

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092418\
 Data File : VN051469.D
 Acq On : 24 Sep 2018 18:25
 Operator : MD\SY
 Sample : J4770-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-A

Quant Time: Sep 25 02:01:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	639453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	966287	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	791574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266773	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	428329	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	
35) Dibromofluoromethane	7.59	113	371910	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
50) Toluene-d8	10.09	98	1329232	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
62) 4-Bromofluorobenzene	12.40	95	349985	37.18	ug/l	0.00
Spiked Amount			Recovery	=	74.36%	

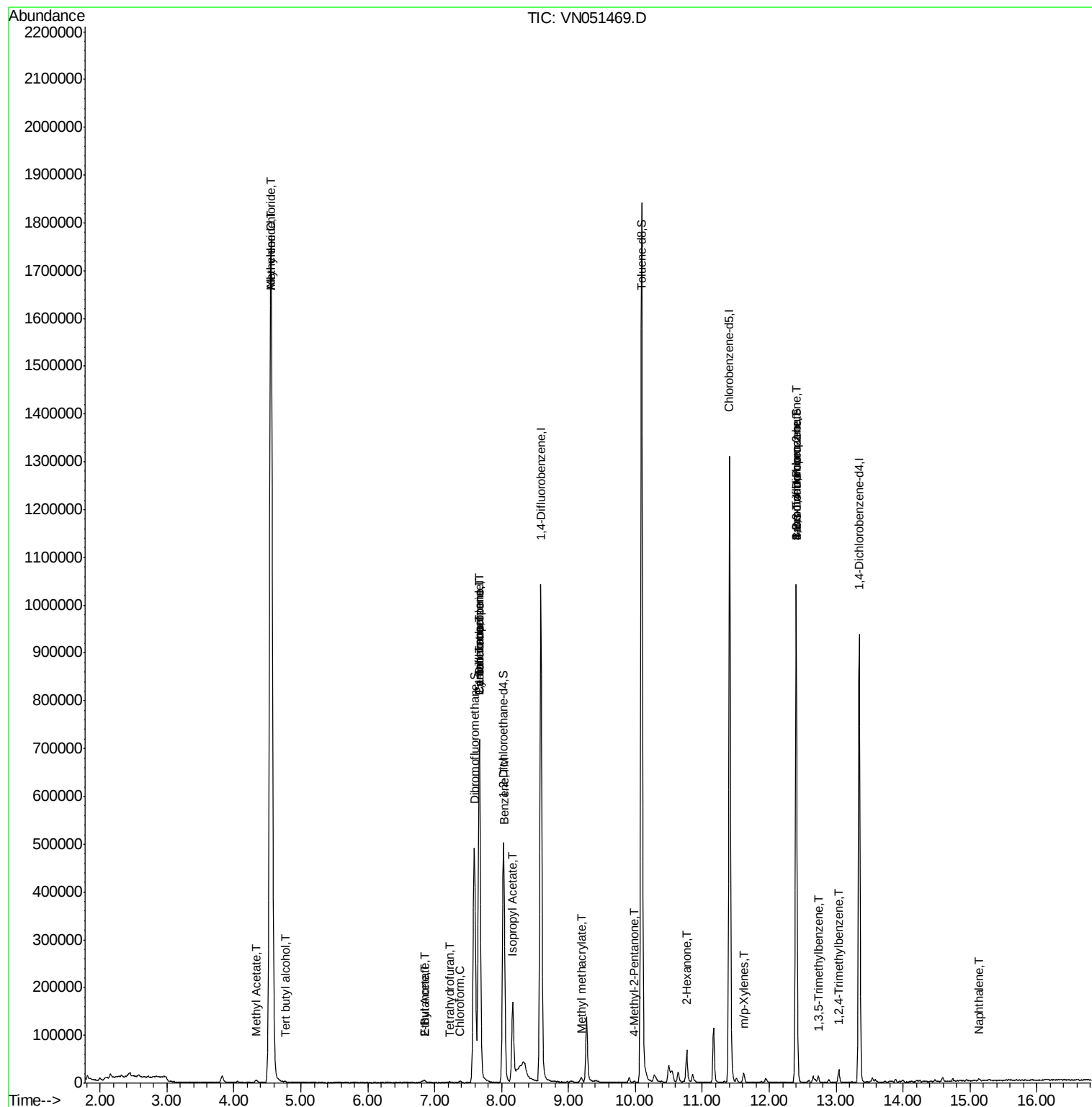
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	237	0.524	ug/l #	78
14) Allyl chloride	4.56	41	52257	4.378	ug/l #	26
16) Acetone	3.83	43	23042	Below Cal		96
18) Methyl Acetate	4.33	43	9166	1.502	ug/l #	72
20) Methylene Chloride	4.55	84	1342544	169.373	ug/l	99
25) 2-Butanone	6.86	43	6224	2.270	ug/l #	82
29) Tetrahydrofuran	7.23	42	1080	0.622	ug/l #	58
30) Chloroform	7.38	83	4114	0.302	ug/l	92
31) Cyclohexane	7.67	56	11787	0.934	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43507	3.888	ug/l #	48
37) Ethyl Acetate	6.86	43	6224	0.967	ug/l #	68
38) Carbon Tetrachloride	7.67	117	56517	4.829	ug/l #	16
40) Benzene	8.05	78	18071	0.550	ug/l	99
43) Isopropyl Acetate	8.17	43	201612	17.330	ug/l	97
48) Methyl methacrylate	9.18	41	5627	0.970	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	1971	0.308	ug/l	92
59) 2-Hexanone	10.77	43	10864	2.619	ug/l #	61
68) m/p-Xylenes	11.62	106	6064	0.458	ug/l	96
71) Bromoform	12.40	173	2499	0.476	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	170063	38.401	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5654	0.308	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	170063	118.081	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	14466	0.782	ug/l	97
95) Naphthalene	15.13	128	4409	8.417	ug/l #	92

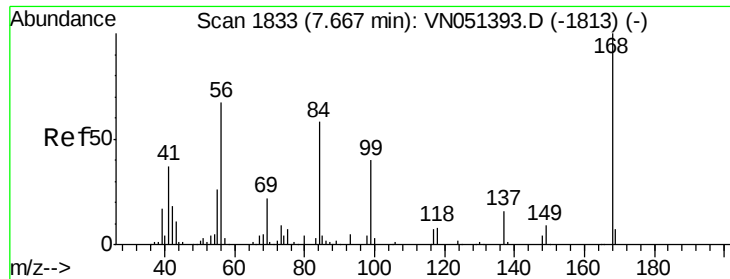
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 24 06:41:32 2018
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: VN051469.D

Acq: 24 Sep 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

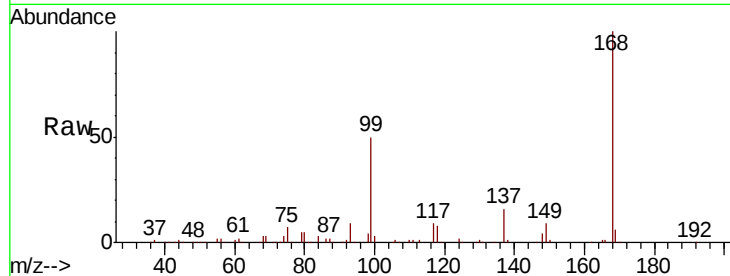
JC-02-092118-A

Tot Ion:168 Resp: 639453

Ion Ratio Lower Upper

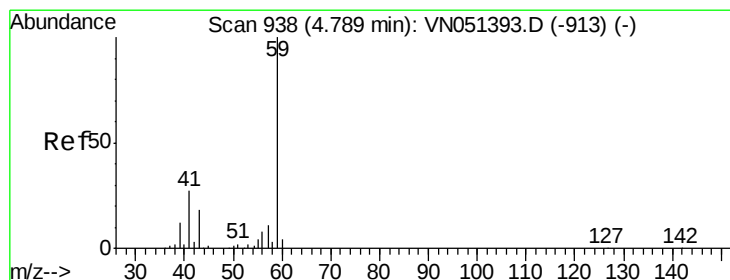
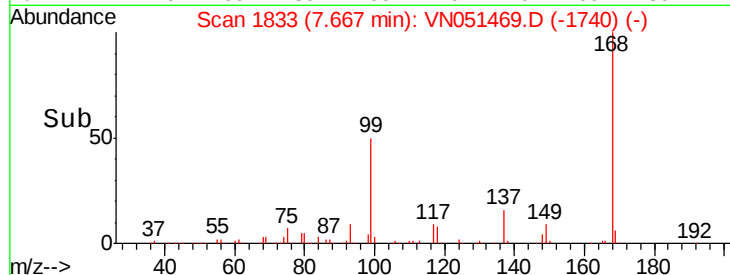
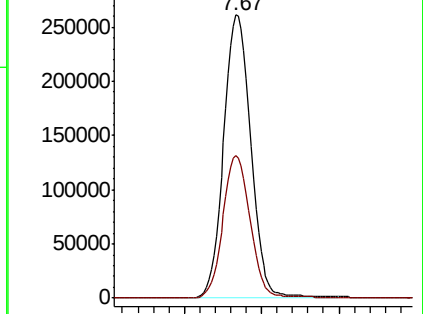
168 100

99 50.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)



#11

Tert butyl alcohol

Concen: 0.524 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.01 min

Lab File: VN051469.D

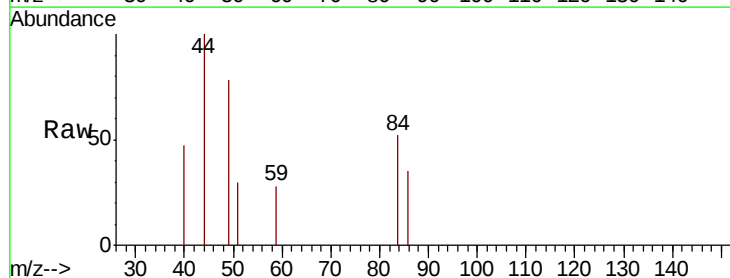
Acq: 24 Sep 2018 18:25

Tgt Ion: 59 Resp: 237

Ion Ratio Lower Upper

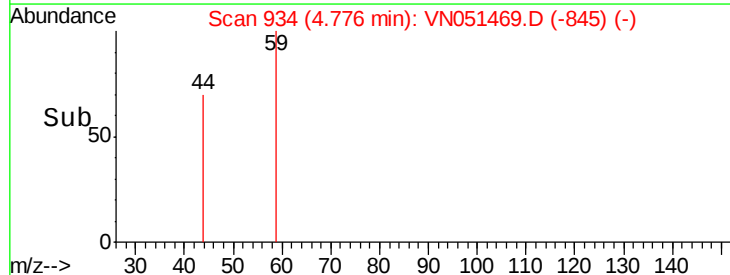
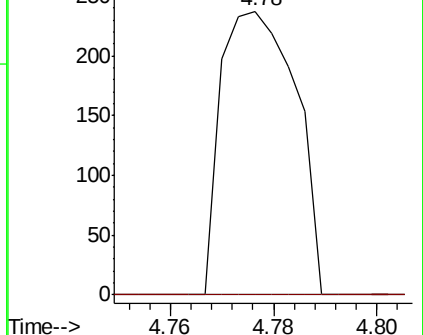
59 100

