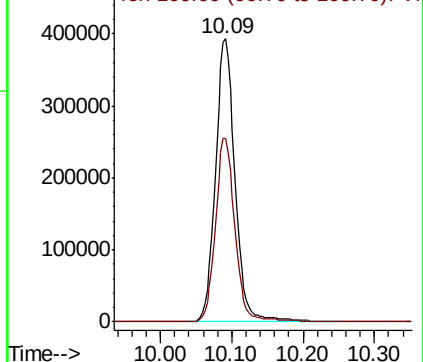
Ion Ratio Lower Upper

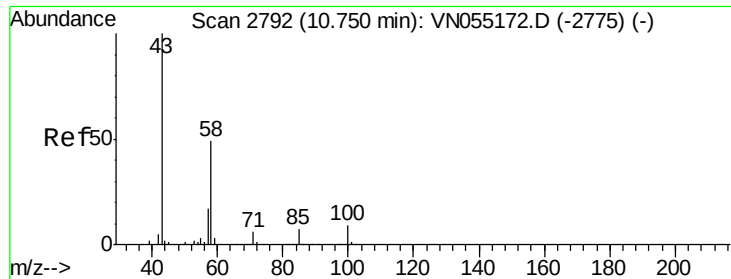
98 100

100 64.7 51.8 77.6



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

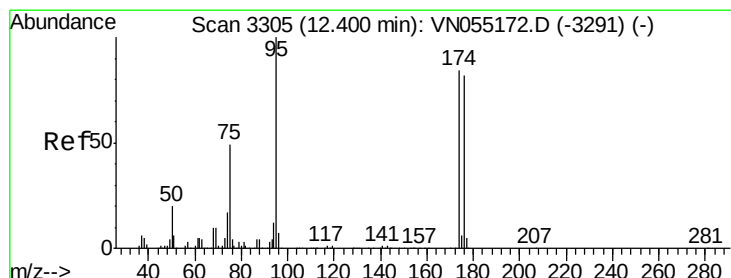
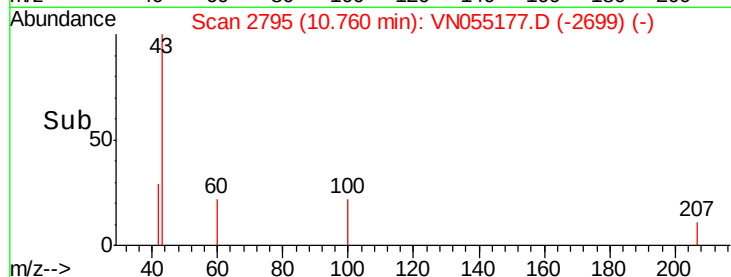
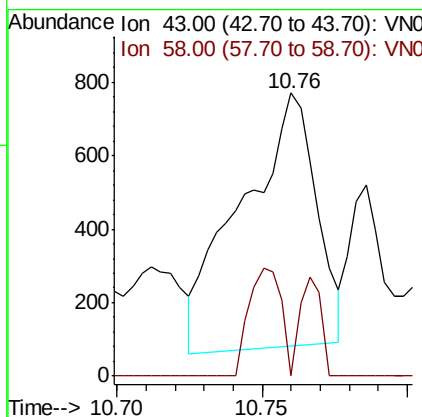
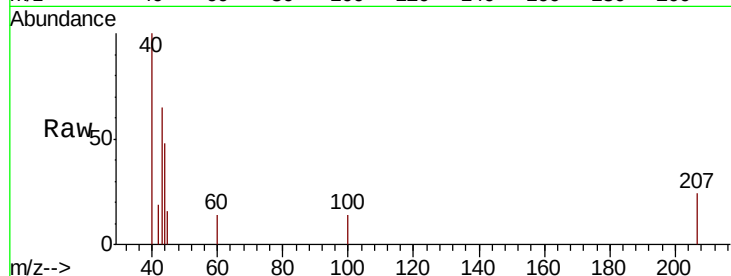




#59
2-Hexanone
Concen: 0.458 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN055177.D
Acq: 22 Apr 2019 12:48

