

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
 Data File : VN052357.D
 Acq On : 16 Nov 2018 11:54
 Operator : MD\SY
 Sample : J5971-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(NOV)

Quant Time: Nov 16 22:35:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	41059	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	240576	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	206956	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	105802	34.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	115.73%
60) 4-Bromofluorobenzene	12.40	95	88491	26.73	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.10%
63) Toluene-d8	10.09	98	295631	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

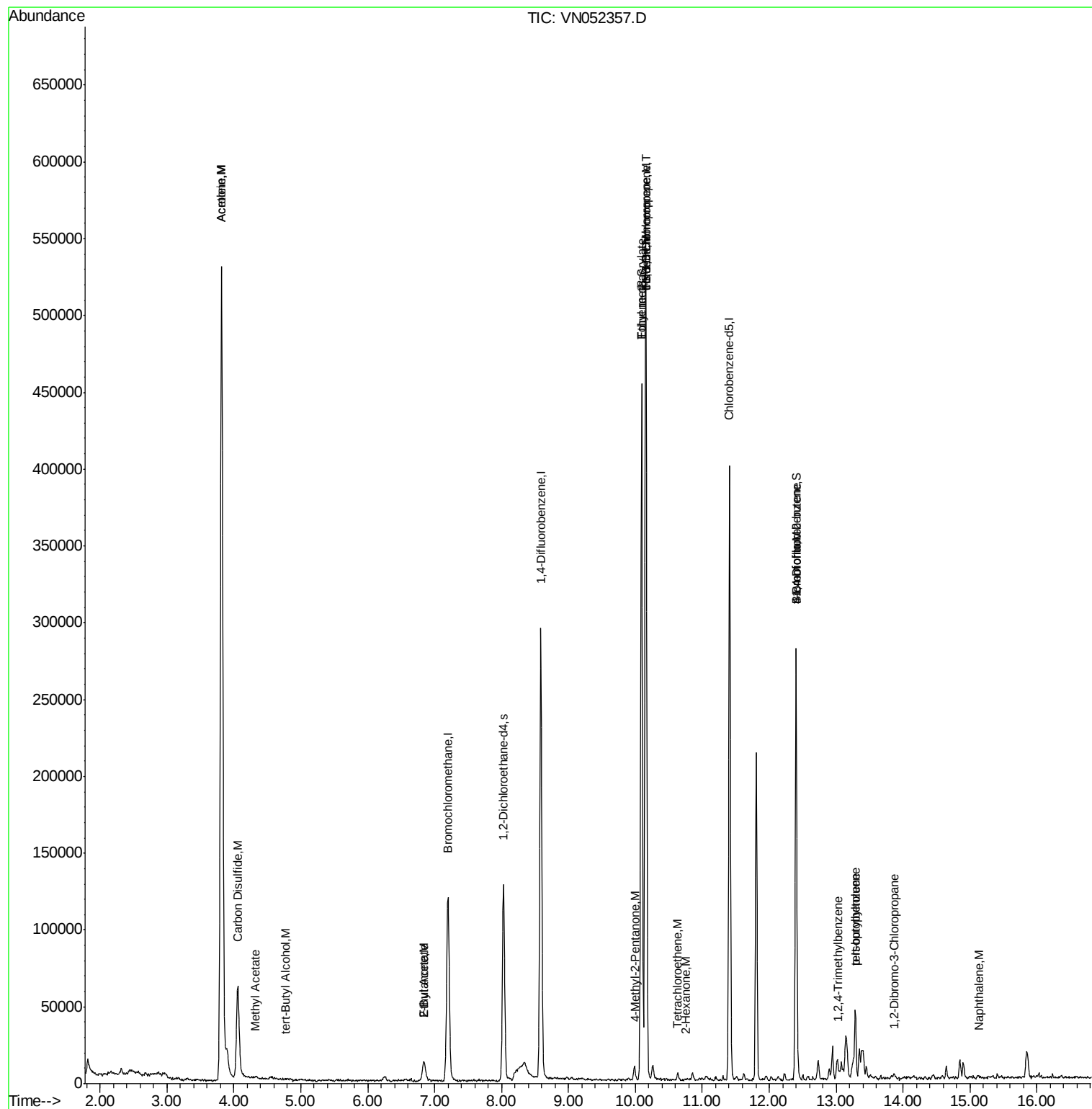
					Ovalue
12) Methyl Acetate	4.32	43	429	0.224	ug/l # 87
13) Acrolein	3.81	56	286	1.411	ug/l # 1
15) Acetone	3.82	58	249235	1244.240	ug/l # 63
16) Carbon Disulfide	4.07	76	5146	0.768	ug/l # 76
23) tert-Butyl Alcohol	4.78	59	216	1.636	ug/l # 99
30) 2-Butanone	6.84	43	20779	20.428	ug/l # 80
43) Ethyl Acetate	6.84	43	20779	4.065	ug/l # 91
48) t-1,3-Dichloropropene	10.15	75	3383	0.907	ug/l # 1
49) cis-1,3-Dichloropropene	10.15	75	3383	0.786	ug/l # 1
51) Ethyl methacrylate	10.09	69	1031	0.329	ug/l 84
56) Bromoform	12.40	173	952	0.629	ug/l # 1
58) 4-Methyl-2-Pentanone	9.99	43	6900	3.111	ug/l 95
59) 2-Hexanone	10.76	43	688	0.451	ug/l # 44
61) Tetrachloroethene	10.63	164	760	0.338	ug/l # 69
62) Toluene	10.16	91	407060	35.038	ug/l 100
77) t-1,4-Dichloro-2-butene	12.40	75	50369	67.316	ug/l # 9
79) tert-butylbenzene	13.29	119	18199	2.107	ug/l 64
80) 1,2,4-Trimethylbenzene	13.04	105	2073	0.210	ug/l 91
82) p-Isopropyltoluene	13.29	119	18199	1.812	ug/l 96
88) 1,2-Dibromo-3-Chloropropan	13.87	75	102	0.274	ug/l # 6
91) Naphthalene	15.13	128	1423	0.330	ug/l # 75

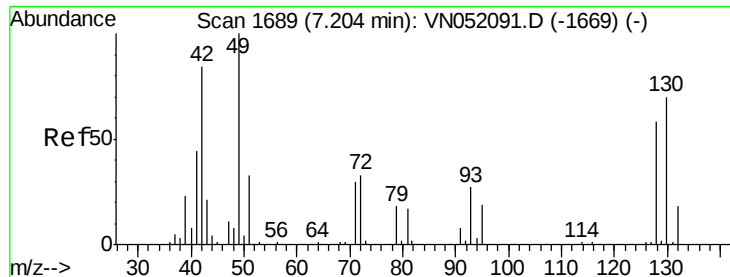
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 02 05:39:38 2018
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(NOV)

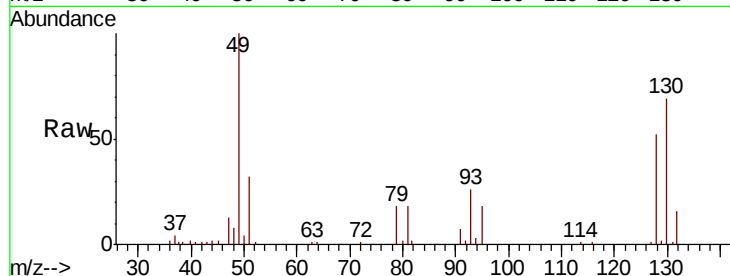
Tot Ion:128 Resp: 41059

Ion Ratio Lower Upper

128 100

49 208.1 0.0 453.7

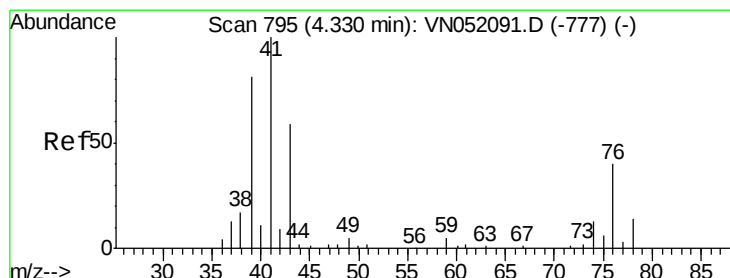
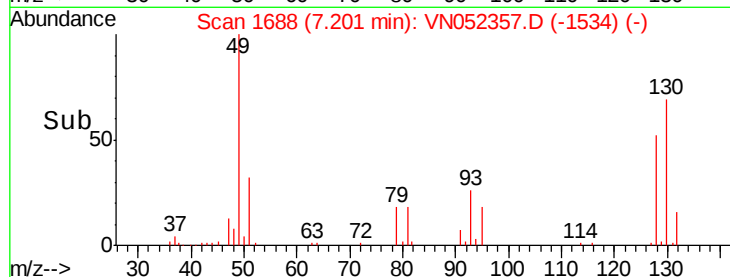
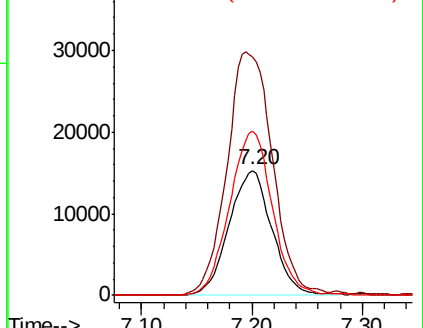
130 131.3 0.0 308.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.224 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.01 min