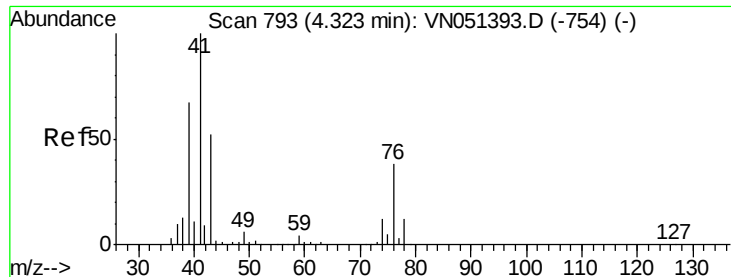
57 0.0 6.2 9.2#



Abundance Ion 59.00 (58.70 to 59.70): VN051393.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN051393.D (-913) (-)

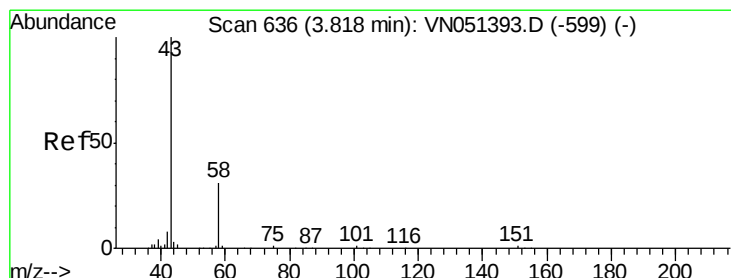
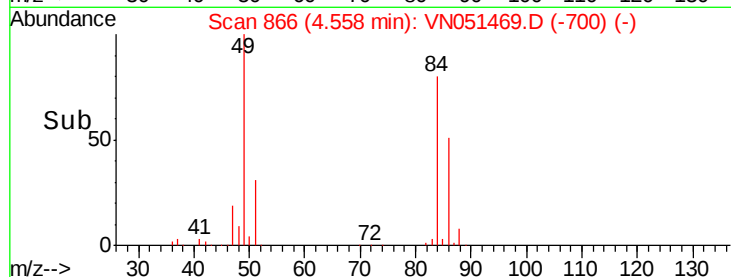
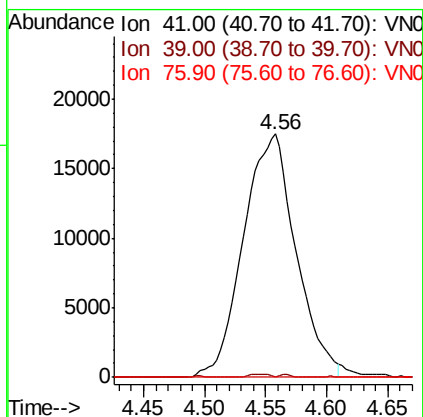
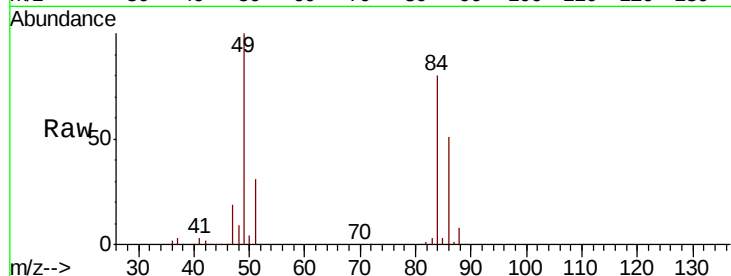




#14
Allvl chloride
Concen: 4.378 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.23 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

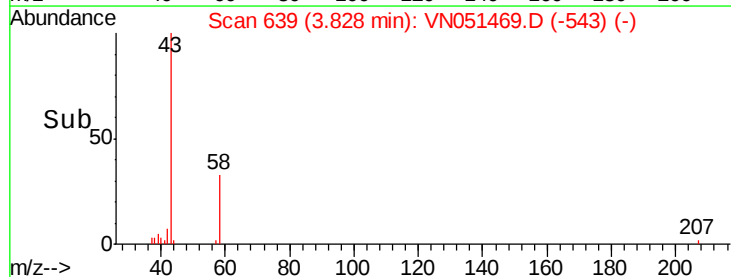
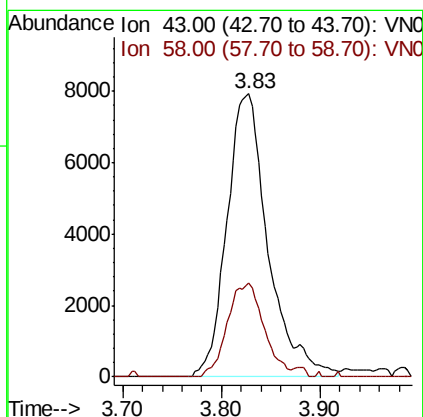
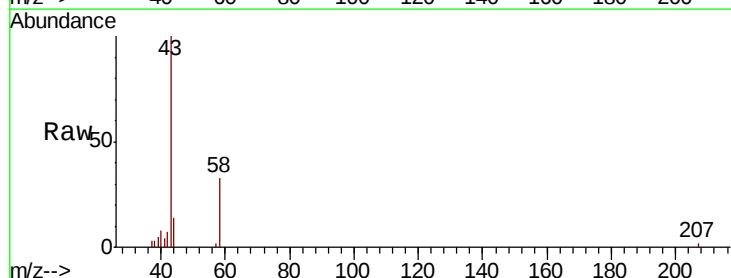
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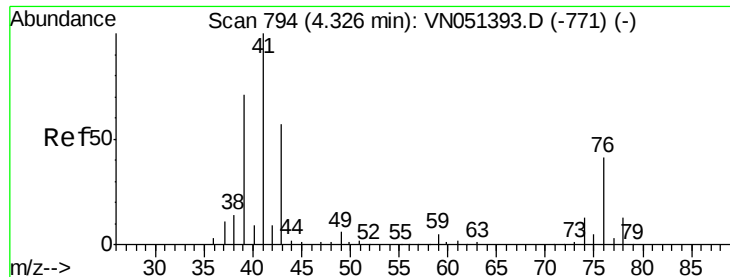
Tot Ion: 41 Resp: 52257
Ion Ratio Lower Upper
41 100
39 0.3 51.4 77.2#
76 0.0 28.1 42.1#



#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

Tgt Ion: 43 Resp: 23042
Ion Ratio Lower Upper
43 100
58 33.2 25.0 37.4

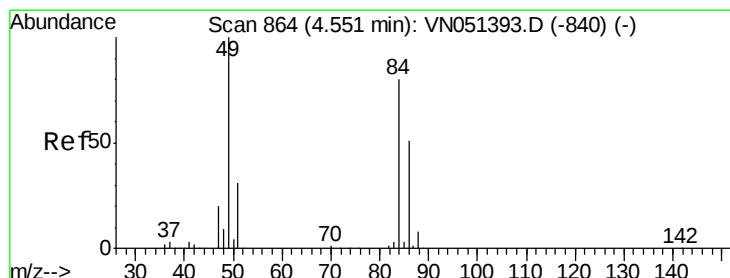
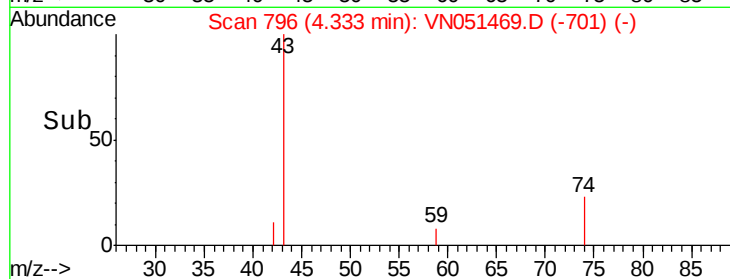
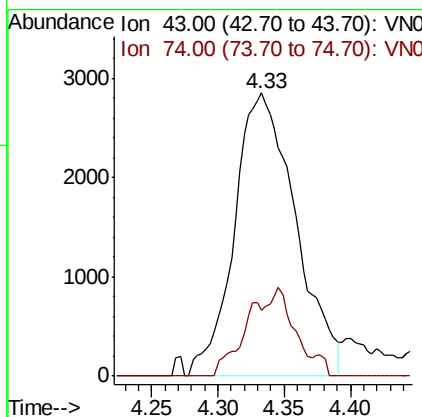
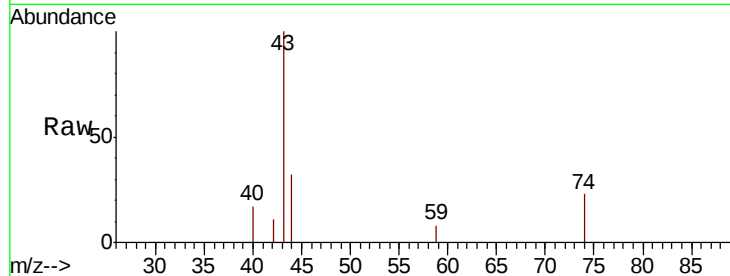




#18
Methyl Acetate
Concen: 1.502 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

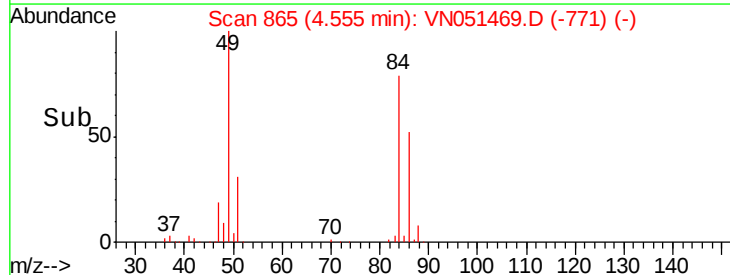
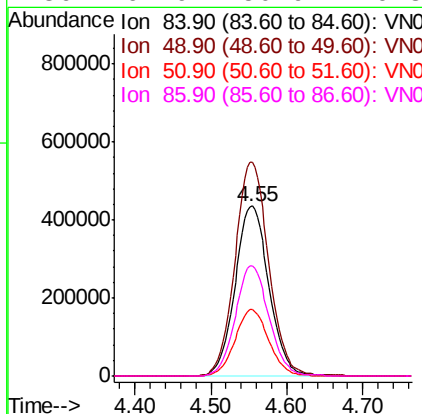
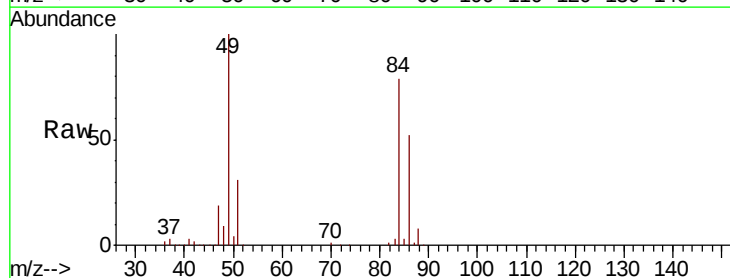
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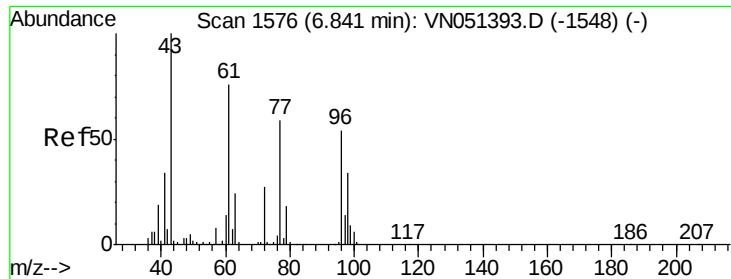
Tot Ion: 43 Resp: 9166
Ion Ratio Lower Upper
43 100
74 9.6 18.8 28.2#



