

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053799.D
 Acq On : 15 Feb 2019 14:51
 Operator : JC/SP
 Sample : K1490-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 23:24:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	677055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1147117	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1048831	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	415021	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	370888	54.61	ug/l	0.00
Spiked Amount			Recovery	=	109.22%	
35) Dibromofluoromethane	7.59	113	357524	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	10.09	98	1369290	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	12.40	95	449732	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	

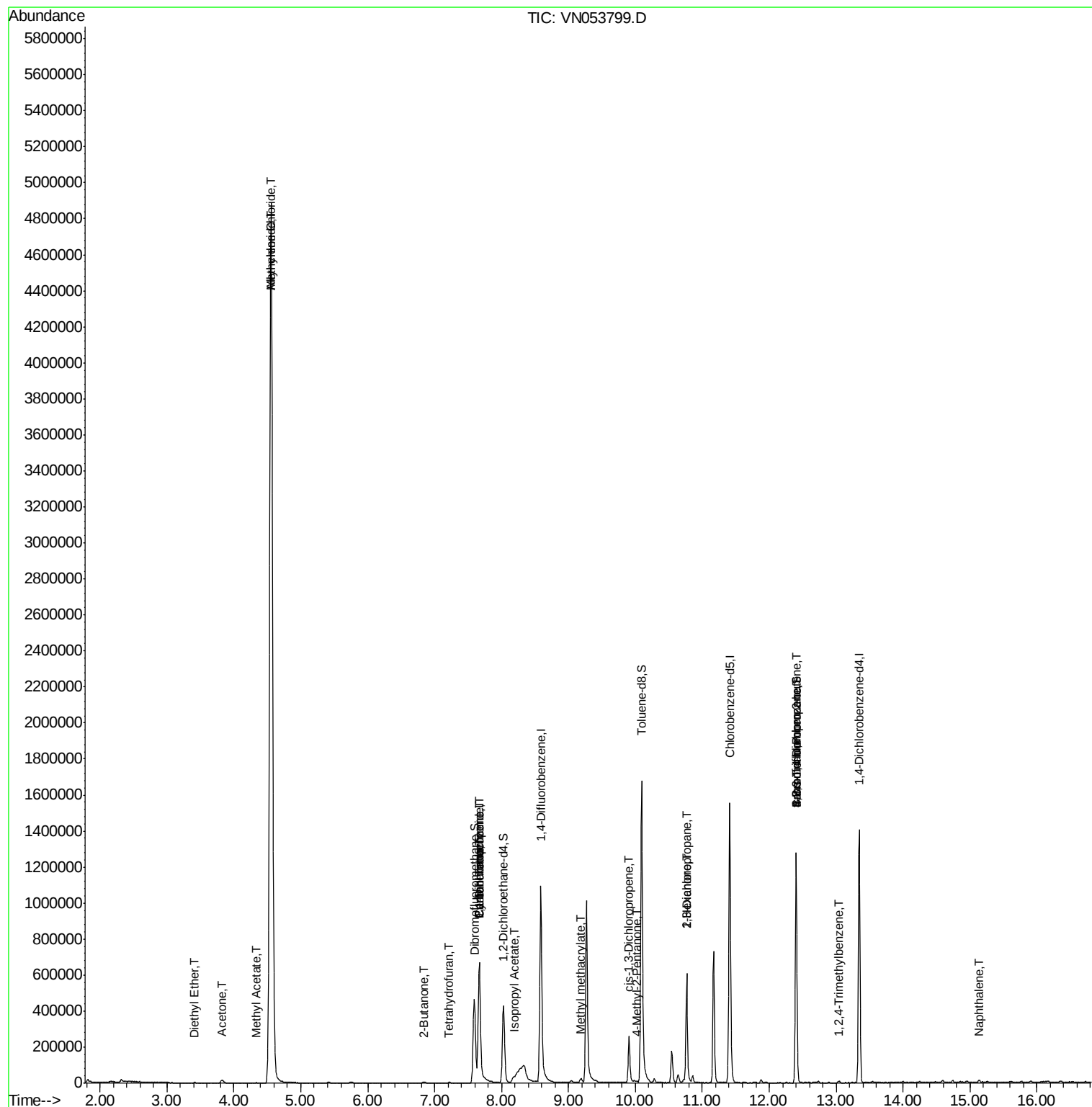
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	968	0.250	ug/l	71
14) Allyl chloride	4.55	41	138535	13.878	ug/l #	27
16) Acetone	3.82	43	26843	15.407	ug/l	98
18) Methyl Acetate	4.34	43	3225	0.625	ug/l #	83
20) Methylene Chloride	4.55	84	3935865	538.476	ug/l	98
25) 2-Butanone	6.85	43	6940	2.793	ug/l	94
29) Tetrahydrofuran	7.22	42	1484	0.930	ug/l #	66
31) Cyclohexane	7.67	56	9141	0.629	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38857	3.758	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54935	5.274	ug/l #	16
43) Isopropyl Acetate	8.18	43	31967	2.866	ug/l #	78
48) Methyl methacrylate	9.18	41	8995	1.690	ug/l #	20
51) 4-Methyl-2-Pentanone	10.02	43	5929	1.082	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	53583	4.417	ug/l #	60
57) 1,3-Dichloropropane	10.77	76	6458	0.554	ug/l #	43
59) 2-Hexanone	10.77	43	85785	23.056	ug/l #	51
71) Bromoform	12.40	173	3348	0.628	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	207475	38.921	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	207475	109.442	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	6854	0.278	ug/l	98
95) Naphthalene	15.13	128	9332	2.230	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

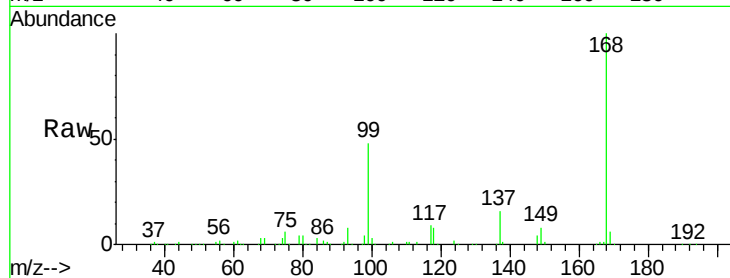
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 677055

Ion Ratio Lower Upper

168 100

99 48.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

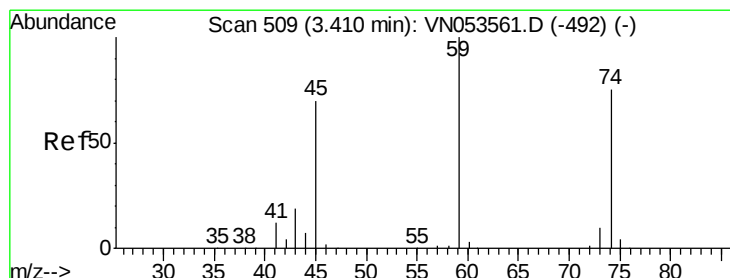
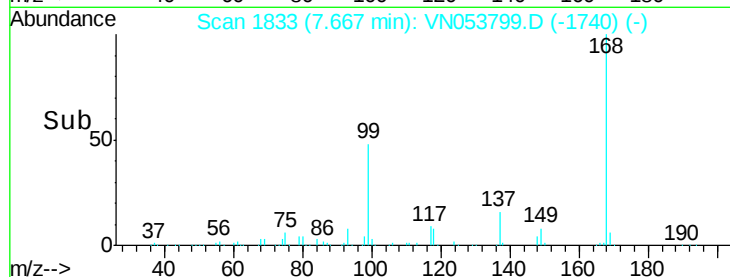
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#8

Diethyl Ether

Concen: 0.250 ug/l

RT: 3.42 min Scan# 513

Delta R.T. 0.01 min

Lab File: VN053799.D

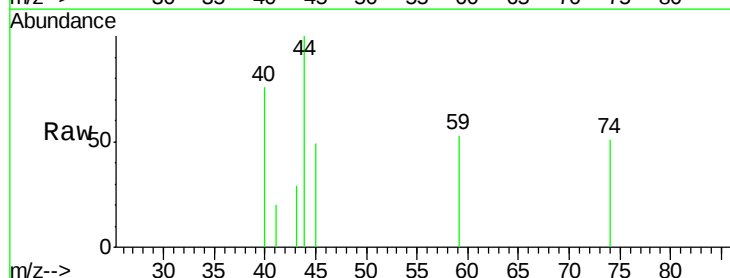
Acq: 15 Feb 2019 14:51

Tgt Ion: 74 Resp: 968

Ion Ratio Lower Upper

74 100

45 123.9 47.9 143.7



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.42

500

400

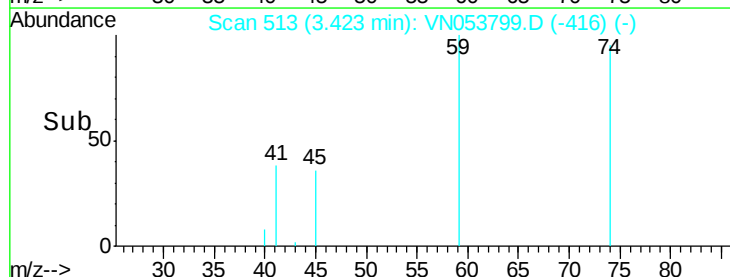
300

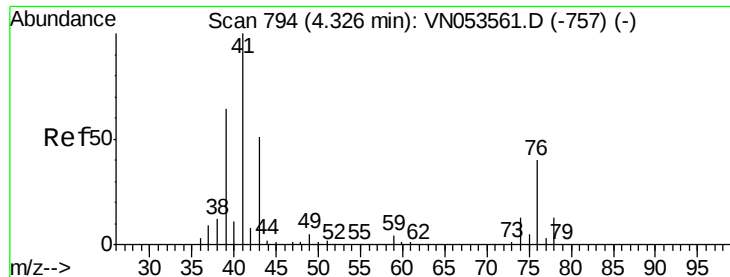
200

100

0

Time--> 3.40 3.45





#14

Allvl chloride

Concen: 13.878 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.23 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

Instrument :
MSVOA_N
ClientSampled :

