

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050219\
 Data File : VN055350.D
 Acq On : 2 May 2019 15:29
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: May 03 01:54:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	352027	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	610303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	542725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	154525	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	246220	53.46	ug/l	0.00
Spiked Amount			Recovery	=	106.92%	
35) Dibromofluoromethane	7.59	113	198000	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
50) Toluene-d8	10.09	98	743004	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	12.40	95	231722	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	

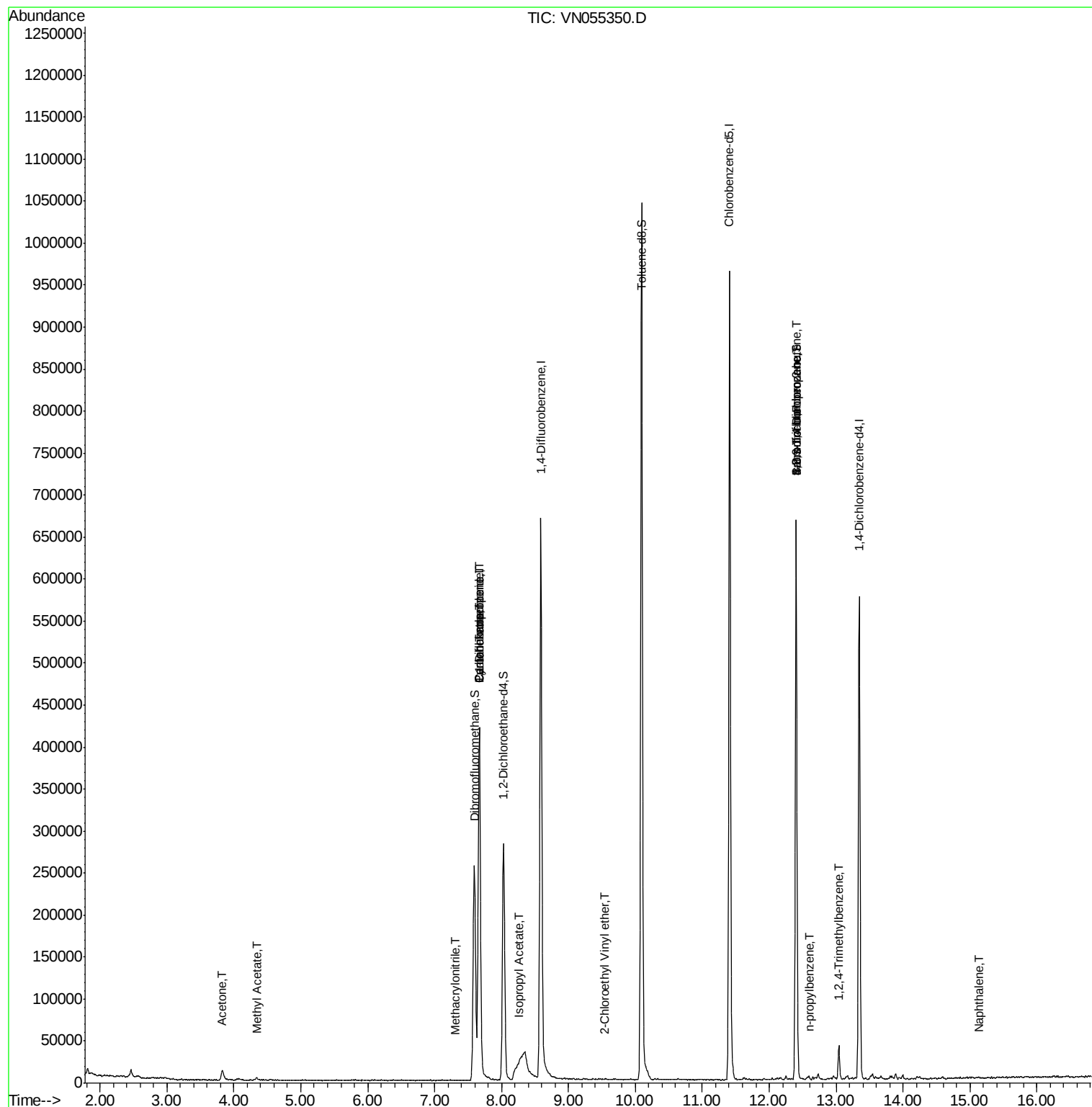
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	20064	13.982	ug/l	91
18) Methyl Acetate	4.34	43	5195	0.460	ug/l #	77
31) Cyclohexane	7.67	56	7869	1.086	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	27131	4.641	ug/l #	49
38) Carbon Tetrachloride	7.66	117	33469	5.935	ug/l #	16
41) Methacrylonitrile	7.31	41	60	0.764	ug/l #	30
43) Isopropyl Acetate	8.25	43	29456	4.091	ug/l #	56
58) 2-Chloroethyl Vinyl ether	9.54	63	69	12.452	ug/l #	52
71) Bromoform	12.40	173	2170	0.941	ug/l #	1
73) Isopropylbenzene	12.25	105	3033	Below Cal		95
75) 1,1,2,2-Tetrachloroethane	12.56	83	109	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	121123	41.755	ug/l #	100
78) n-propylbenzene	12.59	91	3551	0.224	ug/l	99
79) 2-Chlorotoluene	12.69	91	245	Below Cal	#	42
81) trans-1,4-Dichloro-2-buten	12.40	75	121123	148.543	ug/l #	7
83) tert-Butylbenzene	12.99	119	373	Below Cal	#	68
84) 1,2,4-Trimethylbenzene	13.04	105	21868	2.018	ug/l	99
90) Hexachloroethane	13.89	117	270	Below Cal	#	7
95) Naphthalene	15.13	128	753	3.492	ug/l #	69

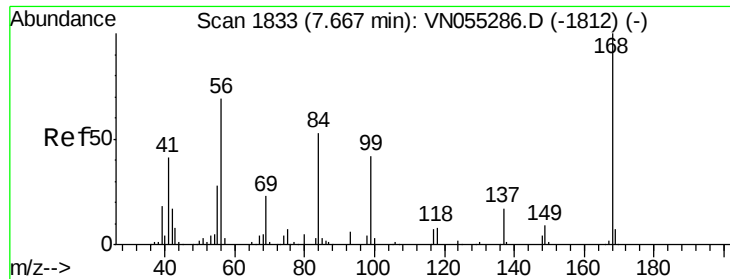
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
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: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

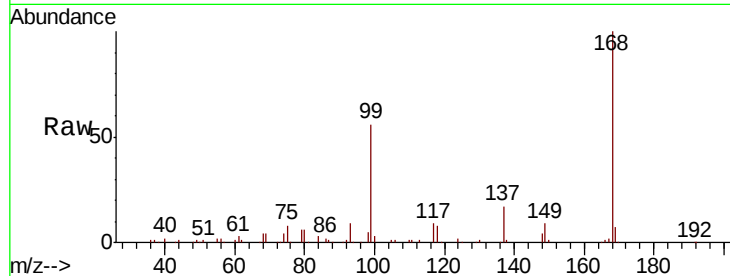
I.BLK

Tot Ion:168 Resp: 352027

Ion Ratio Lower Upper

168 100

99 55.6 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN055350.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055350.D (-1740) (-)

7.67

150000

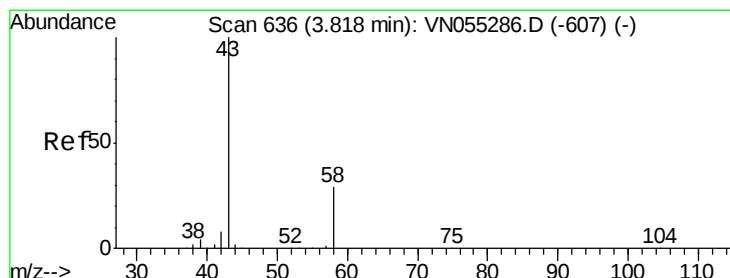
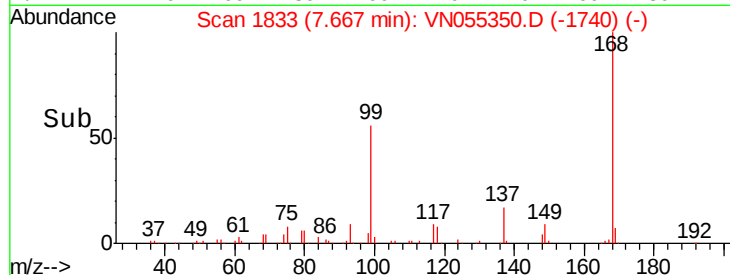
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 13.982 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055350.D

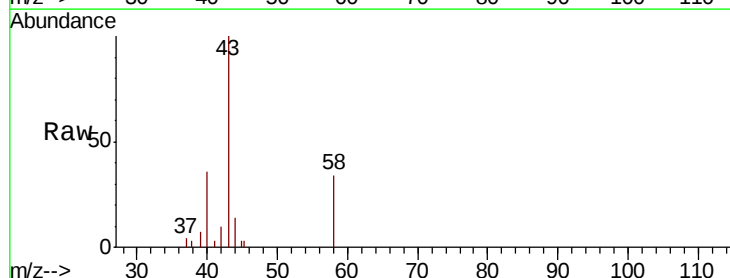
Acq: 2 May 2019 15:29

Tgt Ion: 43 Resp: 20064

Ion Ratio Lower Upper

43 100

58 34.4 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN055350.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VN055350.D (-543) (-)