#20
Methylene Chloride
Concen: 169.373 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

Tgt Ion: 84 Resp: 1342544
Ion Ratio Lower Upper
84 100
49 125.8 99.9 149.9
51 39.0 31.4 47.2
86 64.9 50.9 76.3

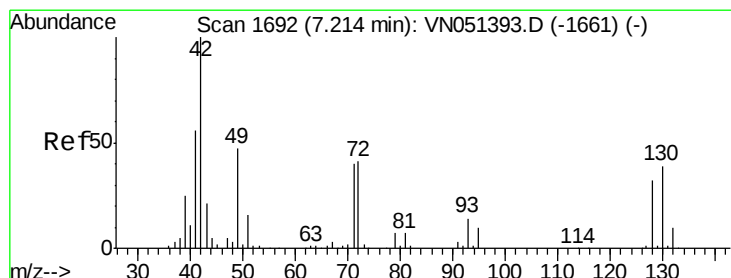
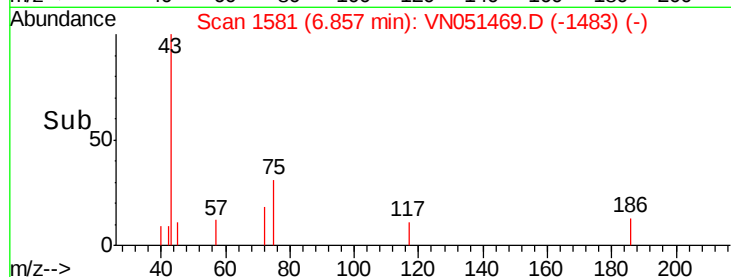
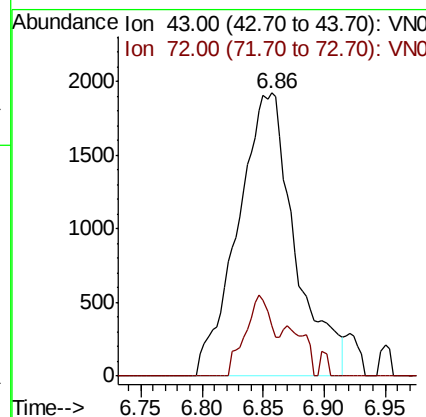
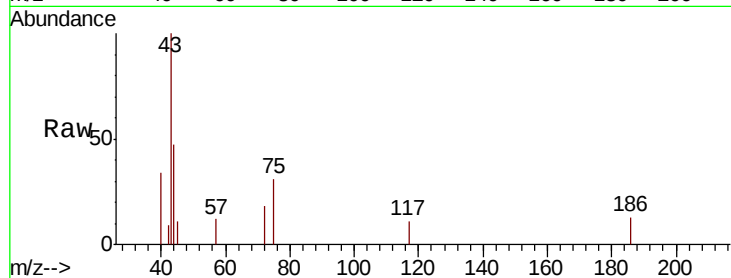




#25
 2-Butanone
 Concen: 2.270 ug/l
 RT: 6.86 min Scan# 1581
 Delta R.T. 0.02 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

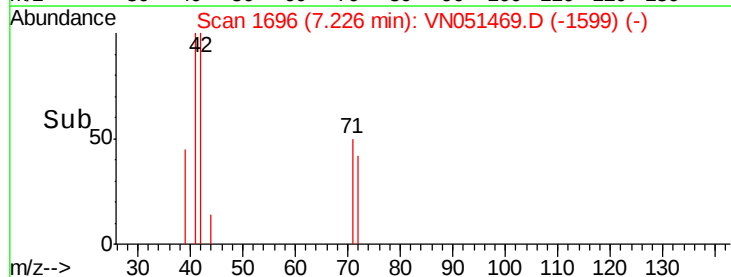
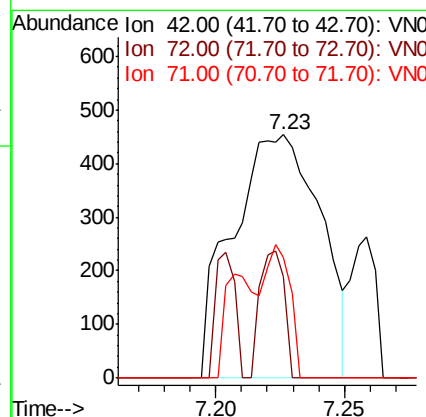
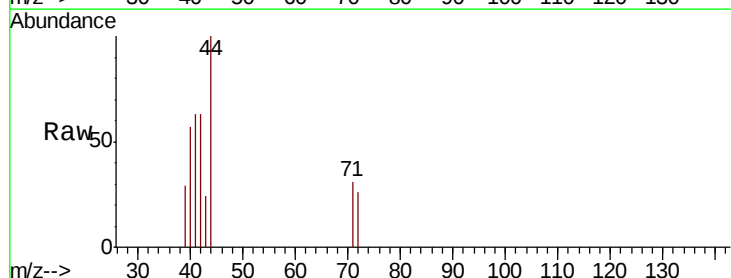
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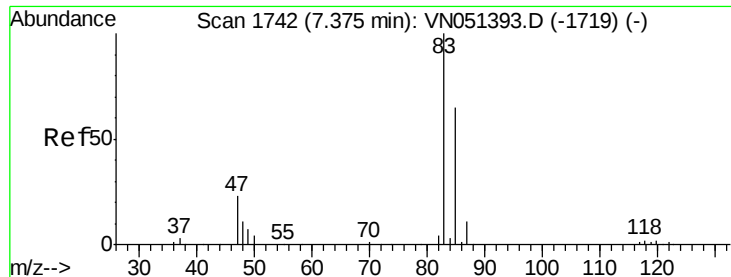
Tot Ion: 43 Resp: 6224
 Ion Ratio Lower Upper
 43 100
 72 17.9 21.8 32.6#



#29
 Tetrahydrofuran
 Concen: 0.622 ug/l
 RT: 7.23 min Scan# 1696
 Delta R.T. 0.01 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

Tgt Ion: 42 Resp: 1080
 Ion Ratio Lower Upper
 42 100
 72 14.7 34.3 51.5#
 71 15.1 32.2 48.4#

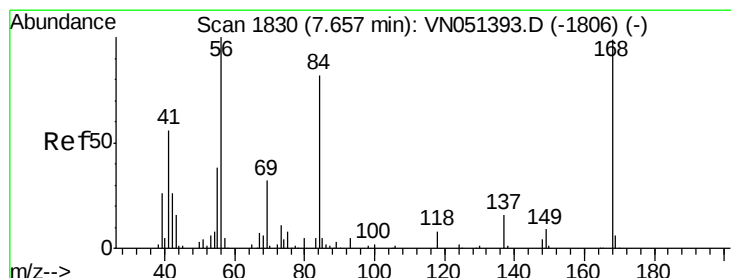
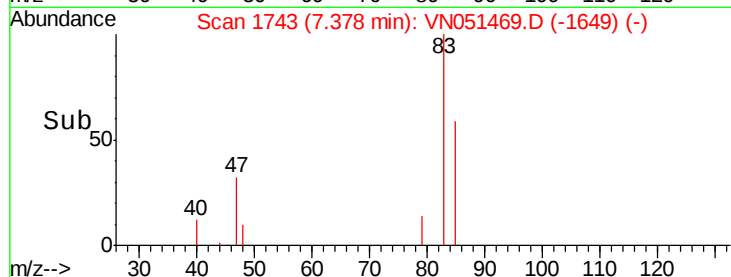
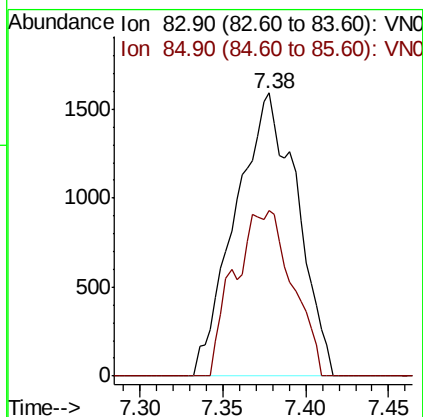
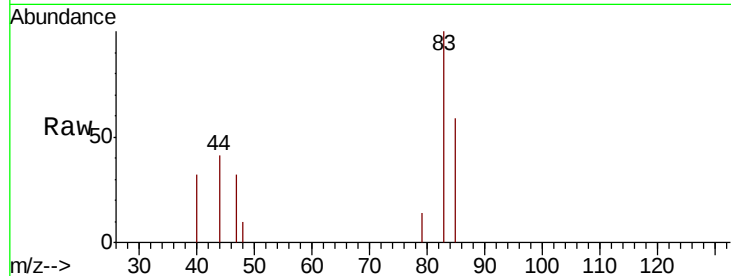




#30
Chloroform
Concen: 0.302 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

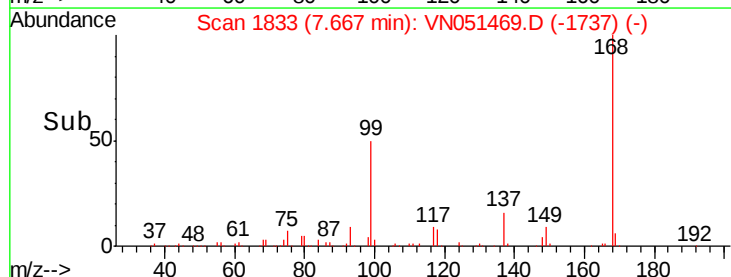
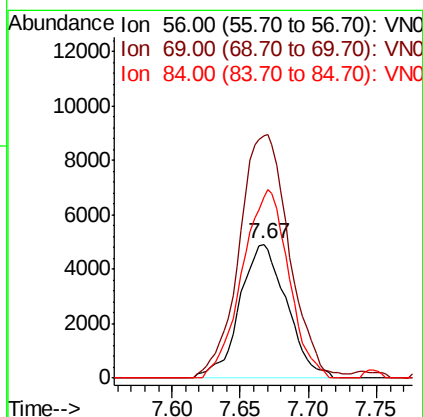
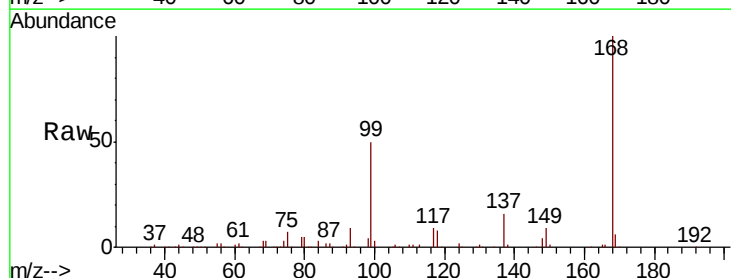
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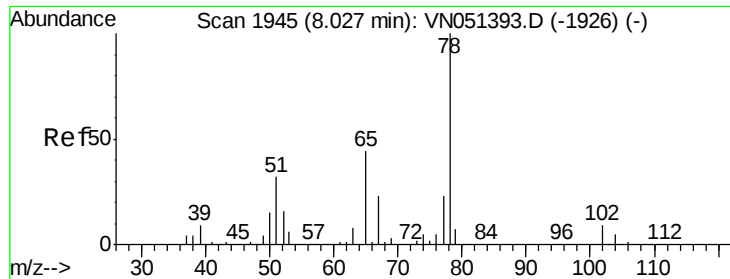
Tot Ion: 83 Resp: 4114
Ion Ratio Lower Upper
83 100
85 58.6 51.8 77.6