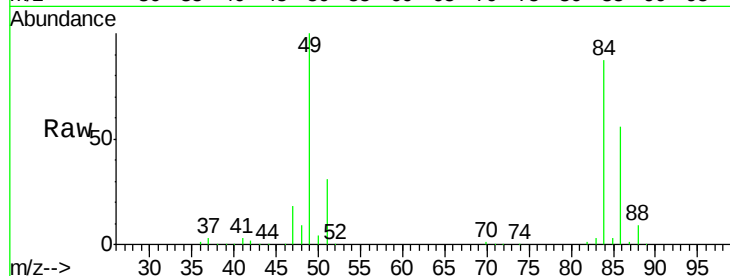
Tot Ion: 41 Resp: 138535

Ion Ratio Lower Upper

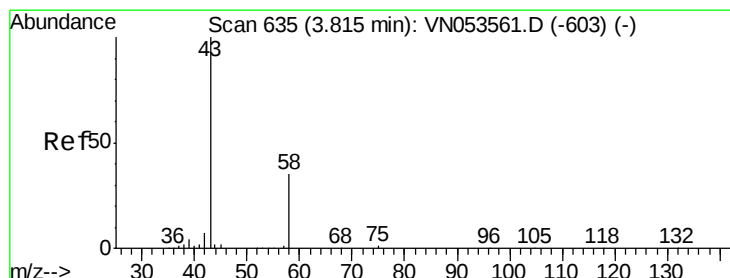
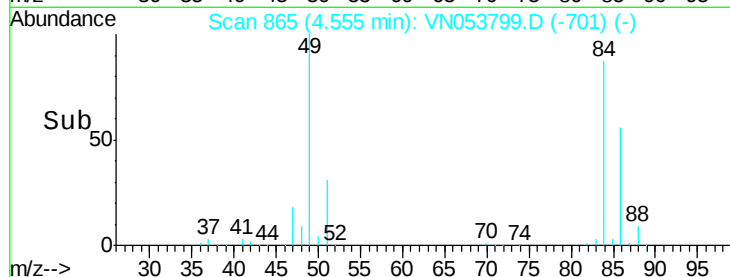
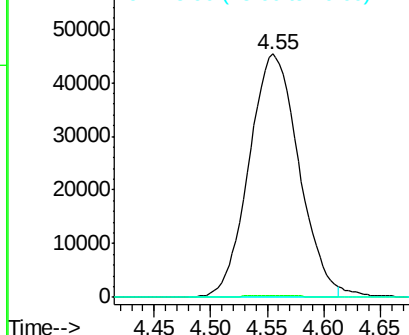
41 100

39 0.9 48.9 73.3#

76 0.0 29.4 44.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 15.407 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053799.D

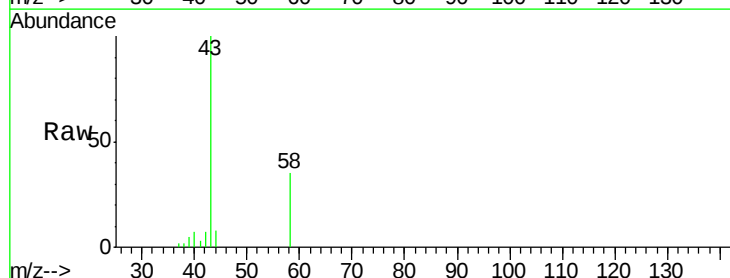
Acq: 15 Feb 2019 14:51

Tgt Ion: 43 Resp: 26843

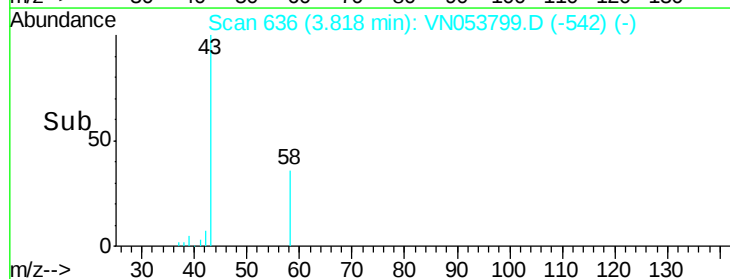
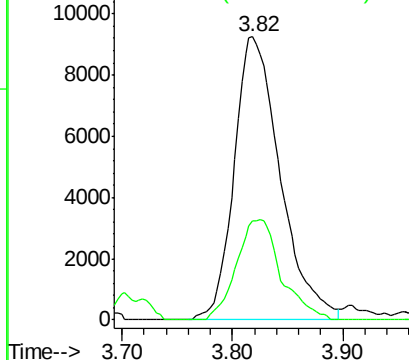
Ion Ratio Lower Upper

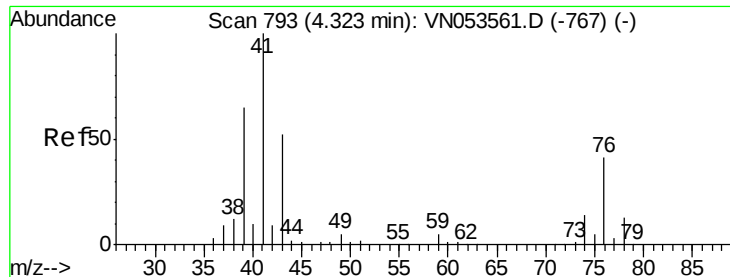
43 100

58 35.0 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

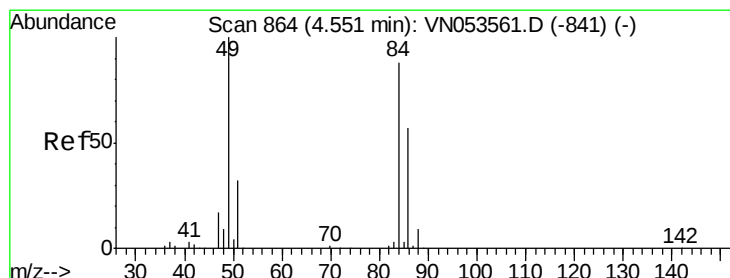
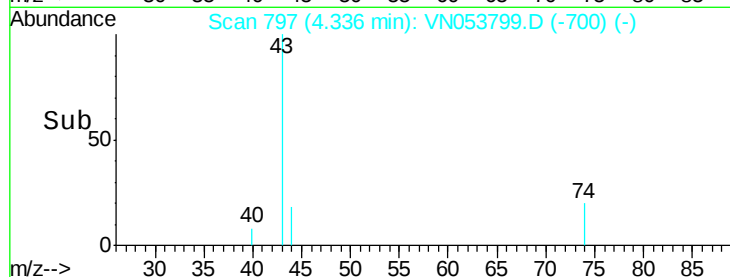
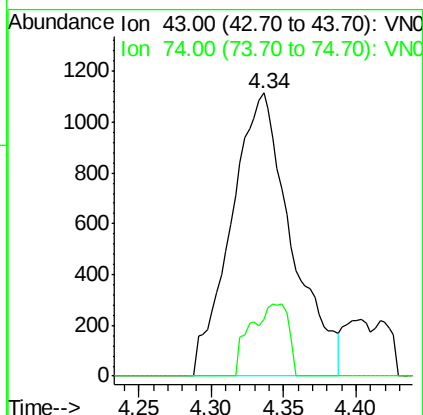
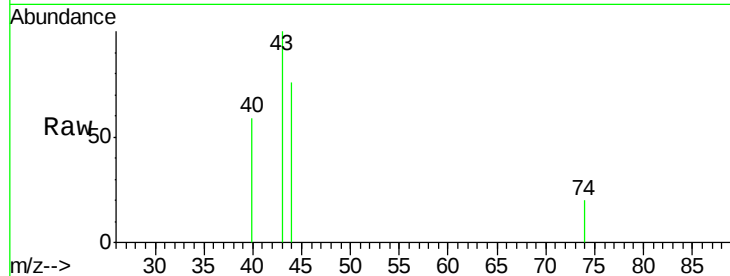




#18
Methyl Acetate
Concen: 0.625 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053799.D
Acq: 15 Feb 2019 14:51

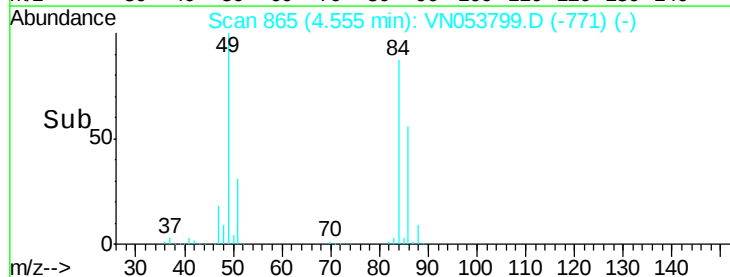
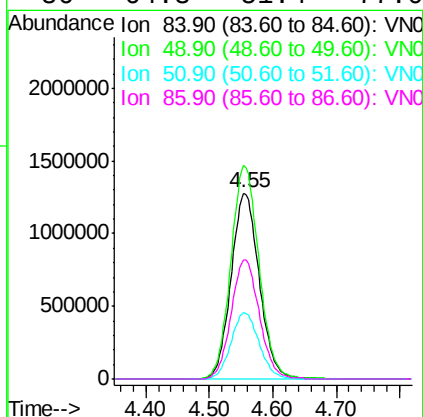
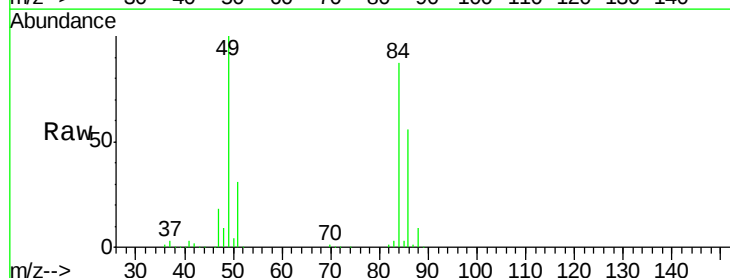
Instrument :
MSVOA_N
ClientSampled :