3.83

8000

6000

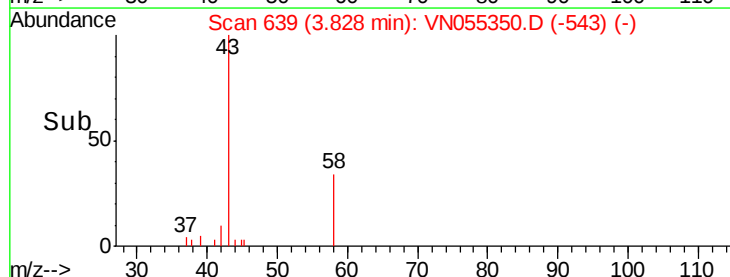
4000

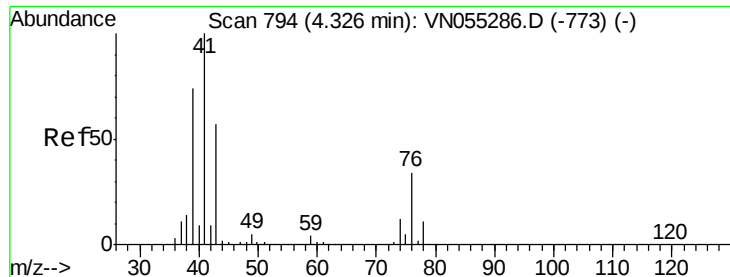
2000

0

3.75 3.80 3.85 3.90

Time-->

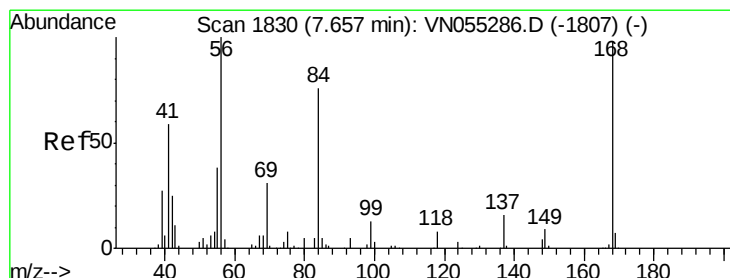
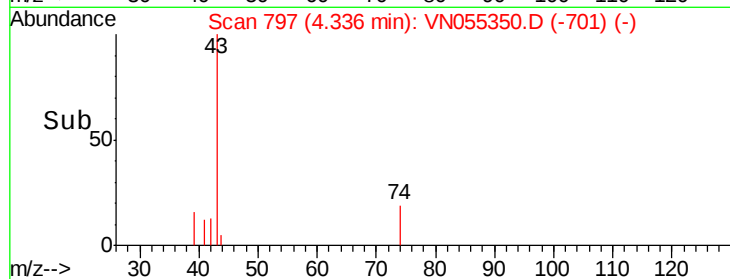
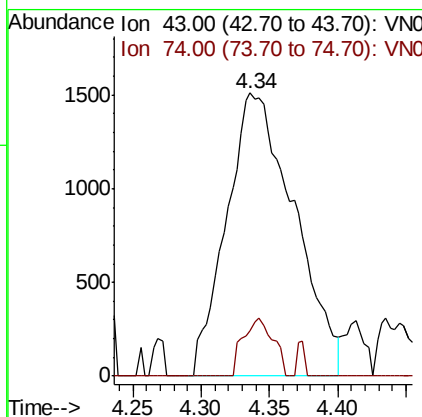
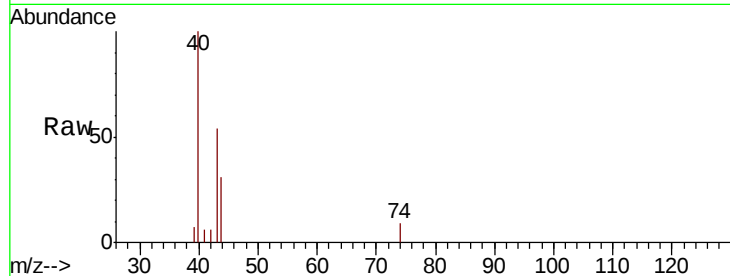




#18
Methyl Acetate
Concen: 0.460 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN055350.D
Acq: 2 May 2019 15:29

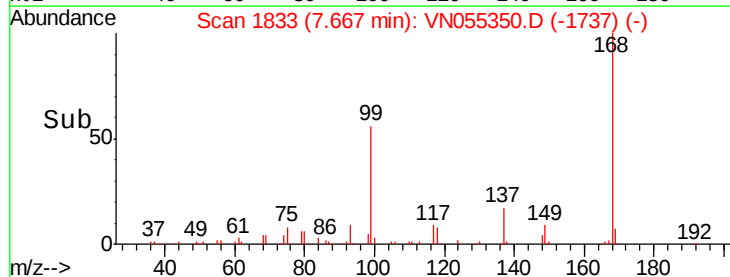
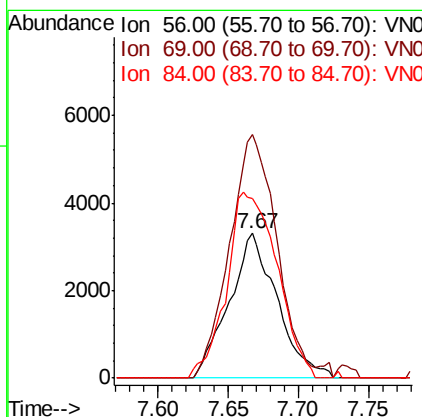
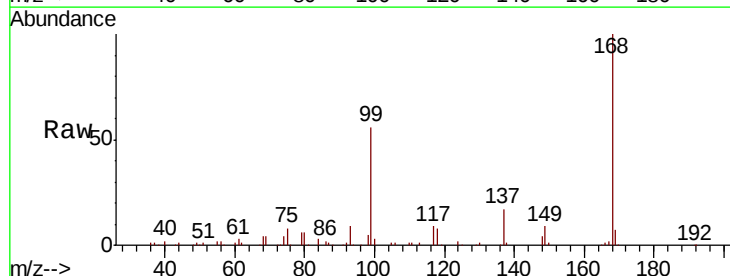
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

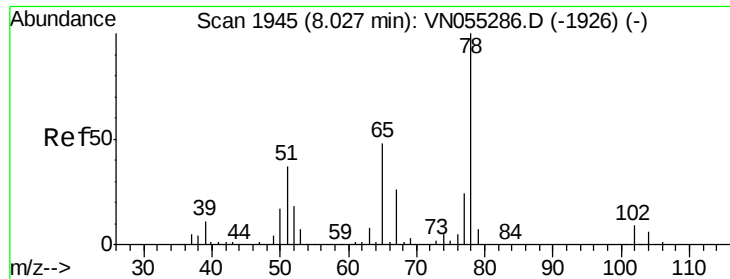
Tot Ion: 43 Resp: 5195
Ion Ratio Lower Upper
43 100
74 9.1 15.8 23.8#



#31
Cyclohexane
Concen: 1.086 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055350.D
Acq: 2 May 2019 15:29

Tgt Ion: 56 Resp: 7869
Ion Ratio Lower Upper
56 100
69 168.2 25.2 37.8#
84 123.7 61.1 91.7#





#33

1,2-Dichloroethane-d4

Concen: 53.464 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

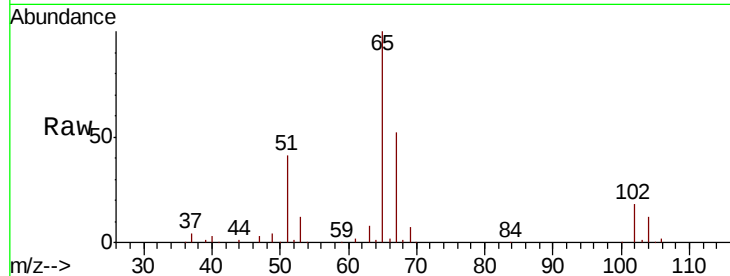
I.BLK

Tot Ion: 65 Resp: 246220

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VN055350.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055350.D (-1926) (-)

8.03

100000

80000

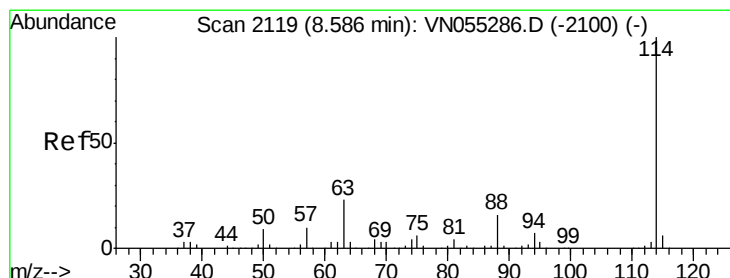
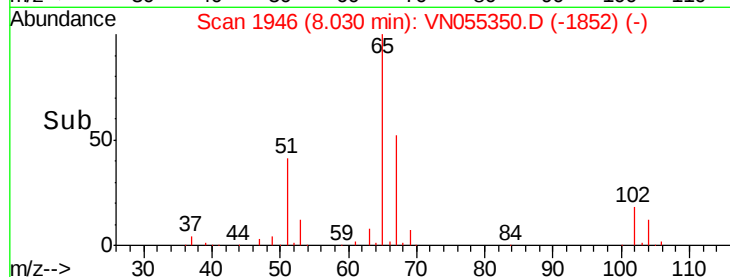
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