#31
Cyclohexane
Concen: 0.934 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

Tgt Ion: 56 Resp: 11787
Ion Ratio Lower Upper
56 100
69 181.1 25.8 38.6#
84 134.7 66.0 99.0#

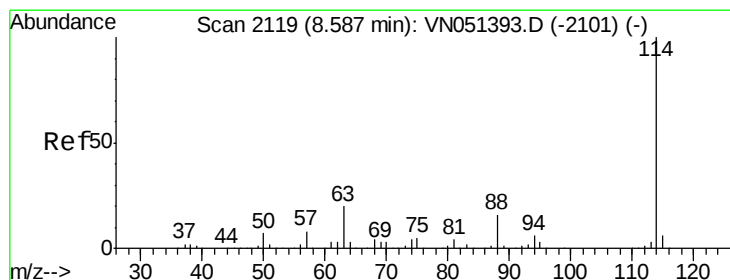
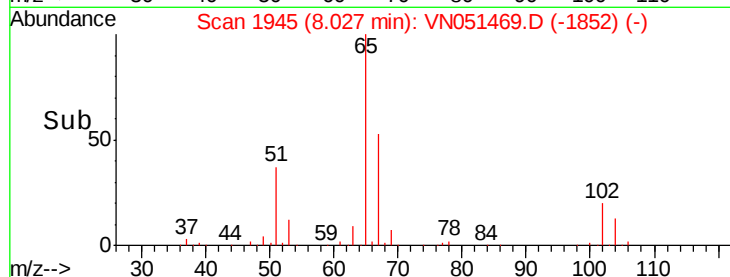
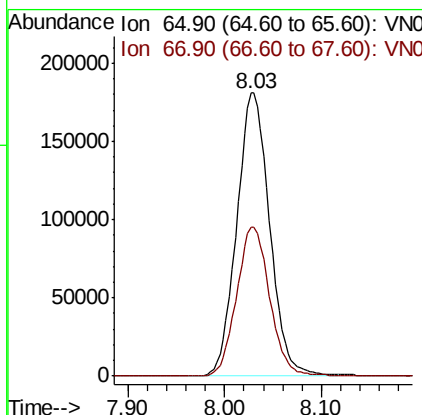
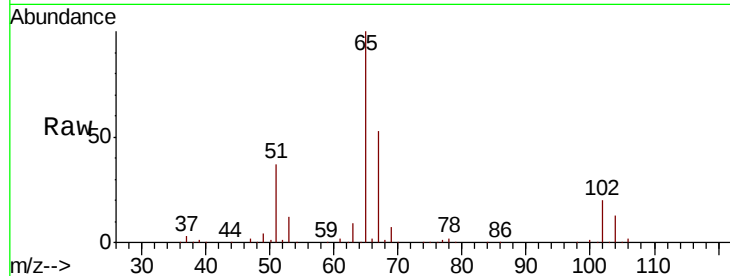




#33
 1,2-Dichloroethane-d4
 Concen: 53.472 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

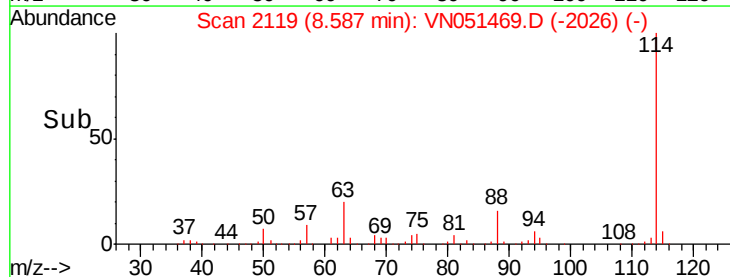
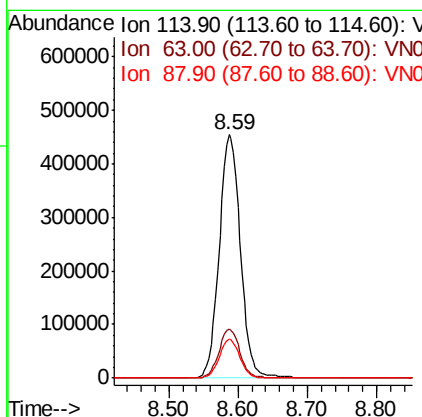
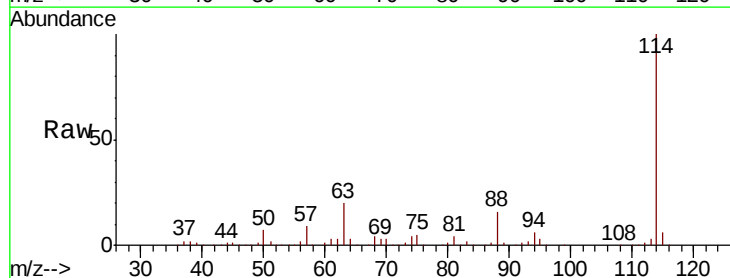
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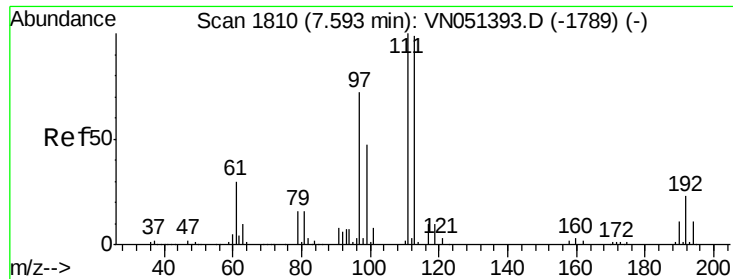
Tot Ion: 65 Resp: 428329
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

Tgt Ion: 114 Resp: 966287
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.2
 88 16.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.131 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-A

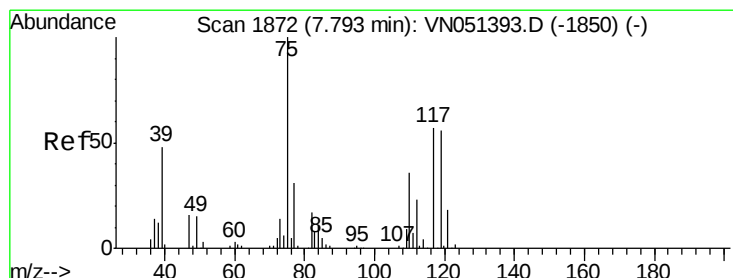
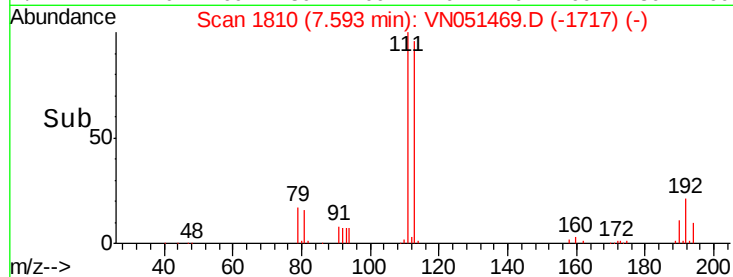
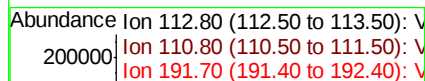
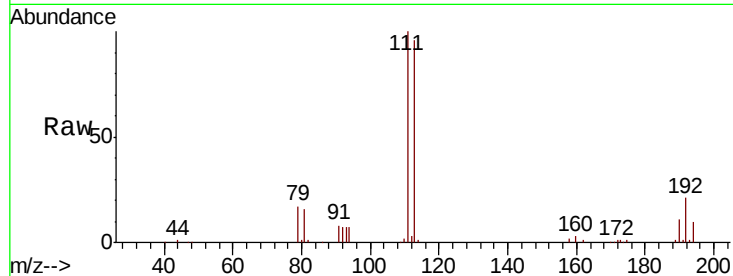
Tot Ion:113 Resp: 371910

Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

192 22.0 18.0 27.0



#36

1,1-Dichloropropene

Concen: 3.888 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

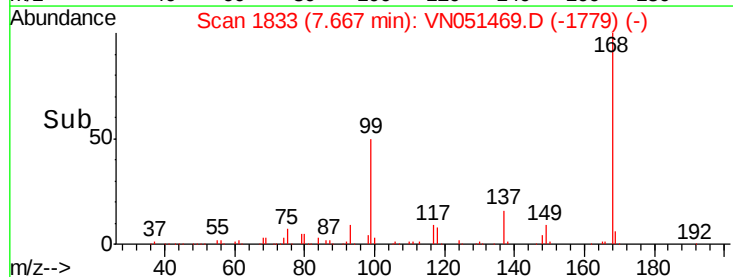
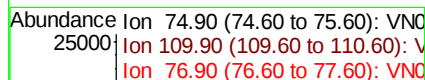
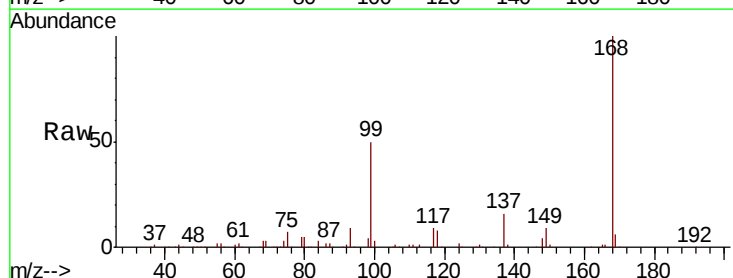
Tgt Ion: 75 Resp: 43507

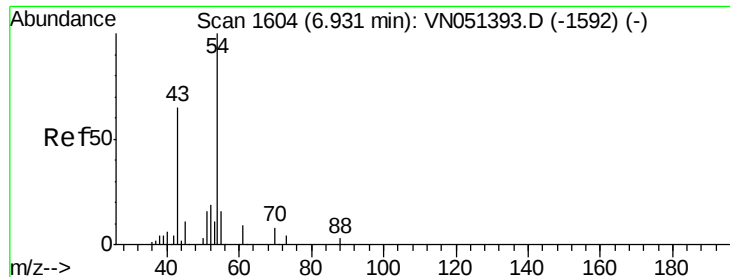
Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.3#

77 0.0 25.6 38.4#





#37

Ethyl Acetate

Concen: 0.967 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. -0.07 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-A