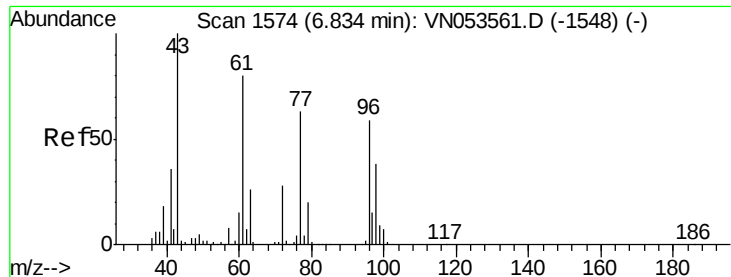
Tot Ion: 43 Resp: 3225
Ion Ratio Lower Upper
43 100
74 16.0 19.4 29.2#



#20
Methylene Chloride
Concen: 538.476 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053799.D
Acq: 15 Feb 2019 14:51

Tgt Ion: 84 Resp: 3935865
Ion Ratio Lower Upper
84 100
49 115.1 94.3 141.5
51 35.8 29.4 44.2
86 64.3 51.4 77.0





#25

2-Butanone

Concen: 2.793 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

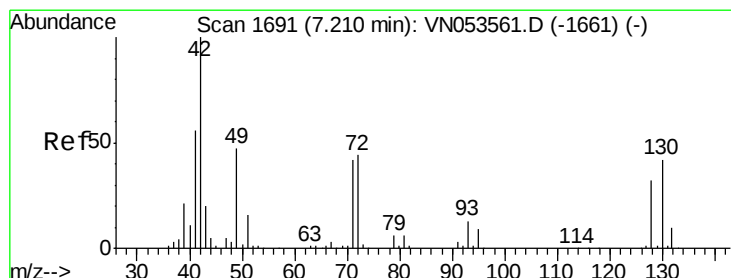
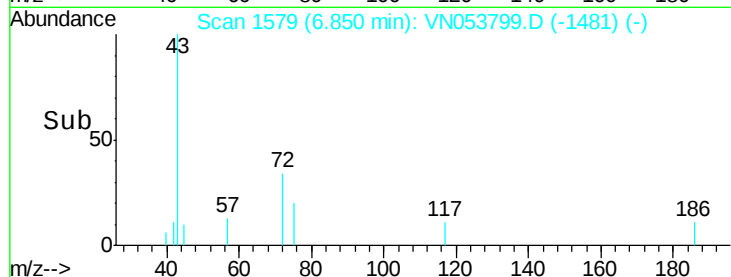
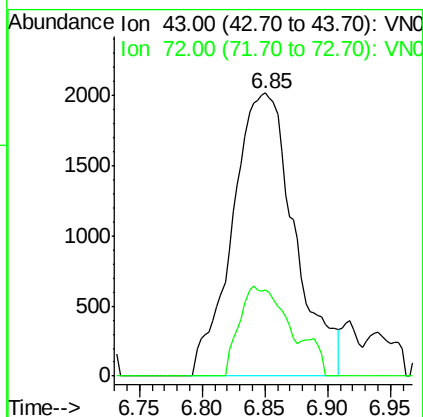
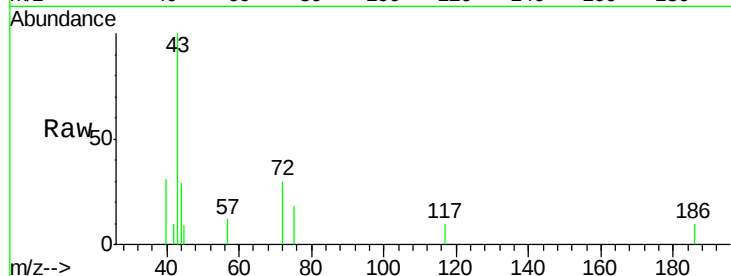
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 6940

Ion Ratio Lower Upper

43 100

72 30.5 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.930 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

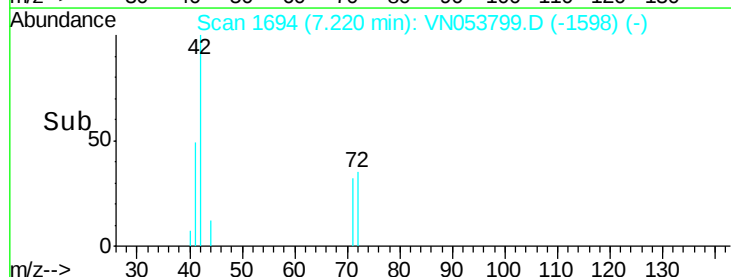
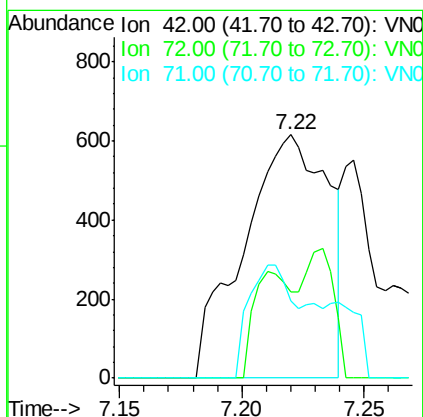
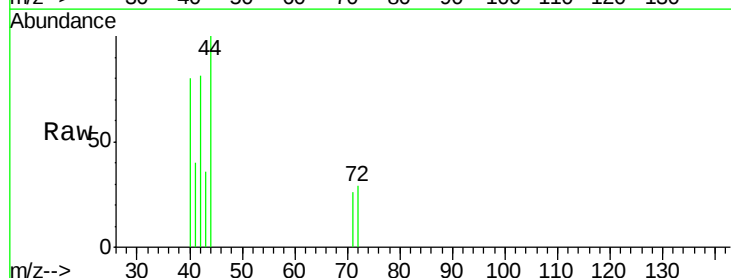
Tgt Ion: 42 Resp: 1484

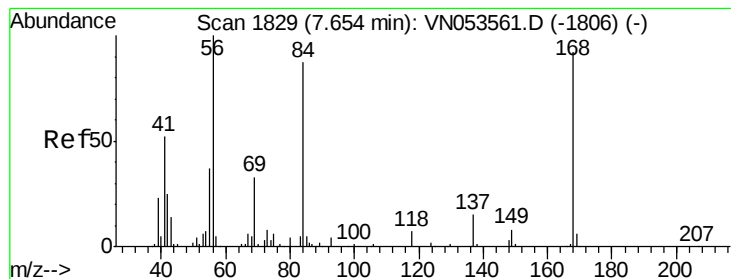
Ion Ratio Lower Upper

42 100

72 18.3 35.2 52.8#

71 23.7 33.0 49.4#





#31

Cyclohexane

Concen: 0.629 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

Instrument :

MSVOA_N

ClientSampleId :

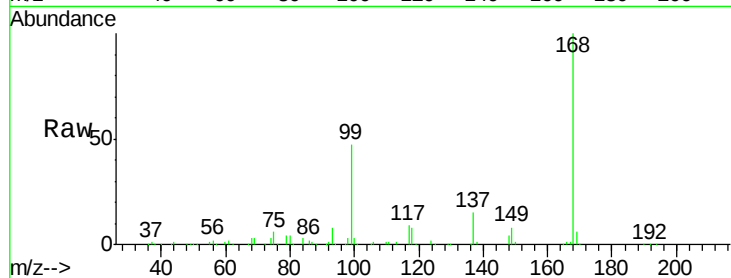
Tot Ion: 56 Resp: 9141

Ion Ratio Lower Upper

56 100

69 172.6 26.4 39.6#

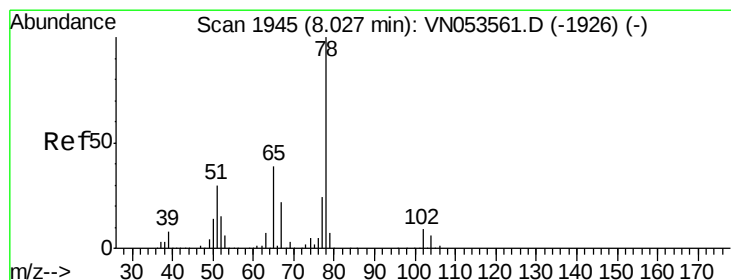
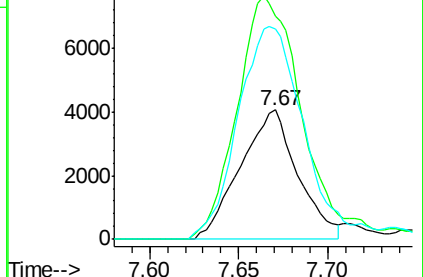
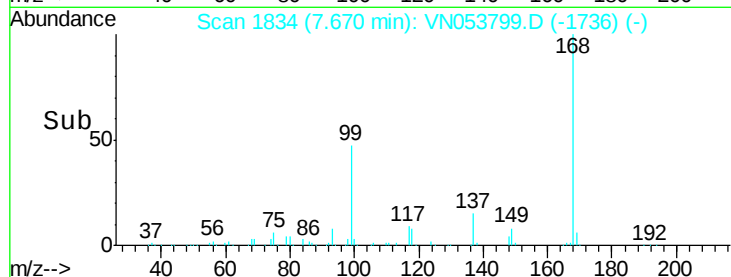
84 163.2 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN053799.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053799.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053799.D (-1736) (-)