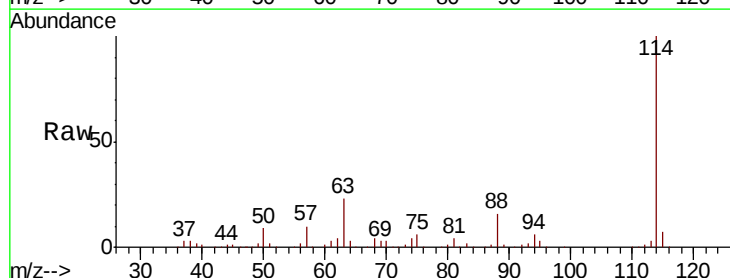
Tgt Ion: 114 Resp: 610303

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.2

88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN055350.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN055350.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN055350.D (-2100) (-)

8.59

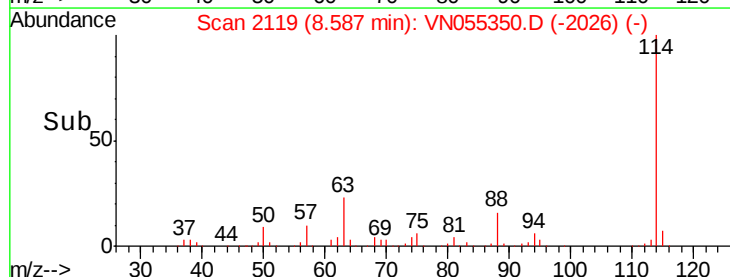
300000

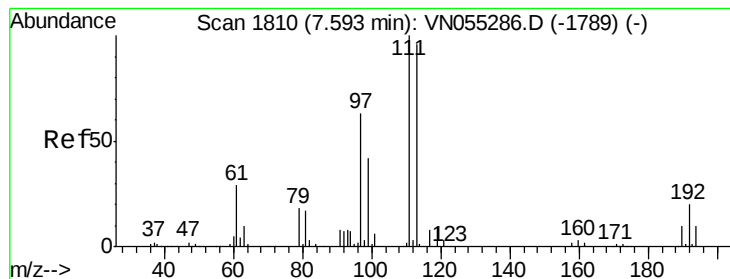
200000

100000

0

Time--> 8.50 8.60 8.70 8.80





#35

Dibromofluoromethane

Concen: 49.428 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

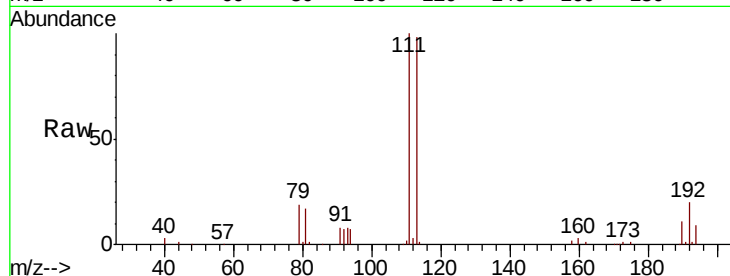
Tot Ion:113 Resp: 198000

Ion Ratio Lower Upper

113 100

111 101.9 82.3 123.5

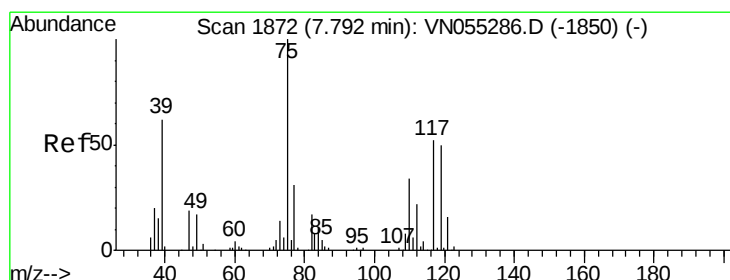
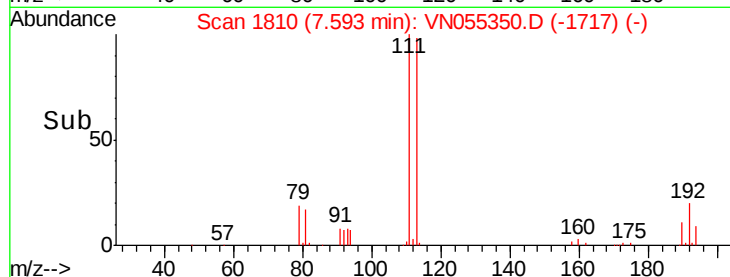
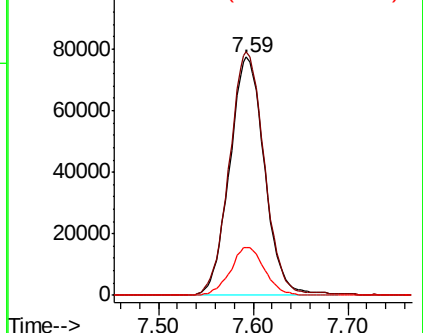
192 19.9 17.0 25.6



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: 4.641 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

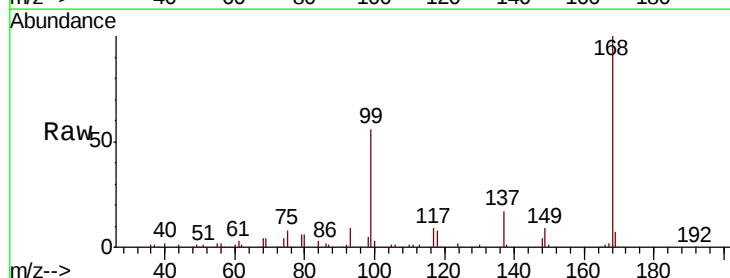
Tgt Ion: 75 Resp: 27131

Ion Ratio Lower Upper

75 100

110 7.5 16.8 50.4#

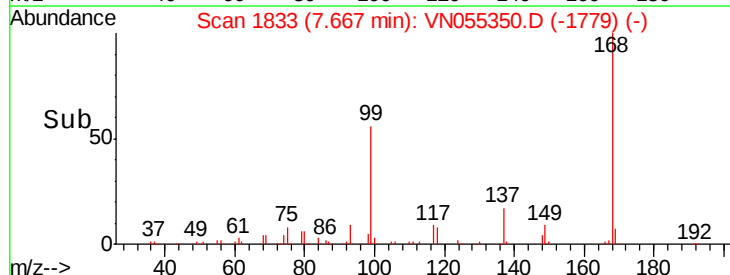
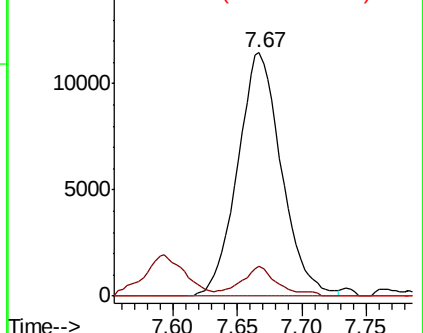
77 0.0 25.0 37.6#

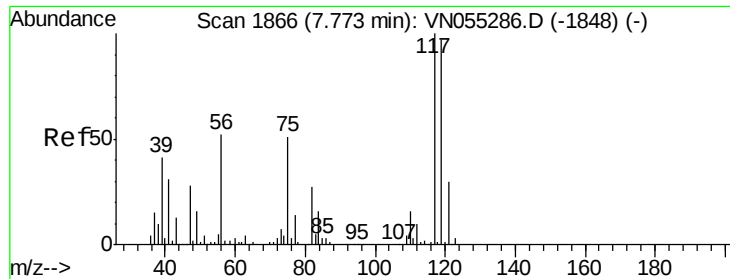


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.935 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

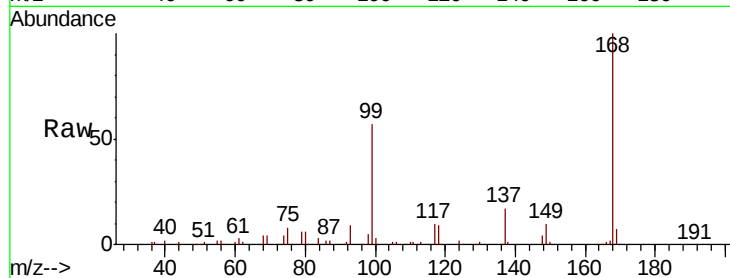
Tot Ion:117 Resp: 33469

Ion Ratio Lower Upper

117 100

119 4.8 77.0 115.6#

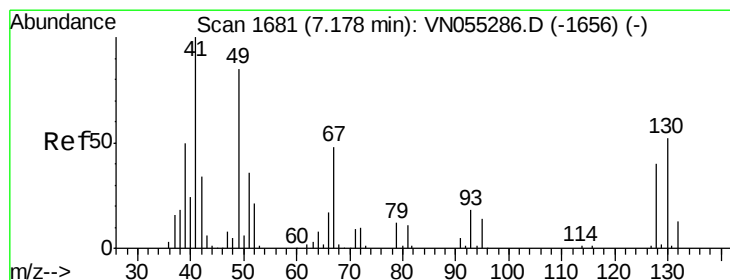
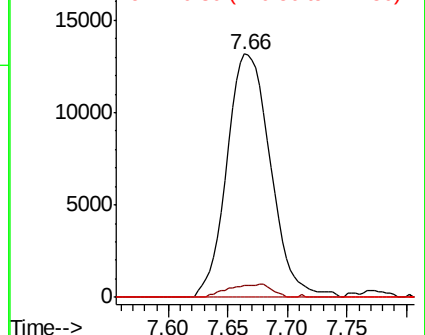
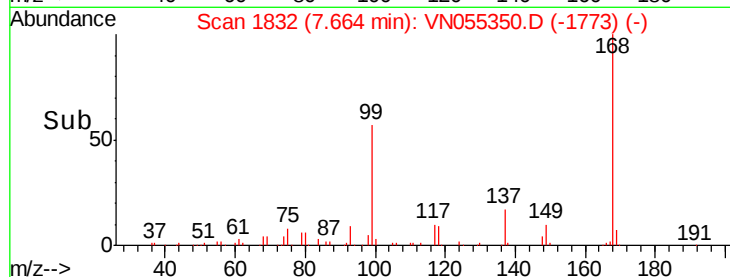
121 0.0 23.8 35.8#



