

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051591.D
 Acq On : 27 Sep 2018 18:54
 Operator : MD\SY
 Sample : PB113263ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#03

Quant Time: Sep 28 01:52:48 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	641565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1071403	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	889592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	298907	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	473240	58.88	ug/l	0.00
Spiked Amount			Recovery	=	117.76%	
35) Dibromofluoromethane	7.59	113	404319	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
50) Toluene-d8	10.09	98	1480865	45.90	ug/l	0.00
Spiked Amount			Recovery	=	91.80%	
62) 4-Bromofluorobenzene	12.40	95	388201	37.20	ug/l	0.00
Spiked Amount			Recovery	=	74.40%	

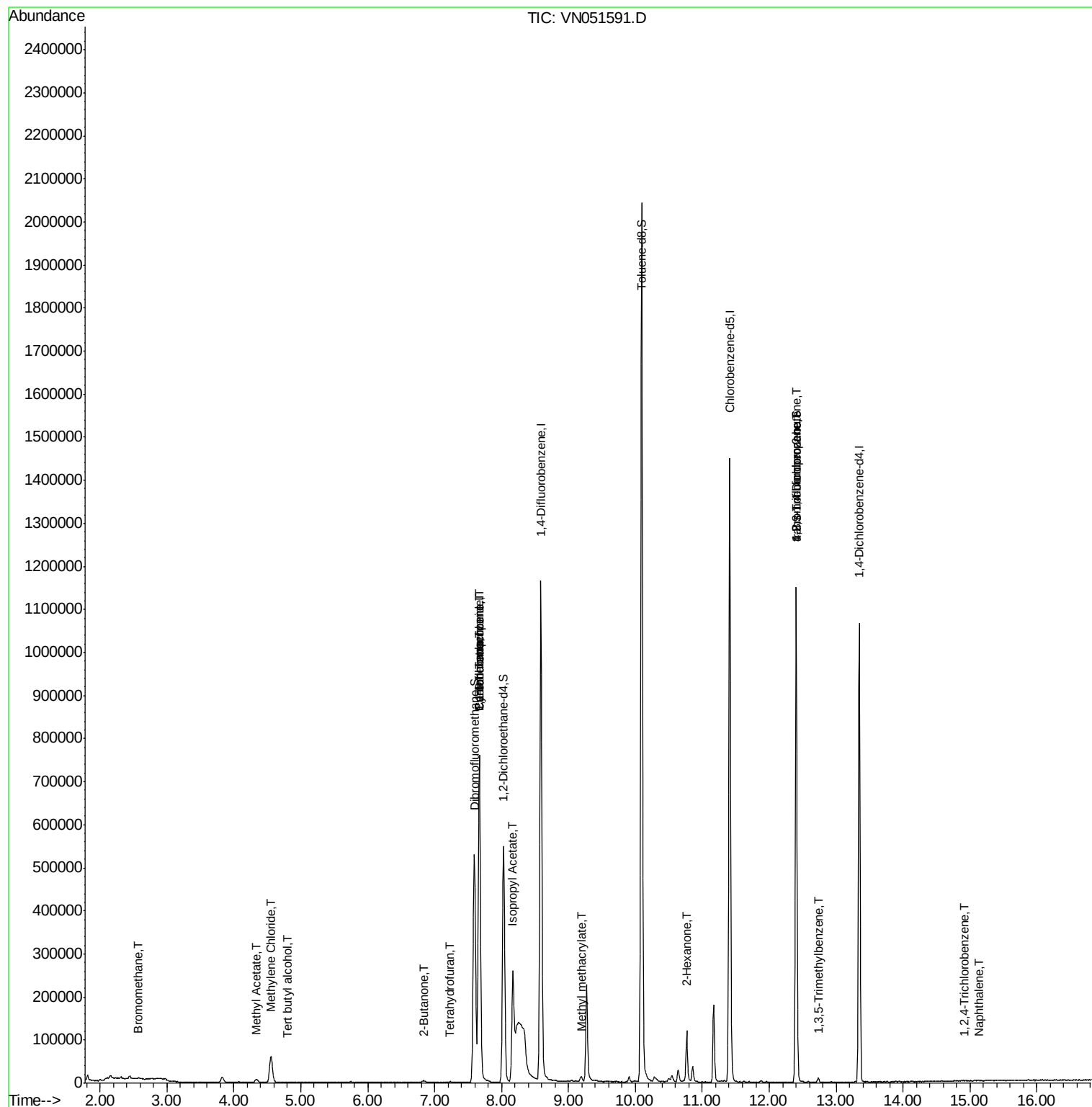
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	1205	0.250	ug/l	85
11) Tert butyl alcohol	4.80	59	141	0.311	ug/l #	78
16) Acetone	3.83	43	20879	Below Cal		99
18) Methyl Acetate	4.34	43	14395	2.352	ug/l	93
20) Methylene Chloride	4.55	84	45344	5.702	ug/l	98
25) 2-Butanone	6.85	43	3900	1.418	ug/l	93
29) Tetrahydrofuran	7.23	42	1339	0.768	ug/l #	80
31) Cyclohexane	7.66	56	12801	1.012	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46831	3.775	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59529	4.587	ug/l #	17
43) Isopropyl Acetate	8.17	43	329212	25.521	ug/l #	92
48) Methyl methacrylate	9.19	41	7731	1.202	ug/l #	21
59) 2-Hexanone	10.77	43	17395	3.782	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	190755	38.443	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4311	0.210	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190755	118.209	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.92	180	150	6.005	ug/l #	11
95) Naphthalene	15.13	128	290	8.066	ug/l #	81

