

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020419\
 Data File : VN053600.D
 Acq On : 4 Feb 2019 16:50
 Operator : JC/SP
 Sample : PB116741TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116741TB

Quant Time: Feb 05 01:28:42 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	793127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1269066	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1143643	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	490528	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	403787	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
35) Dibromofluoromethane	7.59	113	394567	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
50) Toluene-d8	10.09	98	1523145	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.40	95	513538	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	

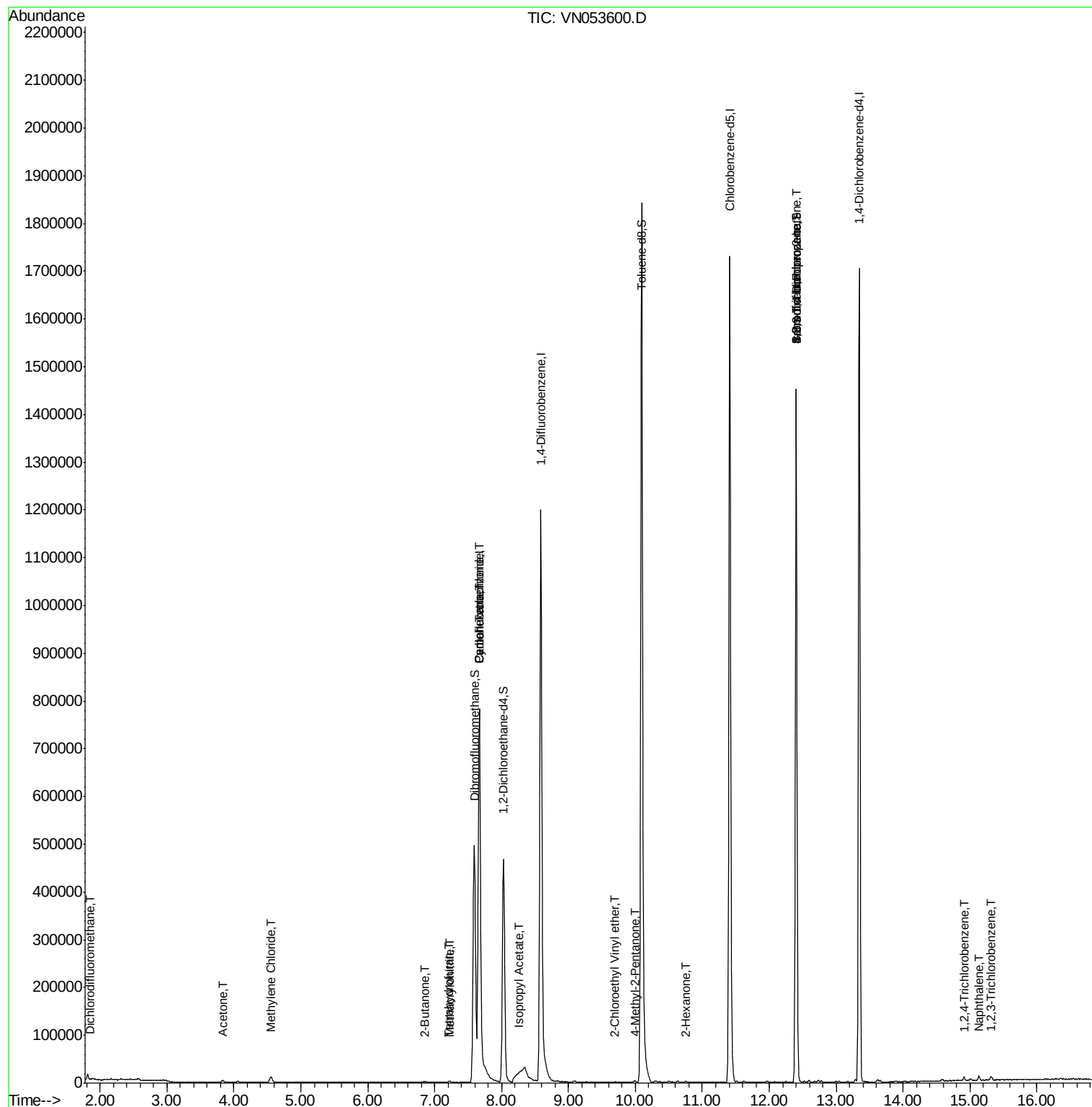
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	483	0.391	ug/l	95
16) Acetone	3.83	43	7853	3.848	ug/l	93
20) Methylene Chloride	4.55	84	9224	1.077	ug/l	95
25) 2-Butanone	6.86	43	2740	0.941	ug/l	94
29) Tetrahydrofuran	7.20	42	451	0.241	ug/l #	21
31) Cyclohexane	7.67	56	11806	0.710	ug/l #	1
38) Carbon Tetrachloride	7.67	117	61887	5.370	ug/l #	16
41) Methacrylonitrile	7.23	41	1061	0.297	ug/l #	23
43) Isopropyl Acetate	8.26	43	27229	2.207	ug/l #	51
51) 4-Methyl-2-Pentanone	9.99	43	3273	0.540	ug/l #	75
58) 2-Chloroethyl Vinyl ether	9.70	63	144	8.034	ug/l #	48
59) 2-Hexanone	10.76	43	2285	0.555	ug/l	70
71) Bromoform	12.41	173	3284	0.565	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	240555	38.180	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	240555	107.359	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	2917	0.318	ug/l	99
95) Naphthalene	15.13	128	8024	2.096	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	3690	0.434	ug/l	96

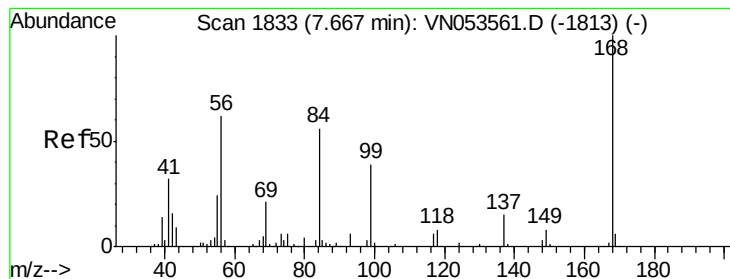
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

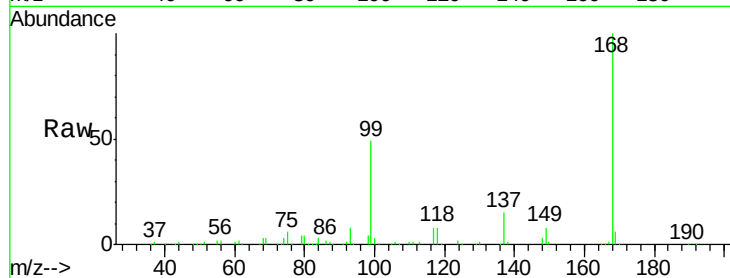
PB116741TB

Tot Ion:168 Resp: 793127

Ion Ratio Lower Upper

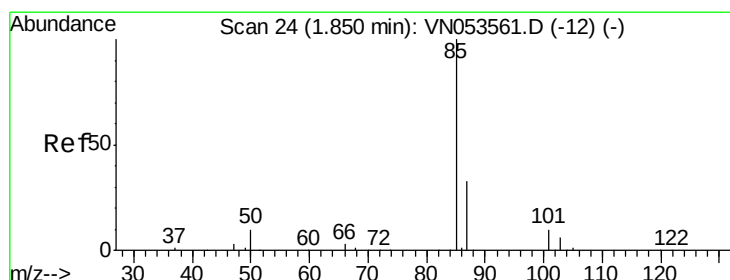
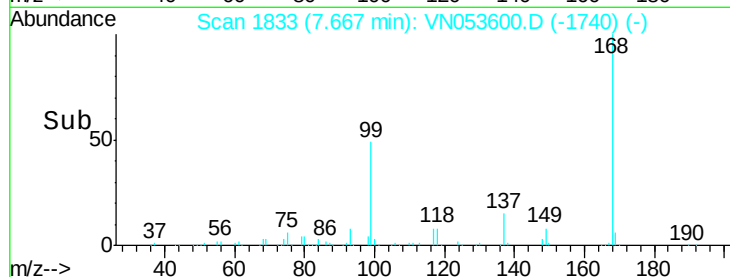
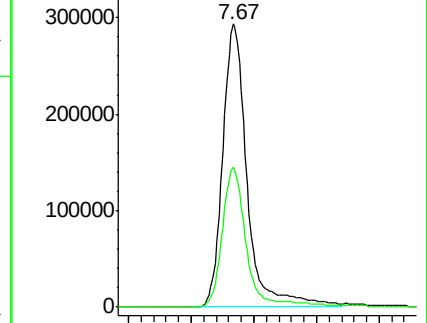
168 100

99 49.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.391 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053600.D