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: 0.764 ug/l

RT: 7.31 min Scan# 1723

Delta R.T. 0.14 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Tgt Ion: 41 Resp: 60

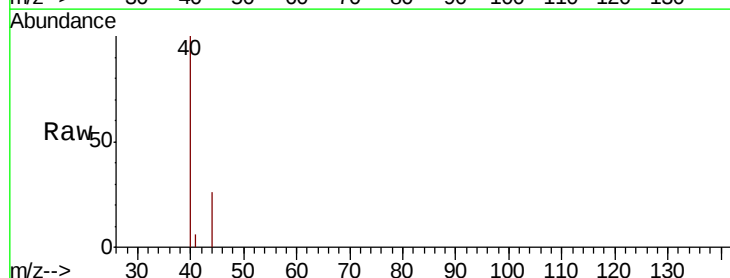
Ion Ratio Lower Upper

41 100

39 106.7 48.5 72.7#

67 0.0 54.9 82.3#

52 0.0 24.9 37.3#

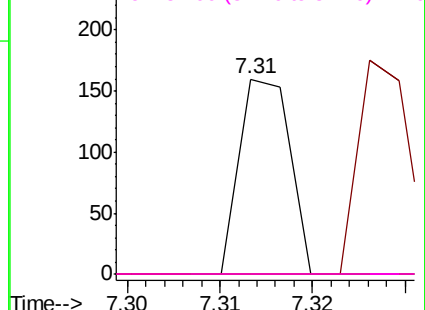
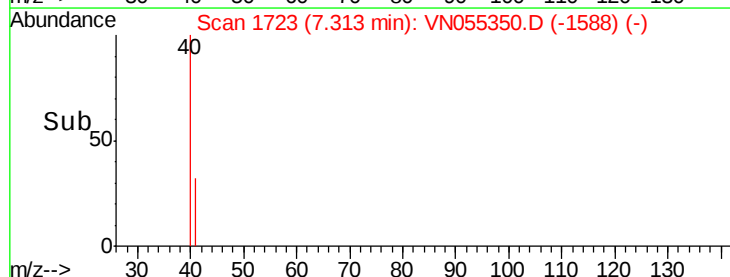


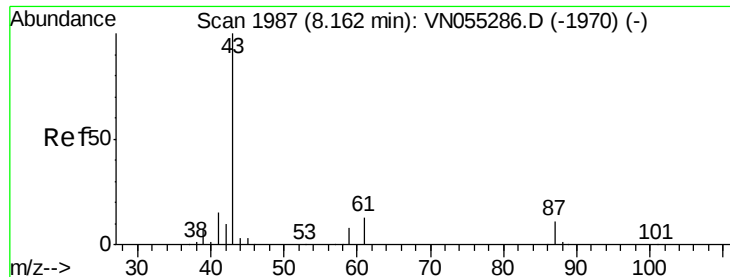
Abundance Ion 41.00 (40.70 to 41.70): V

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





#43

Isopropyl Acetate

Concen: 4.091 ug/l

RT: 8.25 min Scan# 2014

Delta R.T. 0.09 min

Lab File: VN055350.D

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I.BLK

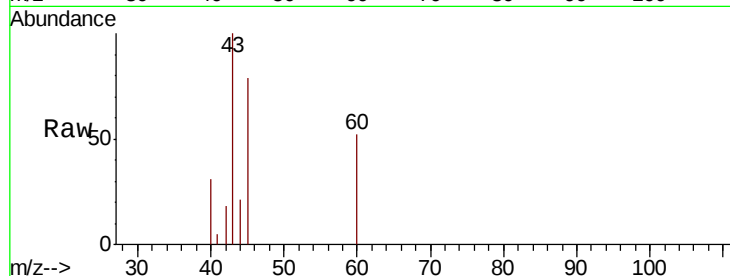
Tot Ion: 43 Resp: 29456

Ion Ratio Lower Upper

43 100

61 0.0 20.8 31.2#

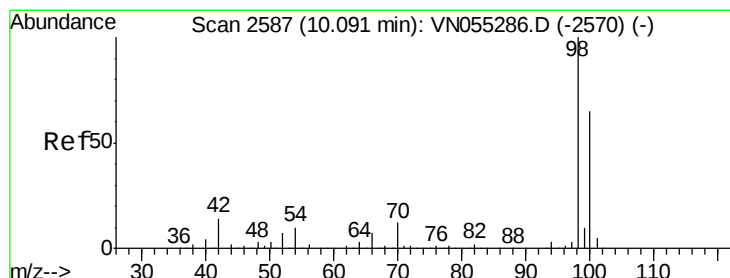
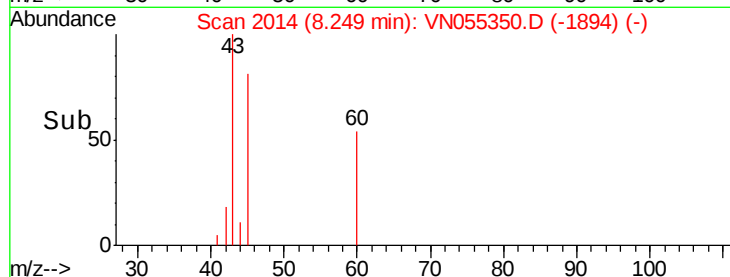
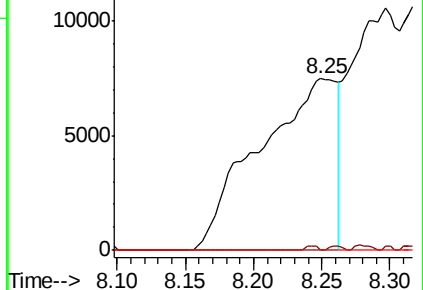
87 0.0 8.5 12.7#



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: 51.367 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055350.D

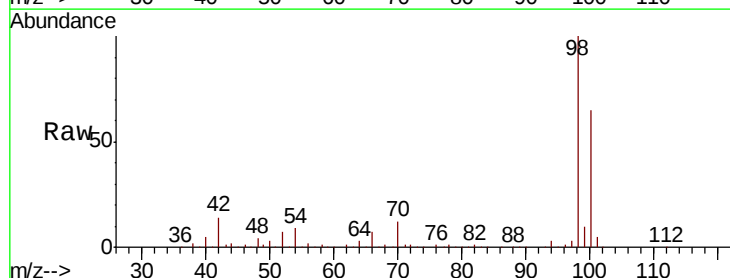
Acq: 2 May 2019 15:29

Tgt Ion: 98 Resp: 743004

Ion Ratio Lower Upper

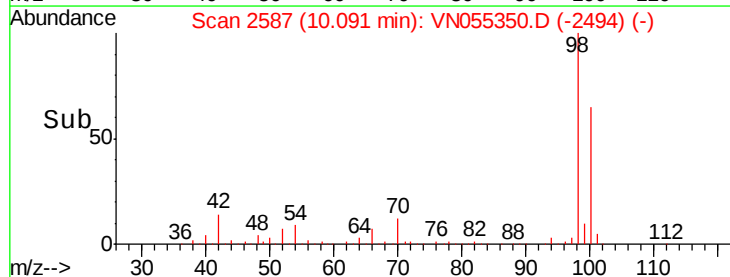
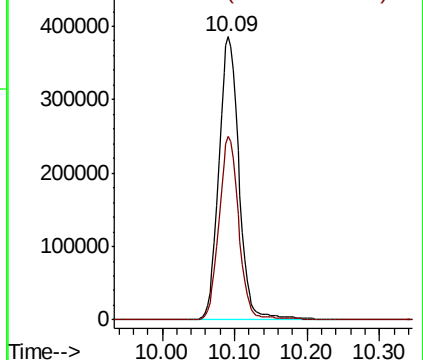
98 100

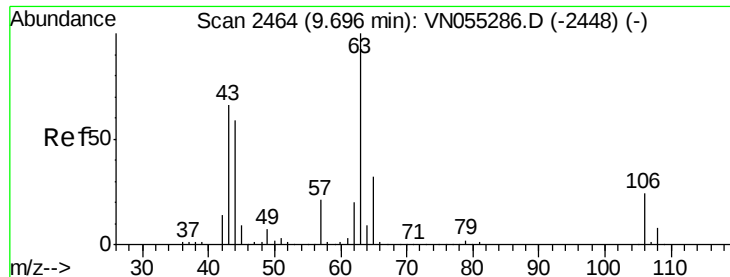
100 63.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 12.452 ug/l