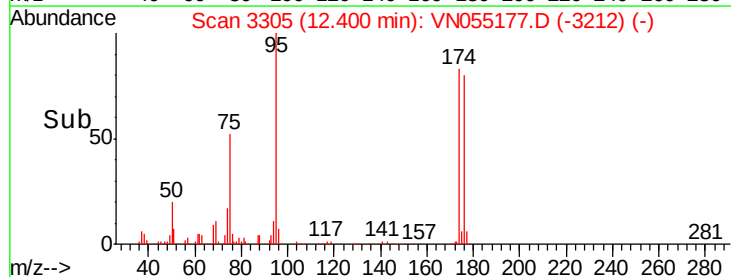
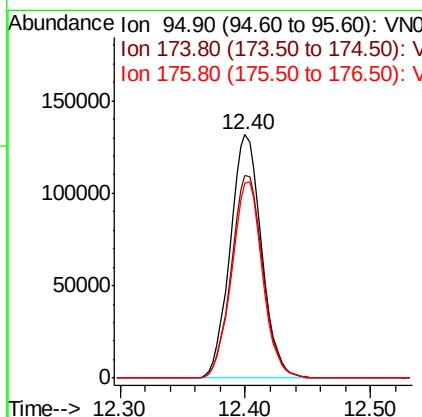
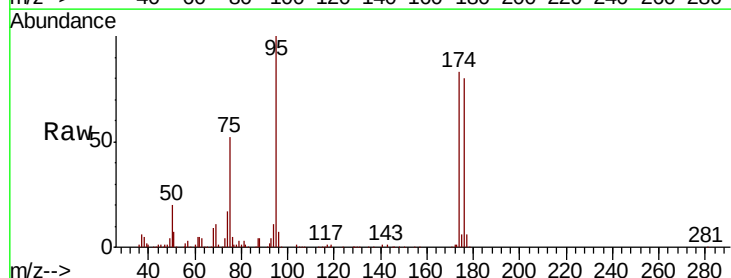
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

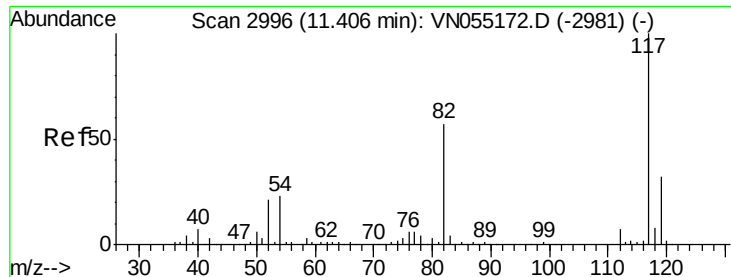
Tot Ion: 43 Resp: 1239
Ion Ratio Lower Upper
43 100
58 10.8 24.5 73.5#



#62
4-Bromofluorobenzene
Concen: 46.591 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055177.D
Acq: 22 Apr 2019 12:48

Tgt Ion: 95 Resp: 228113
Ion Ratio Lower Upper
95 100
174 84.0 0.0 168.4
176 79.4 0.0 164.0

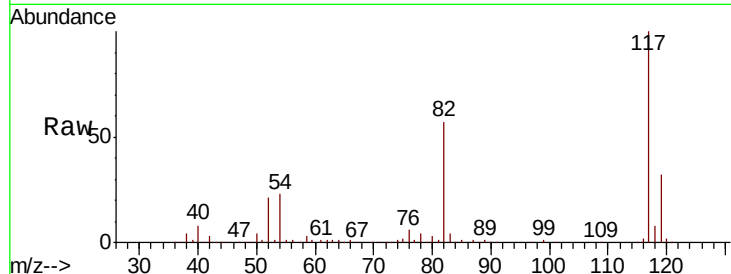




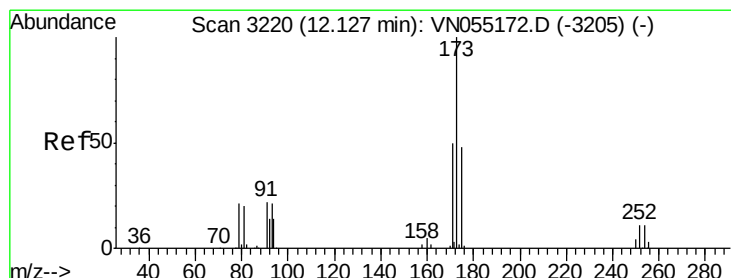
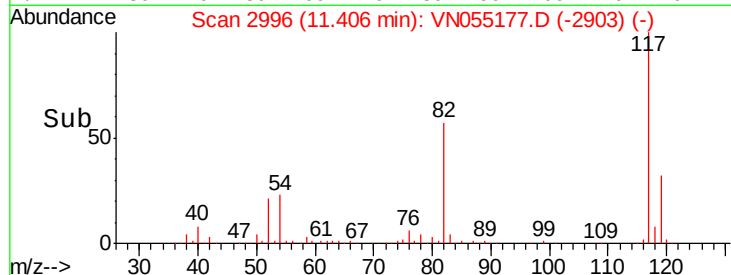
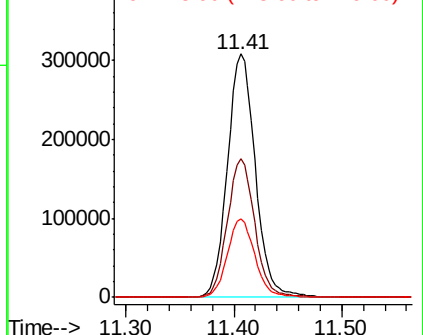
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055177.D
Acq: 22 Apr 2019 12:48

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tot Ion:117 Resp: 552481
Ion Ratio Lower Upper
117 100
82 57.0 45.7 68.5
119 32.1 25.4 38.2