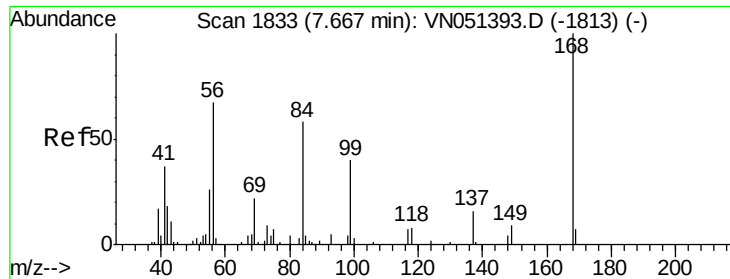
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051591.D

Acq: 27 Sep 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

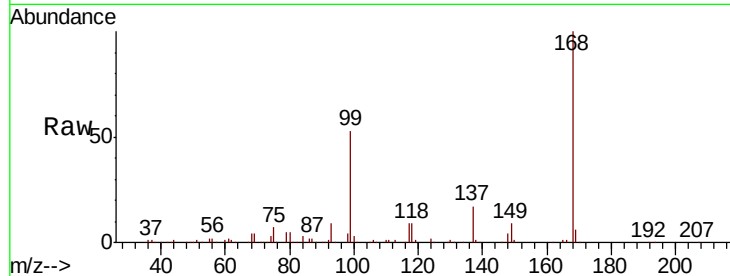
PB113263ZHE#03

Tot Ion:168 Resp: 641565

Ion Ratio Lower Upper

168 100

99 52.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

100000

50000

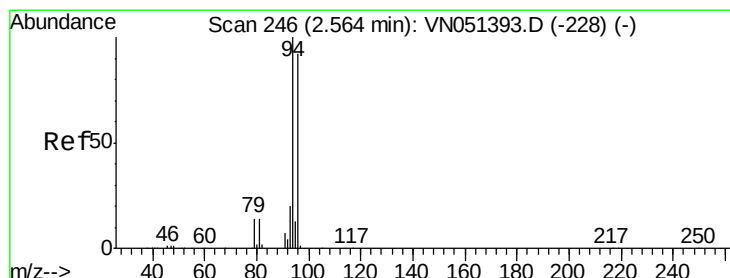
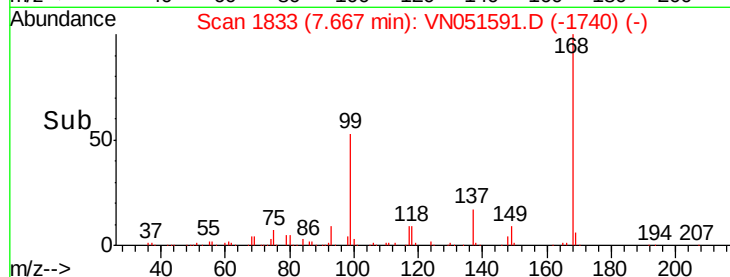
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Time-->