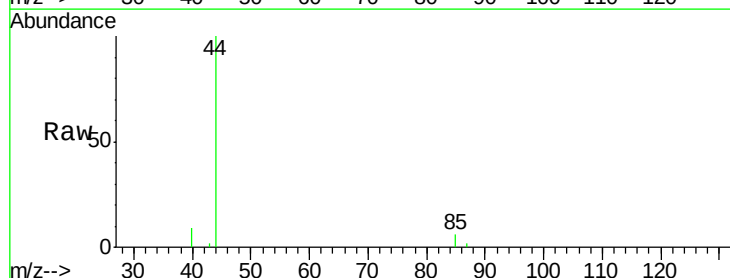
Acq: 4 Feb 2019 16:50

Tgt Ion: 85 Resp: 483

Ion Ratio Lower Upper

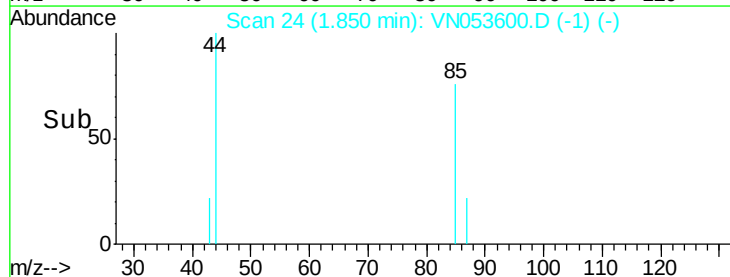
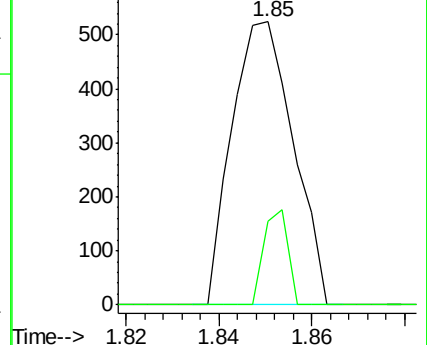
85 100

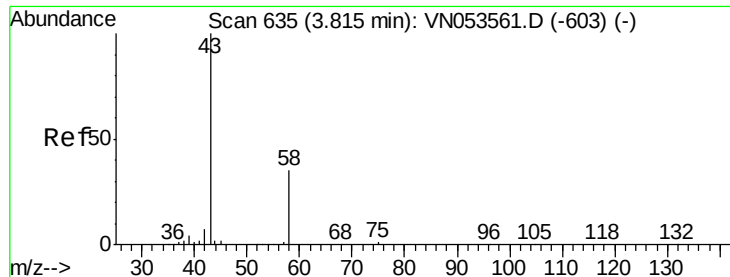
87 29.4 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#16

Acetone

Concen: 3.848 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.02 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampled :

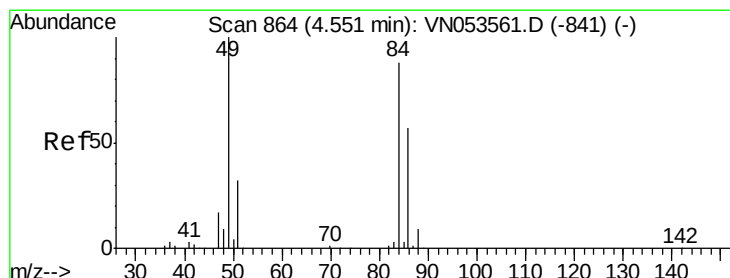
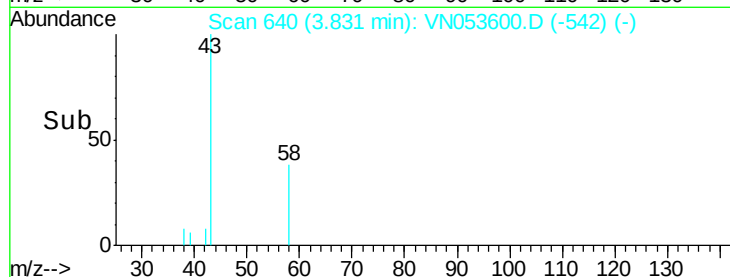
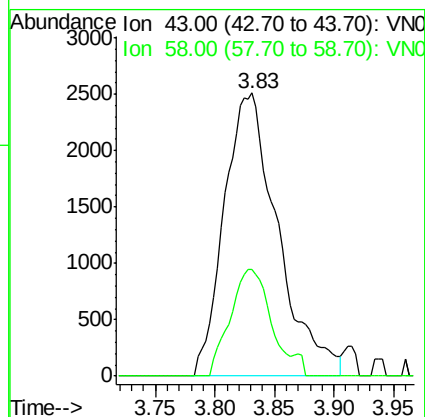
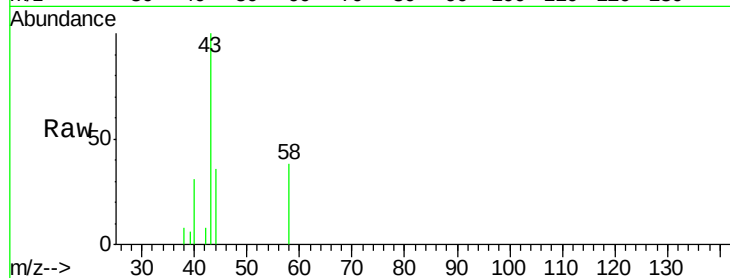
PB116741TB

Tot Ion: 43 Resp: 7853

Ion Ratio Lower Upper

43 100

58 37.7 27.1 40.7



#20

Methylene Chloride

Concen: 1.077 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Tgt Ion: 84 Resp: 9224

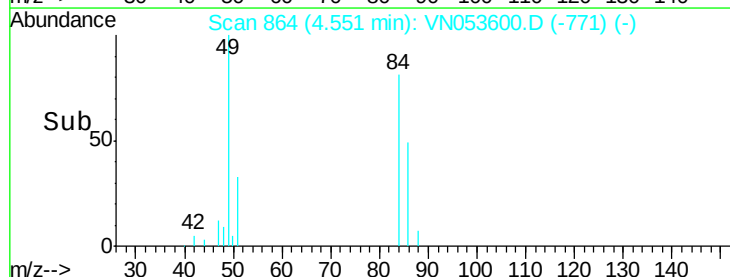
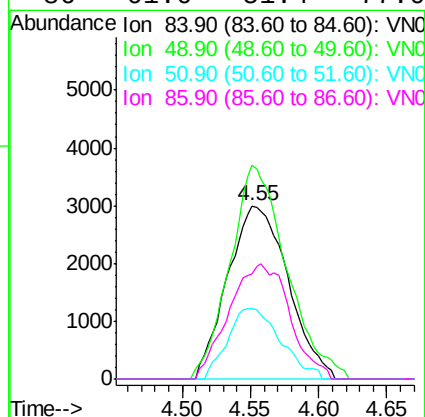
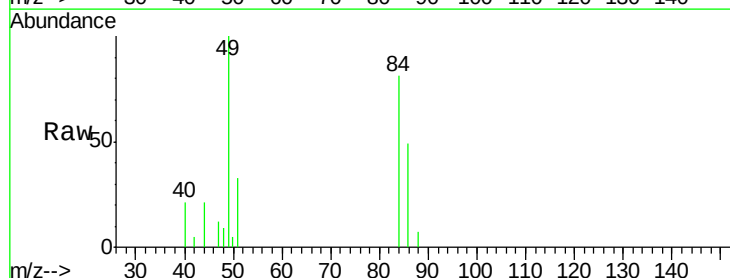
Ion Ratio Lower Upper

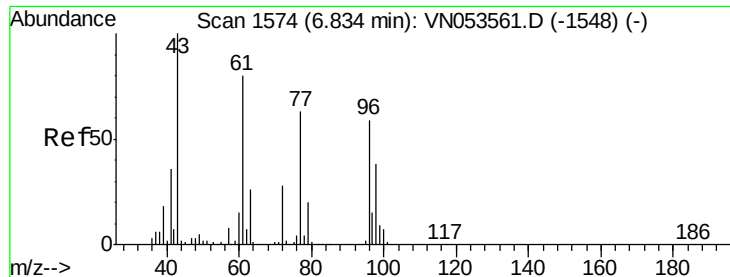
84 100

49 123.5 94.3 141.5

51 41.0 29.4 44.2

86 61.0 51.4 77.0

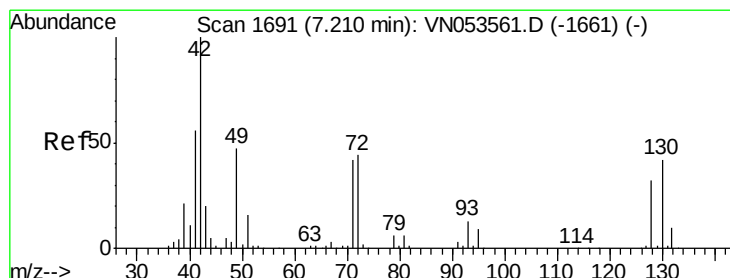
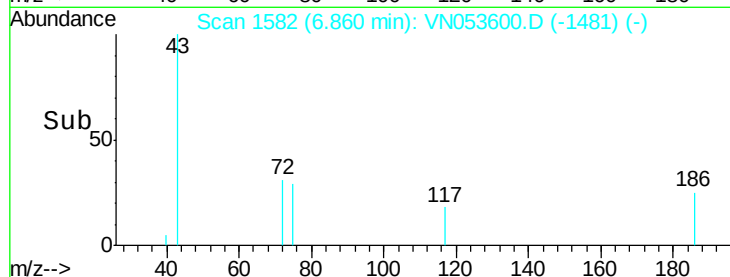
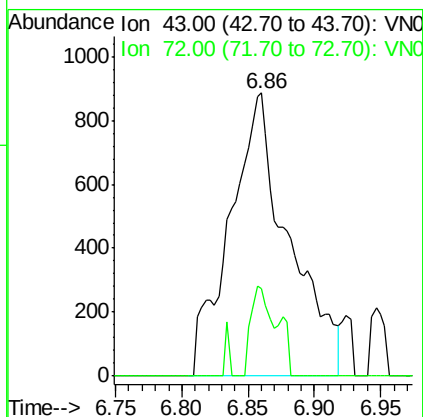
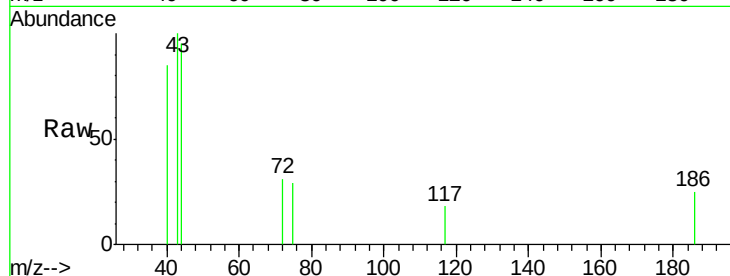