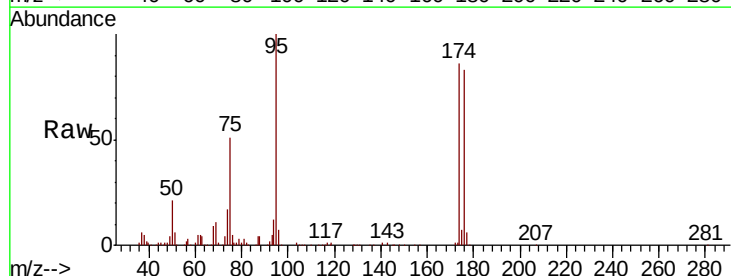


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

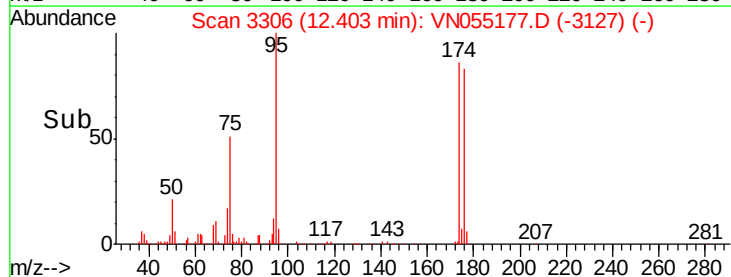
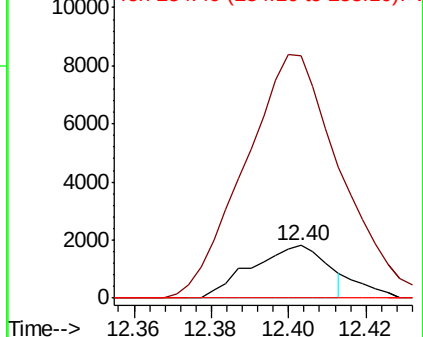


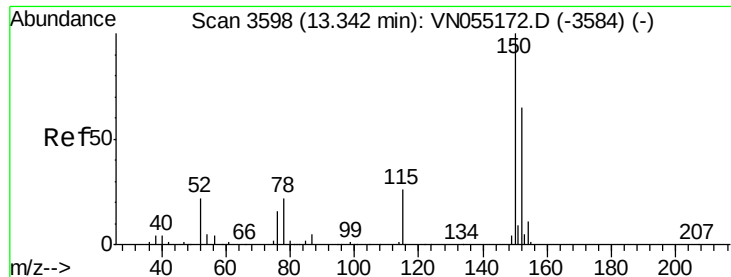
#71
Bromoform
Concen: 0.977 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055177.D
Acq: 22 Apr 2019 12:48

Tgt Ion:173 Resp: 2437
Ion Ratio Lower Upper
173 100
175 507.4 23.8 71.2#
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

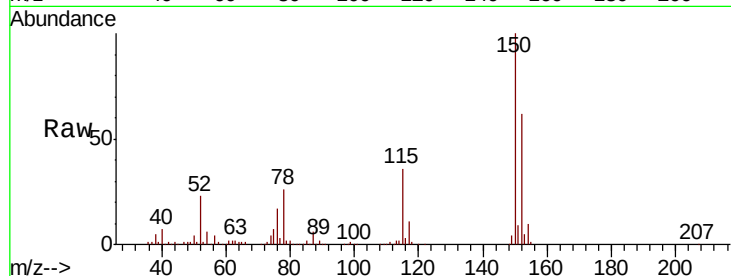
Tot Ion:152 Resp: 153178

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.7

150 158.6 0.0 346.6

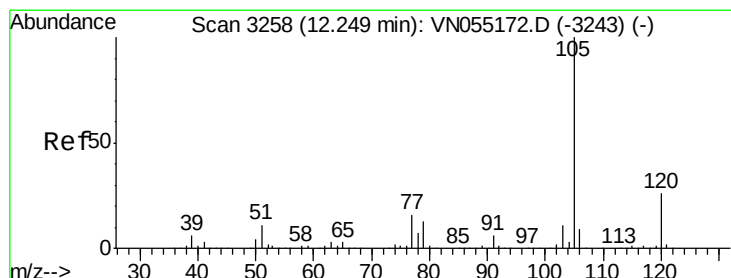
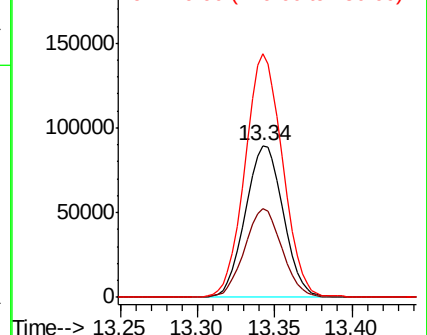
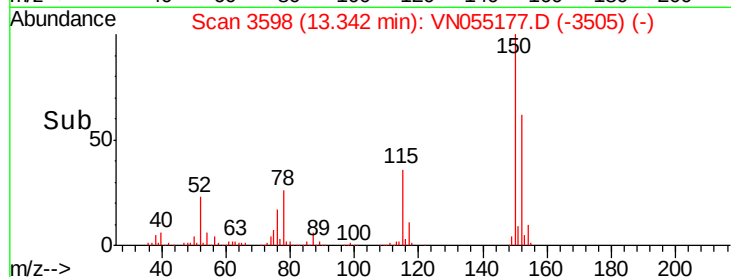