Lab File: VN052357.D

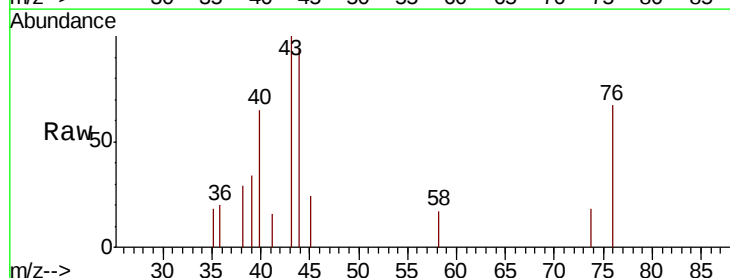
Acq: 16 Nov 2018 11:54

Tgt Ion: 43 Resp: 429

Ion Ratio Lower Upper

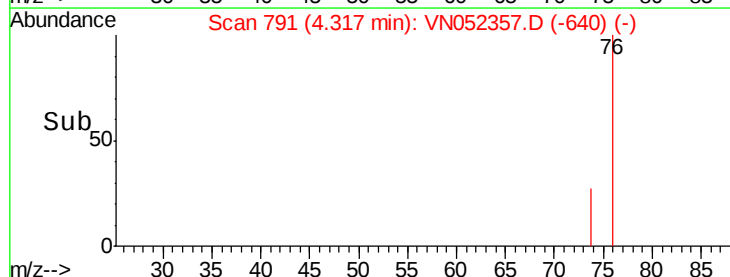
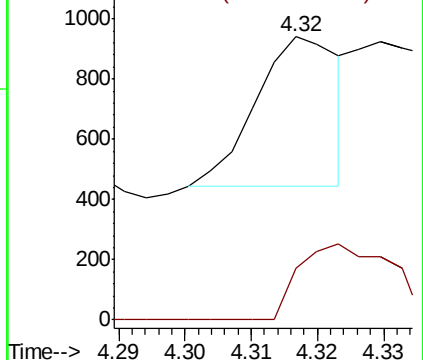
43 100

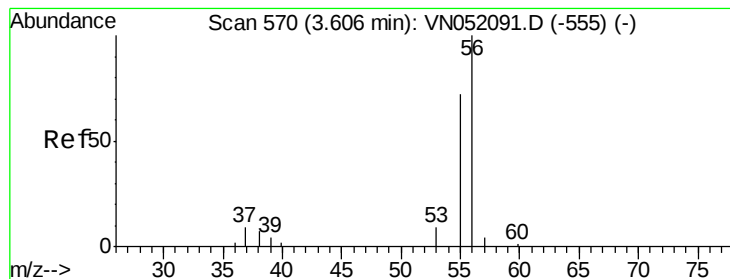
74 15.6 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 1.411 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.21 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

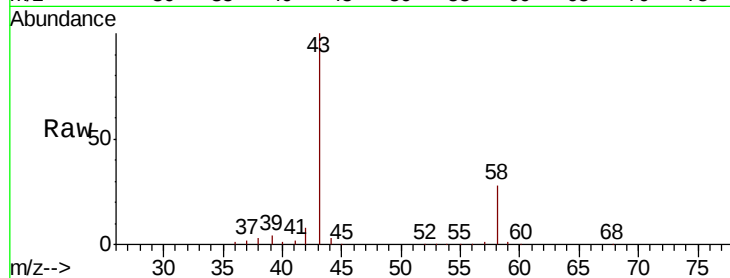
002M-35TH-AVE(NOV)

Tot Ion: 56 Resp: 286

Ion Ratio Lower Upper

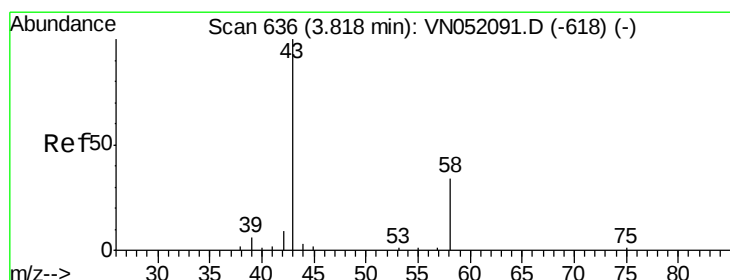
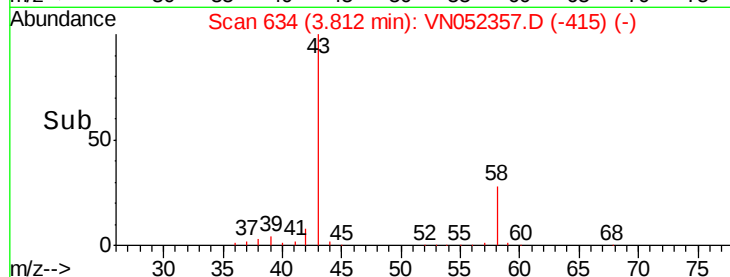
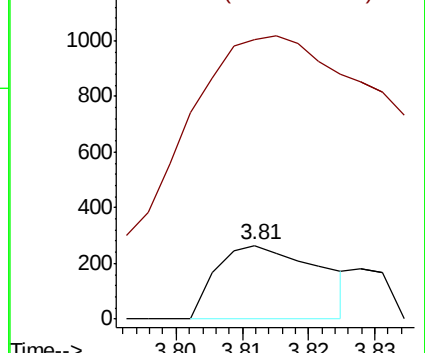
56 100

55 968.2 56.2 84.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 1244.240 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052357.D

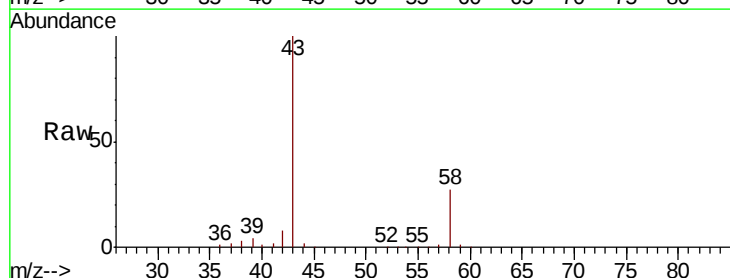
Acq: 16 Nov 2018 11:54

Tgt Ion: 58 Resp: 249235

Ion Ratio Lower Upper

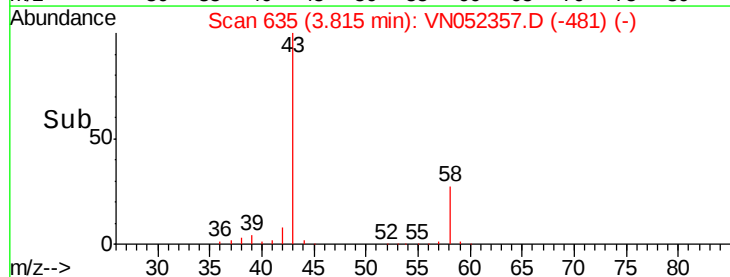
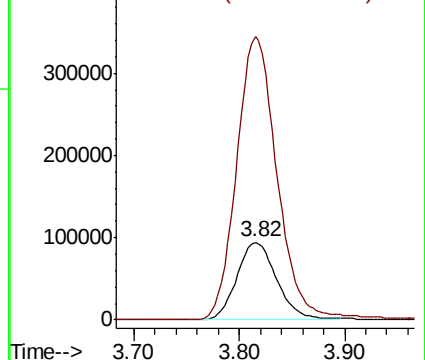
58 100

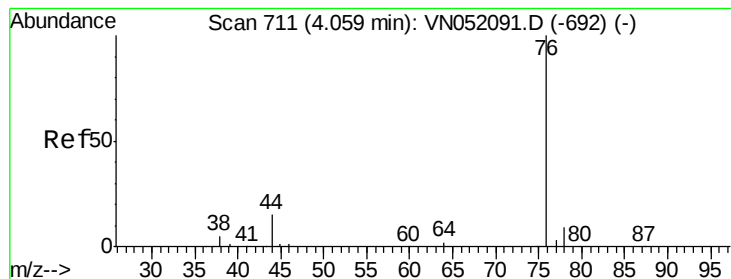
43 364.8 234.7 352.1#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#16

Carbon Disulfide

Concen: 0.768 ug/l

RT: 4.07 min Scan# 713

Delta R.T. 0.01 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

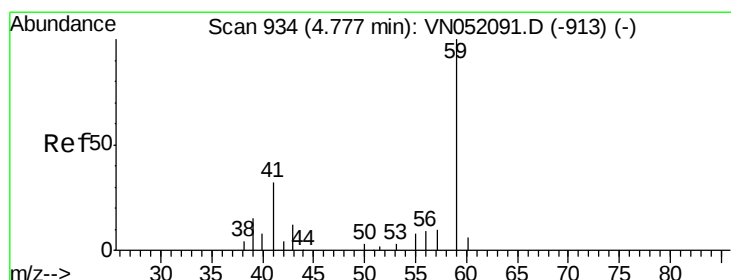
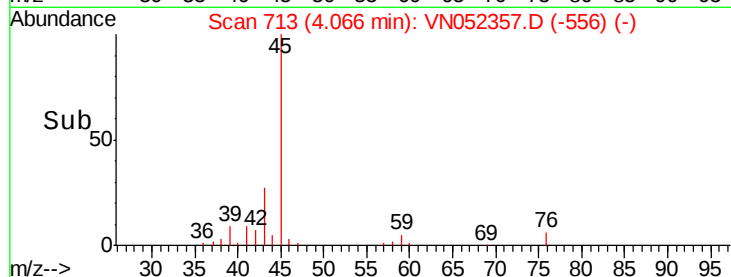
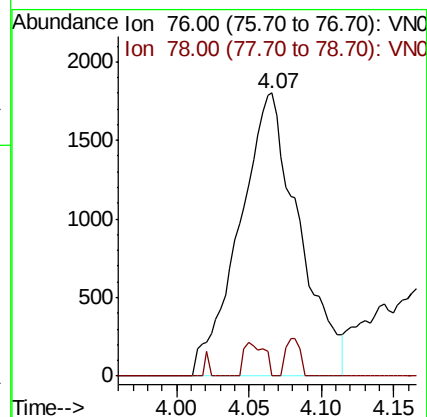
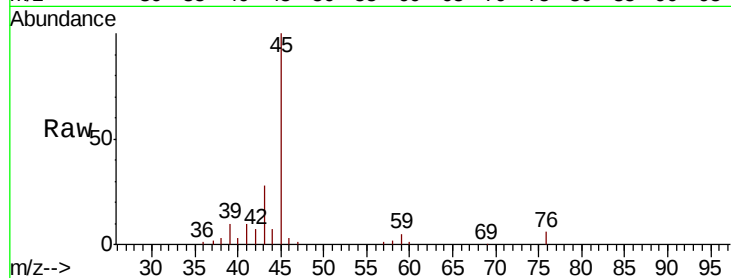
002M-35TH-AVE(NOV)