RT: 9.54 min Scan# 2416

Delta R.T. -0.15 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

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ClientSampleId :

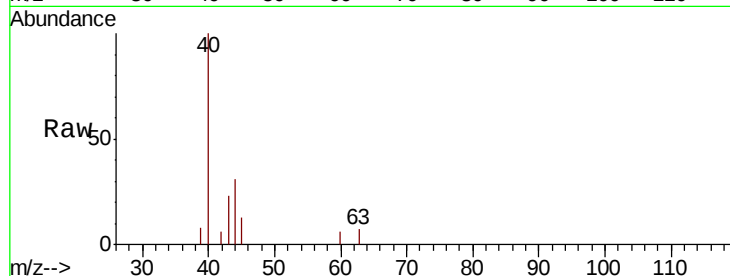
I.BLK

Tot Ion: 63 Resp: 69

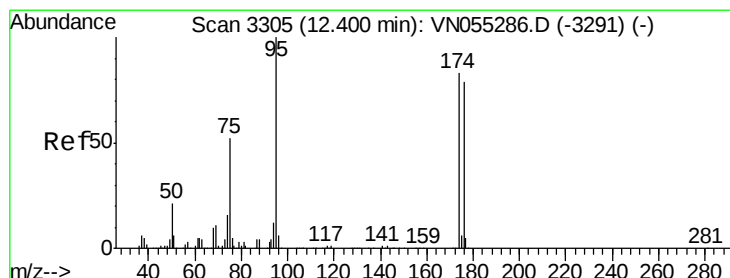
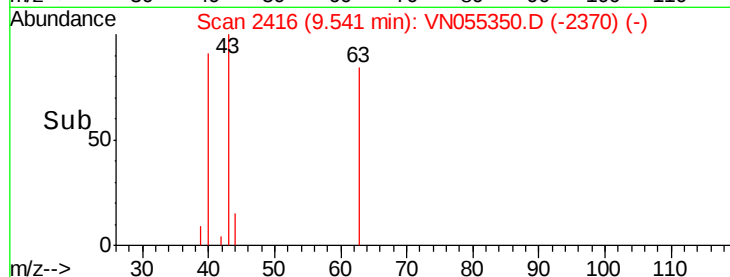
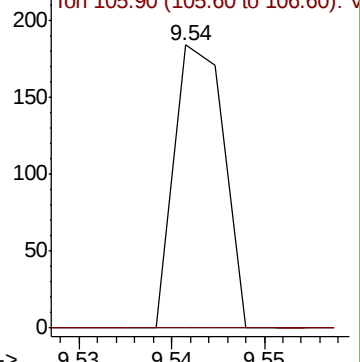
Ion Ratio Lower Upper

63 100

106 0.0 19.0 28.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0



#62

4-Bromofluorobenzene

Concen: 51.258 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

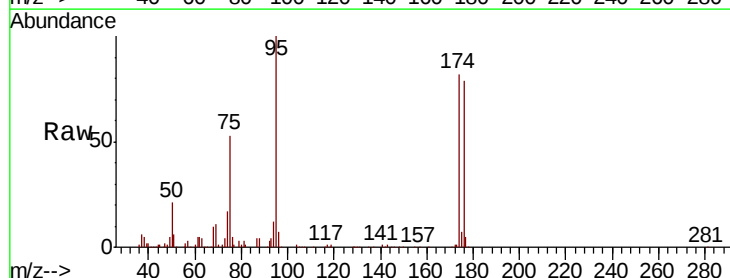
Tgt Ion: 95 Resp: 231722

Ion Ratio Lower Upper

95 100

174 82.0 0.0 166.6

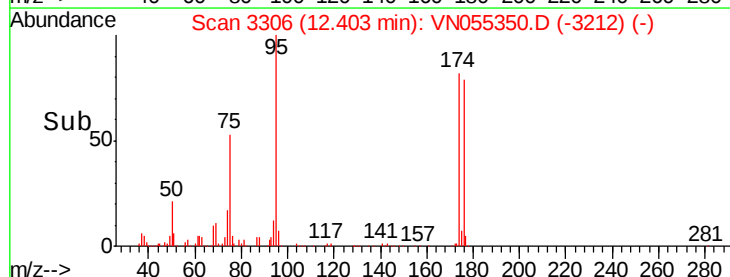
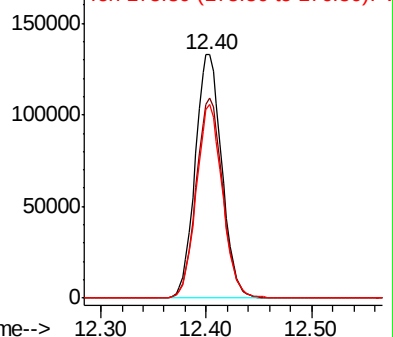
176 78.0 0.0 157.8

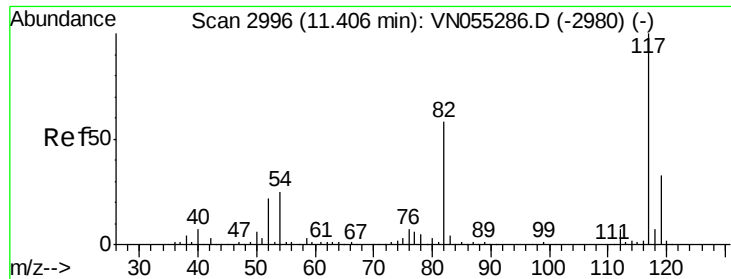


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

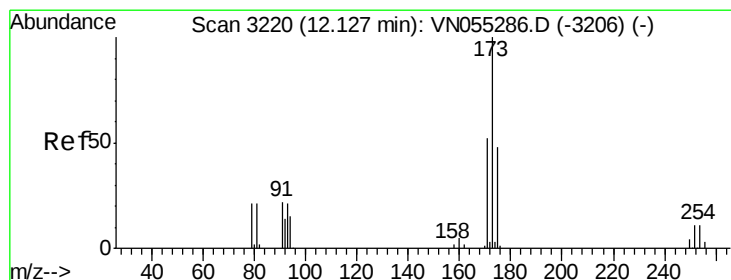
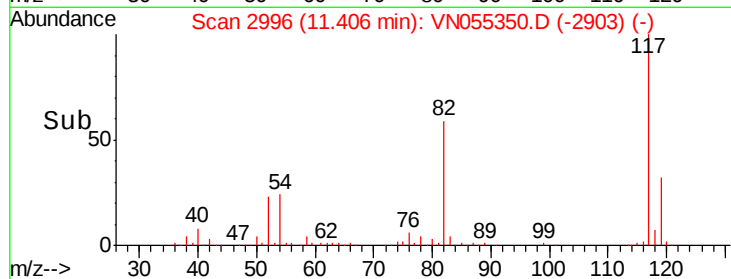
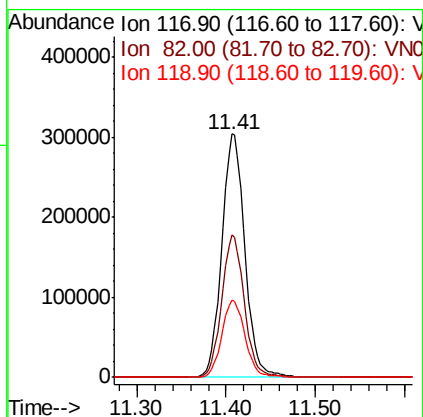
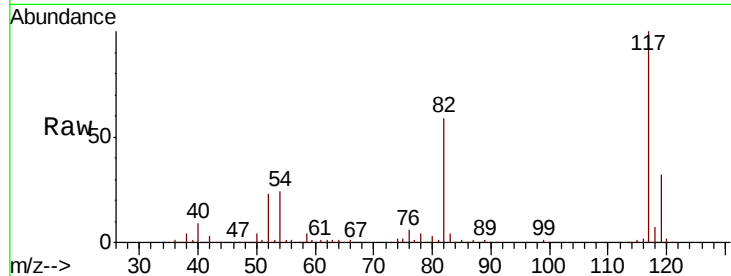




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055350.D
Acq: 2 May 2019 15:29

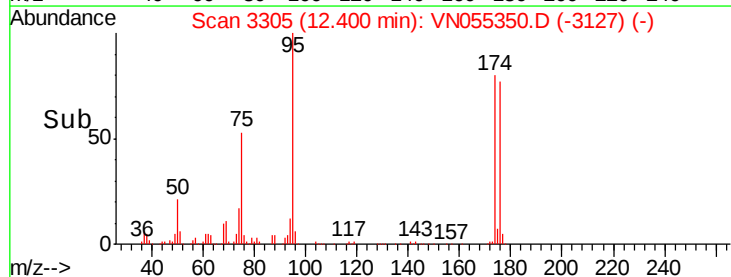
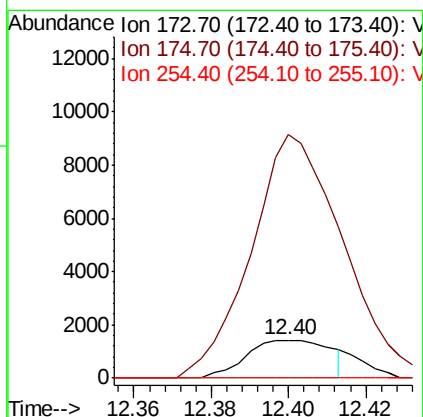
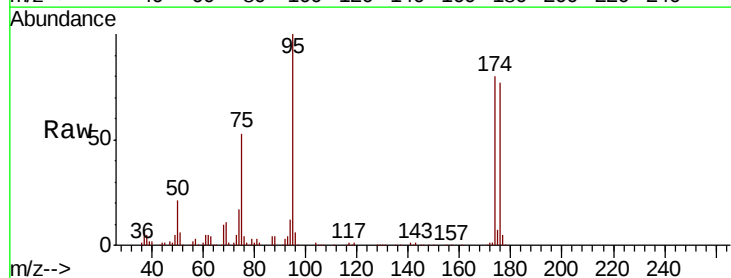
Instrument :
MSVOA_N
ClientSampled :
I.BLK