#33

1,2-Dichloroethane-d4

Concen: 54.605 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053799.D

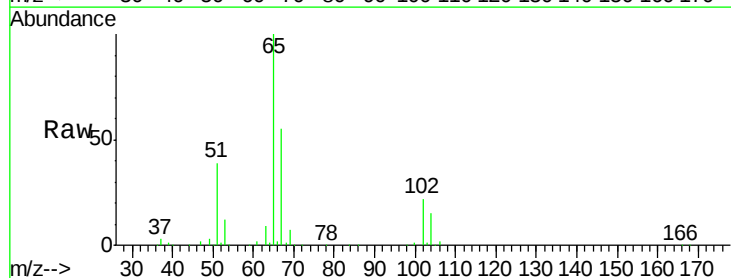
Acq: 15 Feb 2019 14:51

Tgt Ion: 65 Resp: 370888

Ion Ratio Lower Upper

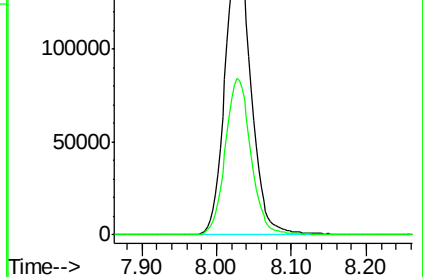
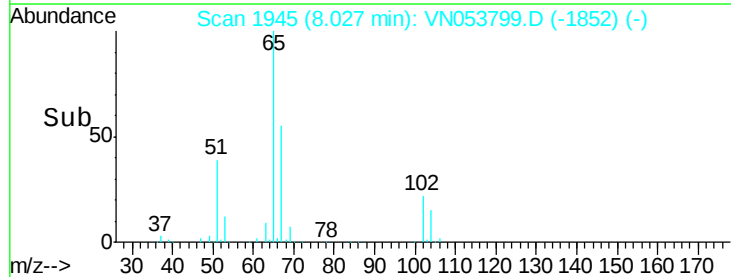
65 100

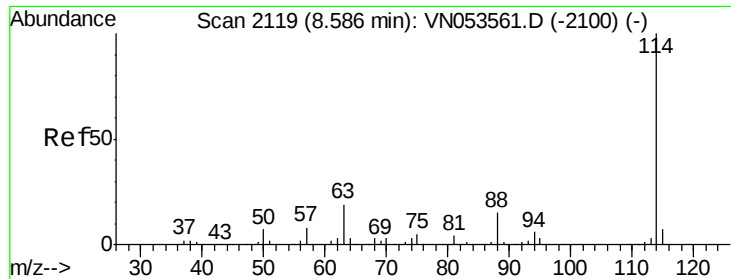
67 54.0 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN053799.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053799.D (-1852) (-)

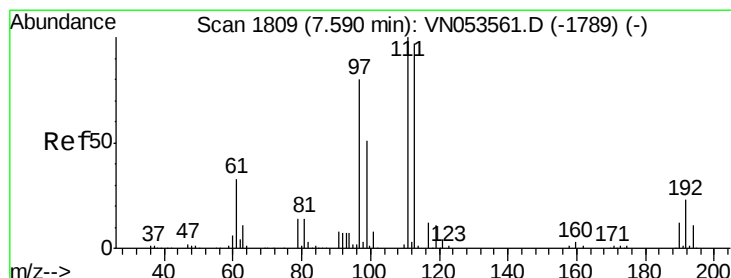
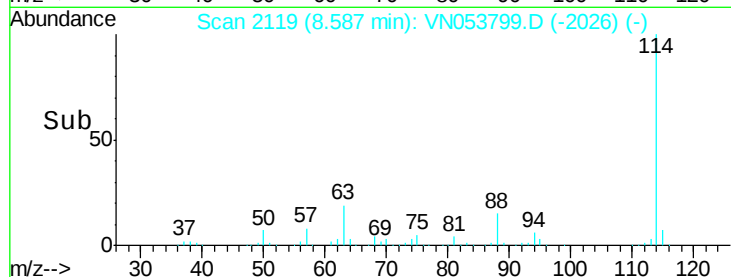
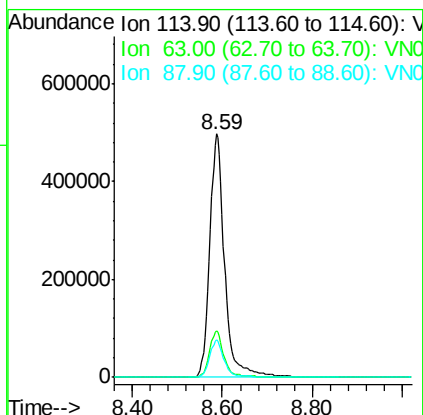
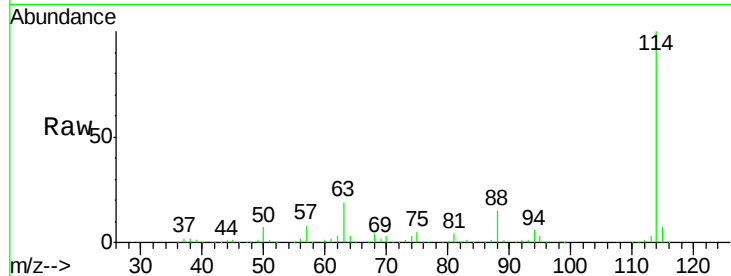




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053799.D
 Acq: 15 Feb 2019 14:51

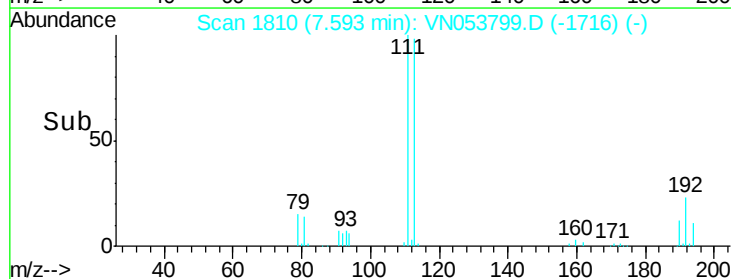
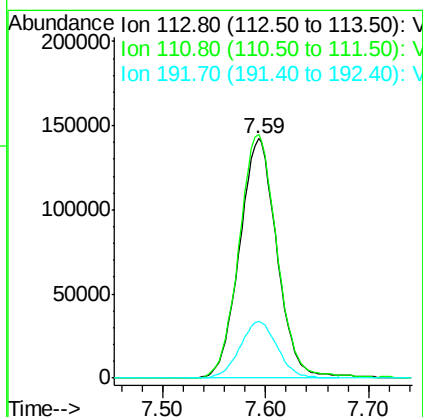
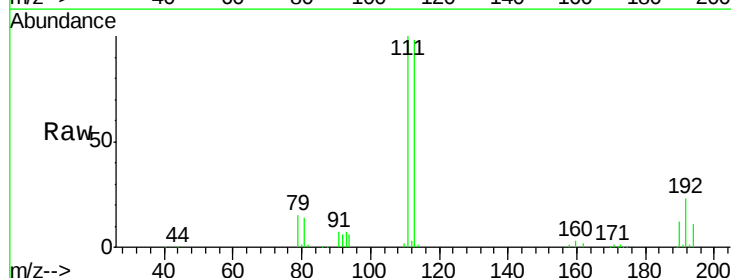
Instrument :
 MSVOA_N
 ClientSampleId :

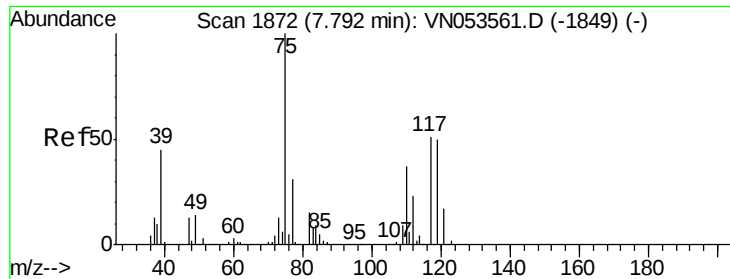
Tot Ion:114 Resp: 1147117
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.2 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 49.325 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053799.D
 Acq: 15 Feb 2019 14:51

Tgt Ion:113 Resp: 357524
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.1 121.7
 192 23.9 18.2 27.2

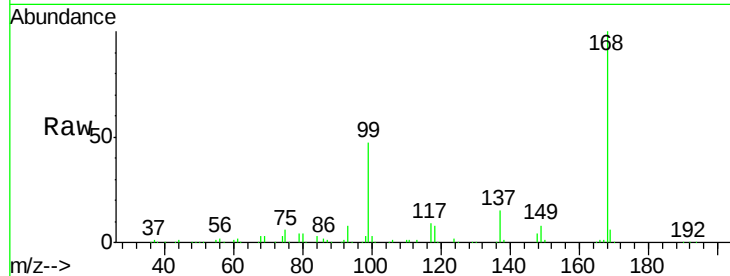




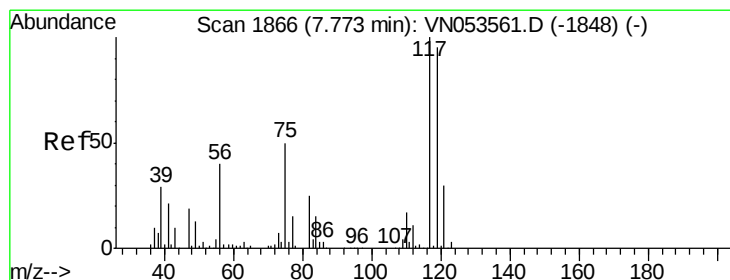
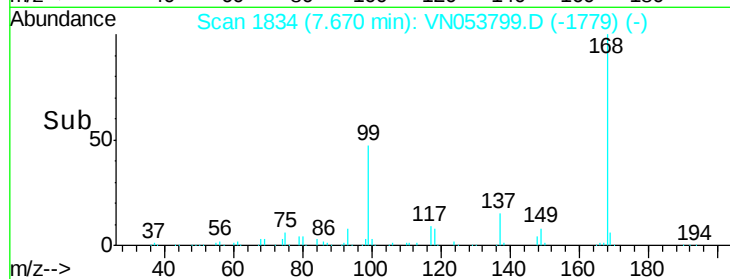
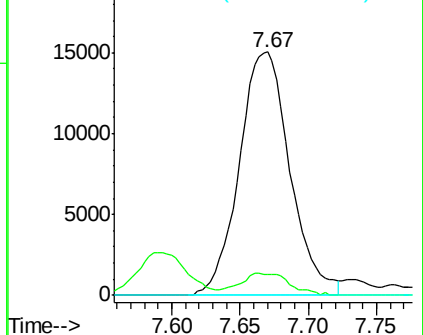
#36
 1,1-Dichloropropene
 Concen: 3.758 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN053799.D
 Acq: 15 Feb 2019 14:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.3#
77	0.0	25.1	37.7#