7.60

7.70

7.80



#5

Bromomethane

Concen: 0.250 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.00 min

Lab File: VN051591.D

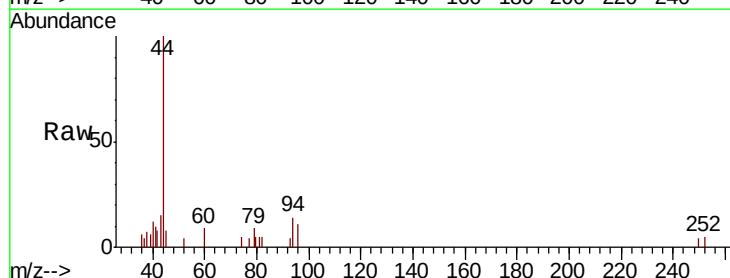
Acq: 27 Sep 2018 18:54

Tgt Ion: 94 Resp: 1205

Ion Ratio Lower Upper

94 100

96 77.3 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

600

400

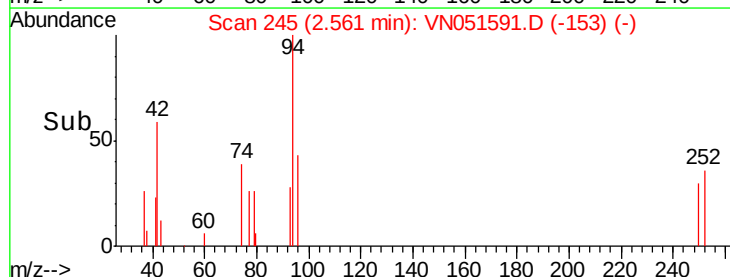
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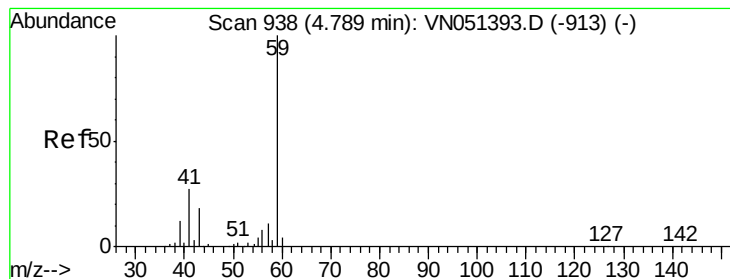
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Time-->

2.55

2.60



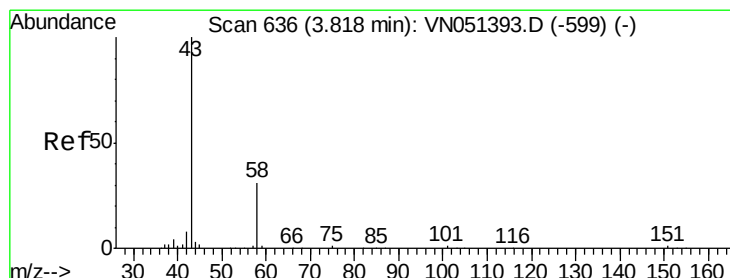
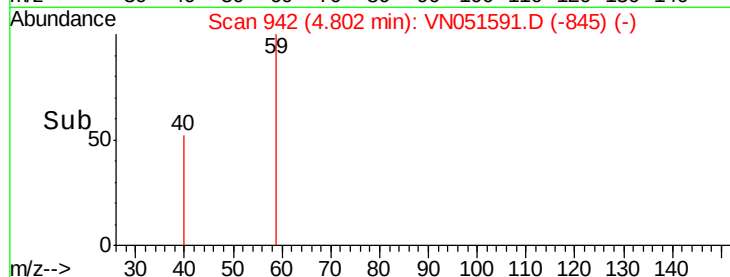
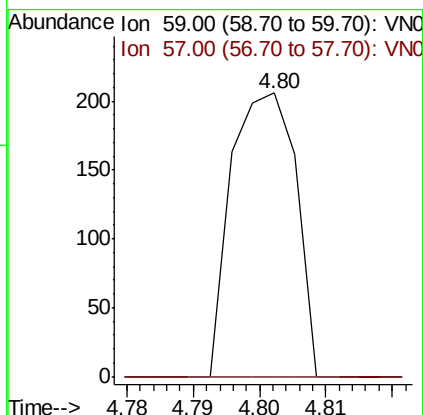
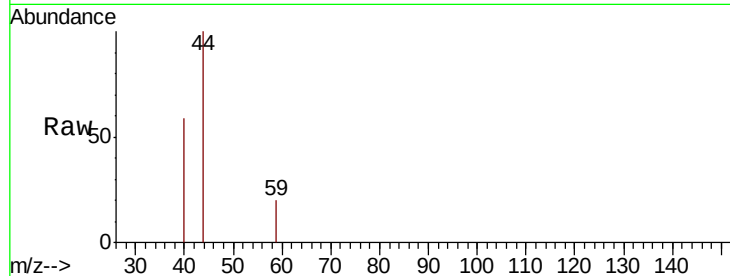