Tot Ion: 76 Resp: 5146

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#23

tert-Butyl Alcohol

Concen: 1.636 ug/l

RT: 4.78 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN052357.D

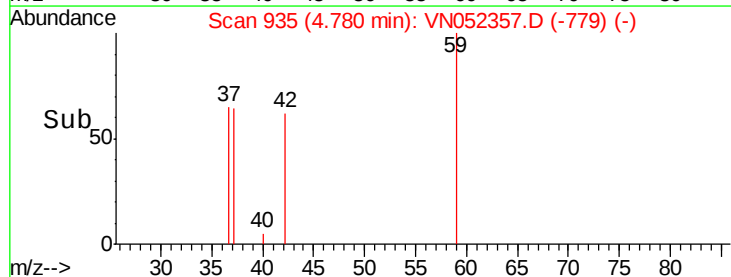
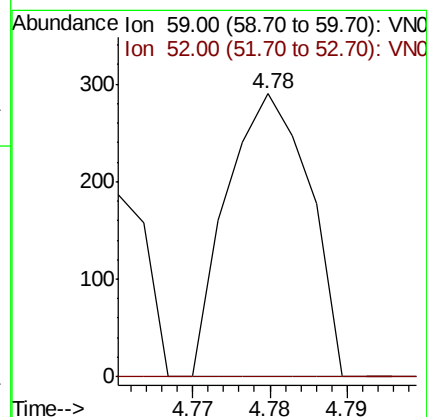
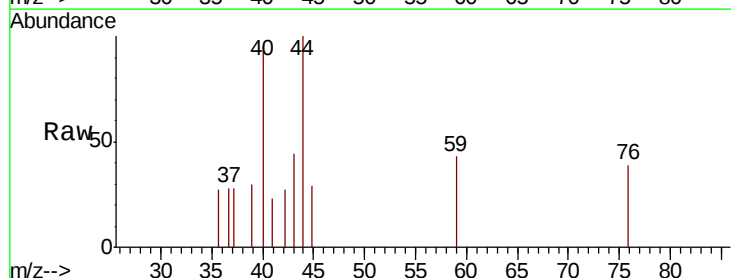
Acq: 16 Nov 2018 11:54

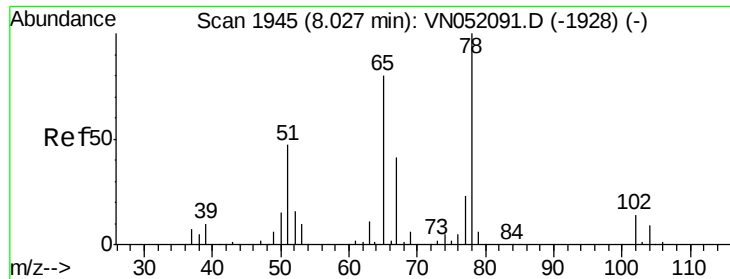
Tgt Ion: 59 Resp: 216

Ion Ratio Lower Upper

59 100

52 0.0 0.3 0.5#





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

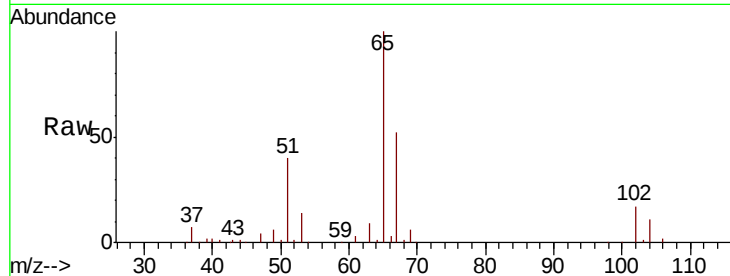
002M-35TH-AVE(NOV)

Tot Ion: 65 Resp: 105802

Ion Ratio Lower Upper

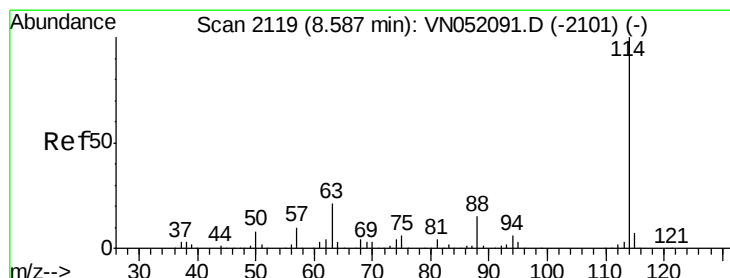
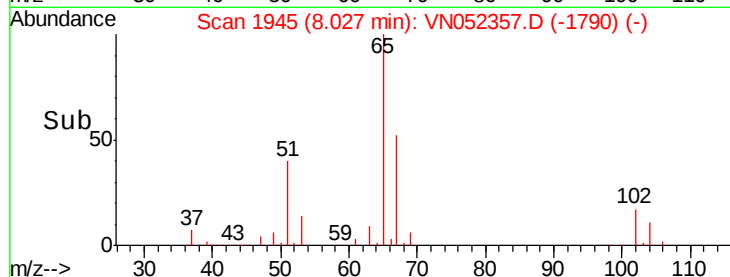
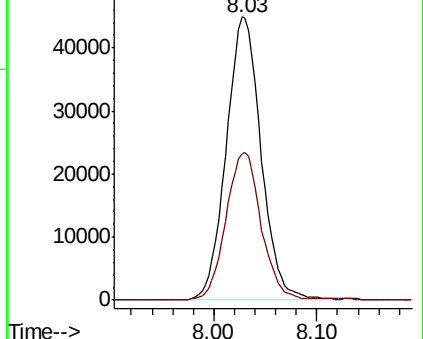
65 100

67 52.4 42.6 64.0



Abundance Ion 65.00 (64.70 to 65.70): VN052091.D (-1928) (-)

Ion 67.00 (66.70 to 67.70): VN052091.D (-1928) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

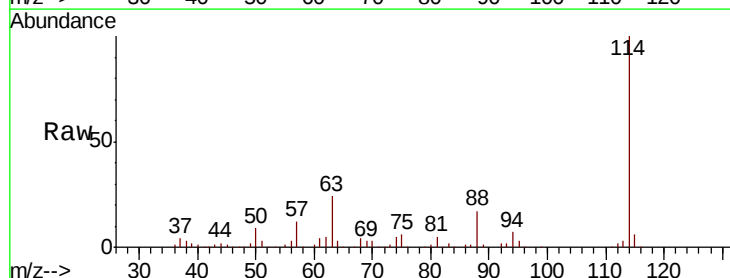
Tgt Ion: 114 Resp: 240576

Ion Ratio Lower Upper

114 100

63 23.5 17.5 26.3

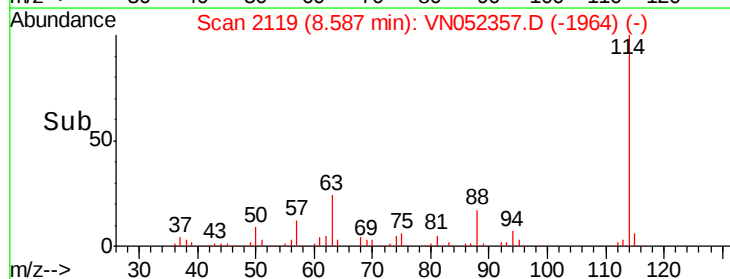
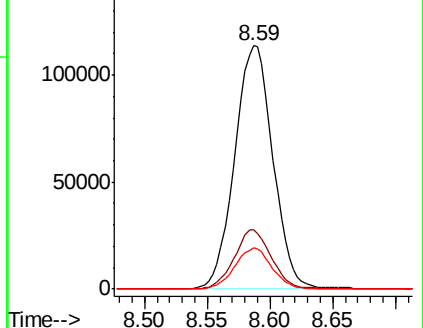
88 16.3 12.6 18.8

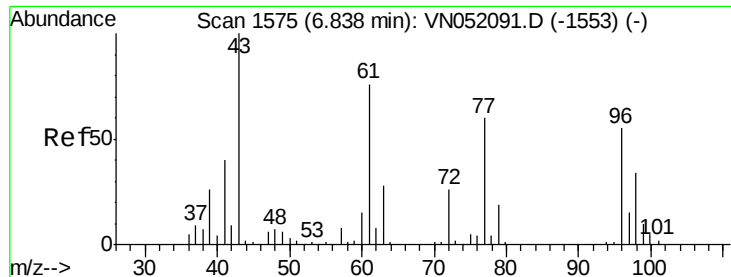


Abundance Ion 114.00 (113.70 to 114.70): VN052091.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN052091.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN052091.D (-2101) (-)

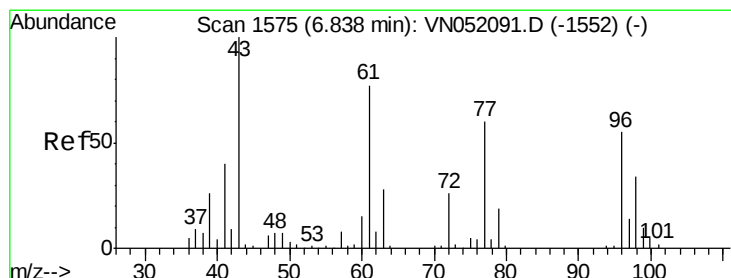
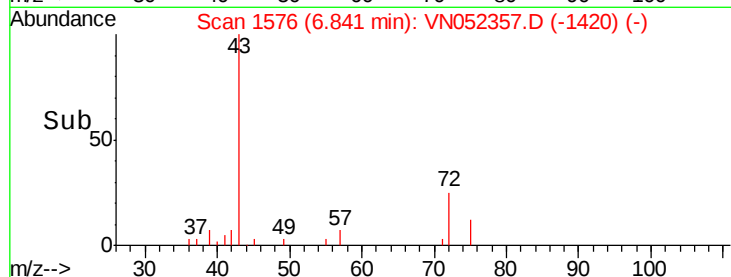
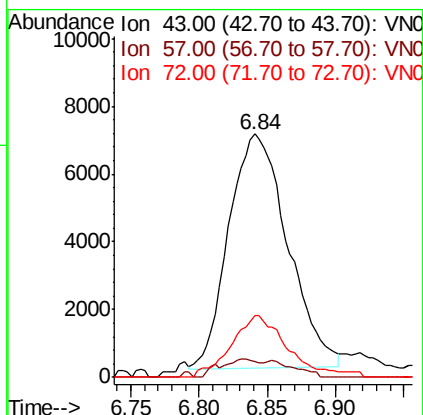
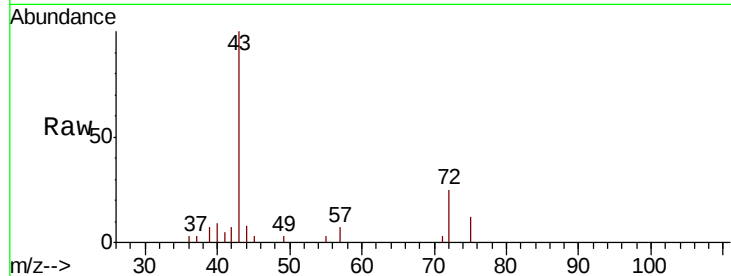