Abundance

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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055177.D

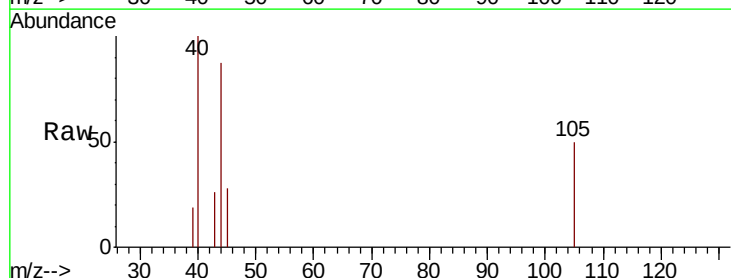
Acq: 22 Apr 2019 12:48

Tgt Ion:105 Resp: 416

Ion Ratio Lower Upper

105 100

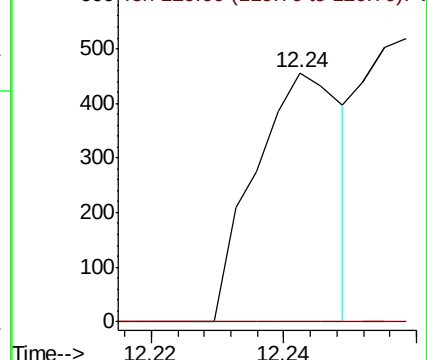
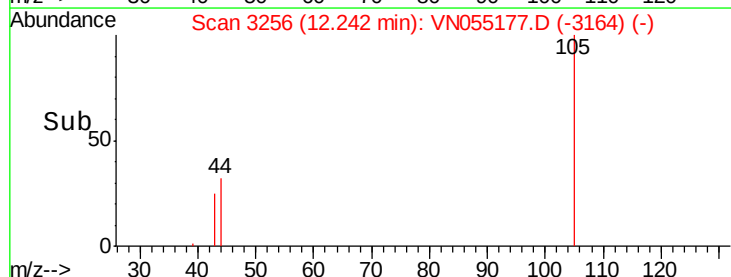
120 0.0 13.1 39.1#