#11

Tert butyl alcohol
 Concen: 0.311 ug/l
 RT: 4.80 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#03

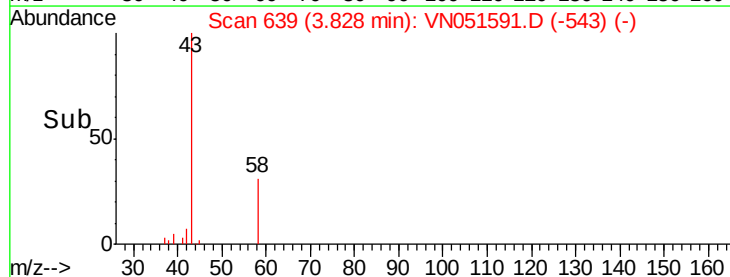
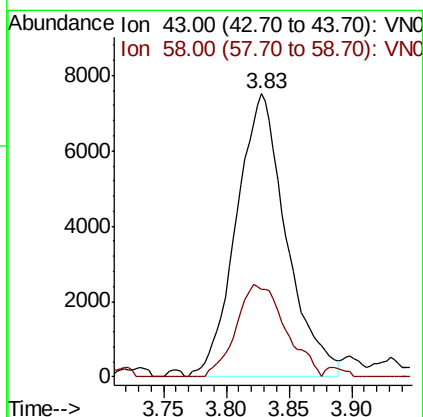
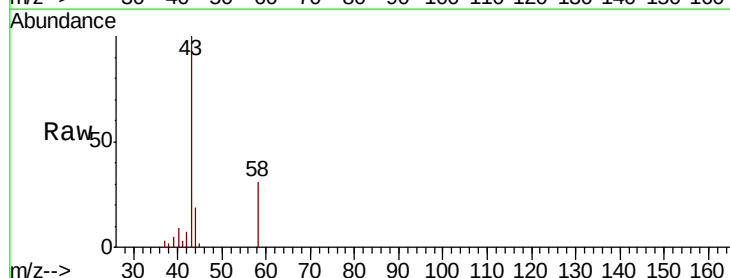
Tot Ion: 59 Resp: 141
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.2#

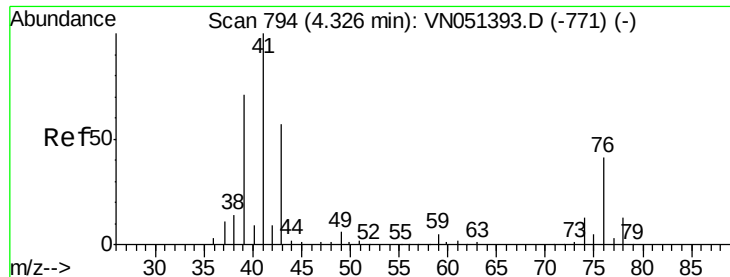


#16

Acetone
 Concen: Below Cal
 RT: 3.83 min Scan# 639
 Delta R.T. 0.01 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Tgt Ion: 43 Resp: 20879
 Ion Ratio Lower Upper
 43 100
 58 30.8 25.0 37.4