#25
2-Butanone
Concen: 0.941 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.03 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

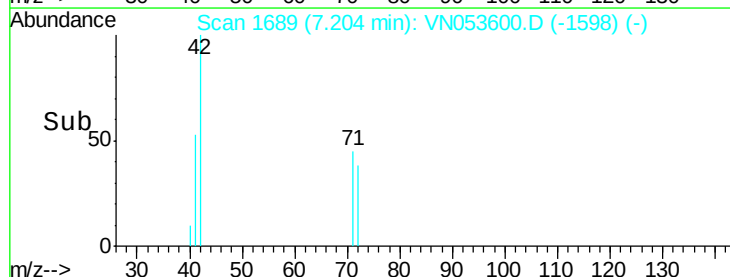
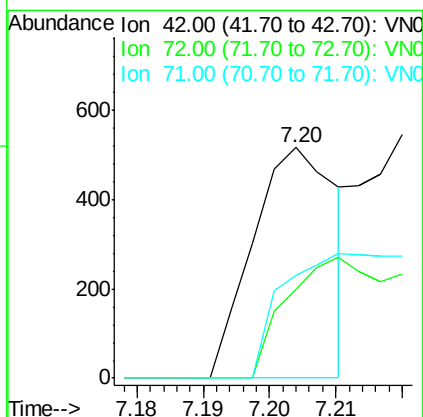
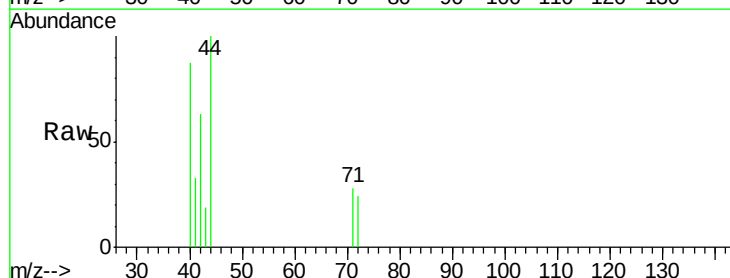
Instrument :
MSVOA_N
ClientSampled :
PB116741TB

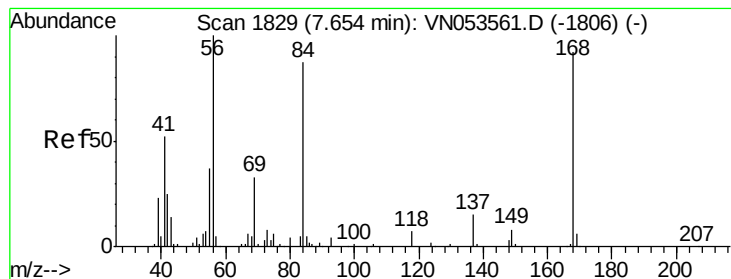
Tot Ion: 43 Resp: 2740
Ion Ratio Lower Upper
43 100
72 30.7 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.241 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

Tgt Ion: 42 Resp: 451
Ion Ratio Lower Upper
42 100
72 56.8 35.2 52.8#
71 130.2 33.0 49.4#





#31

Cyclohexane

Concen: 0.710 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampled :

PB116741TB

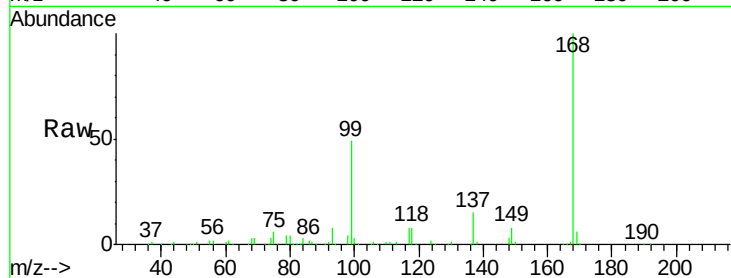
Tot Ion: 56 Resp: 11806

Ion Ratio Lower Upper

56 100

69 180.0 26.4 39.6#

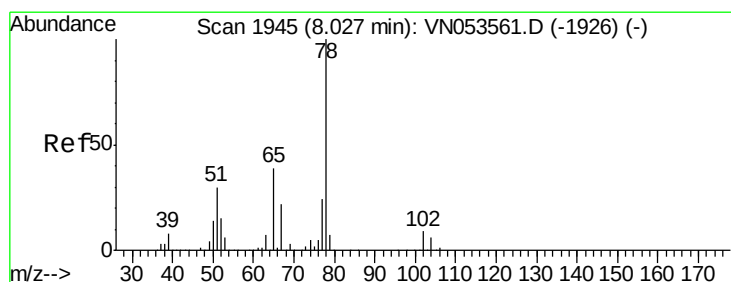
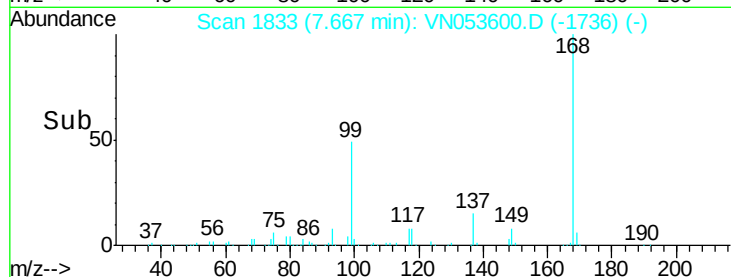
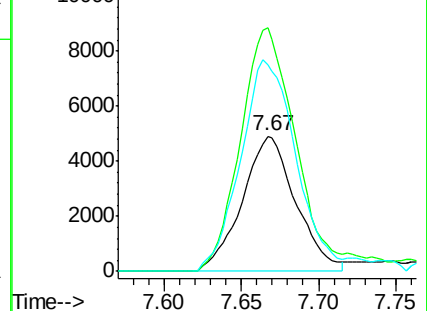
84 153.0 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053600.D

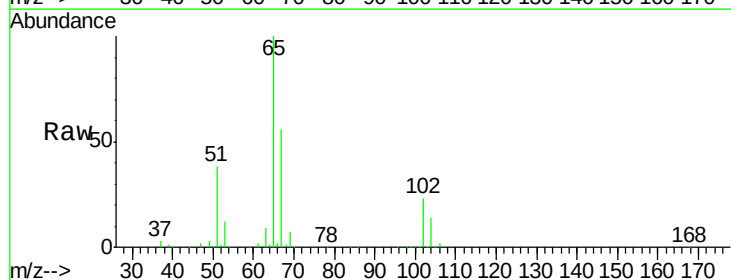
Acq: 4 Feb 2019 16:50

Tgt Ion: 65 Resp: 403787

Ion Ratio Lower Upper

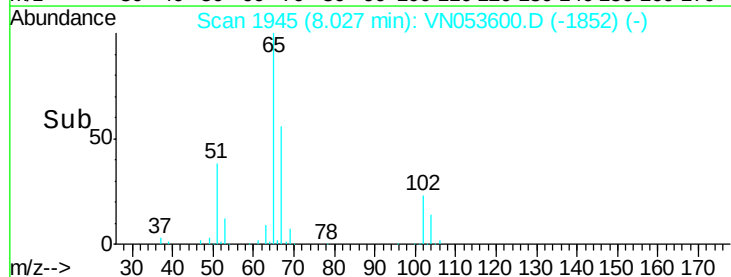
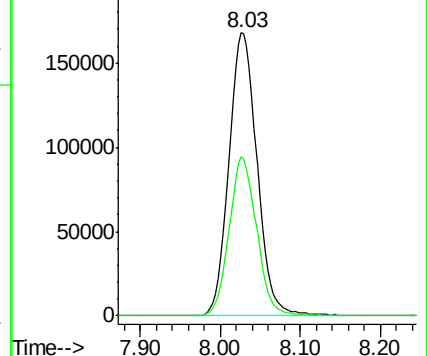
65 100

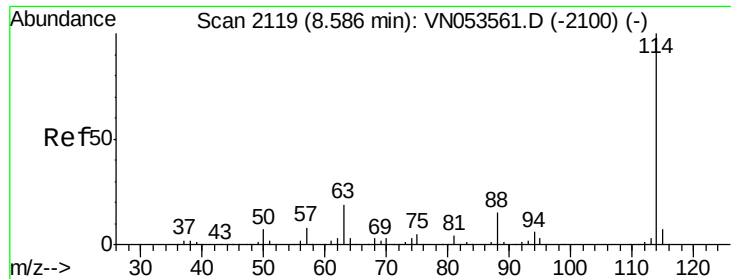
67 54.9 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB116741TB