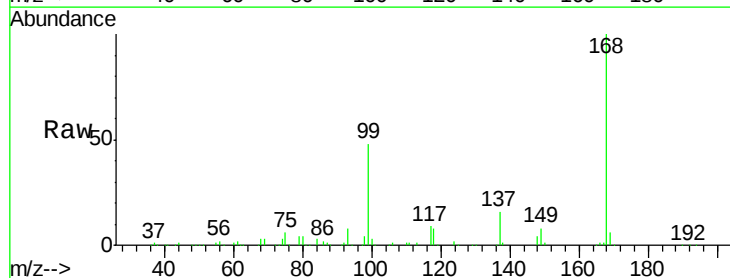


Abundance Ion 74.90 (74.60 to 75.60): VN053799.D (-1779) (-)
 Ion 109.90 (109.60 to 110.60): VN053799.D (-1779) (-)
 Ion 76.90 (76.60 to 77.60): VN053799.D (-1779) (-)

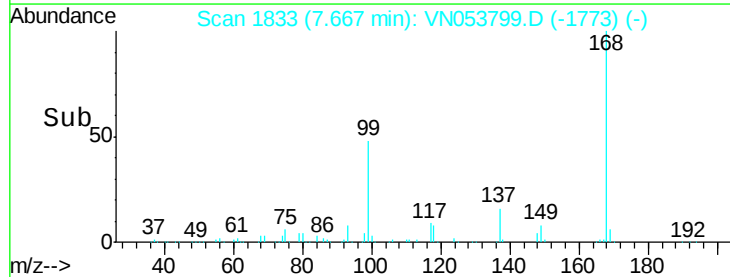
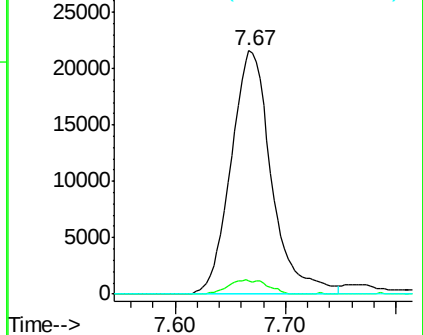


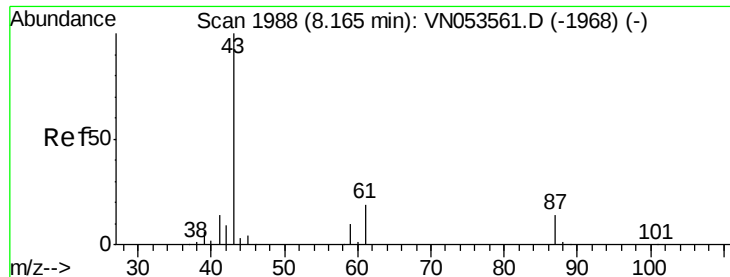
#38
 Carbon Tetrachloride
 Concen: 5.274 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053799.D
 Acq: 15 Feb 2019 14:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	77.2	115.8#
121	0.0	24.6	37.0#



Abundance Ion 116.80 (116.50 to 117.50): VN053799.D (-1773) (-)
 Ion 118.80 (118.50 to 119.50): VN053799.D (-1773) (-)
 Ion 120.80 (120.50 to 121.50): VN053799.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 2.866 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

Instrument :

MSVOA_N

ClientSampled :

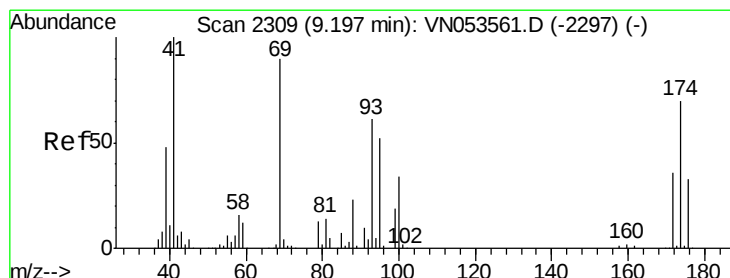
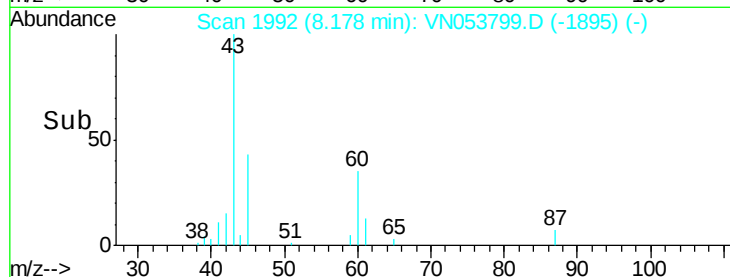
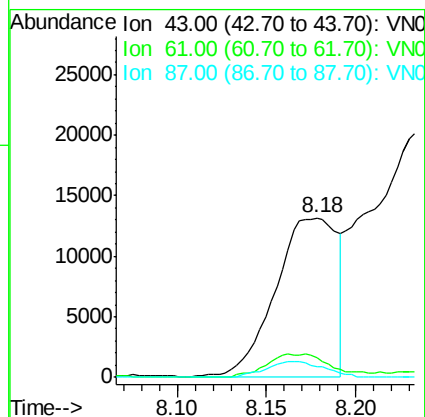
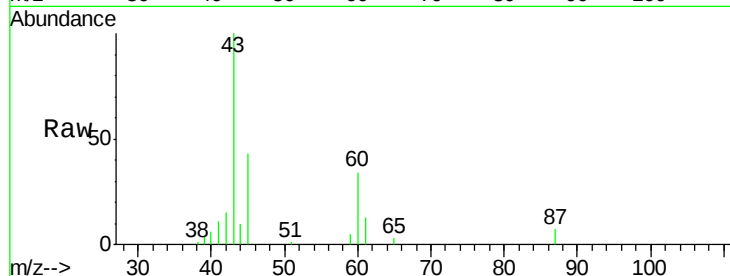
Tot Ion: 43 Resp: 31967

Ion Ratio Lower Upper

43 100

61 15.4 23.9 35.9#

87 9.2 11.0 16.6#



#48

Methyl methacrylate

Concen: 1.690 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

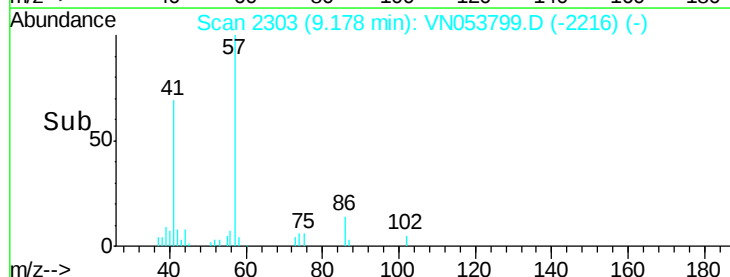
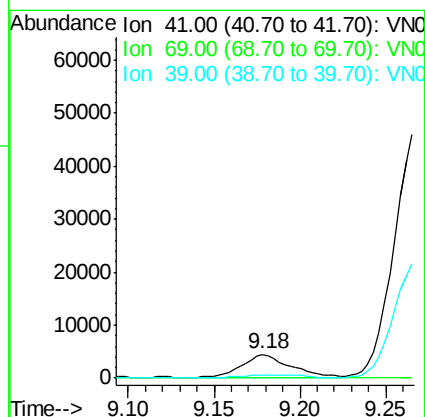
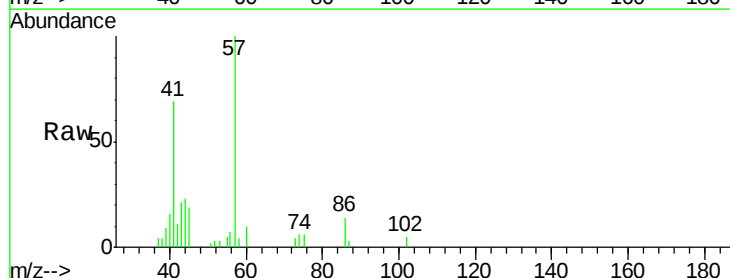
Tgt Ion: 41 Resp: 8995

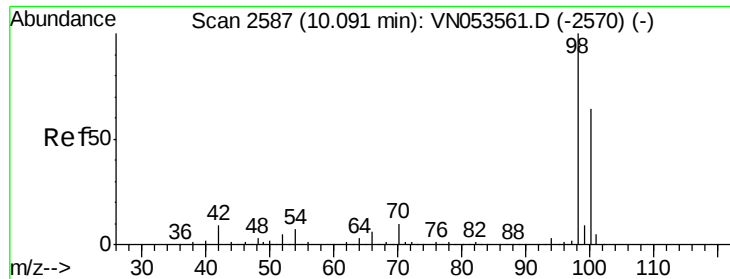
Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

39 16.0 40.0 60.0#





#50

Toluene-d8

Concen: 50.312 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

Instrument :

MSVOA_N

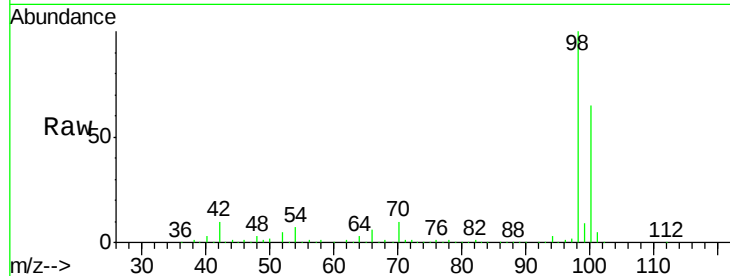
ClientSampleId :

Tot Ion: 98 Resp: 1369290

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)

10.09

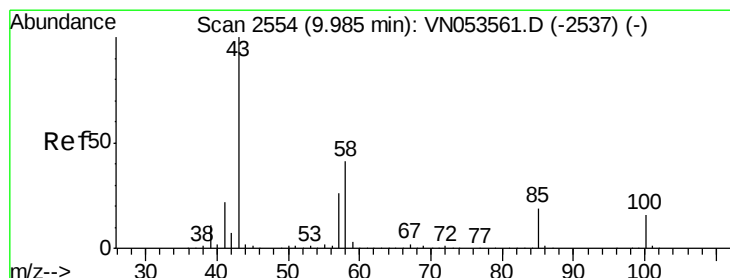
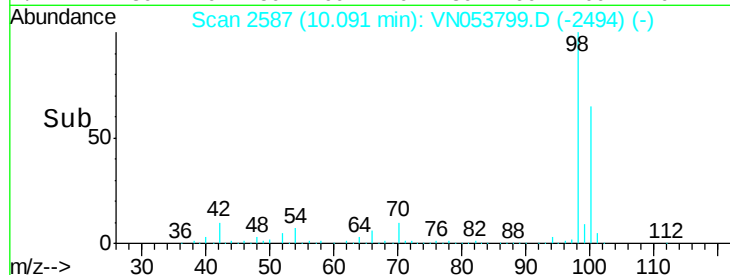
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.082 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053799.D