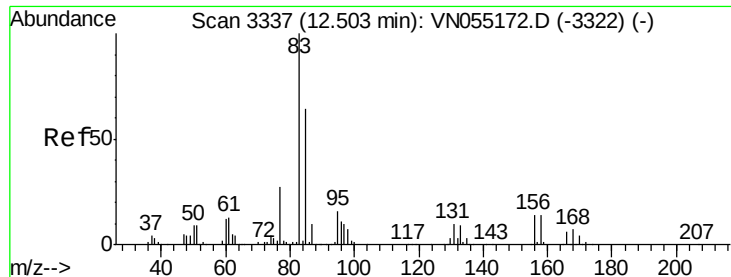


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3339

Delta R.T. 0.01 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

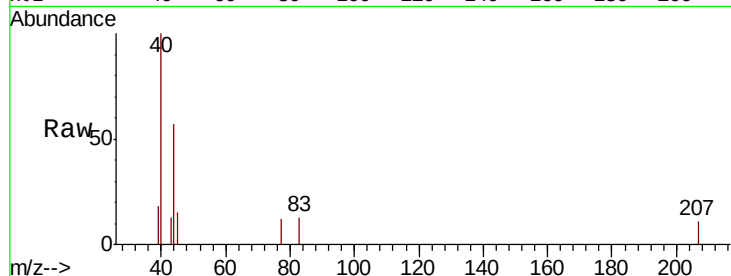
Tot Ion: 83 Resp: 67

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

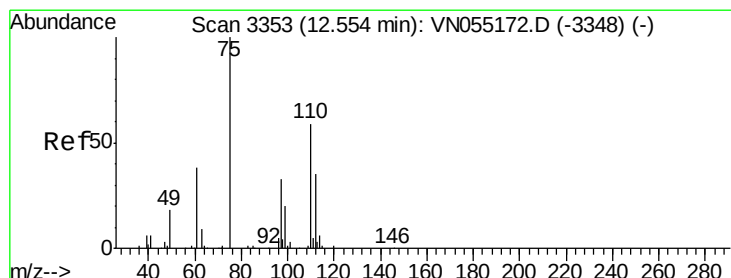
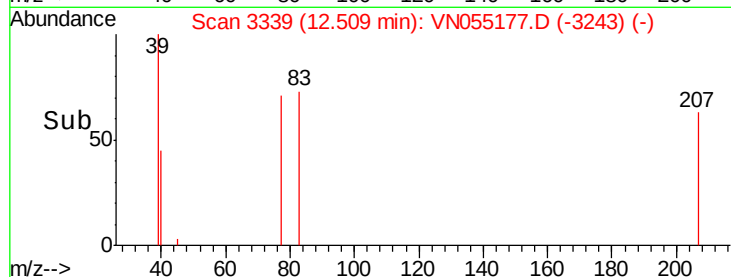
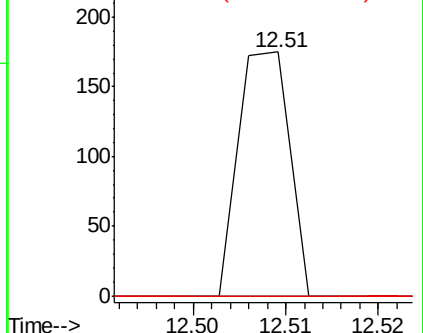
85 0.0 32.1 96.3#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.876 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055177.D

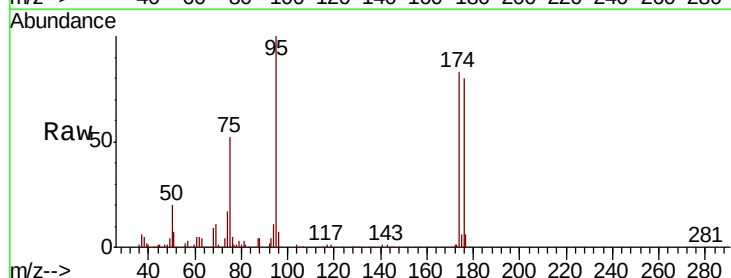
Acq: 22 Apr 2019 12:48

Tgt Ion: 75 Resp: 114595

Ion Ratio Lower Upper

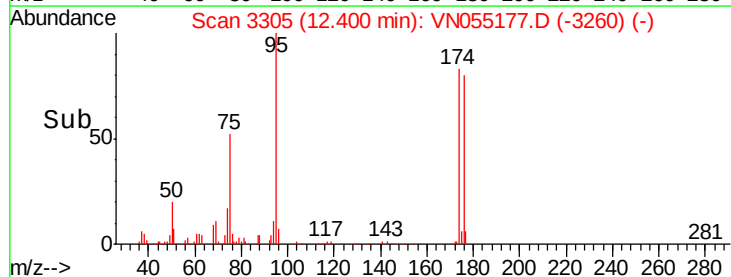
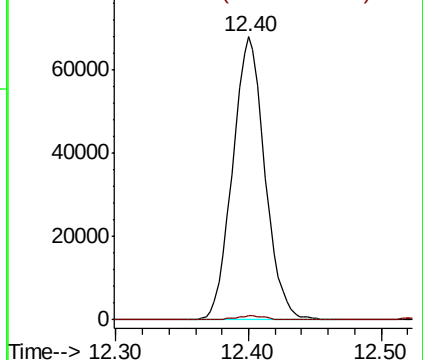
75 100

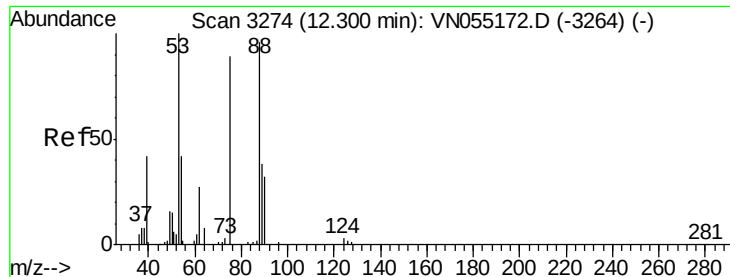
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