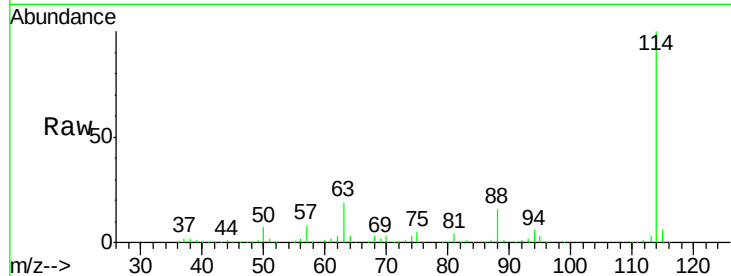
Tot Ion:114 Resp: 1269066

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

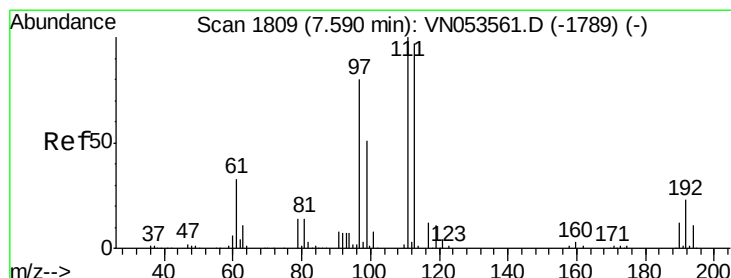
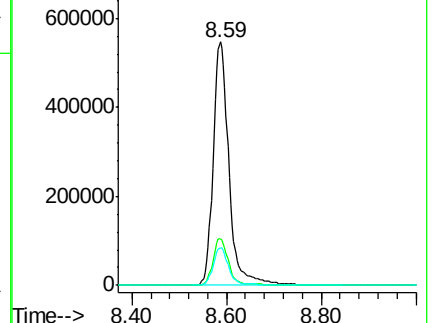
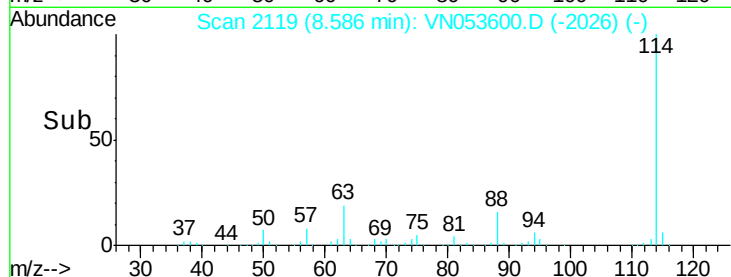
88 15.6 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

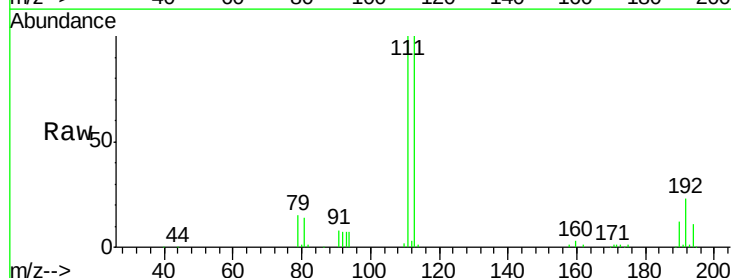
Tgt Ion:113 Resp: 394567

Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

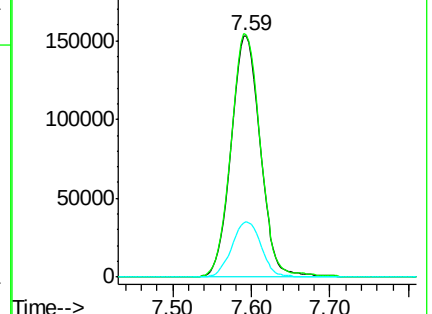
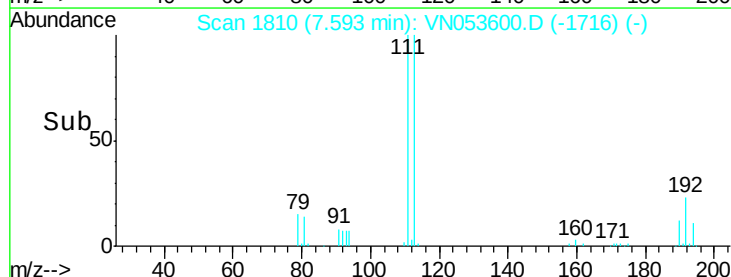
192 23.1 18.2 27.2

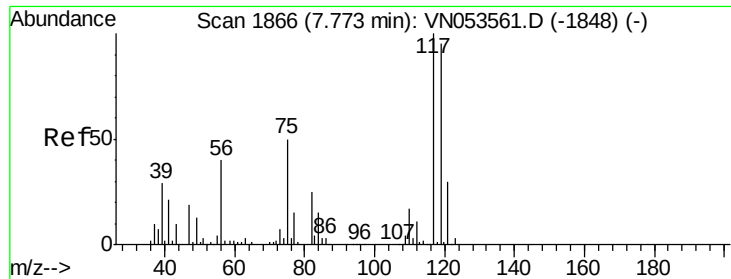


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

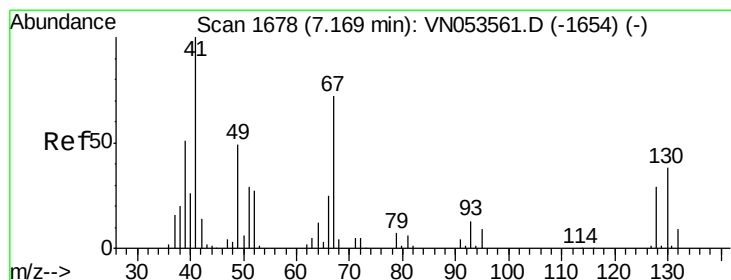
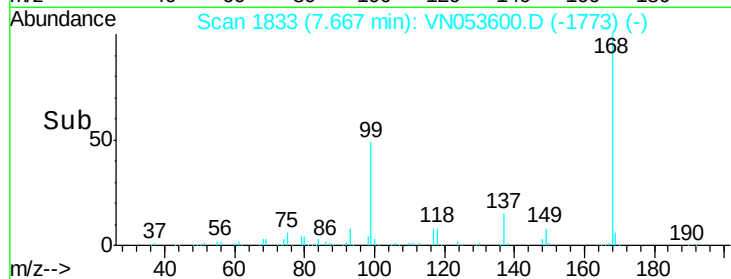
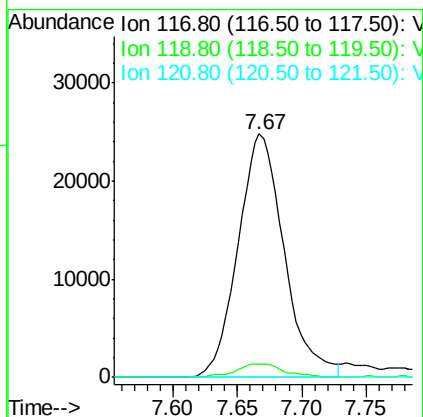
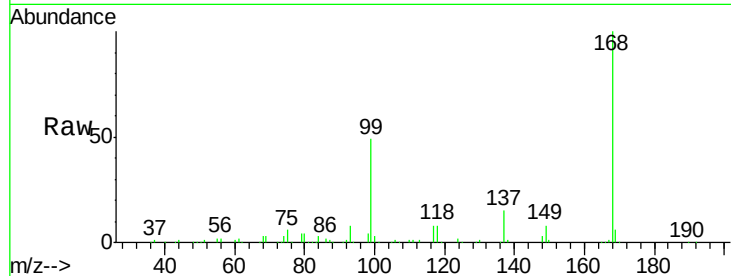




#38
Carbon Tetrachloride
Concen: 5.370 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

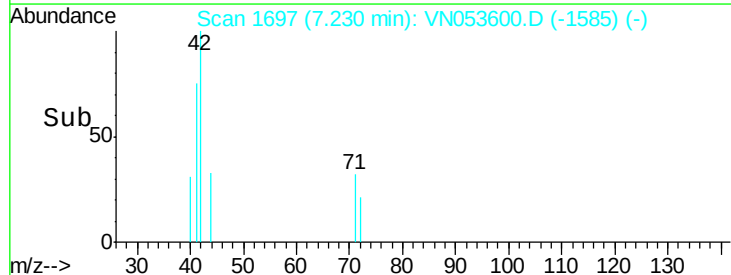
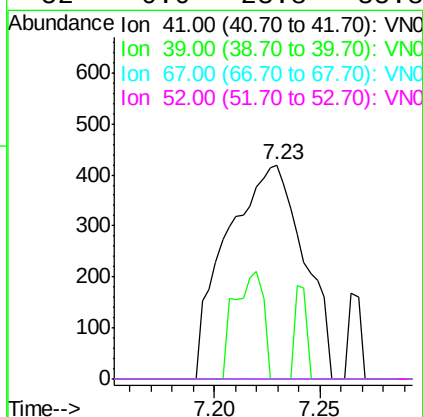
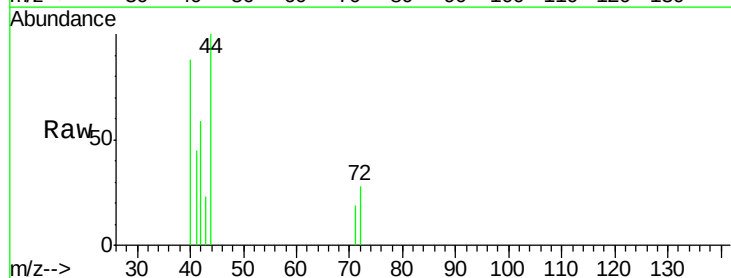
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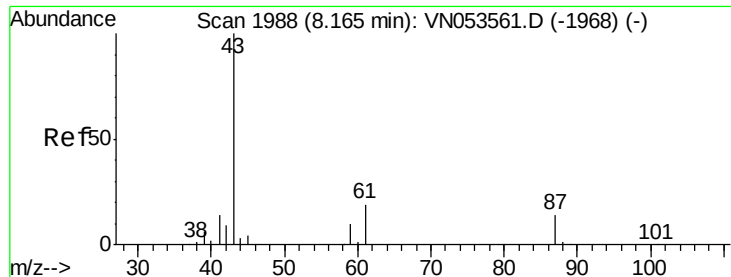
Tot Ion:117 Resp: 61887
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 0.297 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.06 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