#30
2-Butanone
Concen: 20.428 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

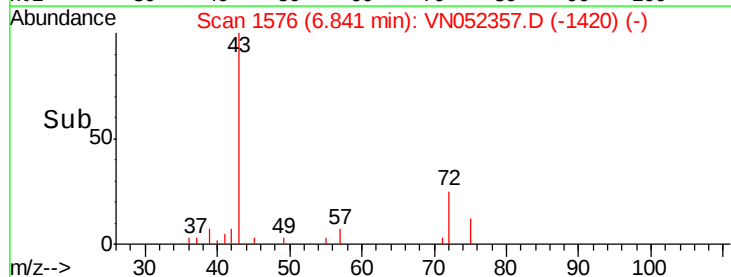
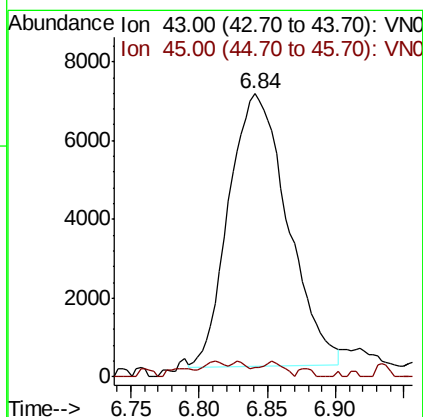
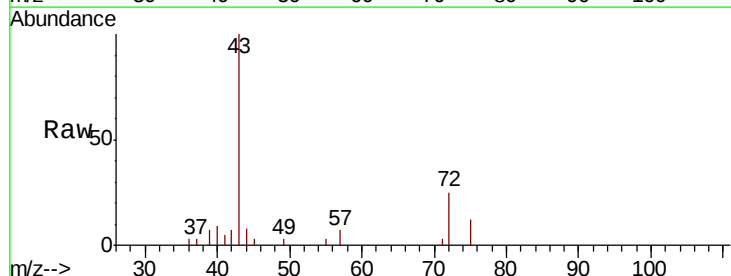
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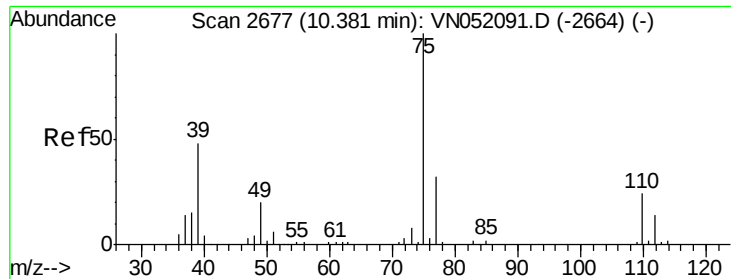
Tot Ion: 43 Resp: 20779
Ion Ratio Lower Upper
43 100
57 4.3 6.6 9.8#
72 21.5 9.2 13.8#



#43
Ethyl Acetate
Concen: 4.065 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

Tgt Ion: 43 Resp: 20779
Ion Ratio Lower Upper
43 100
45 1.8 3.8 5.8#

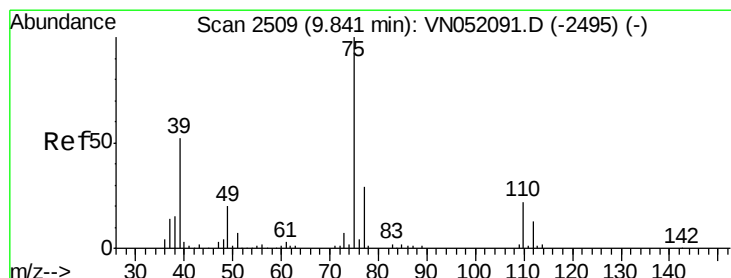
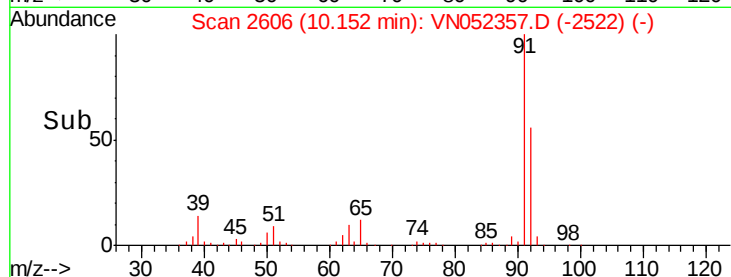
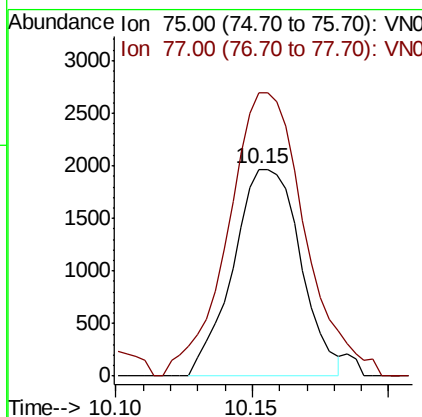
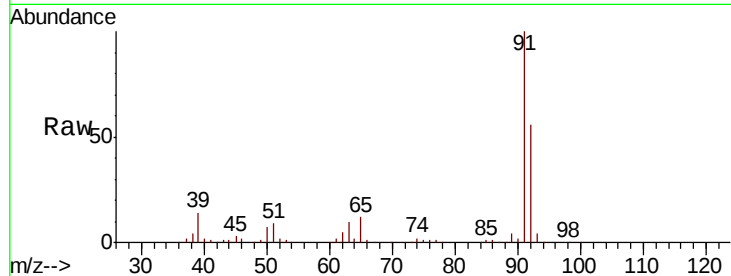




#48
 t-1,3-Dichloropropene
 Concen: 0.907 ug/l
 RT: 10.15 min Scan# 2606
 Delta R.T. -0.23 min
 Lab File: VN052357.D
 Acq: 16 Nov 2018 11:54

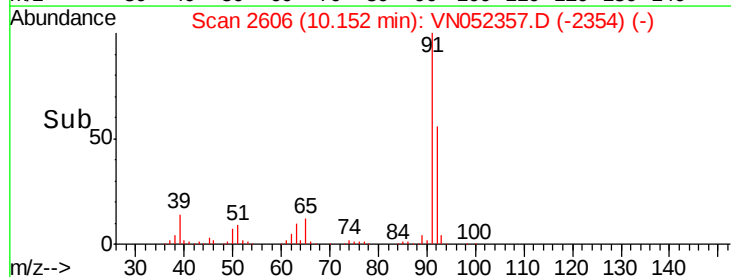
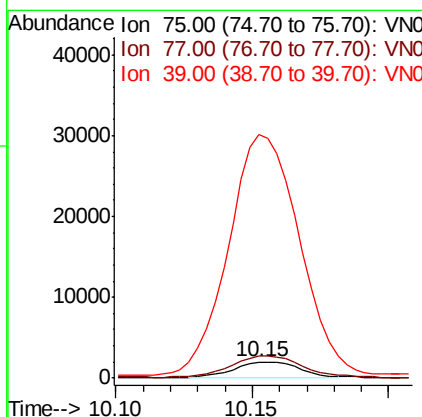
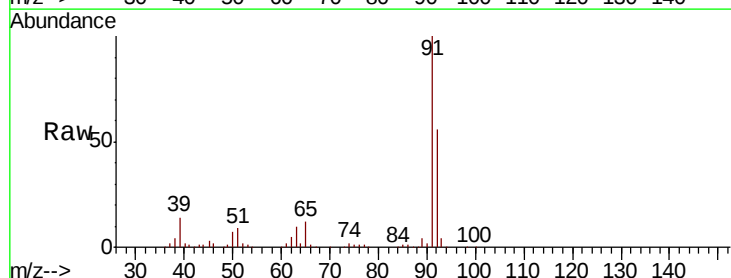
Instrument :
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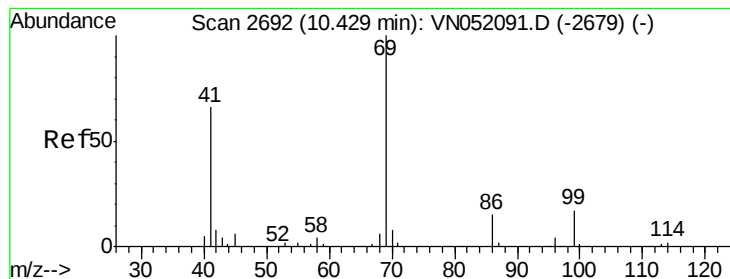
Tot Ion: 75 Resp: 3383
 Ion Ratio Lower Upper
 75 100
 77 122.1 26.3 39.5#



#49
 cis-1,3-Dichloropropene
 Concen: 0.786 ug/l
 RT: 10.15 min Scan# 2606
 Delta R.T. 0.31 min
 Lab File: VN052357.D
 Acq: 16 Nov 2018 11:54