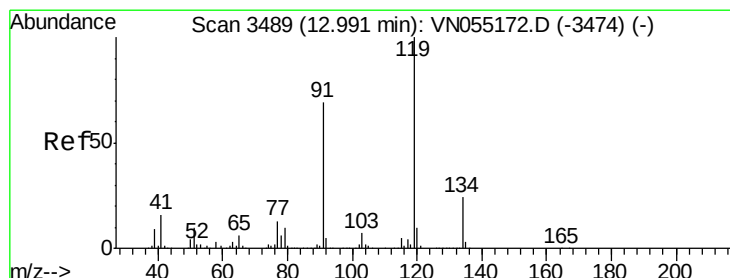
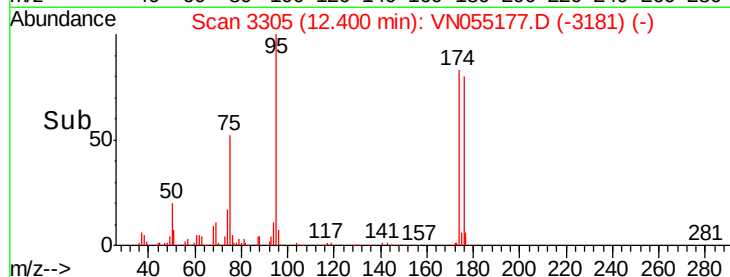
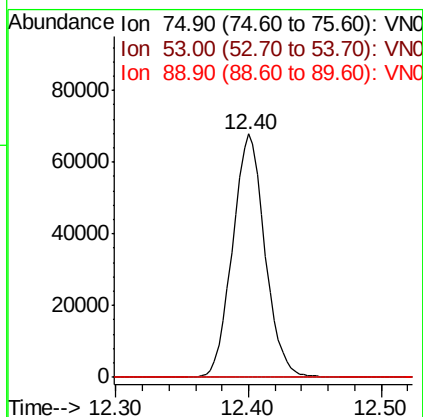
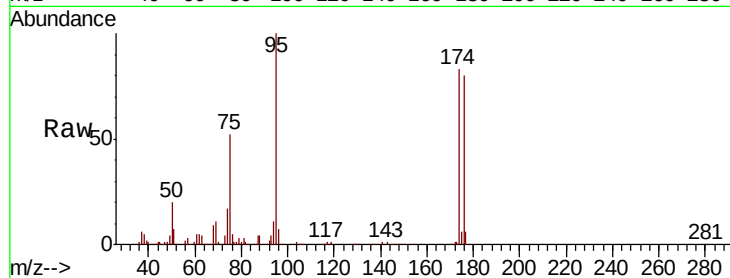




#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.791 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055177.D
 Acq: 22 Apr 2019 12:48

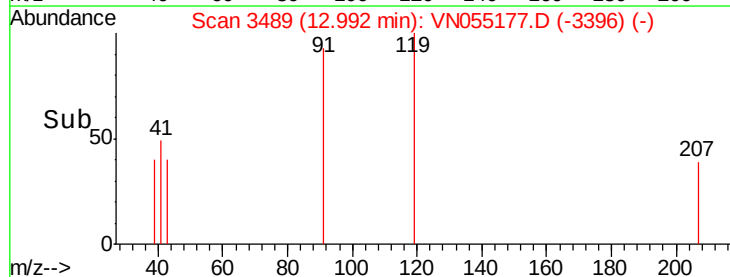
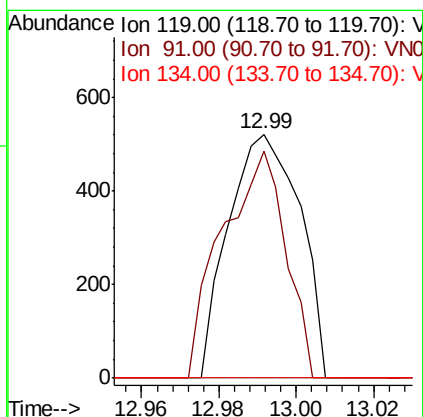
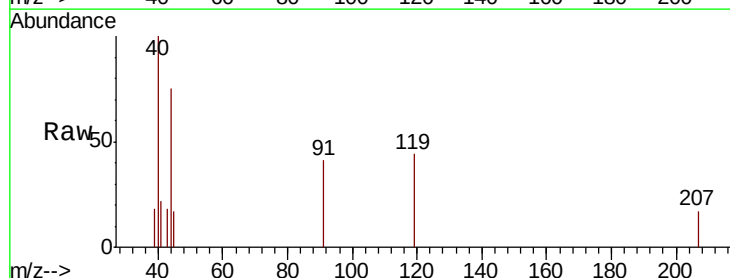
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

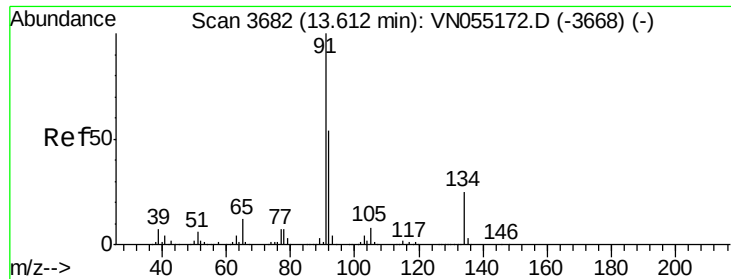
Tot Ion: 75 Resp: 114595
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.1 135.1#
 89 0.0 36.7 55.1#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055177.D
 Acq: 22 Apr 2019 12:48

Tgt Ion: 119 Resp: 669
 Ion Ratio Lower Upper
 119 100
 91 82.7 33.8 101.3
 134 0.0 13.2 39.5#





#89

n-Butylbenzene

Concen: 0.284 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.01 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