Tgt Ion: 41 Resp: 1061
Ion Ratio Lower Upper
41 100
39 6.6 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 2.207 ug/l

RT: 8.26 min Scan# 2016

Delta R.T. 0.09 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampled :

PB116741TB

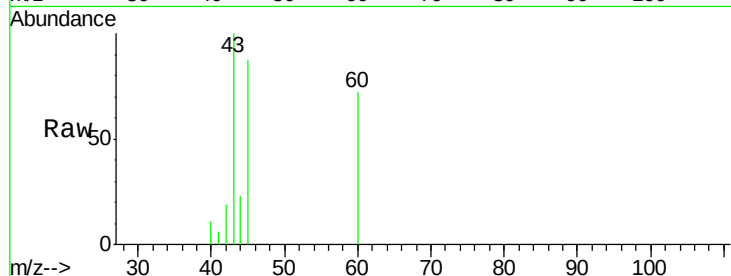
Tot Ion: 43 Resp: 27229

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

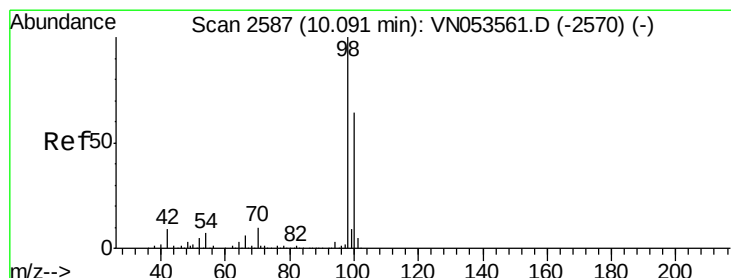
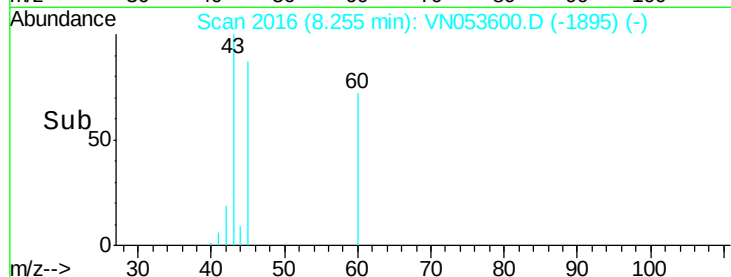
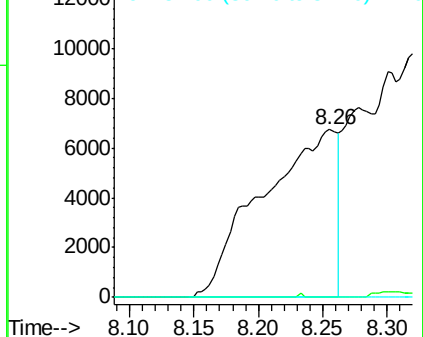
87 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053600.D

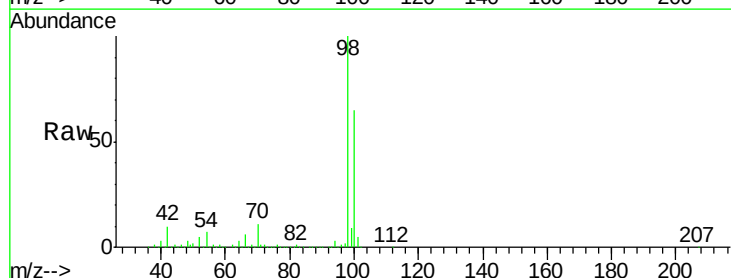
Acq: 4 Feb 2019 16:50

Tgt Ion: 98 Resp: 1523145

Ion Ratio Lower Upper

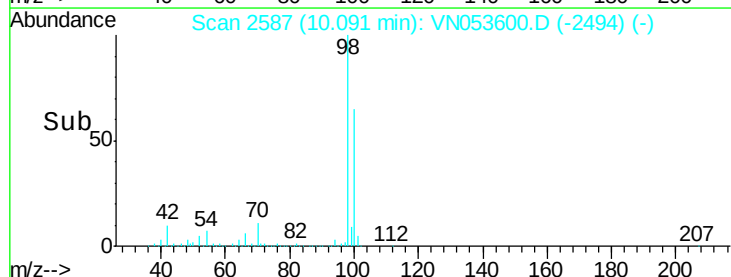
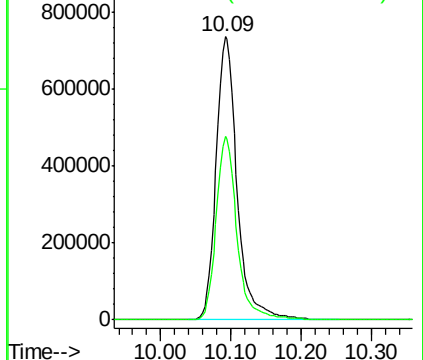
98 100

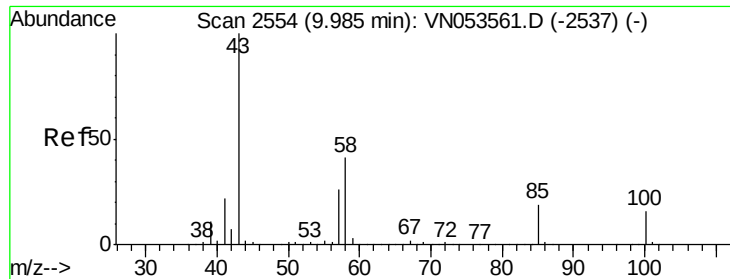
100 64.4 51.4 77.0



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: 0.540 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampled :

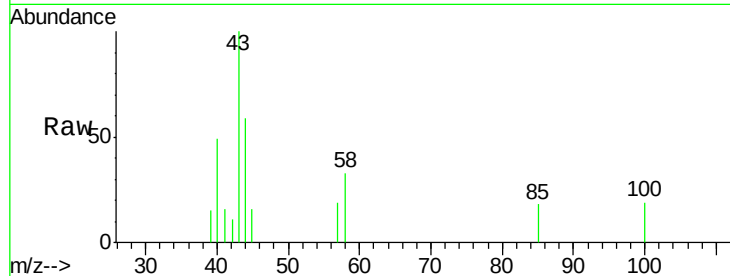
PB116741TB

Tot Ion: 43 Resp: 3273

Ion Ratio Lower Upper

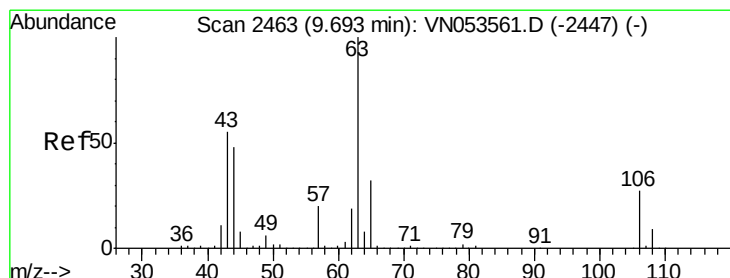
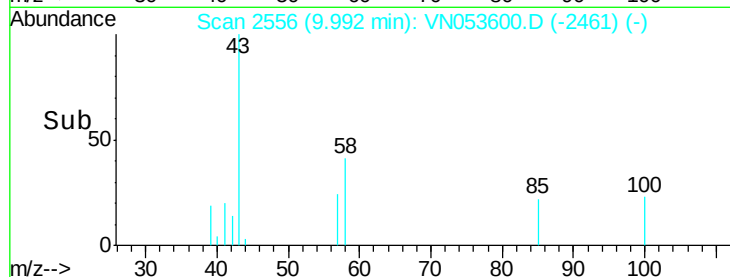
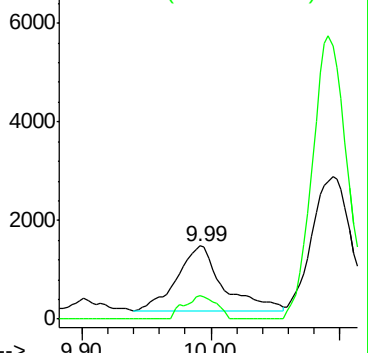
43 100

58 25.2 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) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 8.034 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.01 min