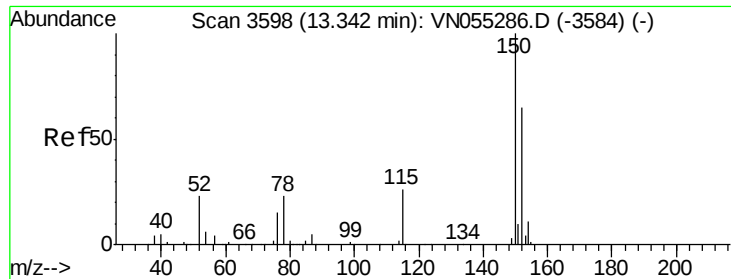
Tot Ion:117 Resp: 542725
Ion Ratio Lower Upper
117 100
82 58.5 46.2 69.4
119 31.7 26.6 40.0



#71
Bromoform
Concen: 0.941 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055350.D
Acq: 2 May 2019 15:29

Tgt Ion:173 Resp: 2170
Ion Ratio Lower Upper
173 100
175 586.3 23.6 71.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampled :

I.BLK

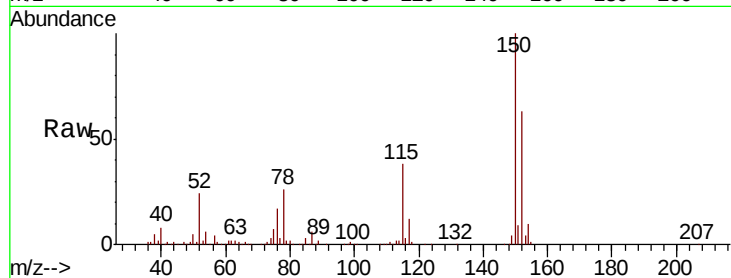
Tot Ion:152 Resp: 154525

Ion Ratio Lower Upper

152 100

115 59.7 29.0 87.0

150 157.6 0.0 345.6

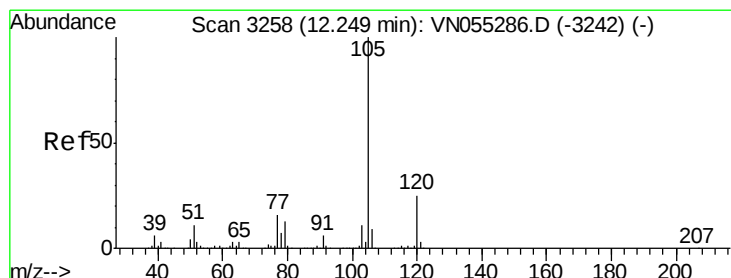
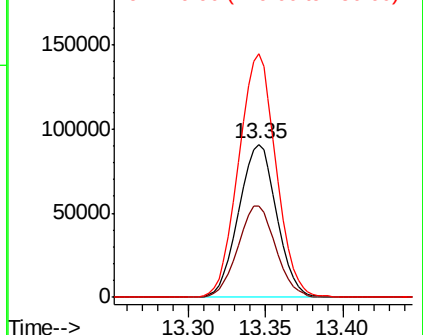
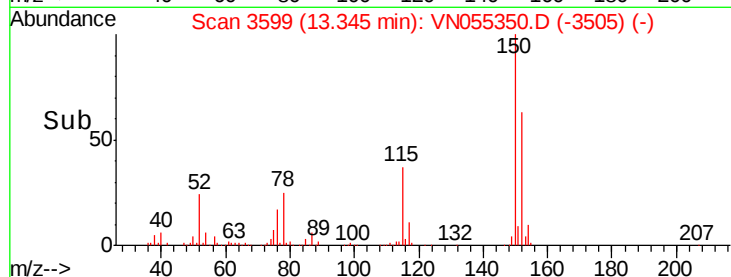


Abundance

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: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055350.D

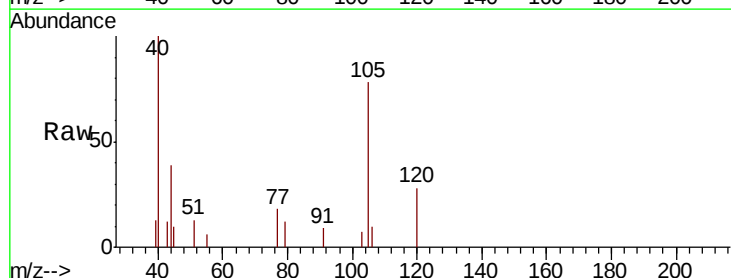
Acq: 2 May 2019 15:29

Tgt Ion:105 Resp: 3033

Ion Ratio Lower Upper

105 100

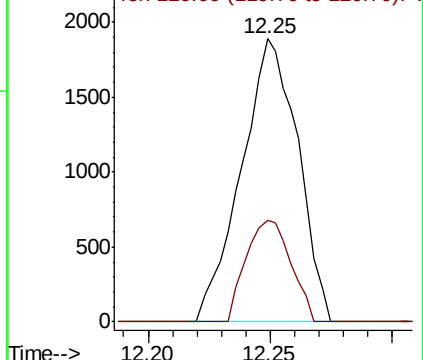
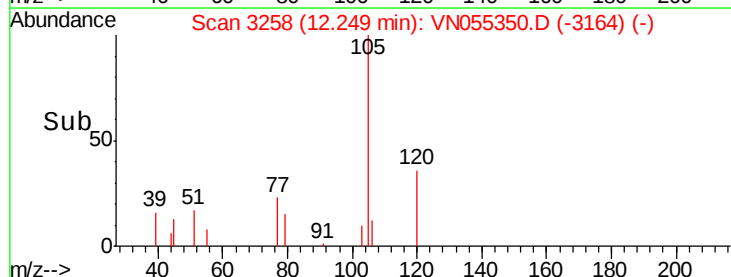
120 28.6 12.9 38.7

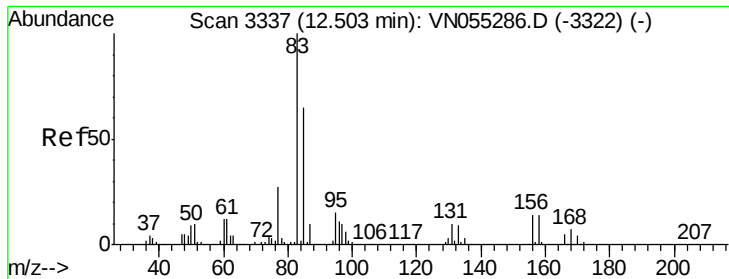


Abundance

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: 12.56 min Scan# 3355

Delta R.T. 0.06 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampled :

I.BLK

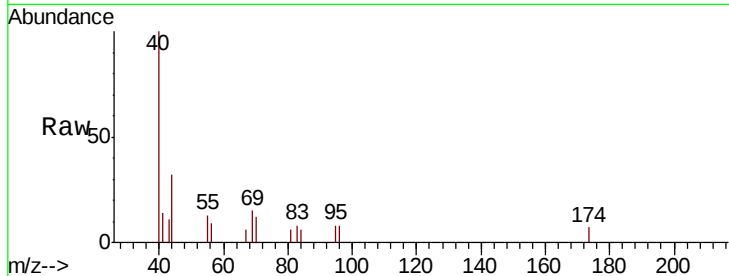
Tot Ion: 83 Resp: 109

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.2#

85 0.0 32.3 96.8#



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

12.56

200

150

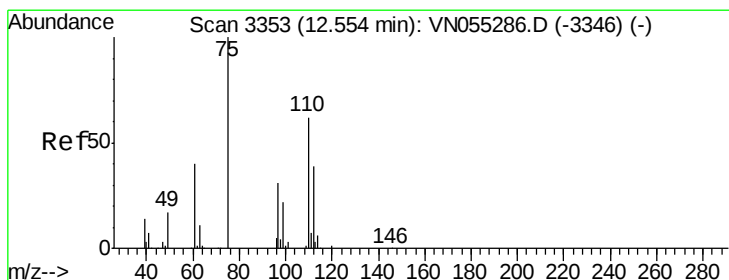
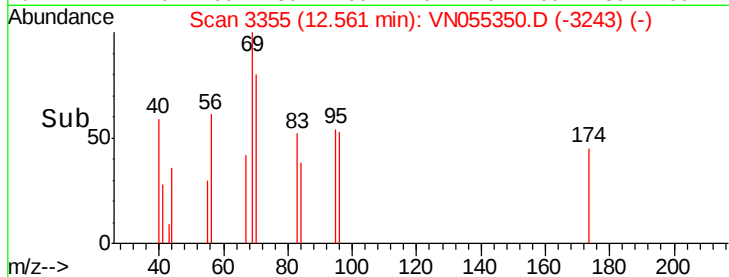
100