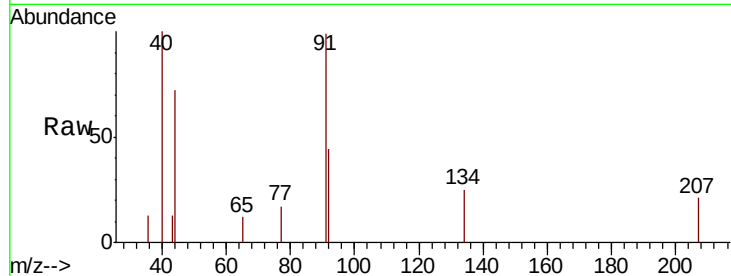
Tot Ion: 91 Resp: 2253

Ion Ratio Lower Upper

91 100

92 45.9 26.4 79.2

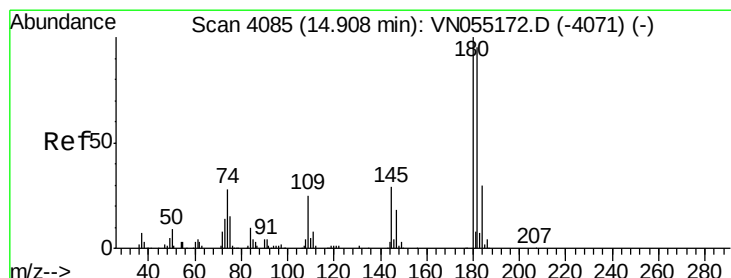
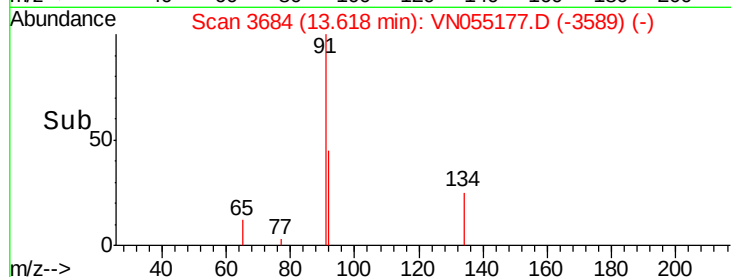
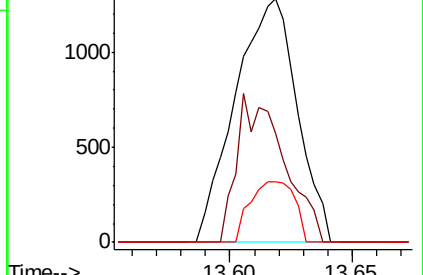
134 17.8 12.8 38.4



Abundance Ion 91.00 (90.70 to 91.70): VN055177.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN055177.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN055177.D (-3668) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.045 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

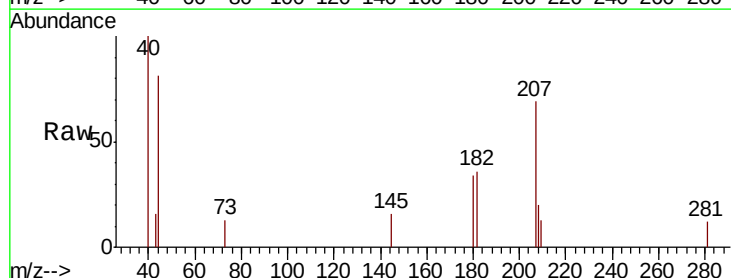
Tgt Ion: 180 Resp: 731

Ion Ratio Lower Upper

180 100

182 122.3 47.8 143.4

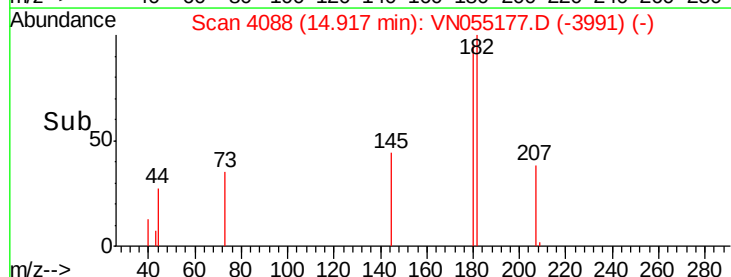
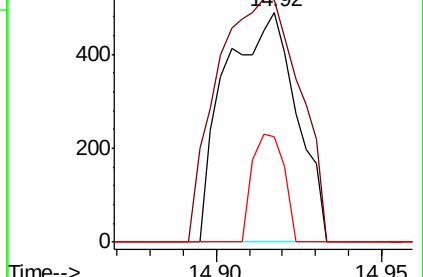
145 20.9 14.5 43.5

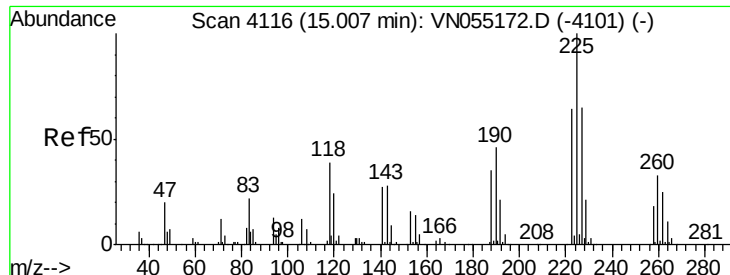


Abundance Ion 179.80 (179.50 to 180.50): VN055177.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN055177.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN055177.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