Lab File: VN053600.D

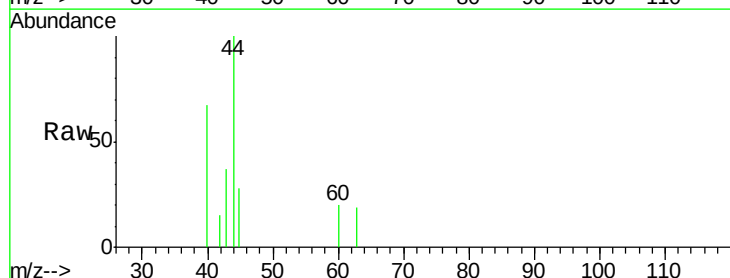
Acq: 4 Feb 2019 16:50

Tgt Ion: 63 Resp: 144

Ion Ratio Lower Upper

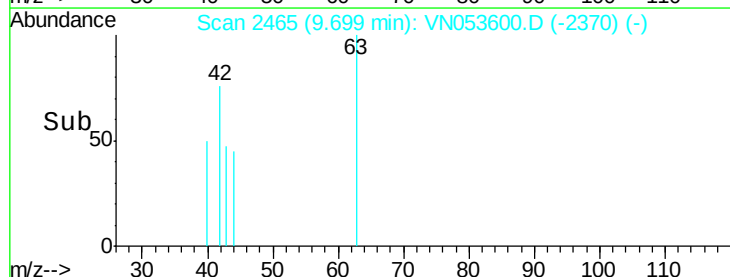
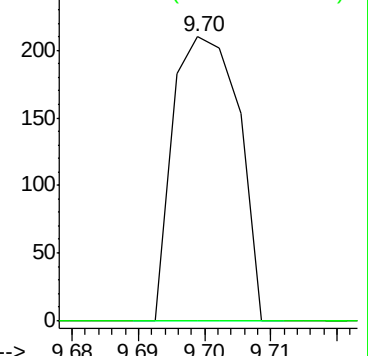
63 100

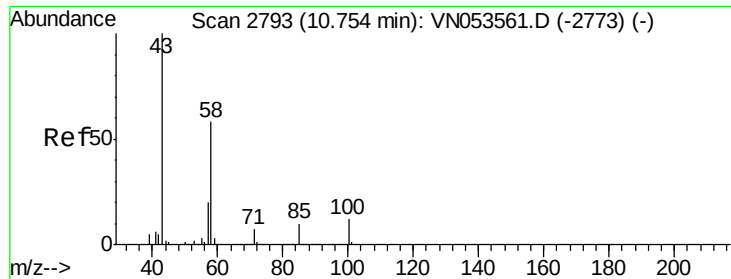
106 0.0 21.5 32.3#



Abundance Ion 62.90 (62.60 to 63.60): VN053561.D (-2447) (-)

Ion 105.90 (105.60 to 106.60): VN053561.D (-2447) (-)

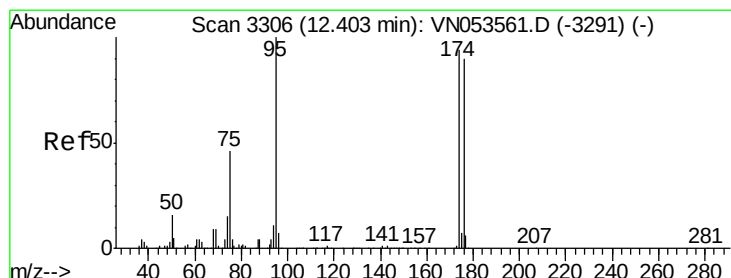
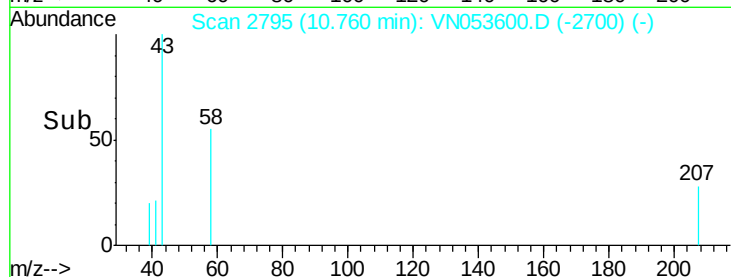
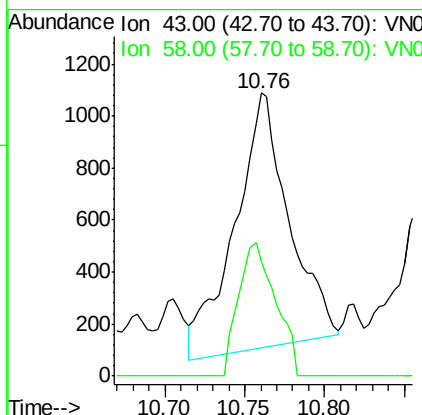
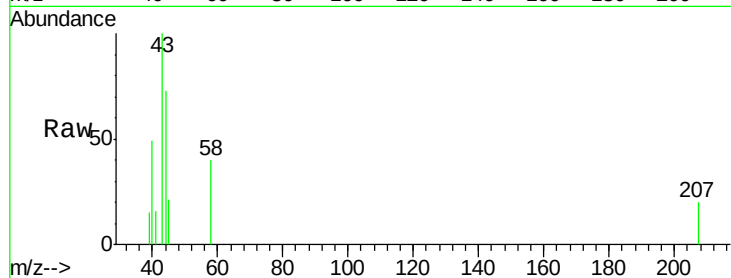




#59
2-Hexanone
Concen: 0.555 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

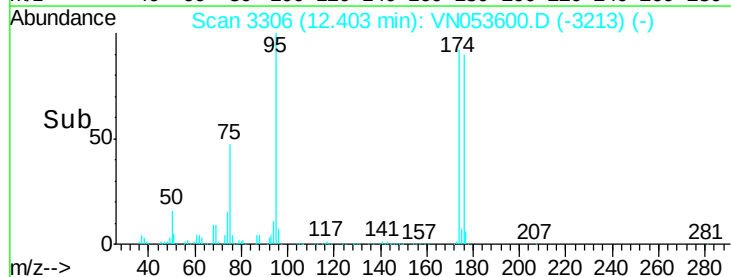
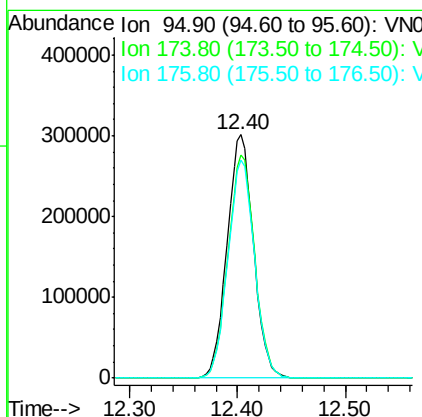
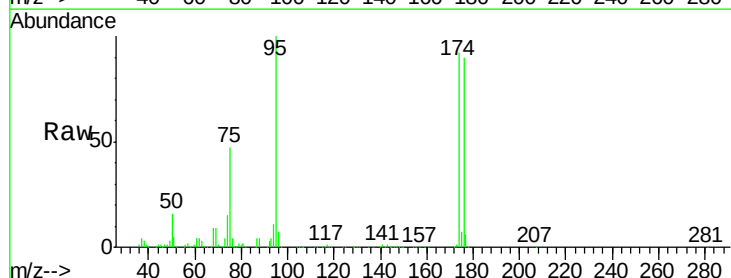
Instrument :
MSVOA_N
ClientSampled :
PB116741TB

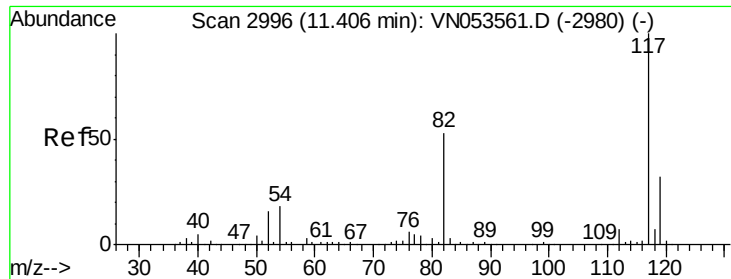
Tot Ion: 43 Resp: 2285
Ion Ratio Lower Upper
43 100
58 35.4 28.6 85.8



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

Tgt Ion: 95 Resp: 513538
Ion Ratio Lower Upper
95 100
174 92.6 0.0 183.2
176 90.0 0.0 177.4