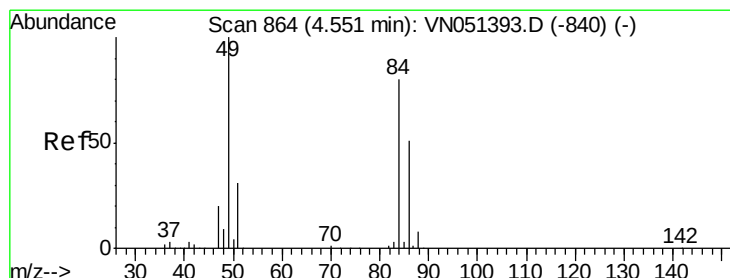
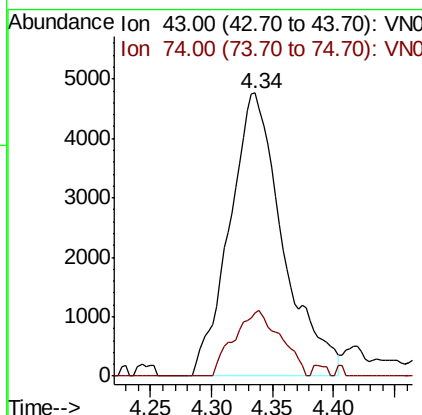
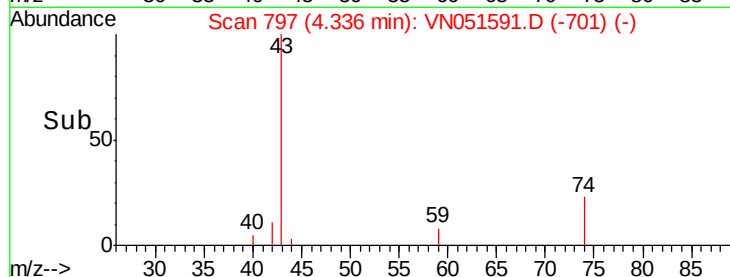
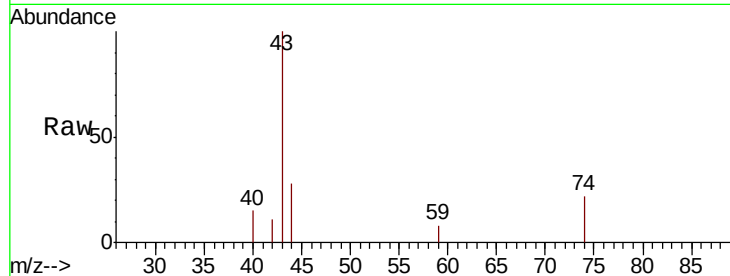




#18
Methyl Acetate
Concen: 2.352 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051591.D
Acq: 27 Sep 2018 18:54

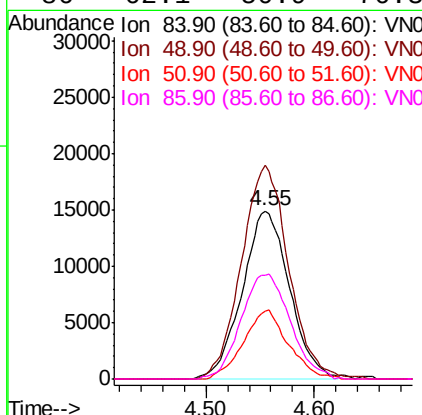
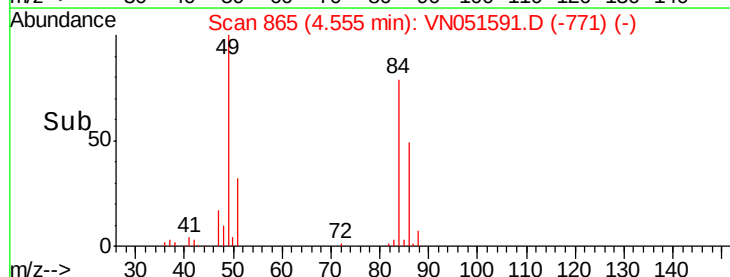
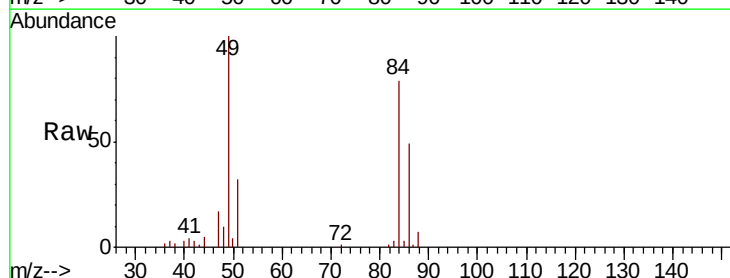
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#03

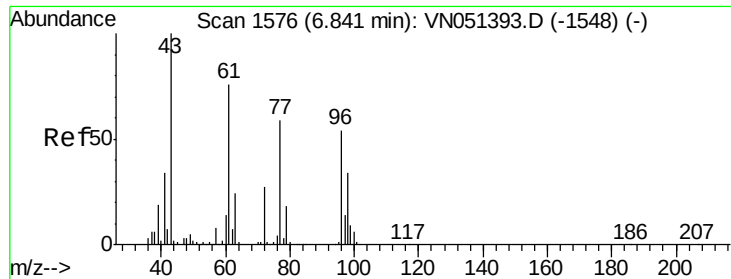
Tot Ion: 43 Resp: 14395
Ion Ratio Lower Upper
43 100
74 20.2 18.8 28.2