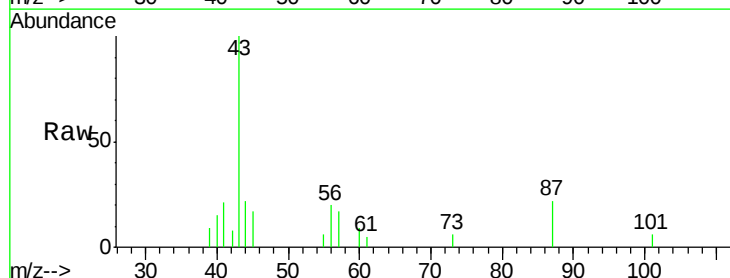
Acq: 15 Feb 2019 14:51

Tgt Ion: 43 Resp: 5929

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2537) (-)

10.02

5000

4000

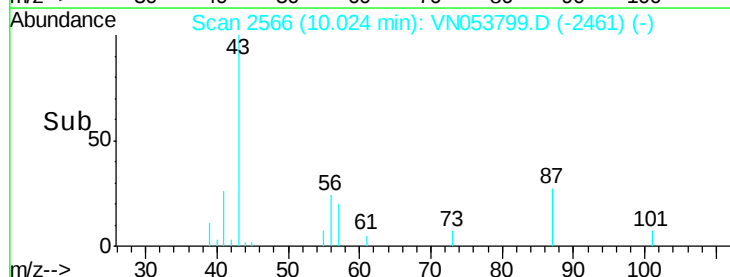
3000

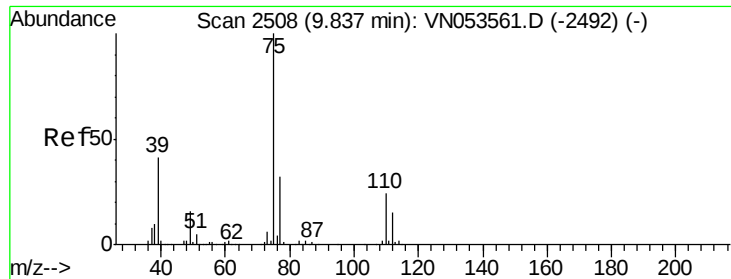
2000

1000

0

Time-->



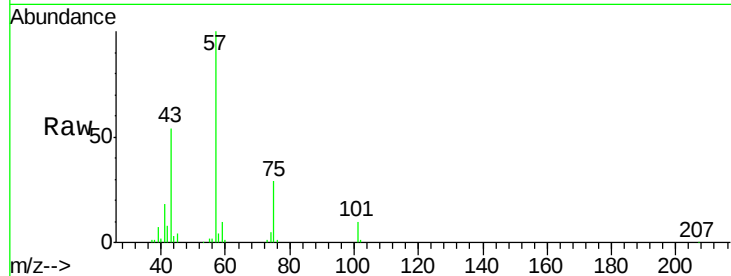


#54

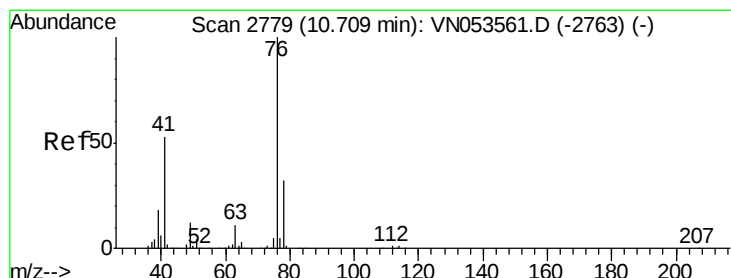
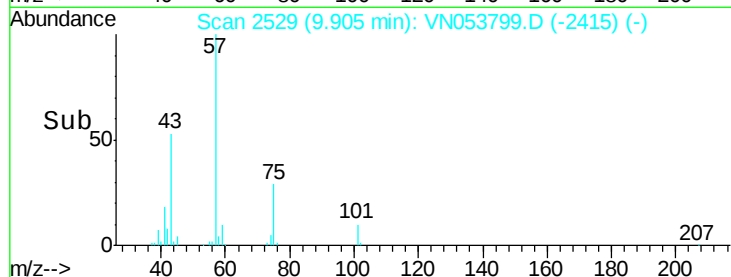
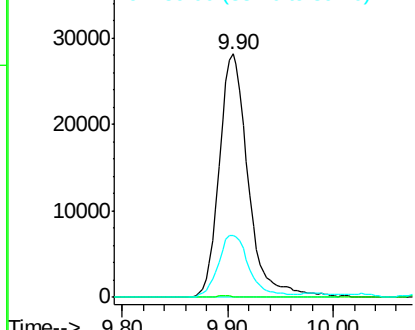
cis-1,3-Dichloropropene
 Concen: 4.417 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053799.D
 Acq: 15 Feb 2019 14:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 53583
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.6#
 39 25.5 33.4 50.0#



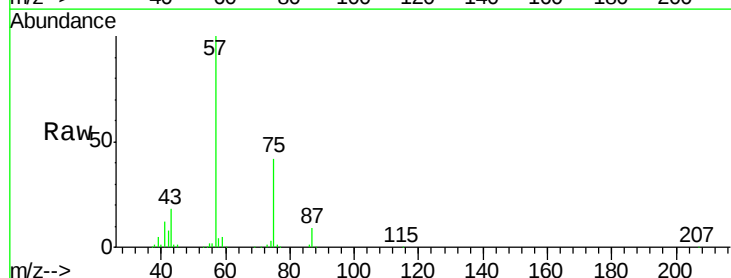
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



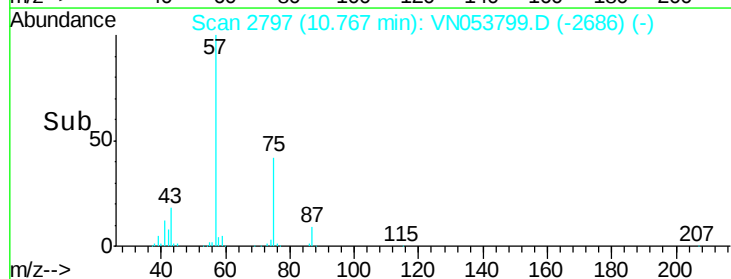
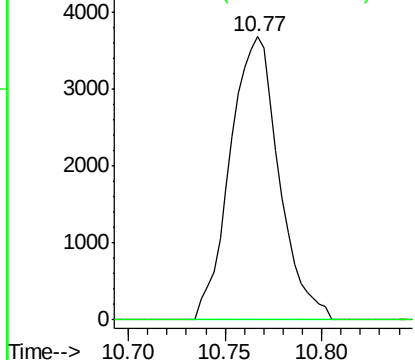
#57

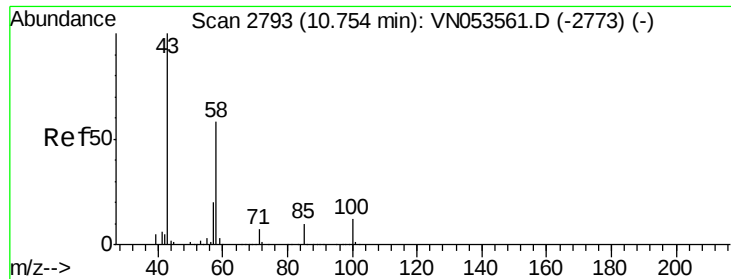
1,3-Dichloropropane
 Concen: 0.554 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053799.D
 Acq: 15 Feb 2019 14:51

Tgt Ion: 76 Resp: 6458
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

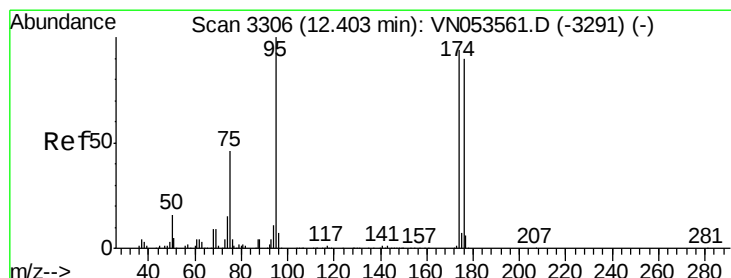
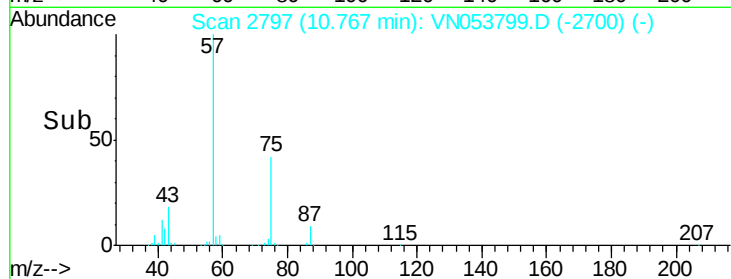
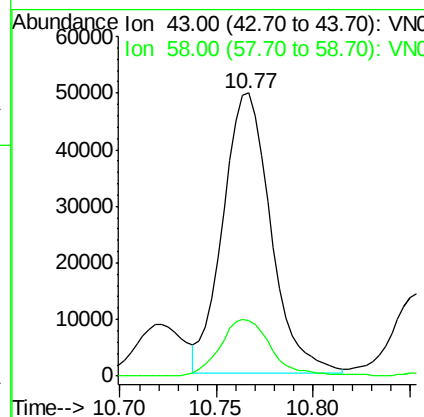
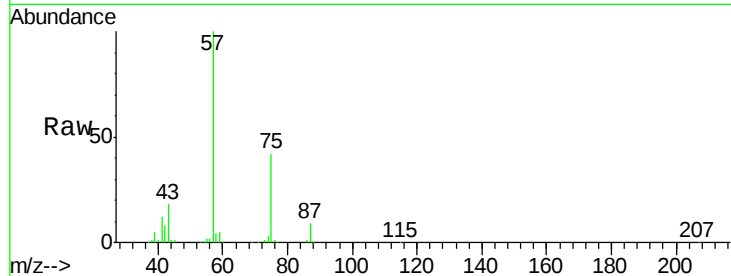