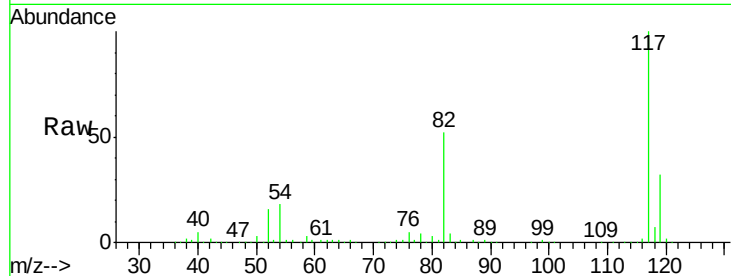




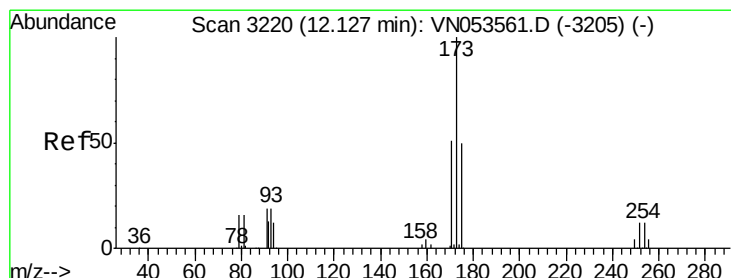
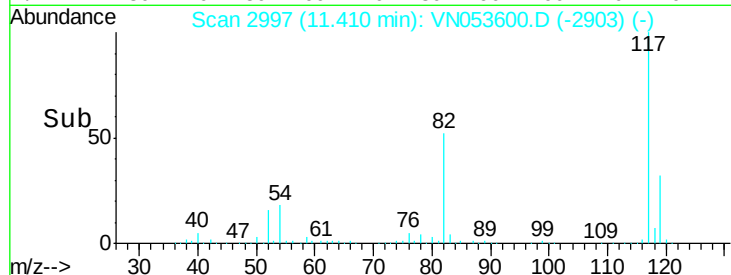
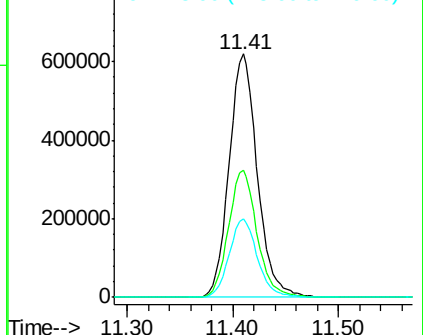
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

Instrument :
MSVOA_N
ClientSampled :
PB116741TB

Tot Ion:117 Resp: 1143643
Ion Ratio Lower Upper
117 100
82 52.4 42.9 64.3
119 32.4 26.0 39.0

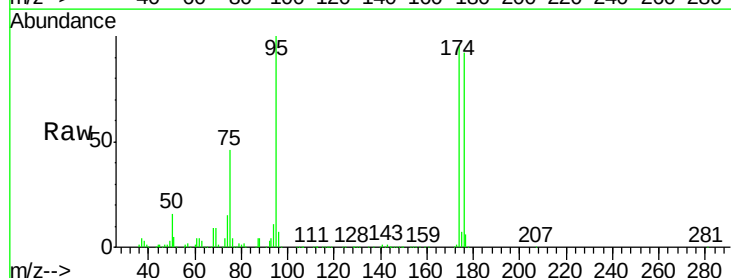


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

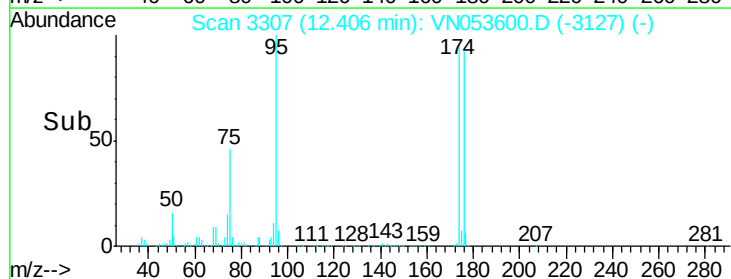
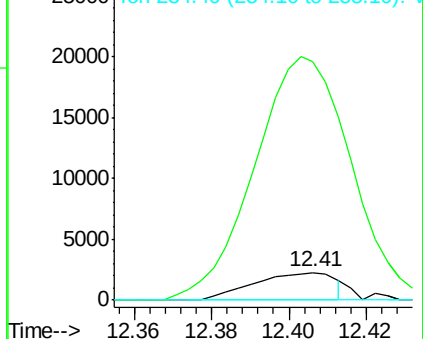


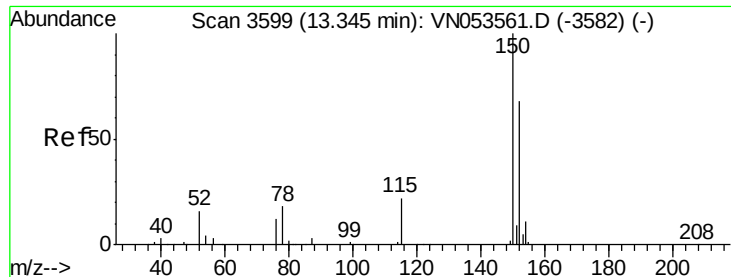
#71
Bromoform
Concen: 0.565 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN053600.D
Acq: 4 Feb 2019 16:50

Tgt Ion:173 Resp: 3284
Ion Ratio Lower Upper
173 100
175 874.6 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: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampled :

PB116741TB

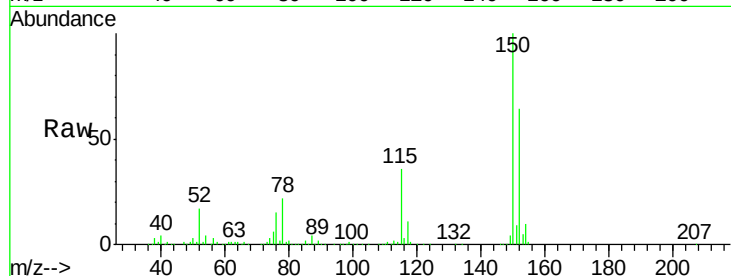
Tot Ion:152 Resp: 490528

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.4

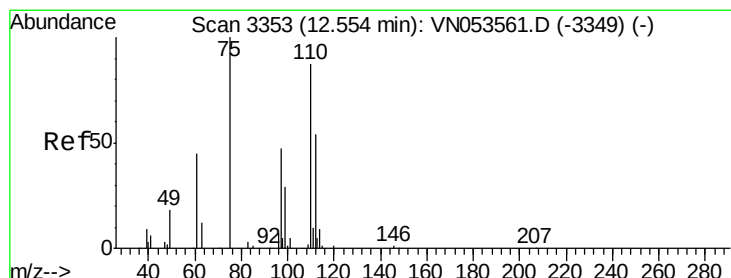
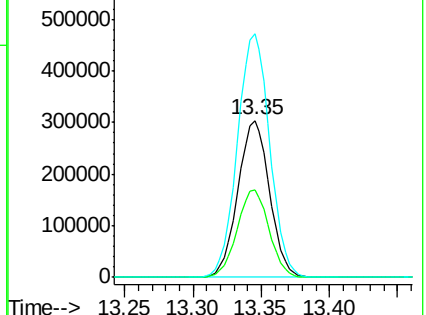
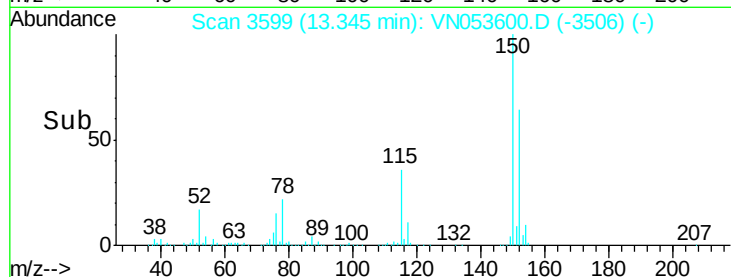
150 157.7 0.0 349.0



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: 38.180 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053600.D

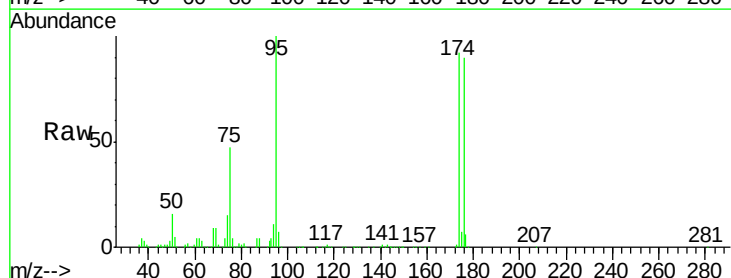
Acq: 4 Feb 2019 16:50

Tgt Ion: 75 Resp: 240555

Ion Ratio Lower Upper

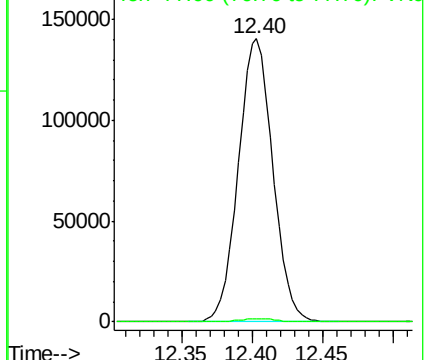
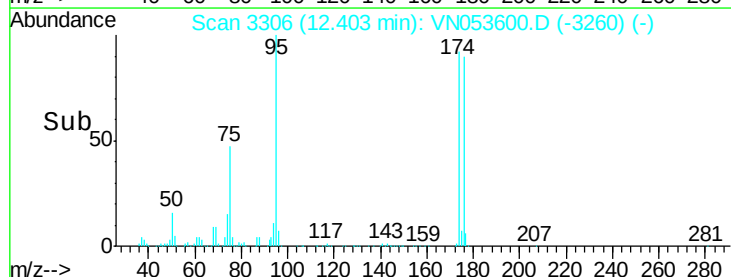
75 100