50

0

12.55 12.56 12.57

Time-->



#76

1,2,3-Trichloropropane

Concen: 41.755 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN055350.D

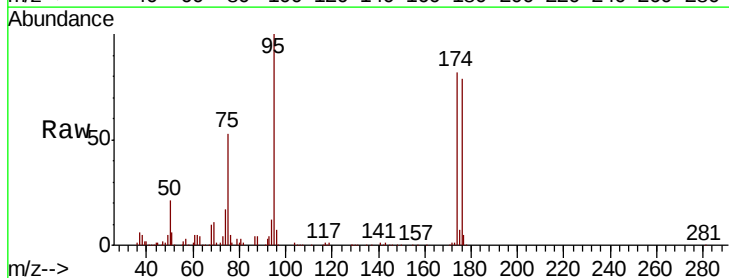
Acq: 2 May 2019 15:29

Tgt Ion: 75 Resp: 121123

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

80000

60000

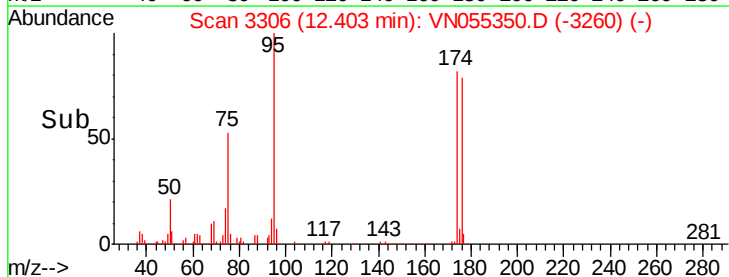
40000

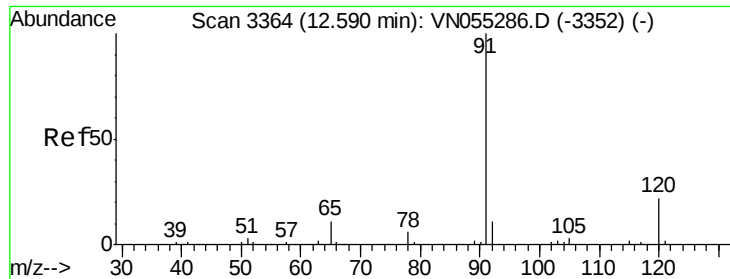
20000

0

12.35 12.40 12.45 12.50

Time-->





#78

n-propylbenzene

Concen: 0.224 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampled :

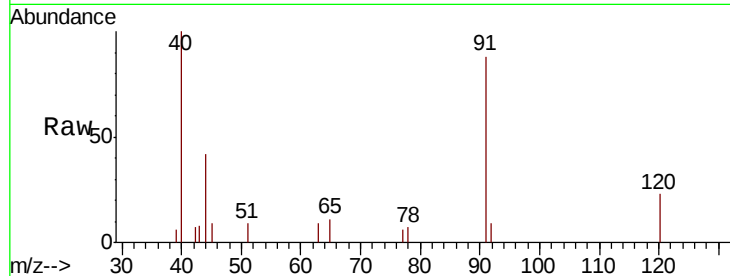
I.BLK

Tot Ion: 91 Resp: 3551

Ion Ratio Lower Upper

91 100

120 21.3 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

2500

2000

1500

1000

500

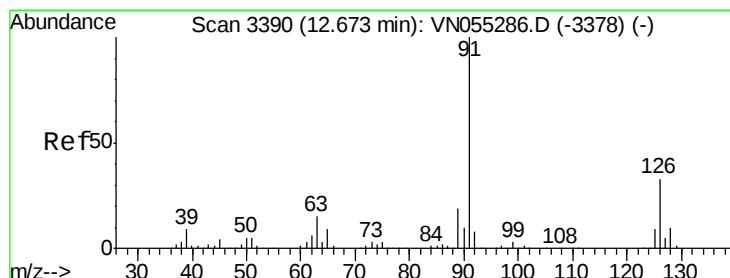
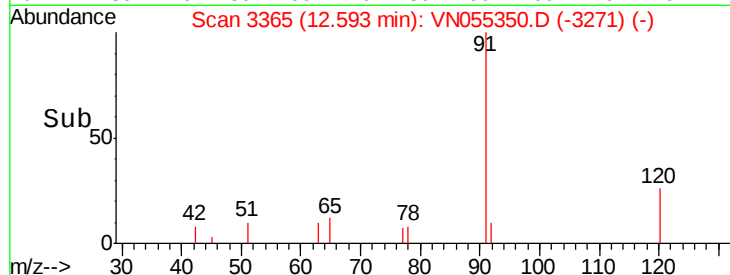
0

Time-->

12.55

12.60

12.65



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.69 min Scan# 3395

Delta R.T. 0.02 min

Lab File: VN055350.D

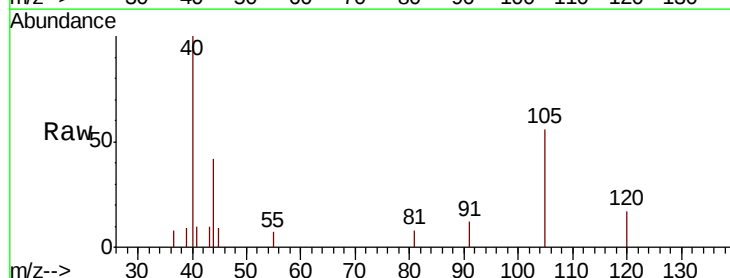
Acq: 2 May 2019 15:29

Tgt Ion: 91 Resp: 245

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

300

250

200

150

100

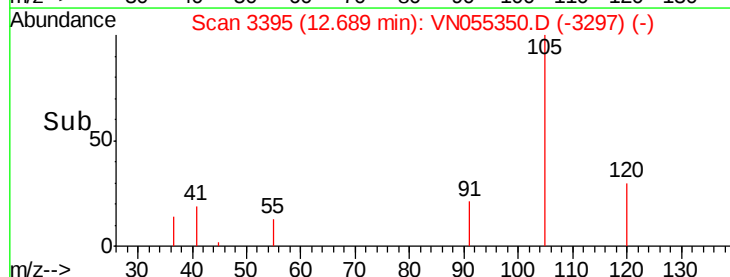
50

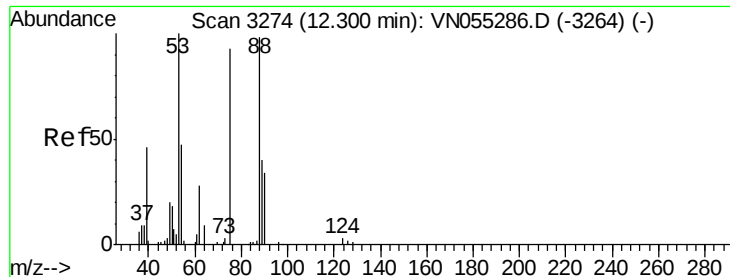
0

Time-->

12.68

12.70





#81

trans-1,4-Dichloro-2-butene

Concen: 148.543 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

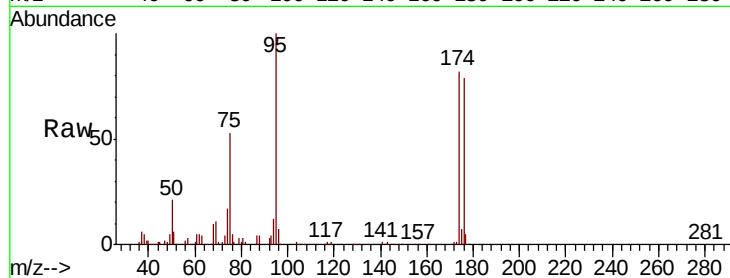
Tot Ion: 75 Resp: 121123

Ion Ratio Lower Upper

75 100

53 0.0 86.3 129.5#

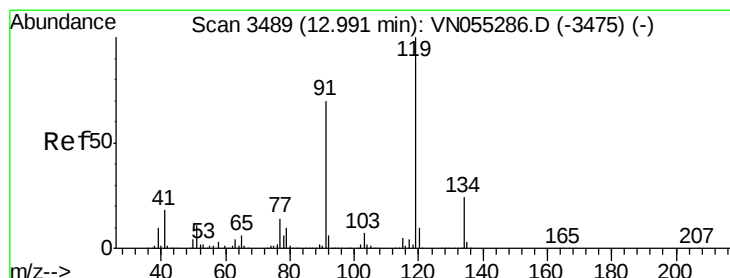
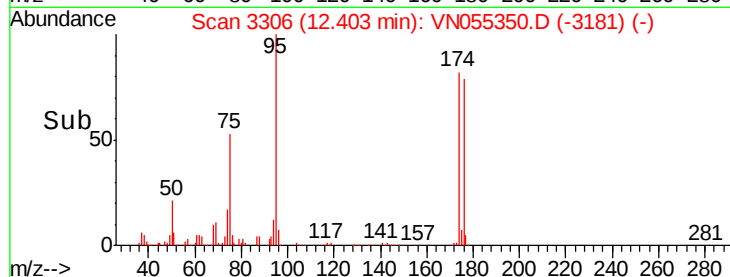
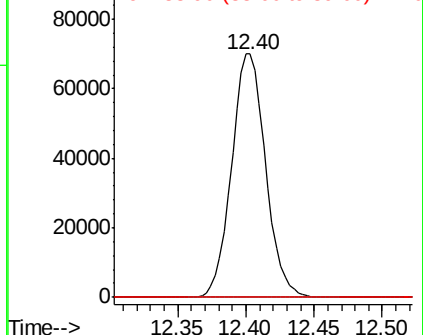
89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055350.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN055350.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN055350.D (-3306) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