Tgt Ion: 75 Resp: 3383
 Ion Ratio Lower Upper
 75 100
 77 122.1 23.3 34.9#
 39 1432.5 41.6 62.4#





#51

Ethyl methacrylate

Concen: 0.329 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(NOV)

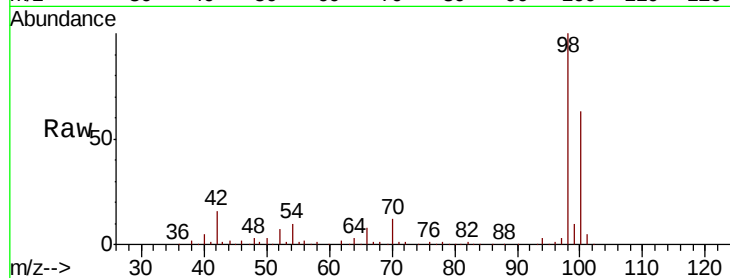
Tot Ion: 69 Resp: 1031

Ion Ratio Lower Upper

69 100

41 85.9 33.0 99.0

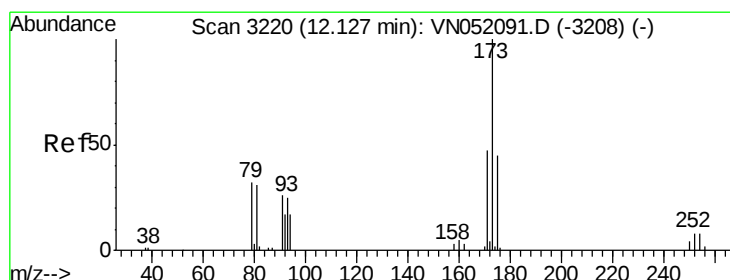
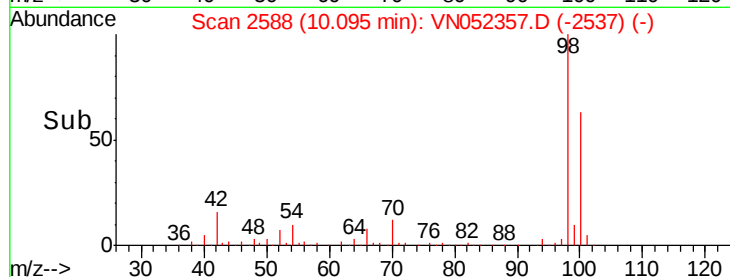
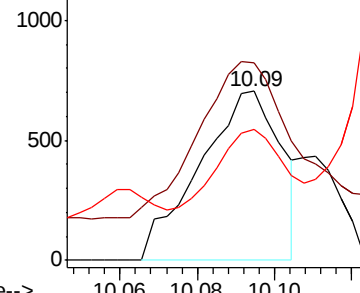
39 40.2 20.7 62.1



Abundance Ion 69.00 (68.70 to 69.70): VN052091.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052091.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052091.D (-2679) (-)



#56

Bromoform

Concen: 0.629 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

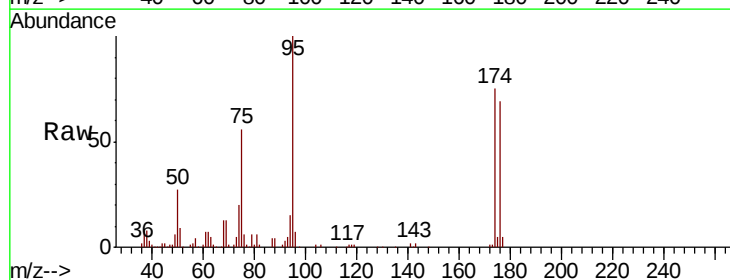
Tgt Ion: 173 Resp: 952

Ion Ratio Lower Upper

173 100

175 526.9 37.3 55.9#

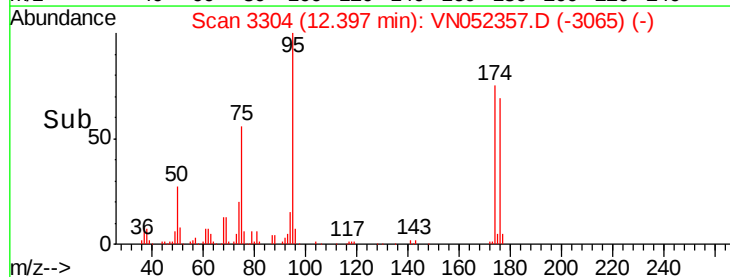
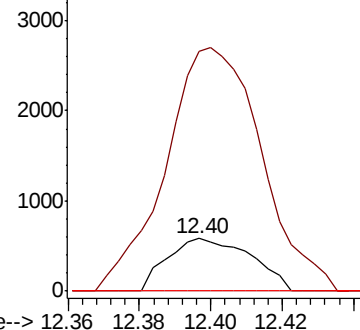
254 0.0 7.0 10.6#

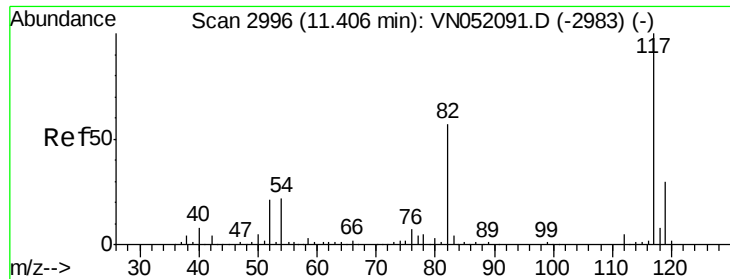


Abundance Ion 173.00 (172.70 to 173.70): VN052091.D (-3208) (-)

Ion 175.00 (174.70 to 175.70): VN052091.D (-3208) (-)

Ion 254.00 (253.70 to 254.70): VN052091.D (-3208) (-)

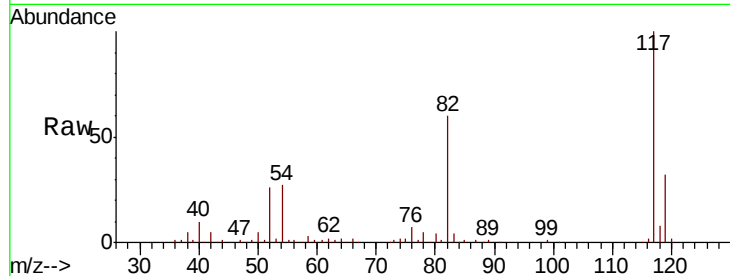




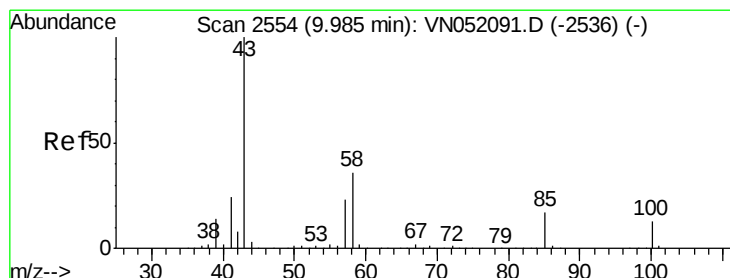
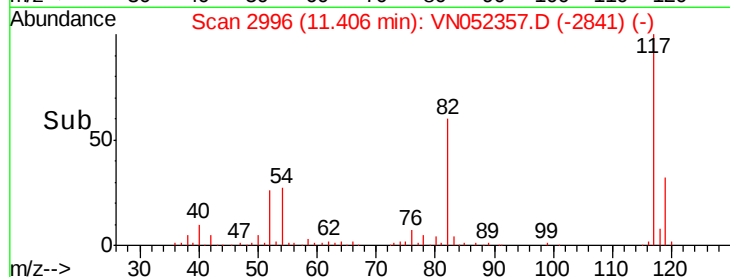
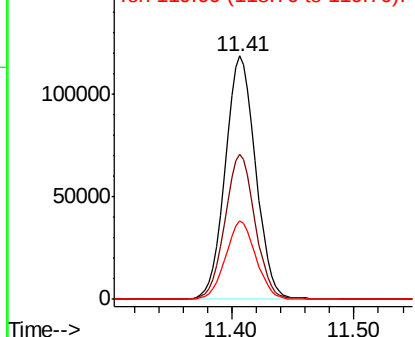
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(NOV)

Tot Ion:117 Resp: 206956
Ion Ratio Lower Upper
117 100
82 59.1 45.0 67.6
119 31.9 24.2 36.4

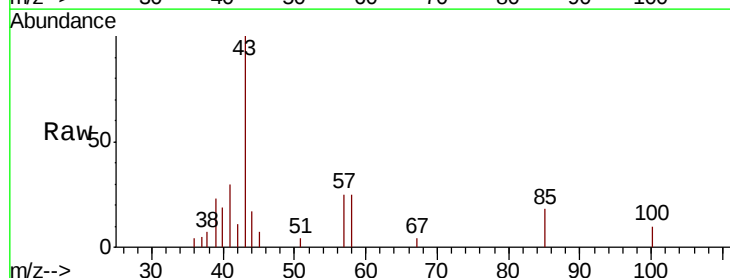


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

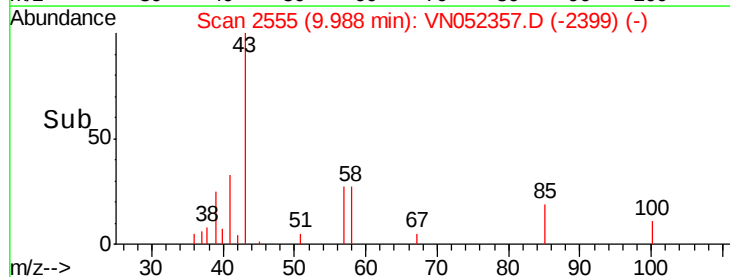
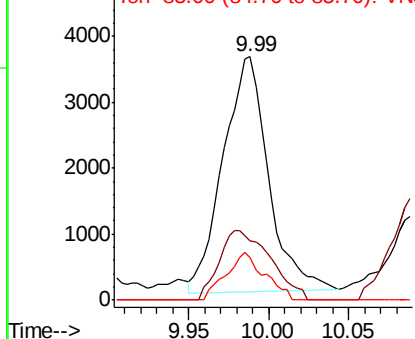