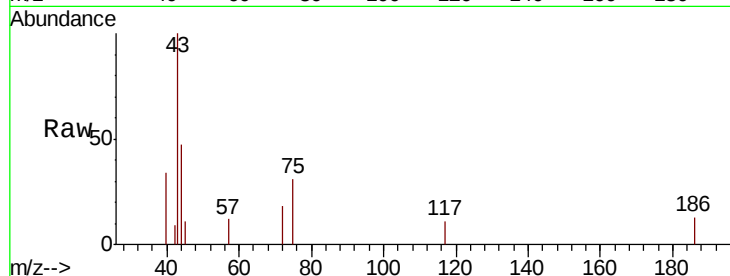
Tot Ion: 43 Resp: 6224

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

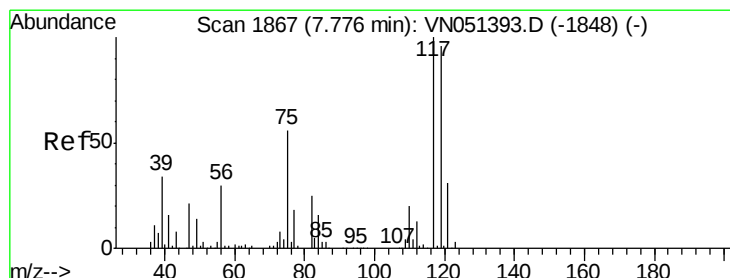
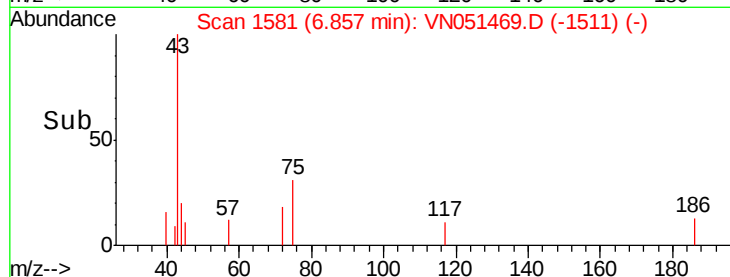
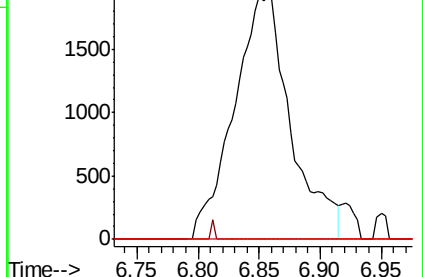
70 0.0 7.9 11.9#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051393.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051393.D (-1592) (-)



#38

Carbon Tetrachloride

Concen: 4.829 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

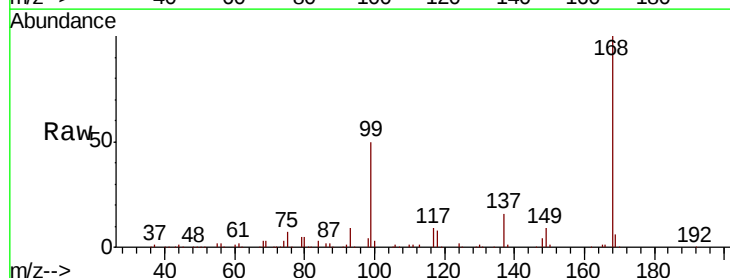
Tgt Ion: 117 Resp: 56517

Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

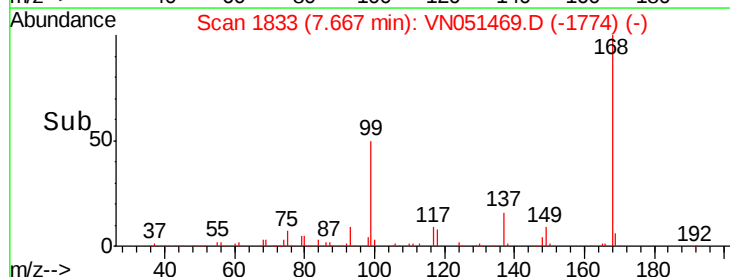
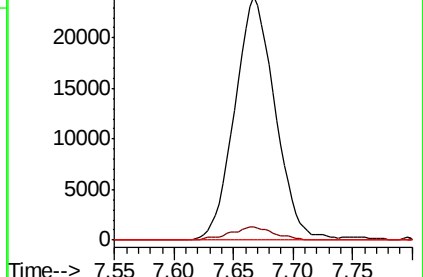
121 0.0 24.6 37.0#

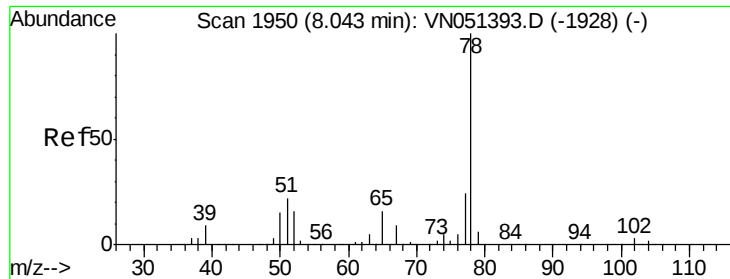


Abundance Ion 116.80 (116.50 to 117.50): VN051393.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN051393.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051393.D (-1848) (-)





#40

Benzene

Concen: 0.550 ug/l

RT: 8.05 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

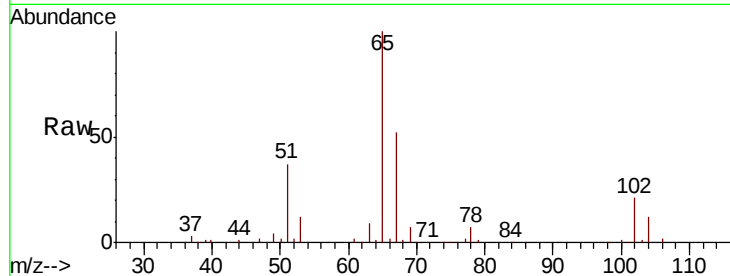
JC-02-092118-A

Tot Ion: 78 Resp: 18071

Ion Ratio Lower Upper

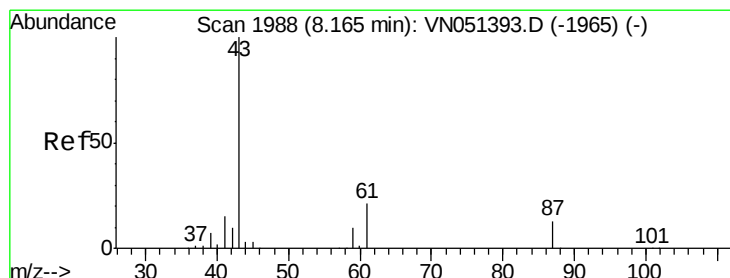
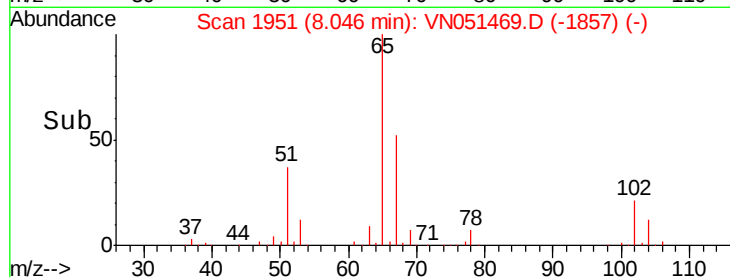
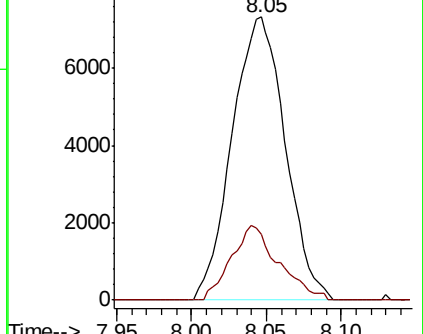
78 100

77 23.3 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#43

Isopropyl Acetate

Concen: 17.330 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

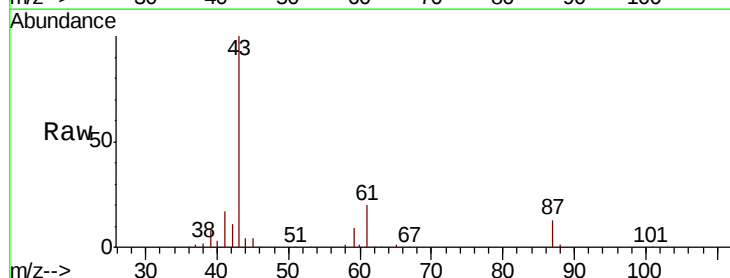
Tgt Ion: 43 Resp: 201612

Ion Ratio Lower Upper

43 100

61 19.4 16.8 25.2

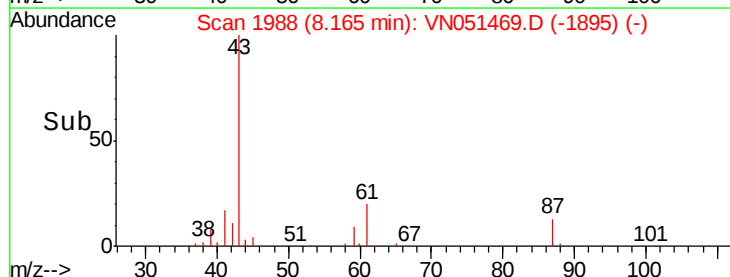
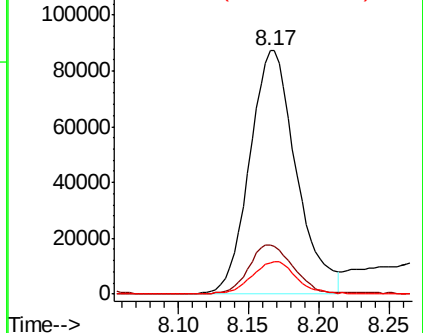
87 12.8 10.7 16.1

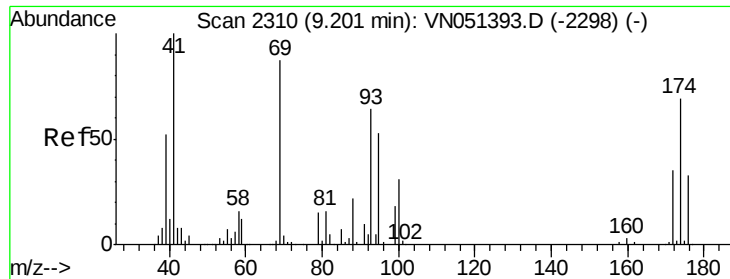


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

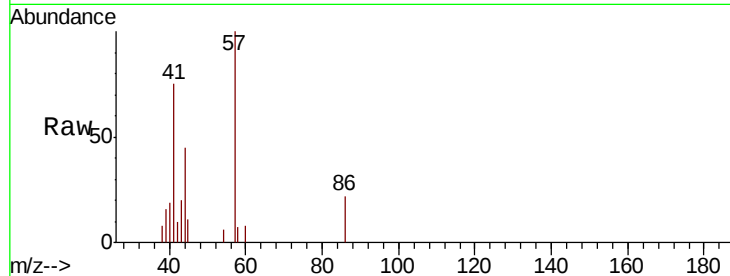




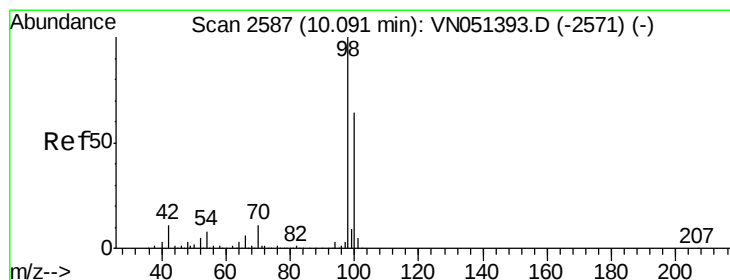
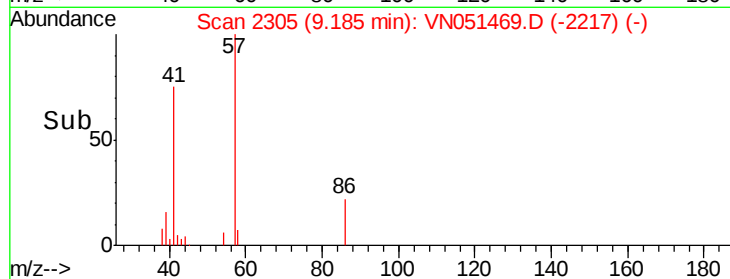
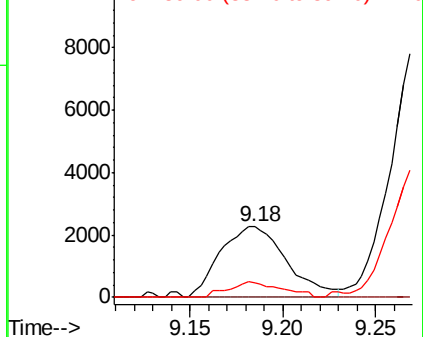
#48
Methvl methacrylate
Concen: 0.970 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-A