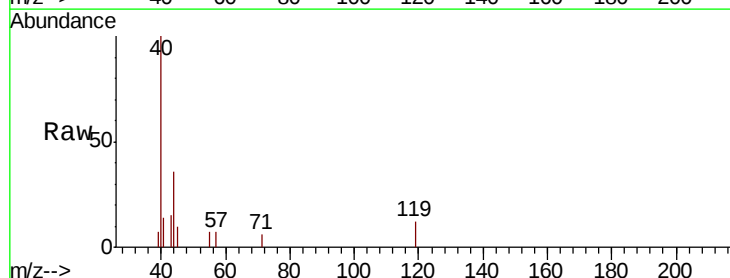
Tgt Ion: 119 Resp: 373

Ion Ratio Lower Upper

119 100

91 48.3 34.3 102.9

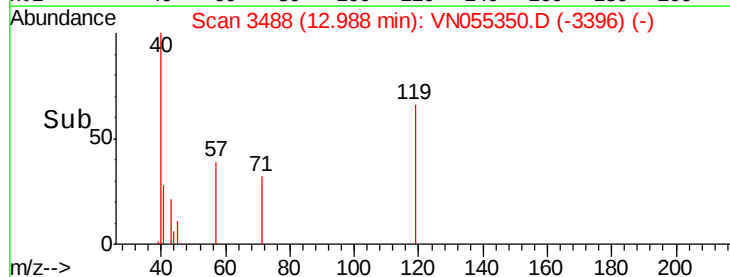
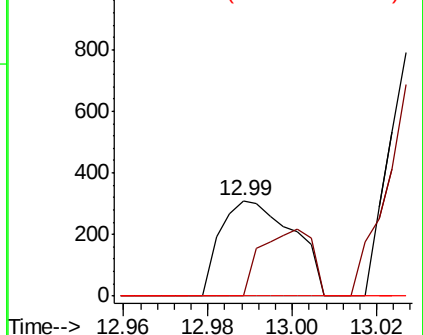
134 0.0 13.1 39.3#

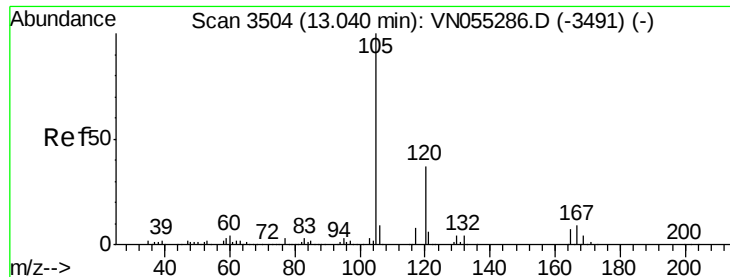


Abundance Ion 119.00 (118.70 to 119.70): VN055350.D (-3488) (-)

Ion 91.00 (90.70 to 91.70): VN055350.D (-3488) (-)

Ion 134.00 (133.70 to 134.70): VN055350.D (-3488) (-)





#84

1,2,4-Trimethylbenzene

Concen: 2.018 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

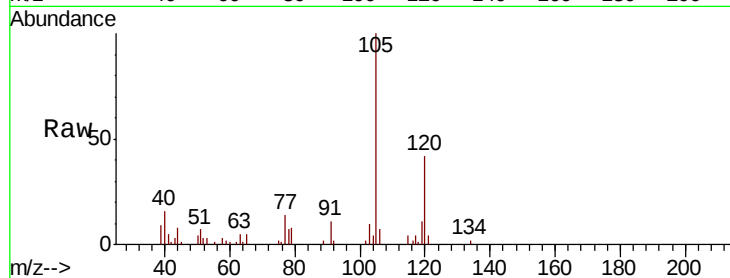
I.BLK

Tot Ion:105 Resp: 21868

Ion Ratio Lower Upper

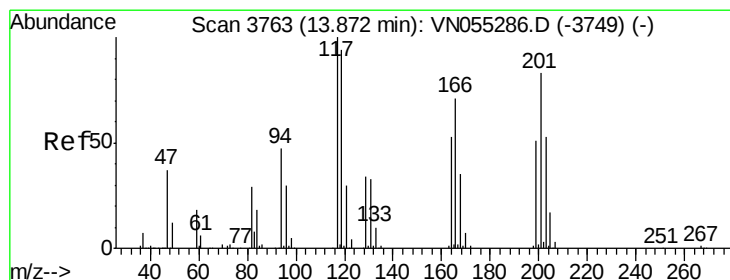
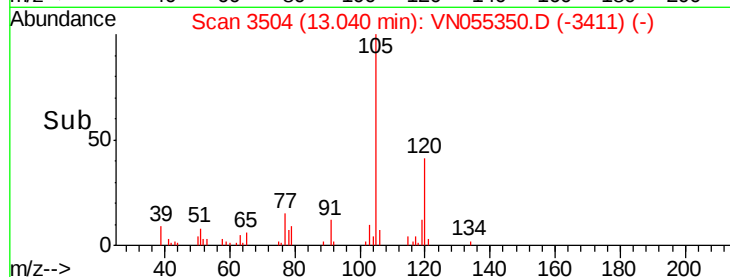
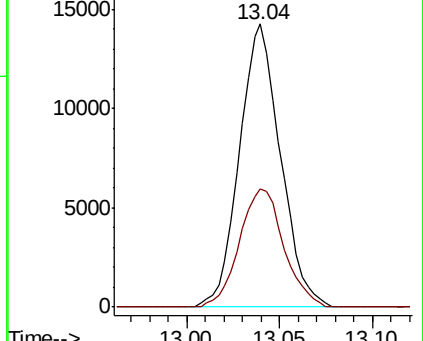
105 100

120 44.9 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VN055350.D

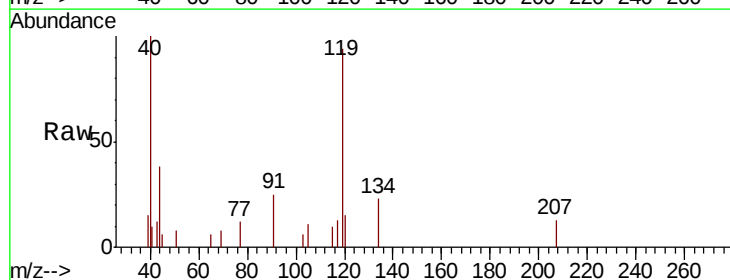
Acq: 2 May 2019 15:29

Tgt Ion:117 Resp: 270

Ion Ratio Lower Upper

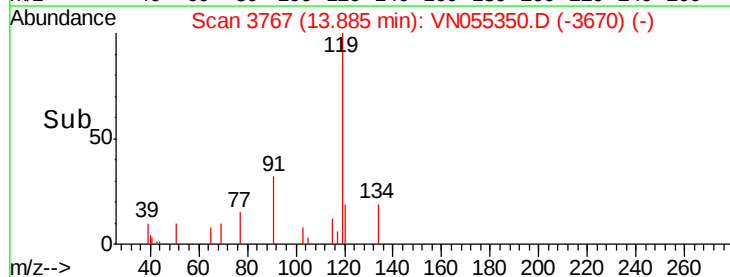
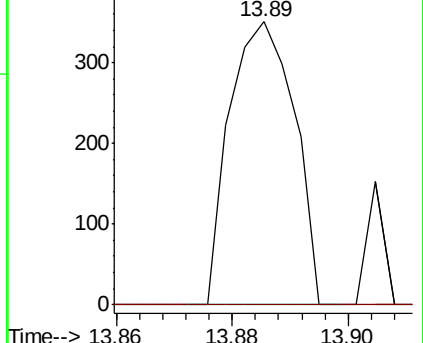
117 100

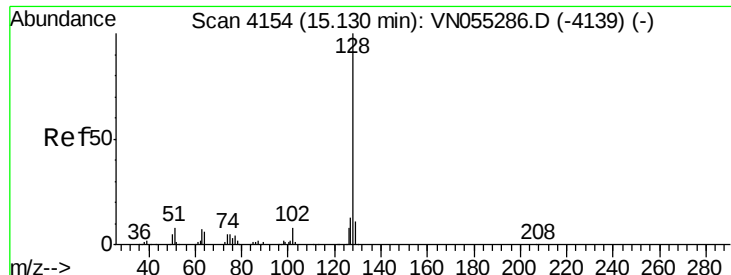
201 0.0 41.9 125.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 3.492 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055350.D

Acq: 2 May 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

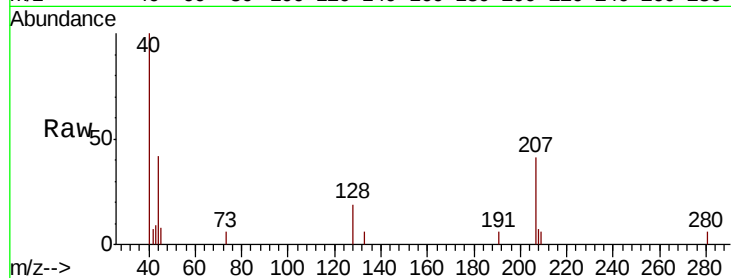
Tot Ion:128 Resp: 753

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

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