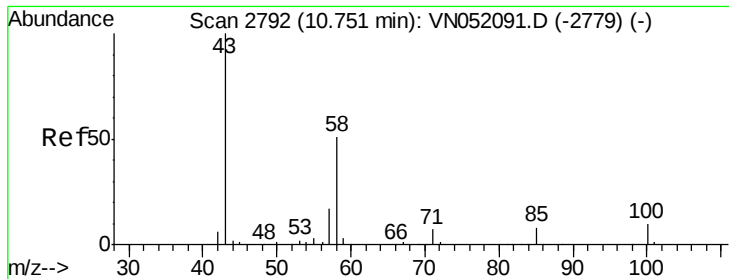
#58
4-Methyl-2-Pentanone
Concen: 3.111 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

Tgt Ion: 43 Resp: 6900
Ion Ratio Lower Upper
43 100
58 33.7 29.0 43.6
85 13.6 13.4 20.2



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN

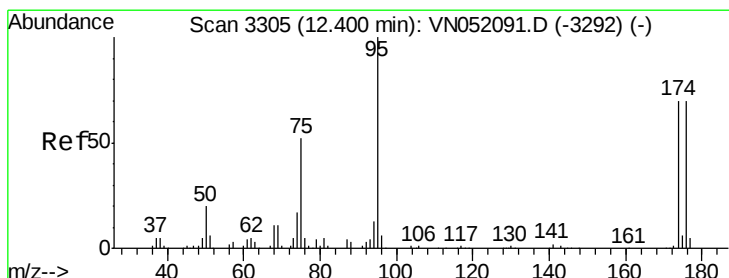
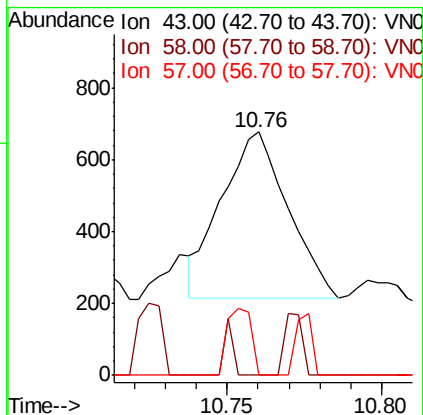
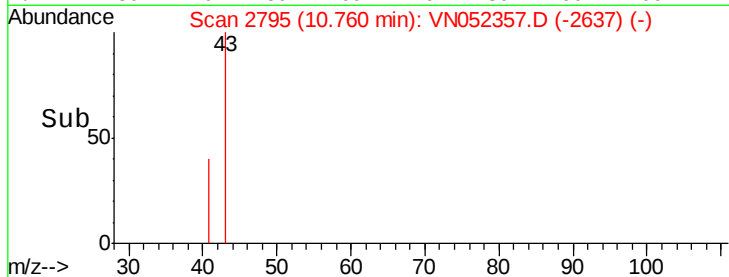
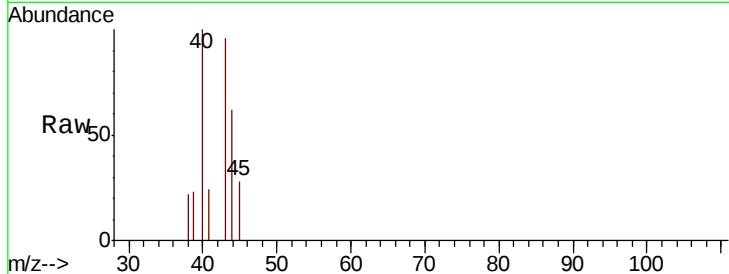




#59
2-Hexanone
Concen: 0.451 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

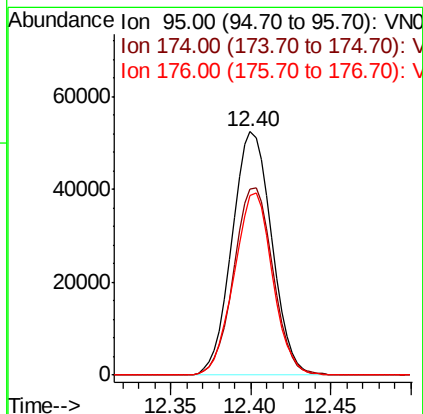
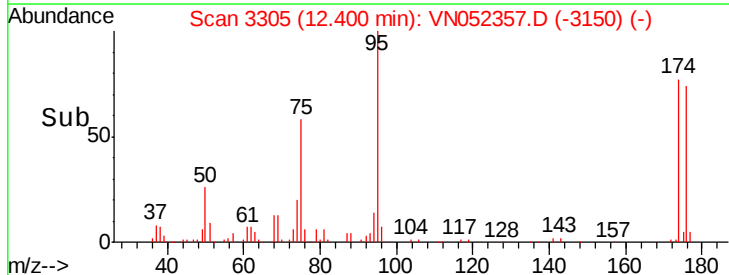
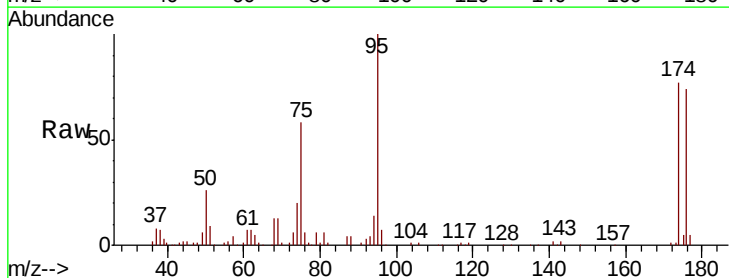
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(NOV)

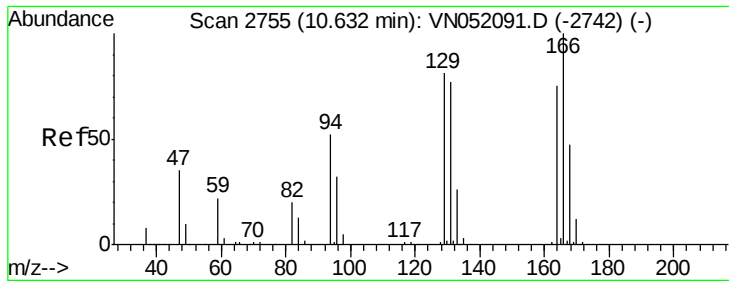
Tot Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
58 0.0 40.8 61.2#
57 14.5 13.8 20.8



#60
4-Bromofluorobenzene
Concen: 0.451 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

Tgt Ion: 95 Resp: 88491
Ion Ratio Lower Upper
95 100
174 76.4 55.0 82.6
176 72.7 54.2 81.4





#61

Tetrachloroethene

Concen: 0.338 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(NOV)

Tot Ion:164 Resp: 760

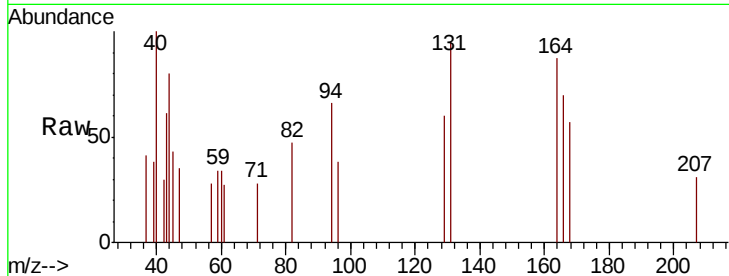
Ion Ratio Lower Upper

164 100

166 80.6 106.4 159.6#

129 69.4 87.0 130.4#

131 109.6 81.4 122.2

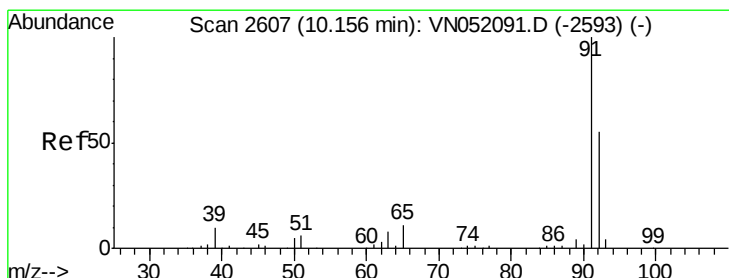
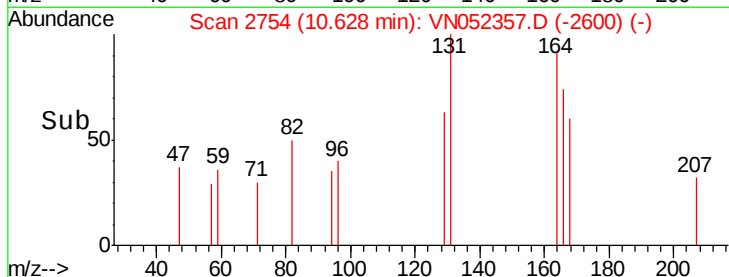
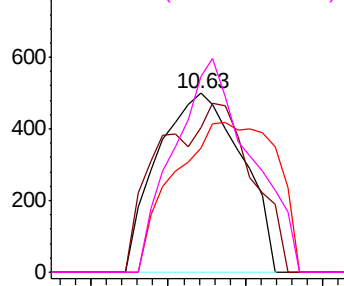


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 35.038 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052357.D