Tot Ion: 41 Resp: 5627
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 17.6 43.8 65.8#

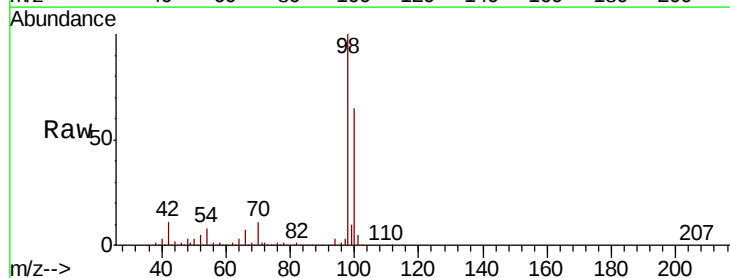


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

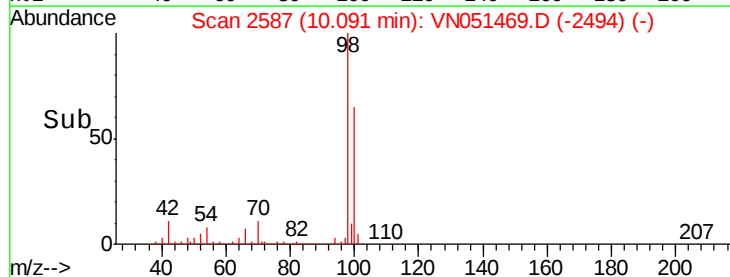
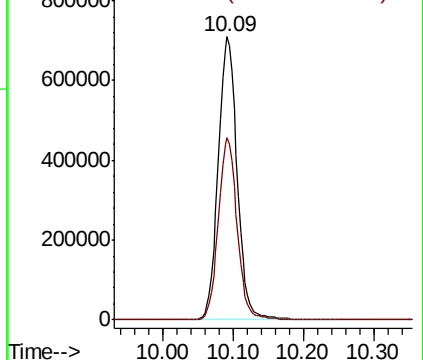


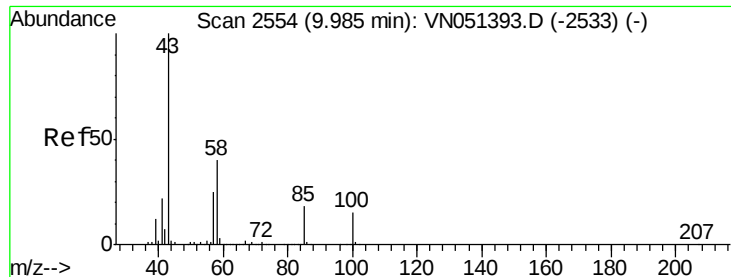
#50
Toluene-d8
Concen: 45.683 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

Tgt Ion: 98 Resp: 1329232
Ion Ratio Lower Upper
98 100
100 63.7 50.6 75.8



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

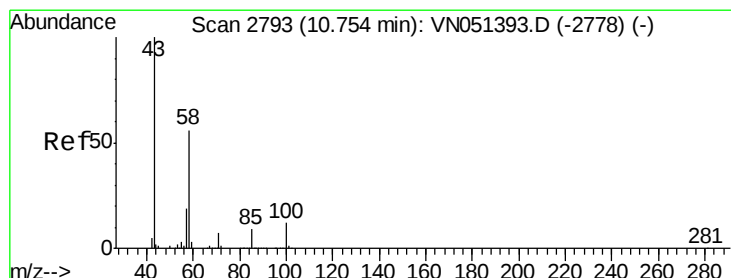
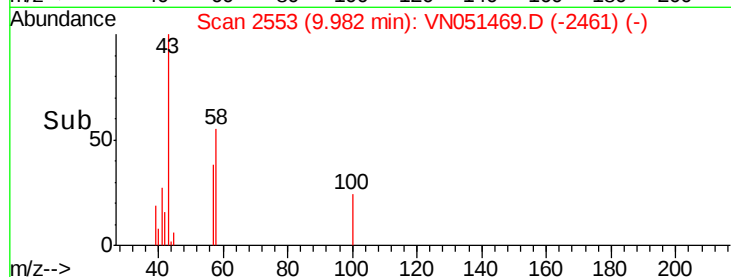
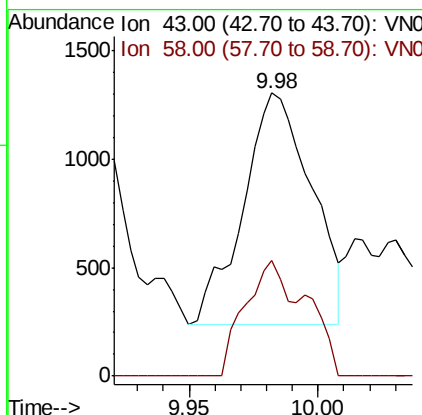
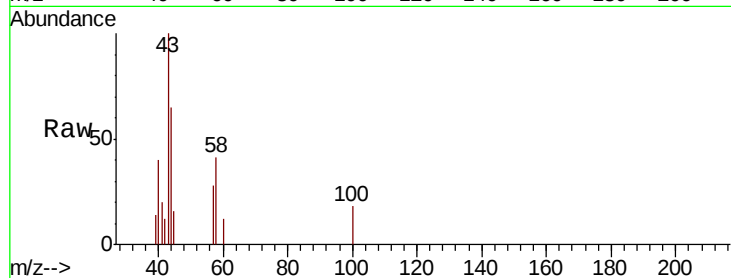




#51
 4-Methyl-2-Pentanone
 Concen: 0.308 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

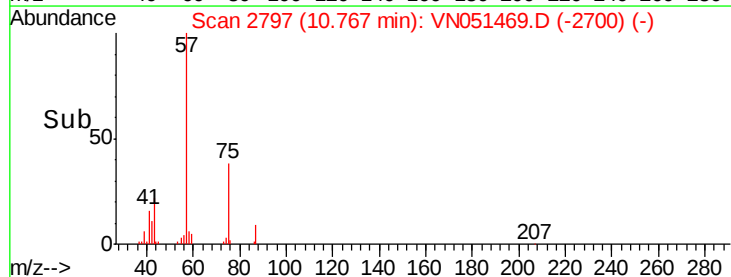
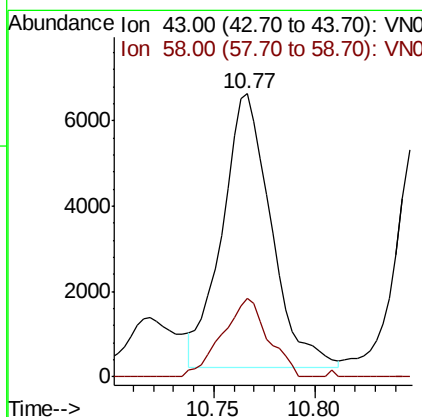
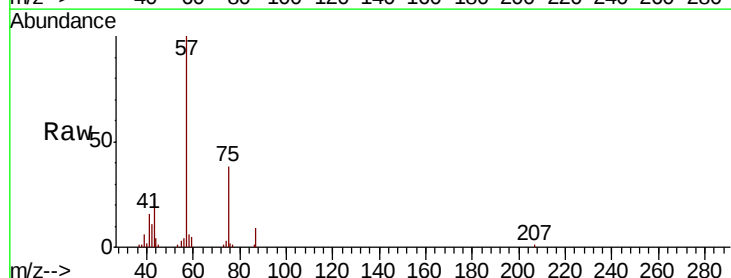
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-A

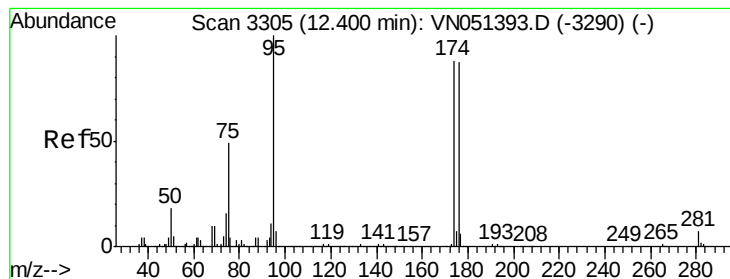
Tot Ion: 43 Resp: 1971
 Ion Ratio Lower Upper
 43 100
 58 44.3 31.5 47.3



#59
 2-Hexanone
 Concen: 2.619 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

Tgt Ion: 43 Resp: 10864
 Ion Ratio Lower Upper
 43 100
 58 26.8 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 37.182 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-A

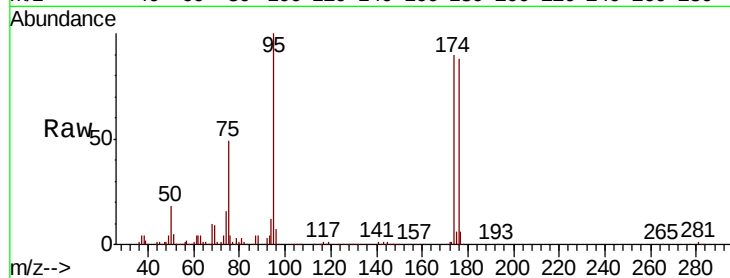
Tot Ion: 95 Resp: 349985

Ion Ratio Lower Upper

95 100

174 90.7 0.0 181.6

176 87.7 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

12.40

250000

200000

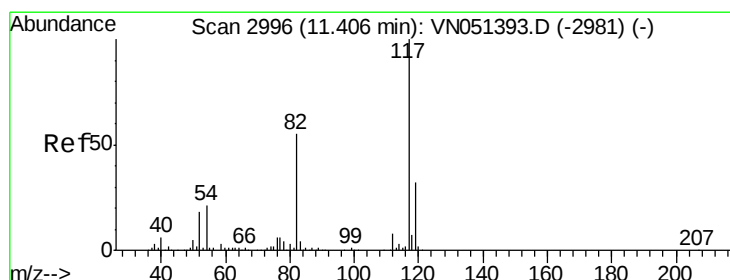
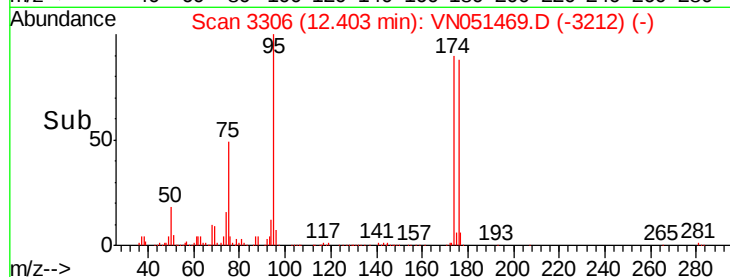
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