#59
2-Hexanone
Concen: 23.056 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053799.D
Acq: 15 Feb 2019 14:51

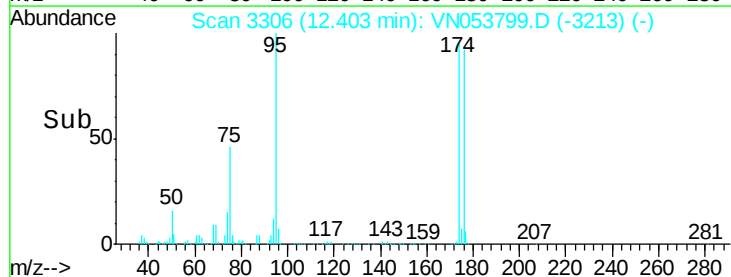
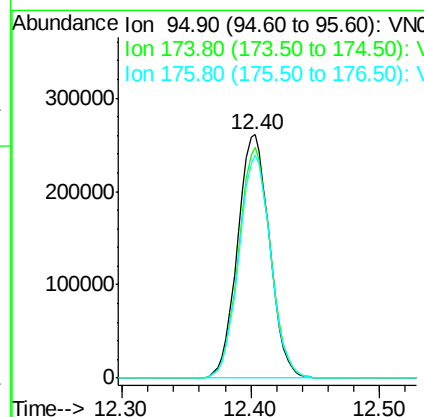
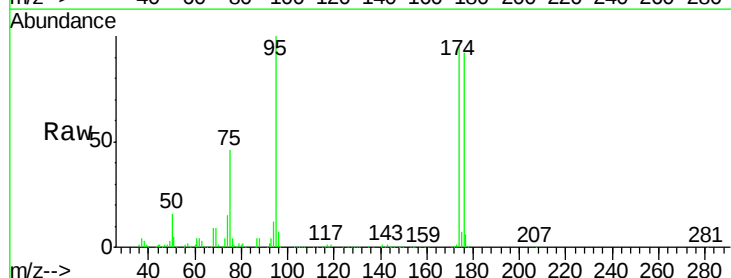
Instrument :
MSVOA_N
ClientSampled :

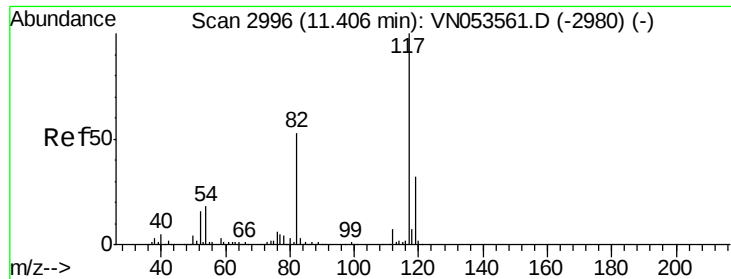
Tot Ion: 43 Resp: 85785
Ion Ratio Lower Upper
43 100
58 21.4 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 49.546 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053799.D
Acq: 15 Feb 2019 14:51

Tgt Ion: 95 Resp: 449732
Ion Ratio Lower Upper
95 100
174 94.2 0.0 183.2
176 90.9 0.0 177.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

Instrument :

MSVOA_N

ClientSampled :

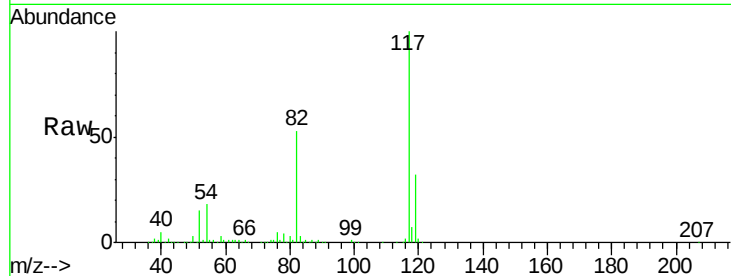
Tot Ion:117 Resp: 1048831

Ion Ratio Lower Upper

117 100

82 52.9 42.9 64.3

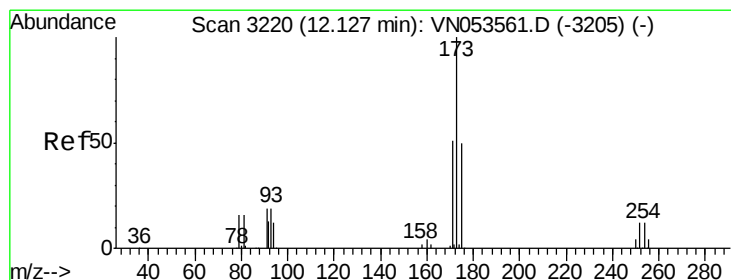
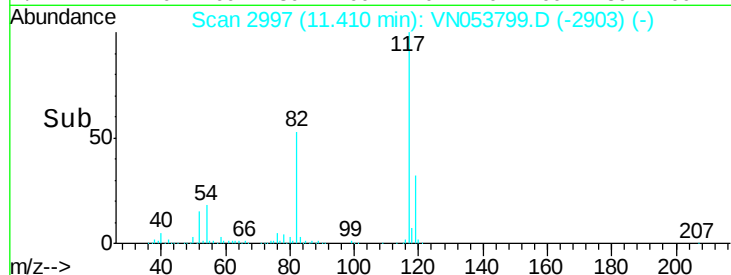
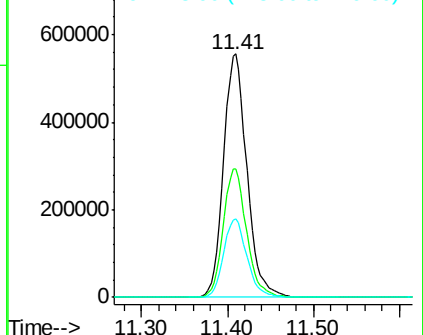
119 32.5 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.628 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

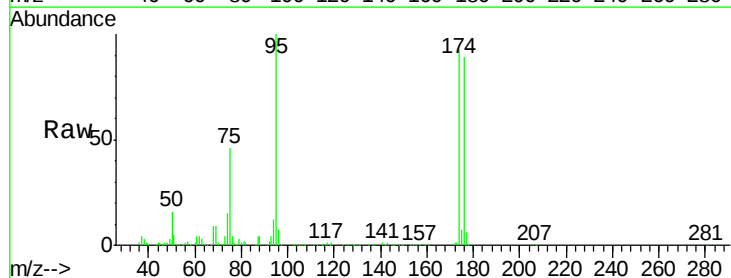
Tgt Ion:173 Resp: 3348

Ion Ratio Lower Upper

173 100

175 774.7 24.6 74.0#

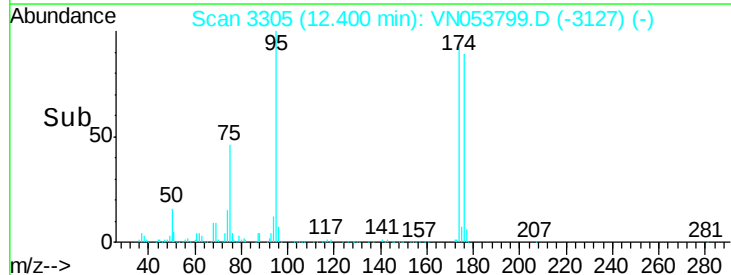
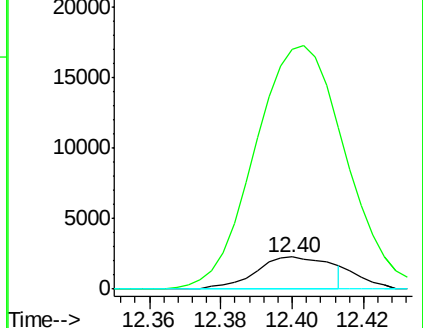
254 0.0 0.2 0.2#