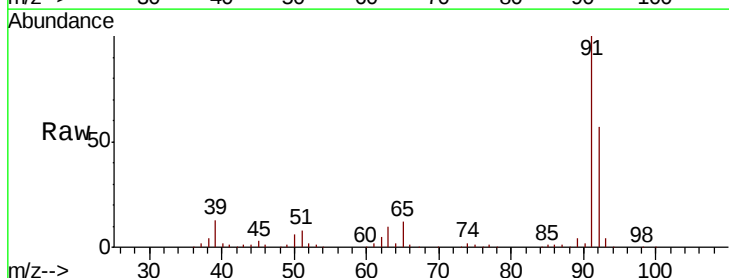
Acq: 16 Nov 2018 11:54

Tgt Ion: 91 Resp: 407060

Ion Ratio Lower Upper

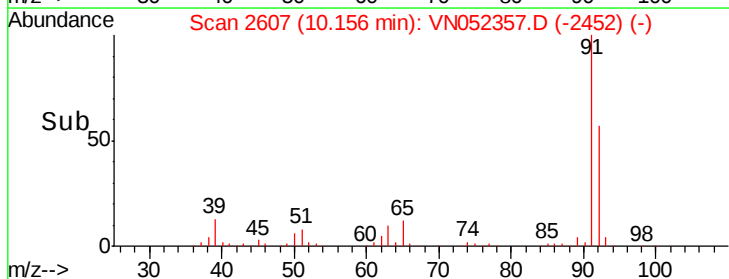
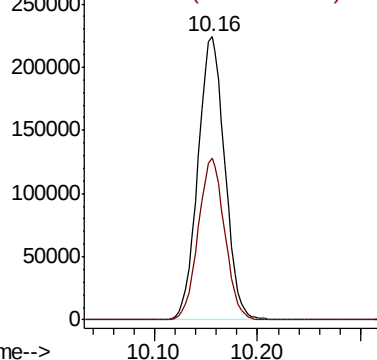
91 100

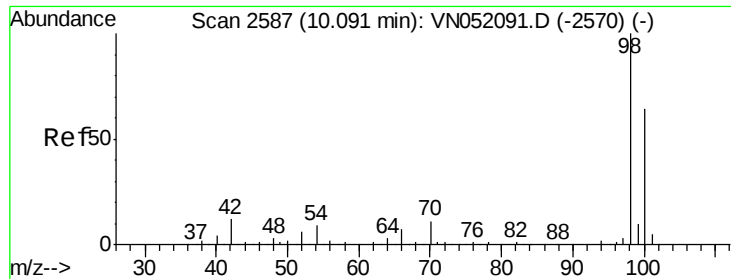
92 56.1 44.6 67.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 35.038 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

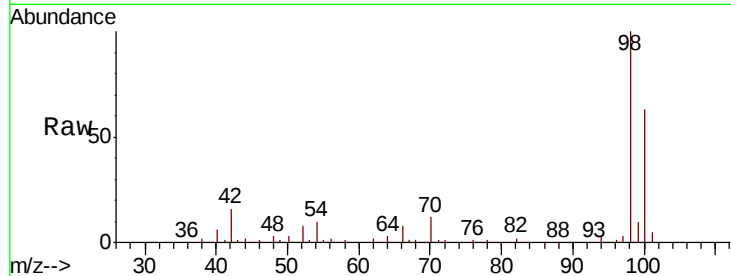
002M-35TH-AVE(NOV)

Tot Ion: 98 Resp: 295631

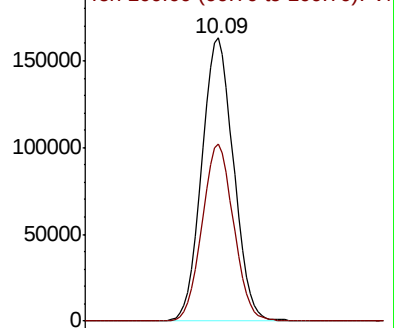
Ion Ratio Lower Upper

98 100

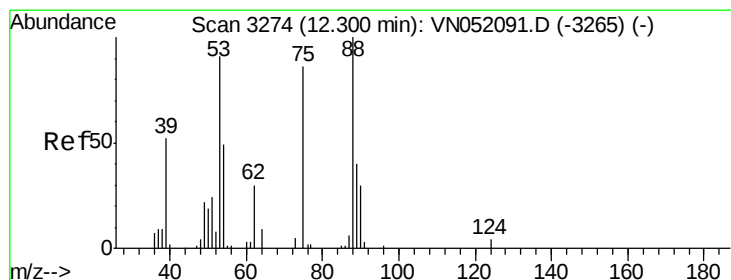
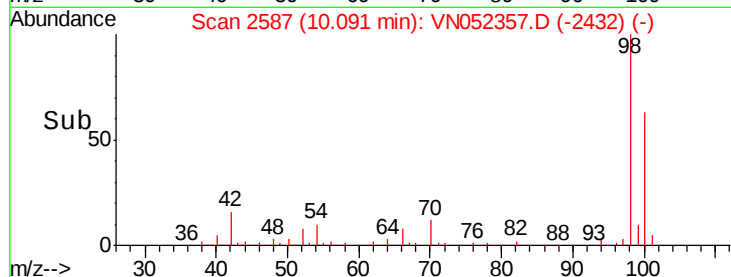
100 62.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN052091.D (-2570) (-)



Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 67.316 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

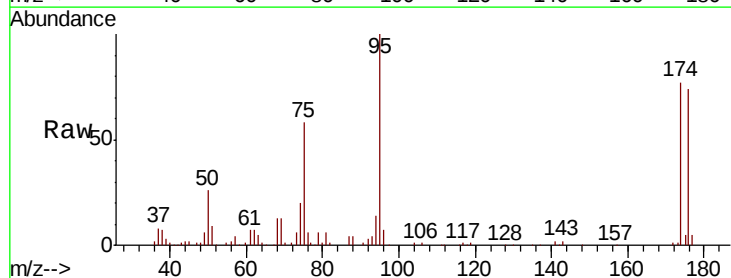
Tgt Ion: 75 Resp: 50369

Ion Ratio Lower Upper

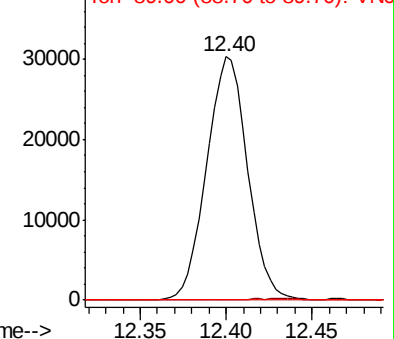
75 100

53 0.0 50.7 152.1#

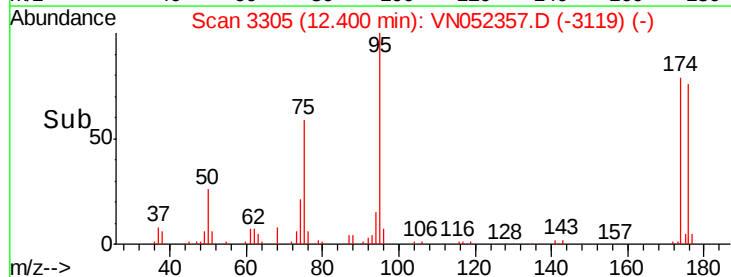
89 0.0 23.8 71.5#

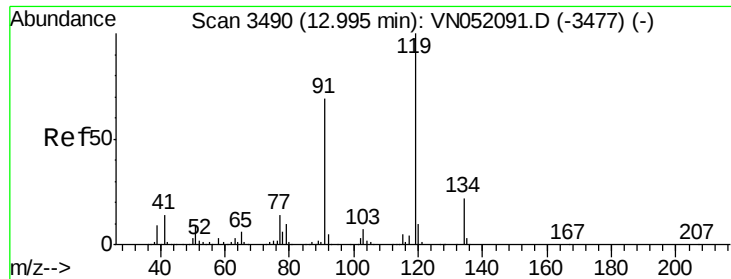


Abundance Ion 75.00 (74.70 to 75.70): VN052091.D (-3265) (-)



Time-->

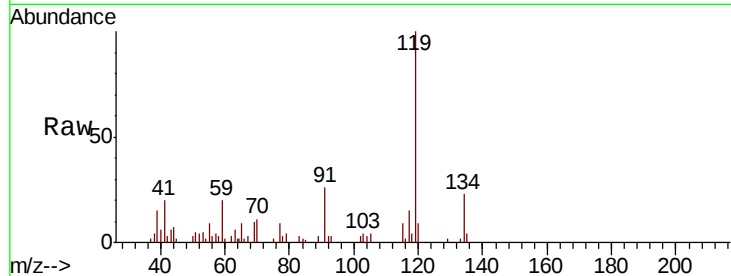




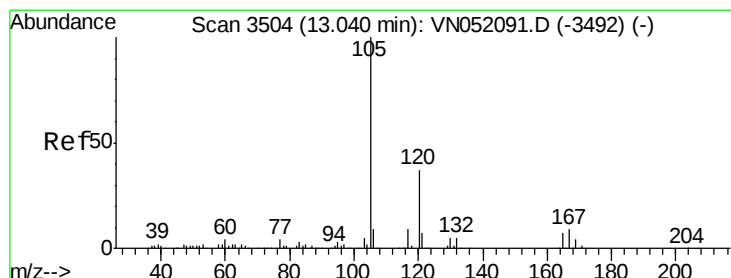
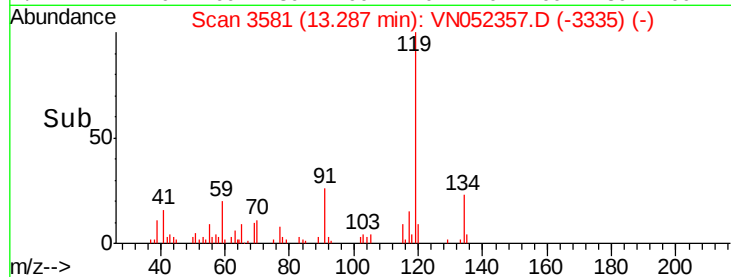
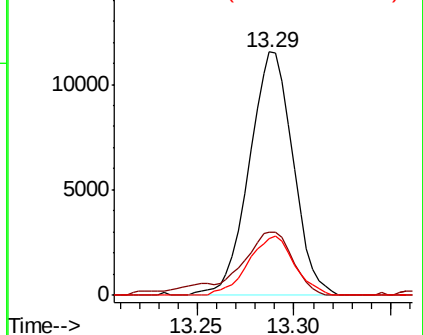
#79
tert-butylbenzene
Concen: 2.107 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.29 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(NOV)