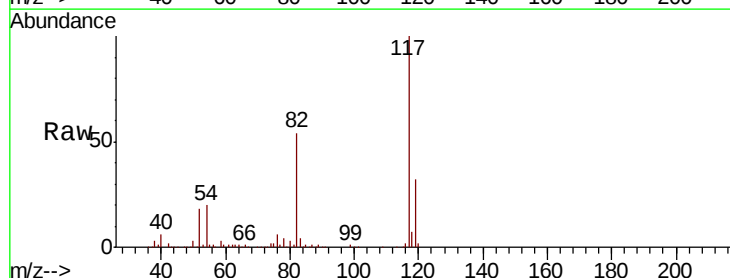
Tgt Ion: 117 Resp: 791574

Ion Ratio Lower Upper

117 100

82 54.5 44.2 66.2

119 31.8 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

11.41

600000

500000

400000

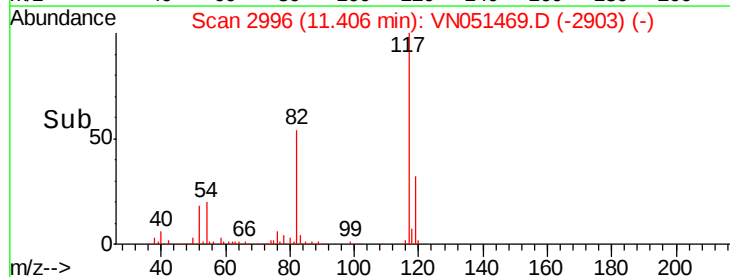
300000

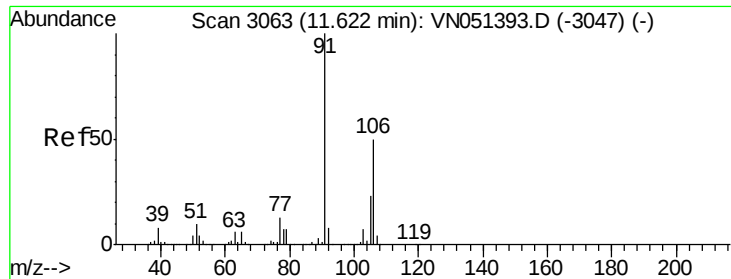
200000

100000

0

Time--> 11.30 11.40 11.50

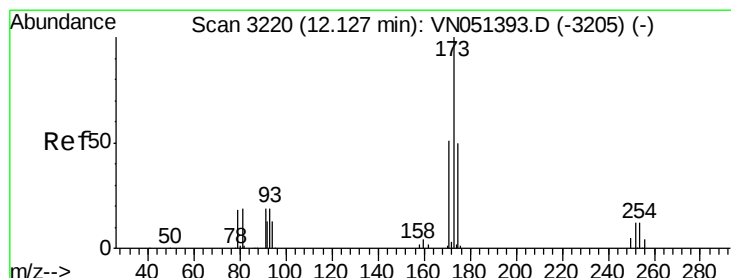
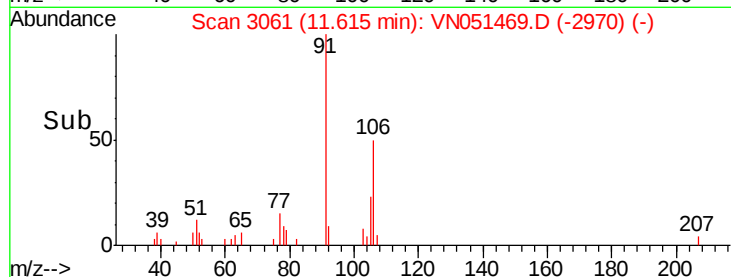
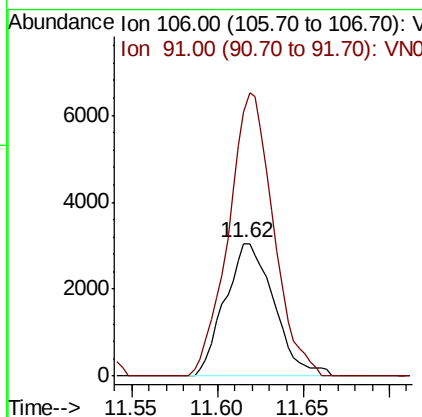
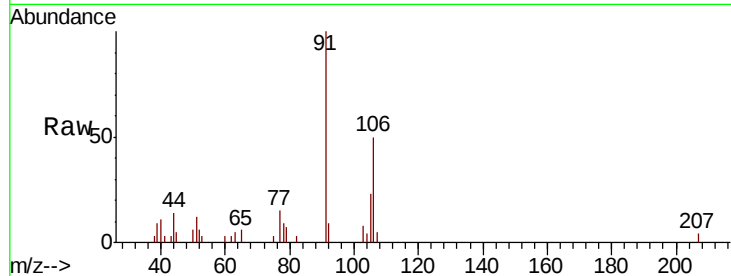




#68
m/p-Xvlenes
Concen: 0.458 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

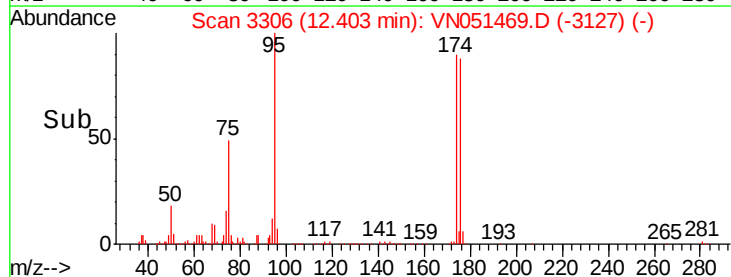
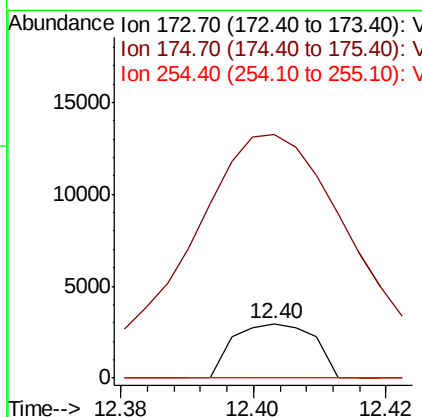
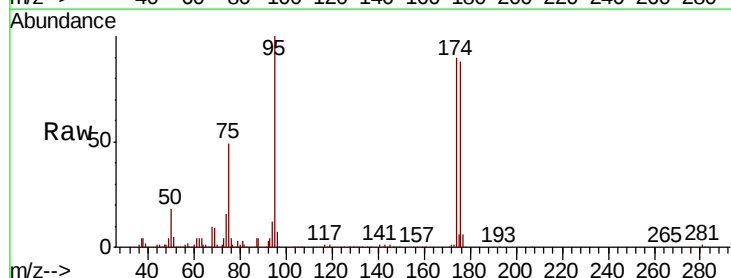
Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-A

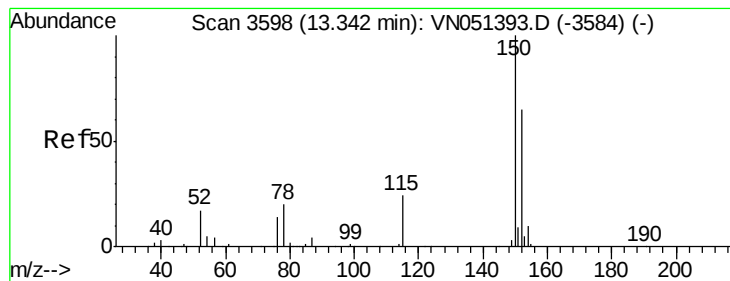
Tot Ion:106 Resp: 6064
Ion Ratio Lower Upper
106 100
91 195.2 161.3 241.9



#71
Bromoform
Concen: 0.476 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051469.D
Acq: 24 Sep 2018 18:25

Tgt Ion:173 Resp: 2499
Ion Ratio Lower Upper
173 100
175 789.4 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-A

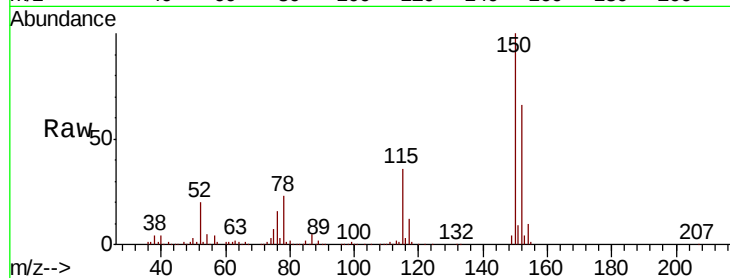
Tot Ion:152 Resp: 266773

Ion Ratio Lower Upper

152 100

115 56.5 28.3 84.9

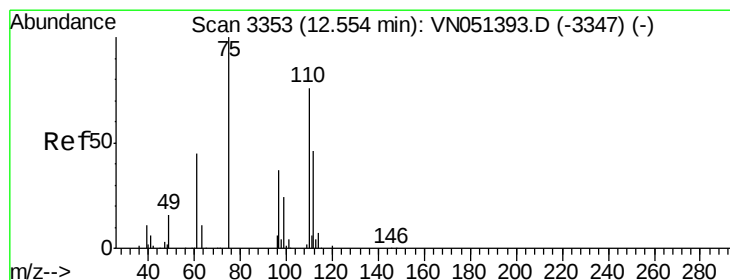
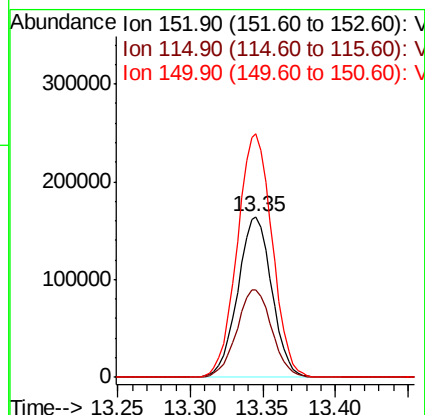
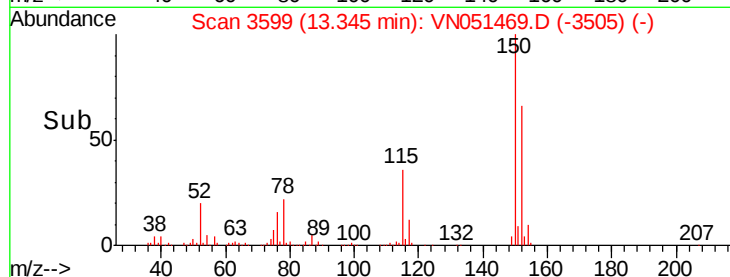
150 156.0 0.0 353.6



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: 38.401 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051469.D