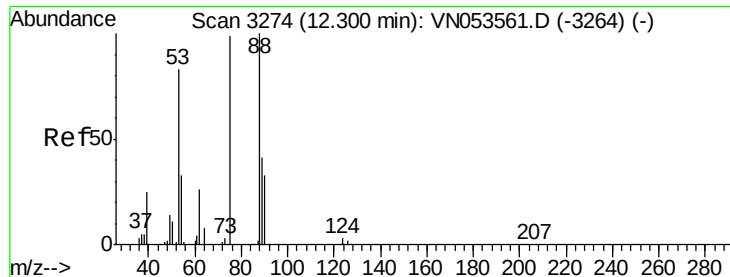
77 1.1 0.0 0.0#



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: 107.359 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB116741TB

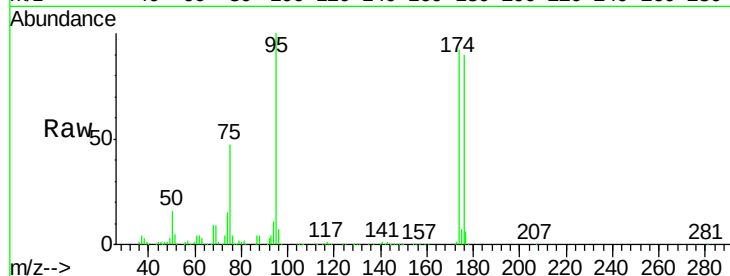
Tot Ion: 75 Resp: 240555

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

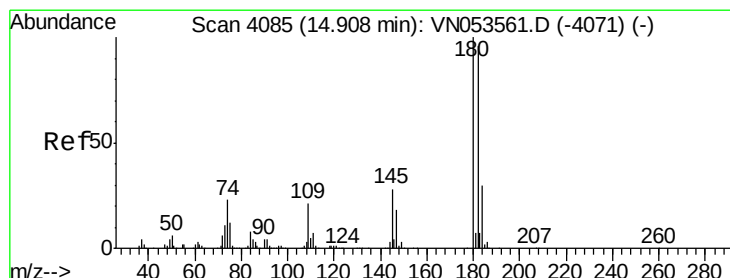
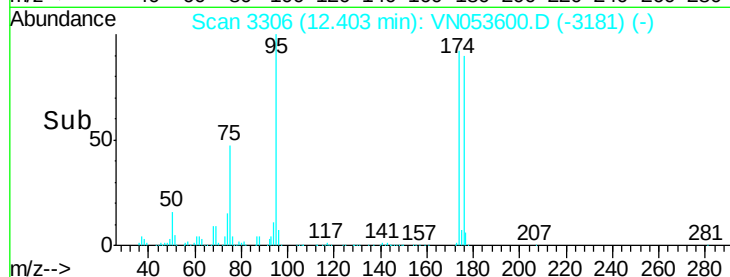
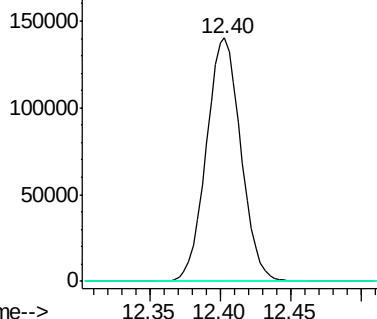
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053600.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN053600.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN053600.D (-3306) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.318 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

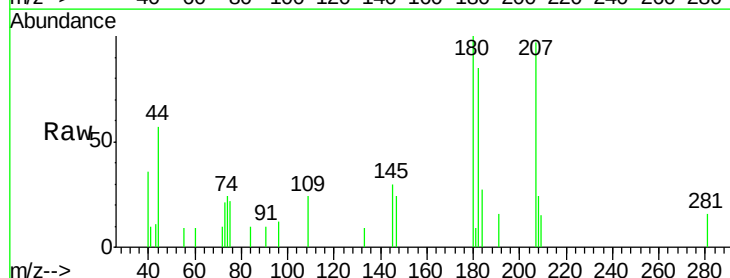
Tgt Ion:180 Resp: 2917

Ion Ratio Lower Upper

180 100

182 95.3 48.1 144.3

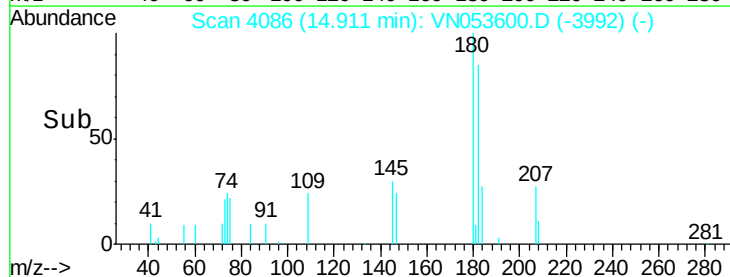
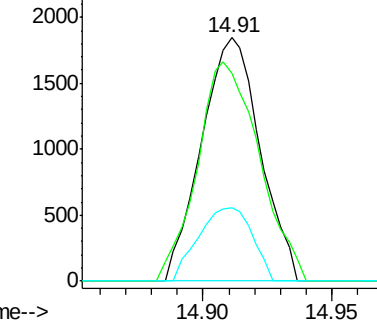
145 27.8 13.9 41.6

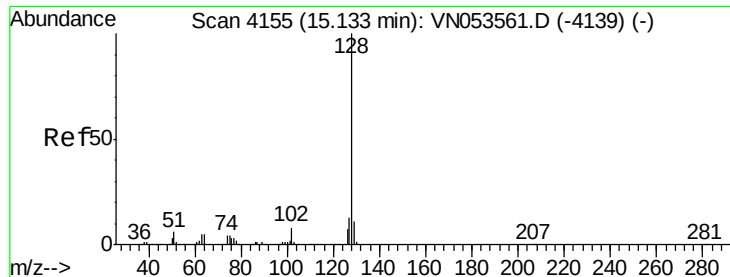


Abundance Ion 179.80 (179.50 to 180.50): VN053600.D (-4086) (-)

Ion 181.80 (181.50 to 182.50): VN053600.D (-4086) (-)

Ion 144.80 (144.50 to 145.50): VN053600.D (-4086) (-)





#95

Naphthalene

Concen: 2.096 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

Instrument :

MSVOA_N

ClientSampled :

PB116741TB

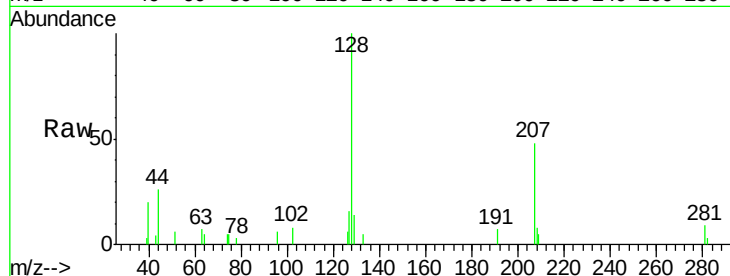
Tot Ion:128 Resp: 8024

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

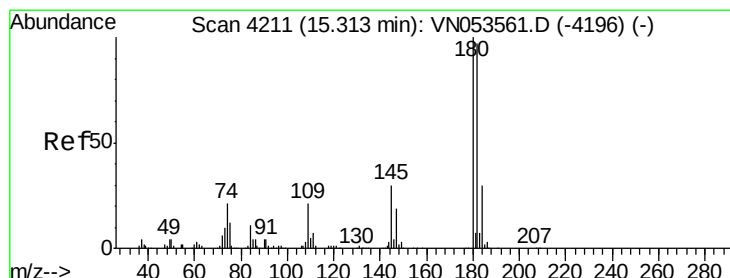
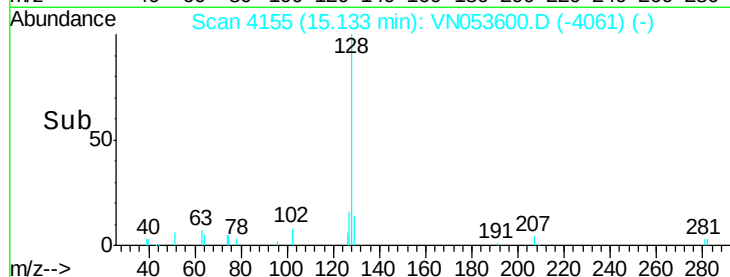
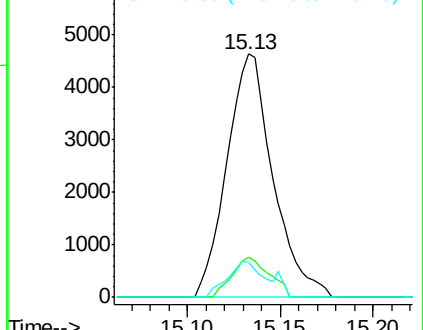
129 12.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.434 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN053600.D

Acq: 4 Feb 2019 16:50

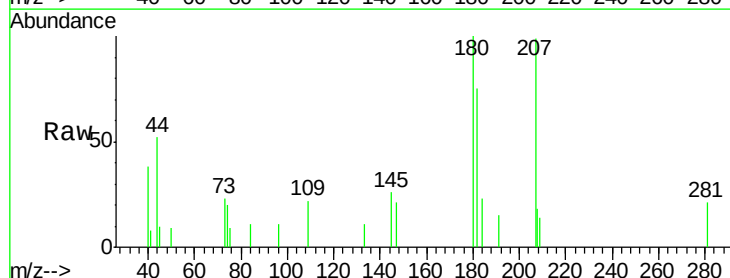
Tgt Ion:180 Resp: 3690

Ion Ratio Lower Upper

180 100

182 90.9 47.9 143.8

145 28.8 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