Tot Ion:119 Resp: 18199
Ion Ratio Lower Upper
119 100
91 28.9 0.0 131.2
134 25.5 0.0 45.8

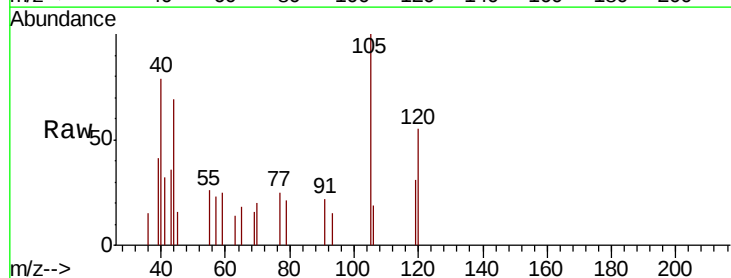


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

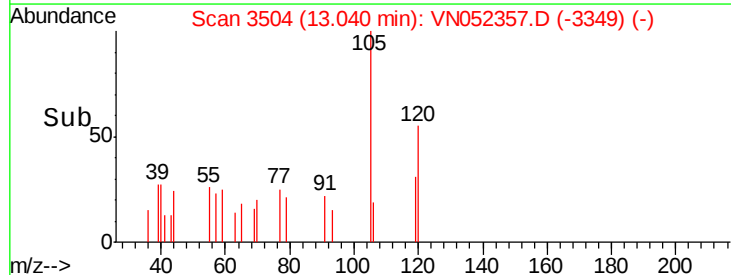
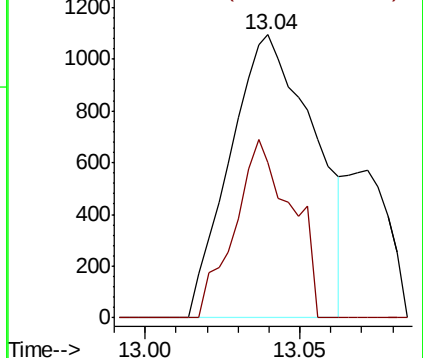


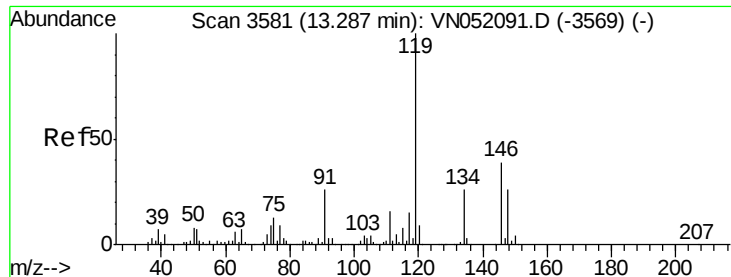
#80
1,2,4-Trimethylbenzene
Concen: 0.210 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052357.D
Acq: 16 Nov 2018 11:54

Tgt Ion:105 Resp: 2073
Ion Ratio Lower Upper
105 100
120 38.8 0.0 89.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#82

p-Isopropyltoluene

Concen: 1.812 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(NOV)

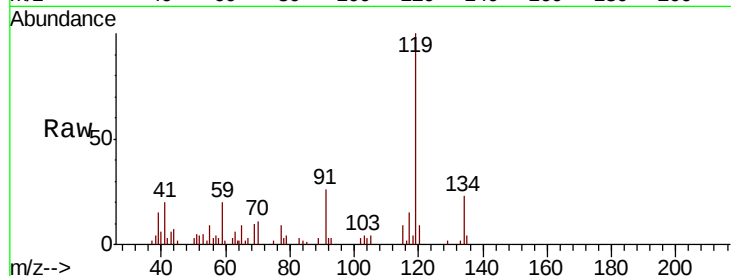
Tot Ion:119 Resp: 18199

Ion Ratio Lower Upper

119 100

134 25.5 0.0 52.0

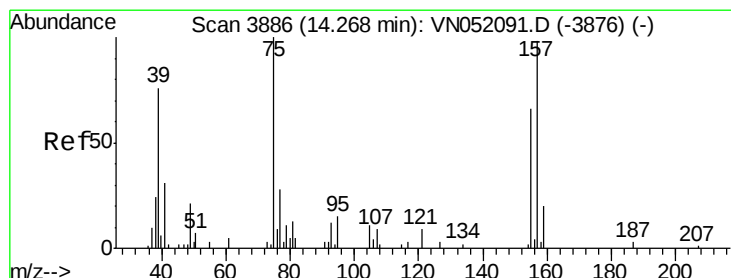
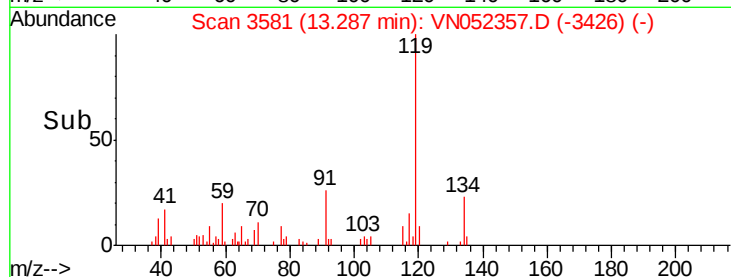
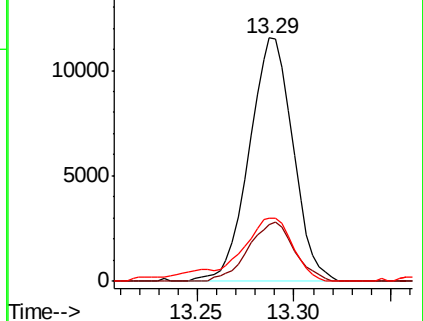
91 28.9 0.0 50.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.274 ug/l

RT: 13.87 min Scan# 3762

Delta R.T. -0.40 min

Lab File: VN052357.D

Acq: 16 Nov 2018 11:54

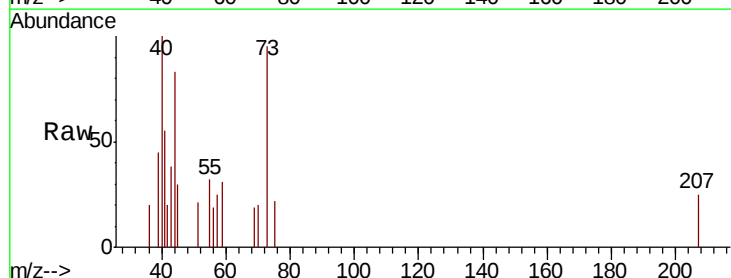
Tgt Ion: 75 Resp: 102

Ion Ratio Lower Upper

75 100

155 0.0 56.7 85.1#

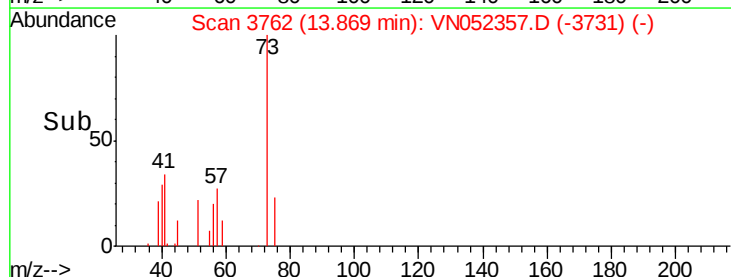
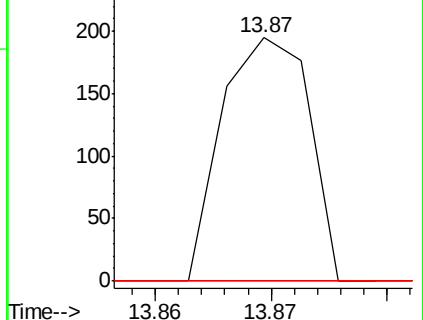
157 0.0 80.4 120.6#

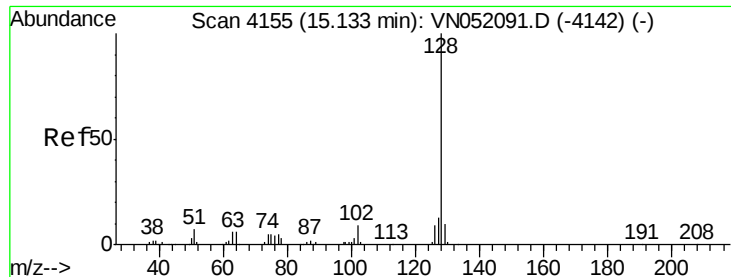


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#91

Naphthalene

Concen: 0.330 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052357.D

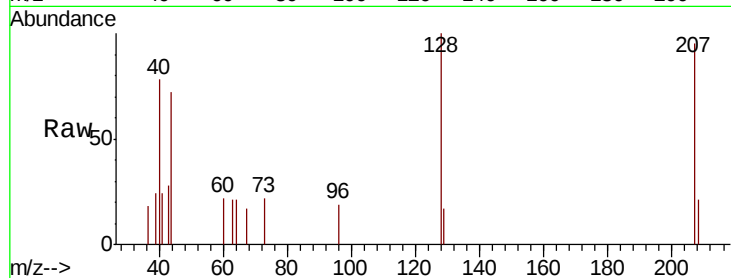
Acq: 16 Nov 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(NOV)



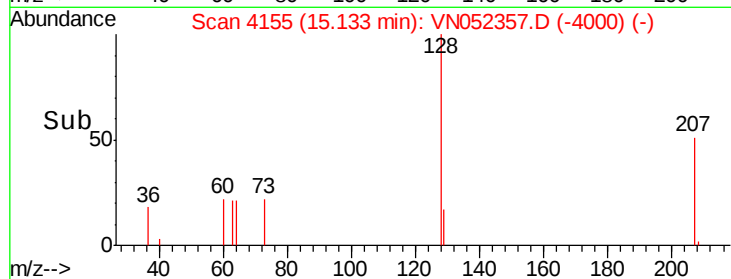
Tot Ion:128 Resp: 1423

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 4.3 8.3 12.5#



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