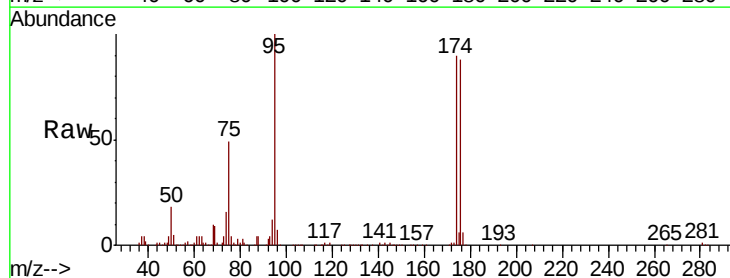
Acq: 24 Sep 2018 18:25

Tgt Ion: 75 Resp: 170063

Ion Ratio Lower Upper

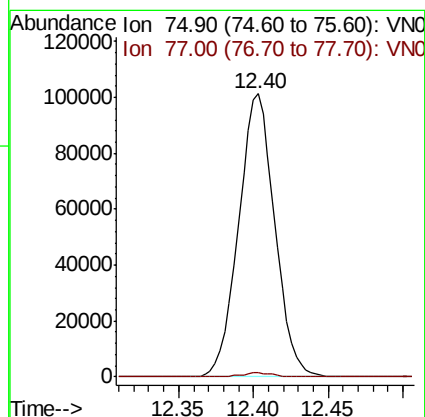
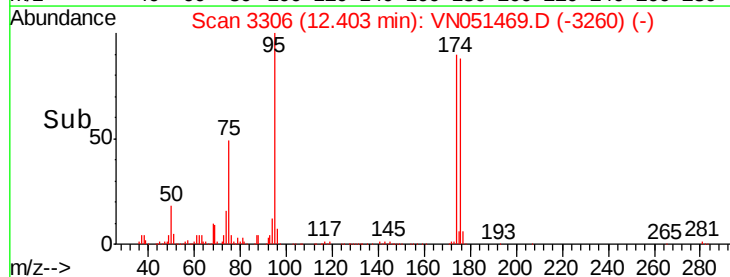
75 100

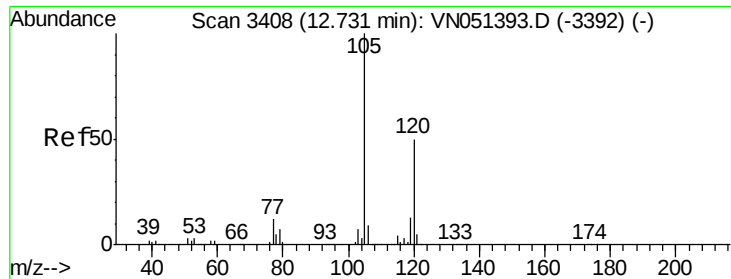
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.308 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

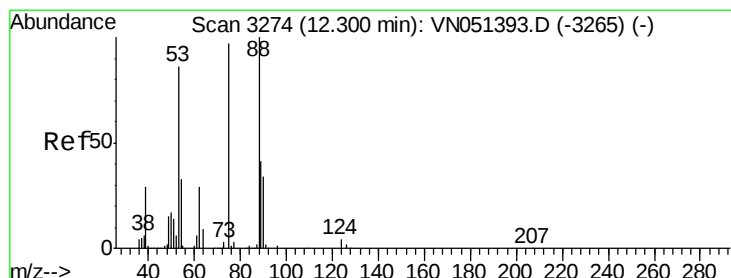
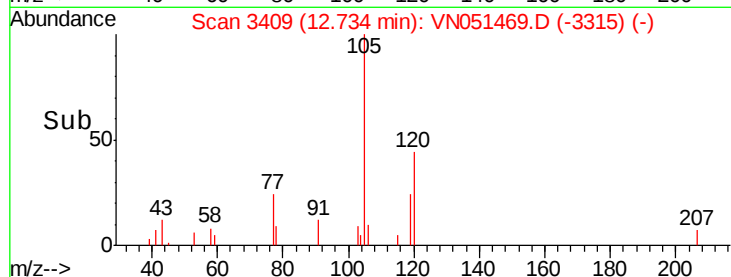
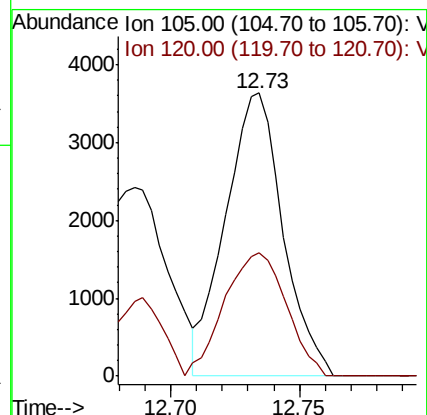
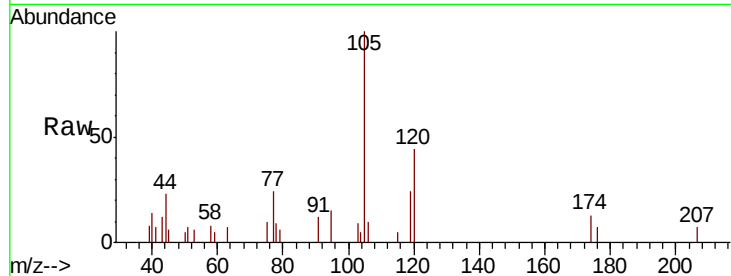
JC-02-092118-A

Tot Ion:105 Resp: 5654

Ion Ratio Lower Upper

105 100

120 46.9 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 118.081 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051469.D

Acq: 24 Sep 2018 18:25

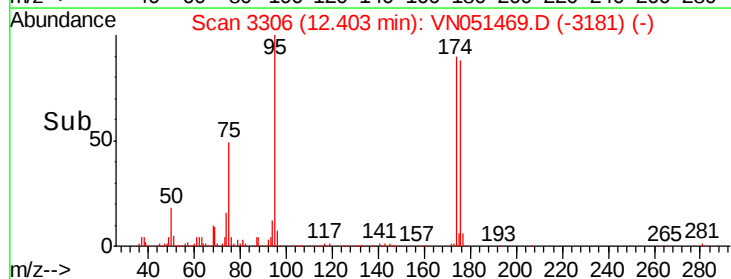
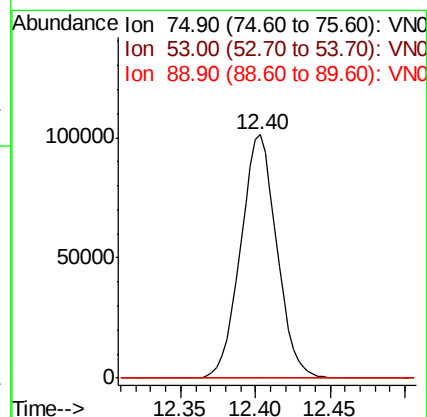
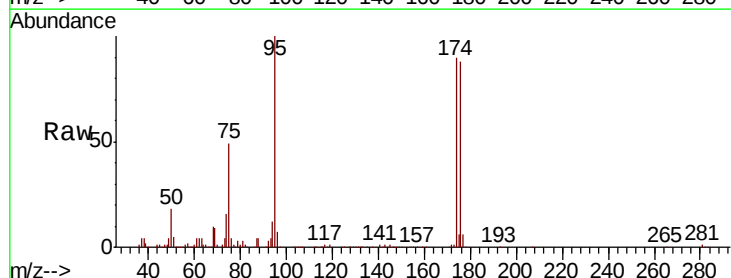
Tgt Ion: 75 Resp: 170063

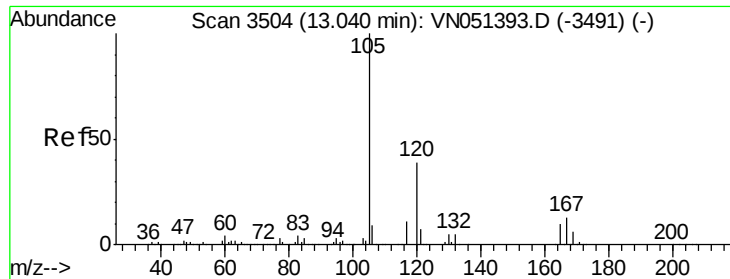
Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 36.7 55.1#

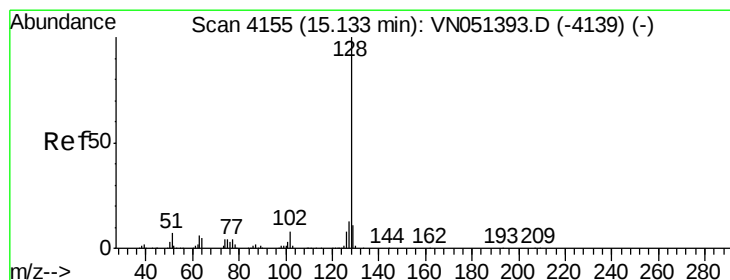
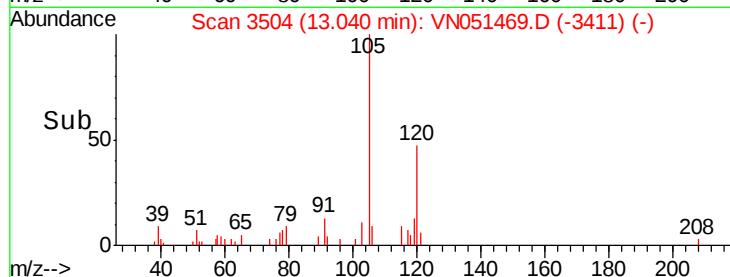
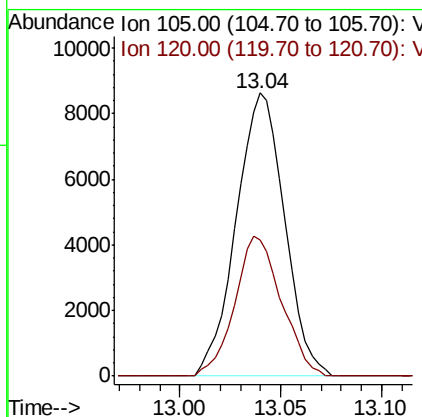
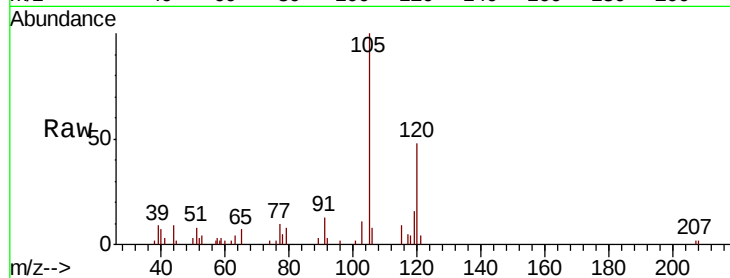




#84
 1,2,4-Trimethylbenzene
 Concen: 0.782 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-A

Tot Ion:105 Resp: 14466
 Ion Ratio Lower Upper
 105 100
 120 47.6 22.9 68.7



#95
 Naphthalene
 Concen: 8.417 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051469.D
 Acq: 24 Sep 2018 18:25

Tgt Ion:128 Resp: 4409
 Ion Ratio Lower Upper
 128 100
 127 16.0 10.5 15.7#
 129 7.4 8.6 12.8#