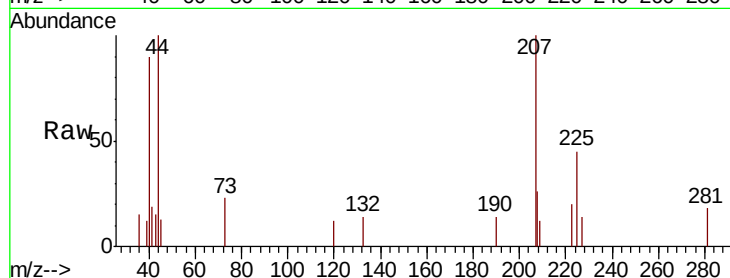
Tot Ion:225 Resp: 753

Ion Ratio Lower Upper

225 100

223 54.3 32.2 96.6

227 55.6 32.6 98.0



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

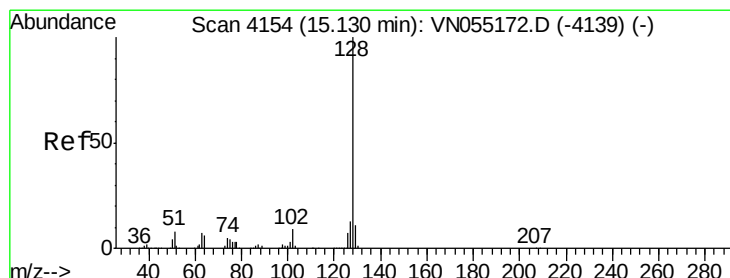
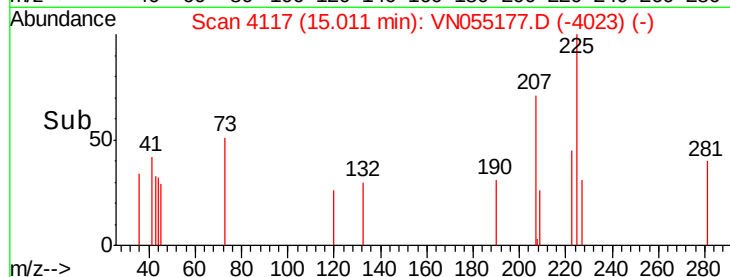
15.01

400

200

0

Time-->



#95

Naphthalene

Concen: 3.808 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN055177.D

Acq: 22 Apr 2019 12:48

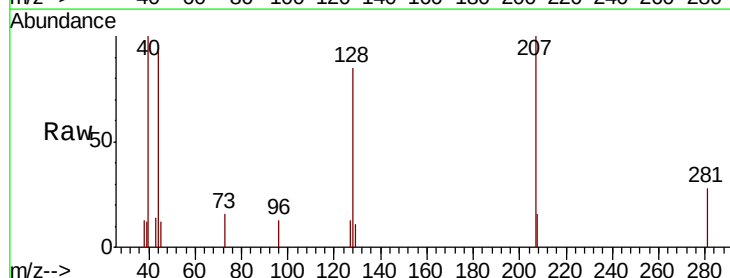
Tgt Ion:128 Resp: 2206

Ion Ratio Lower Upper

128 100

127 4.3 10.3 15.5#

129 2.8 8.8 13.2#



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

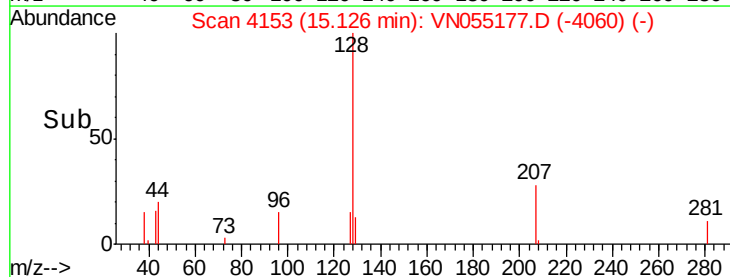
15.13

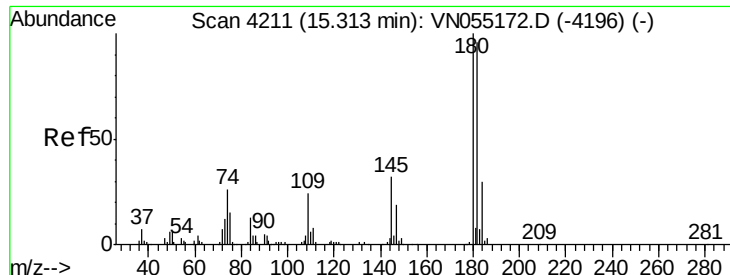
1000

500

0

Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 2.639 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055177.D
 Acq: 22 Apr 2019 12:48

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.2	141.6
145	11.9	15.4	46.1#