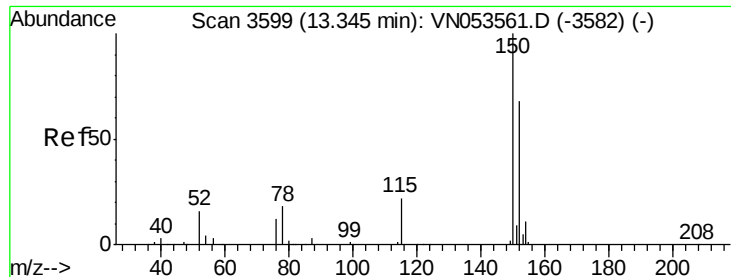


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



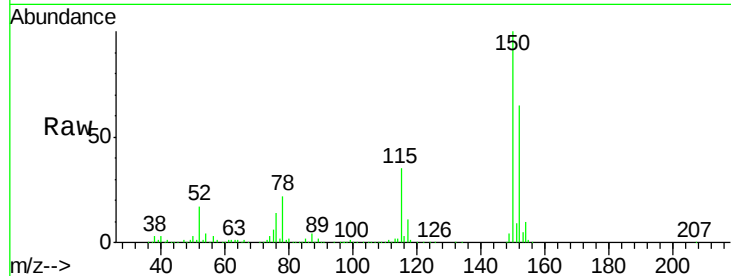


#72

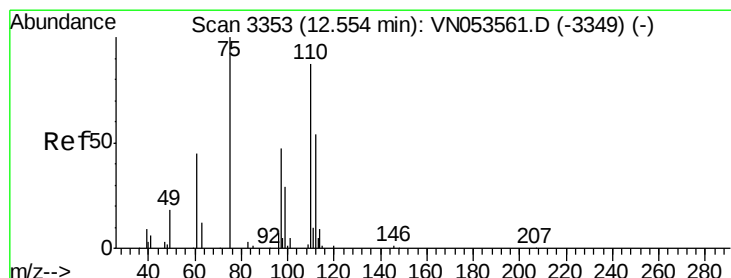
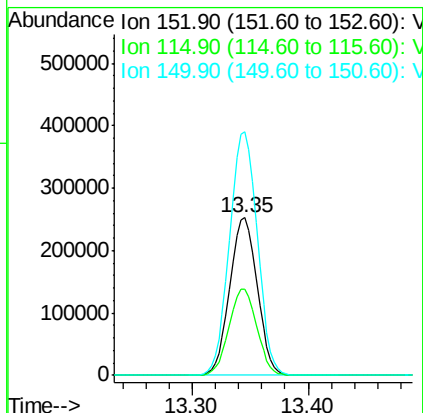
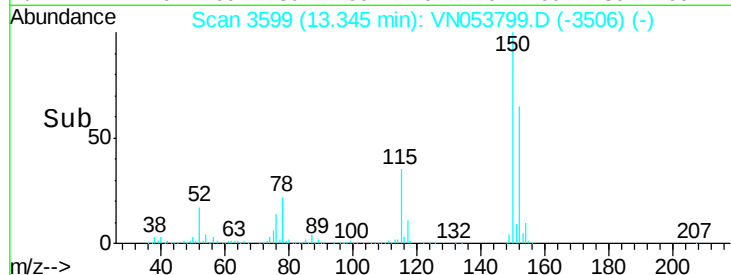
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053799.D
Acq: 15 Feb 2019 14:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 415021
Ion Ratio Lower Upper
152 100
115 55.1 27.8 83.4
150 155.8 0.0 349.0



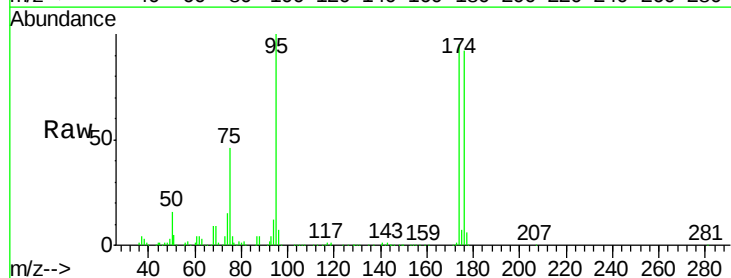
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



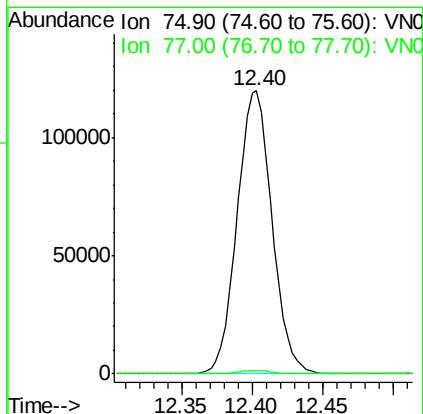
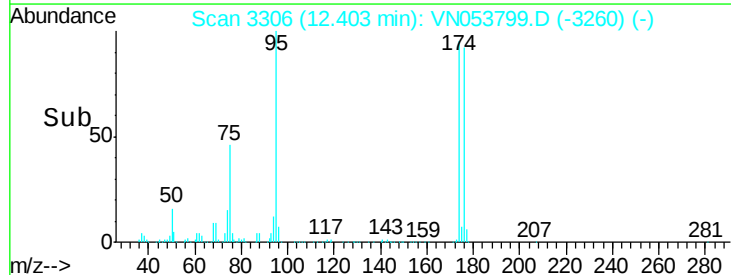
#76

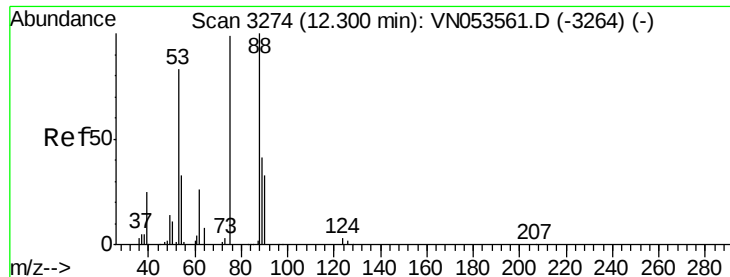
1,2,3-Trichloropropane
Concen: 38.921 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053799.D
Acq: 15 Feb 2019 14:51

Tgt Ion: 75 Resp: 207475
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.442 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053799.D

Acq: 15 Feb 2019 14:51

Instrument :

MSVOA_N

ClientSampled :

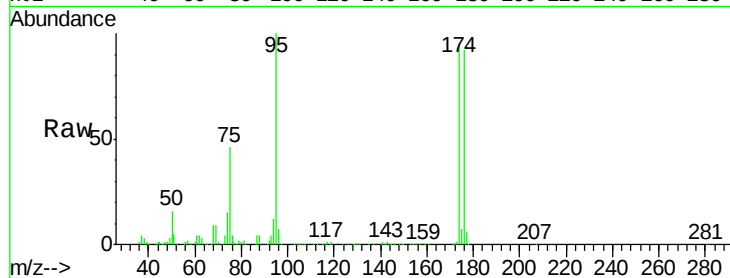
Tot Ion: 75 Resp: 207475

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

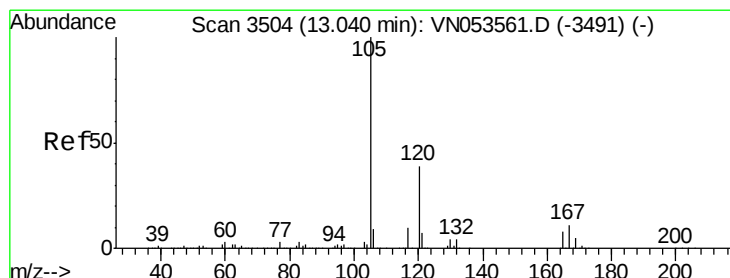
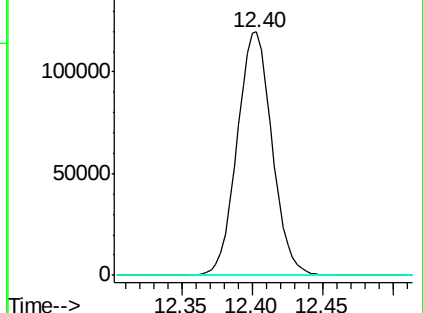
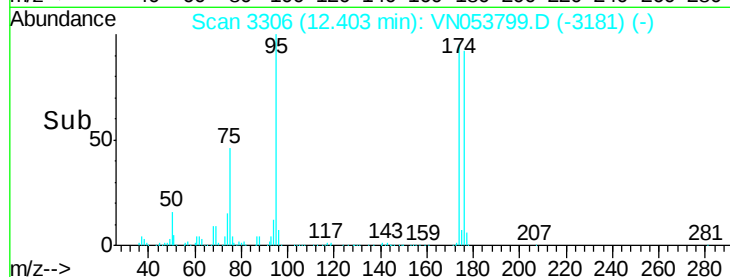
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053799.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053799.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053799.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.278 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053799.D

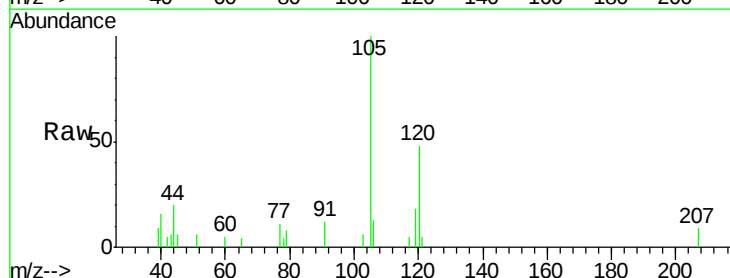
Acq: 15 Feb 2019 14:51

Tgt Ion:105 Resp: 6854

Ion Ratio Lower Upper

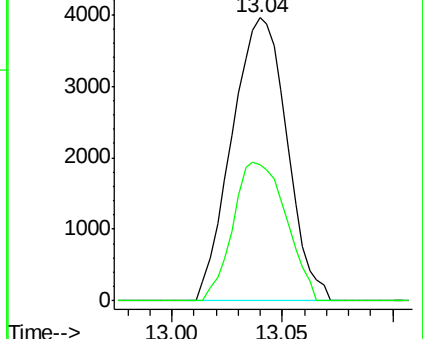
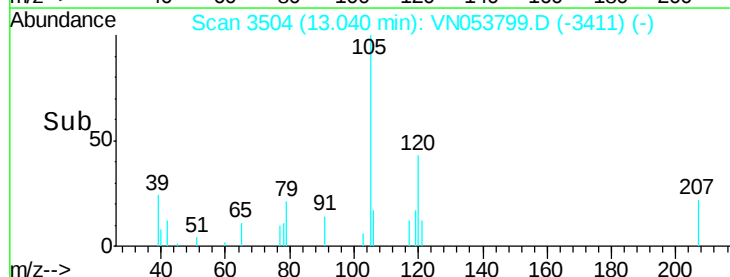
105 100

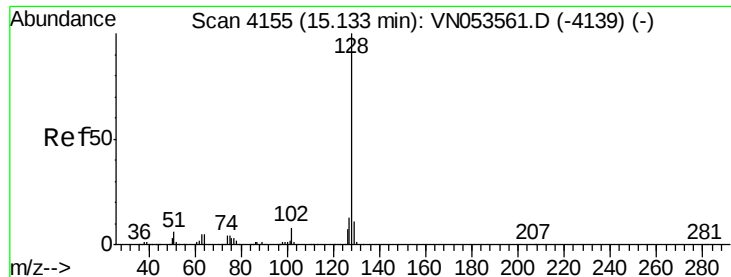
120 47.1 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): VN053799.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN053799.D (-3411) (-)





#95
Naphthalene
Concen: 2.230 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053799.D
Acq: 15 Feb 2019 14:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	9.4	8.6	13.0