#20
Methylene Chloride
Concen: 5.702 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051591.D
Acq: 27 Sep 2018 18:54

Tgt Ion: 84 Resp: 45344
Ion Ratio Lower Upper
84 100
49 127.2 99.9 149.9
51 40.6 31.4 47.2
86 62.1 50.9 76.3

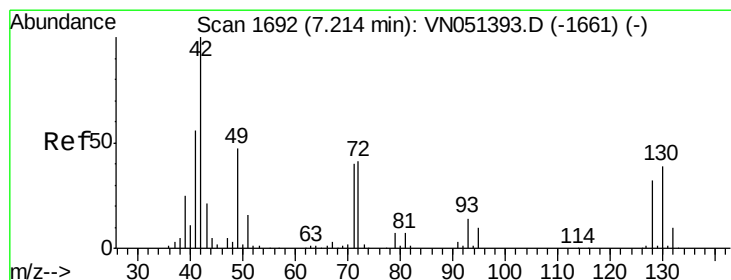
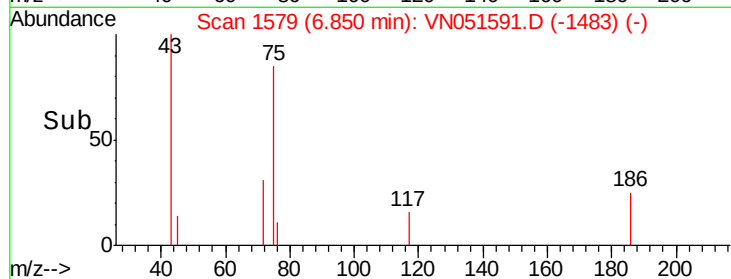
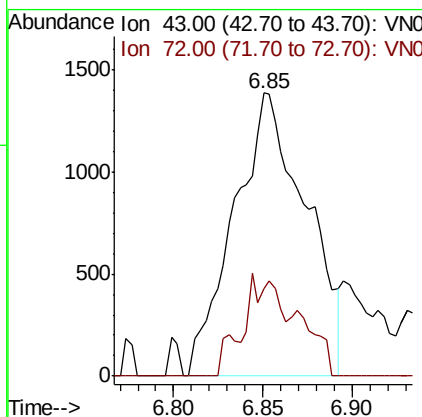
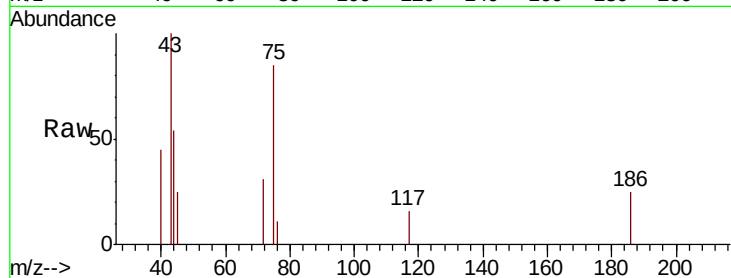




#25
 2-Butanone
 Concen: 1.418 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

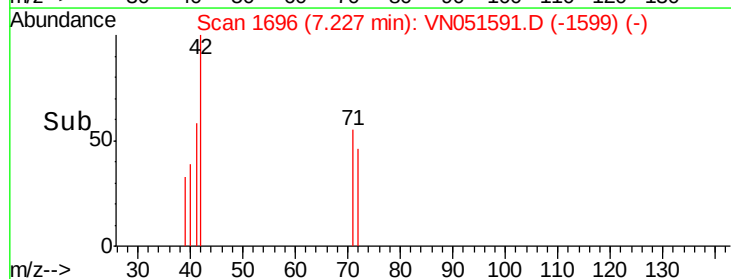
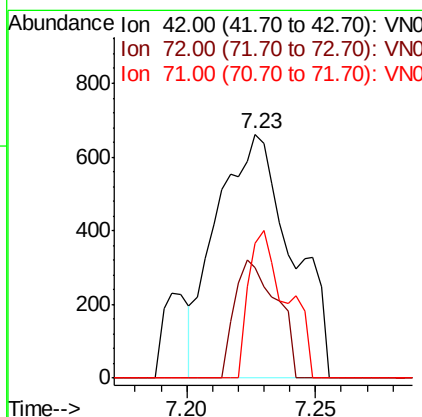
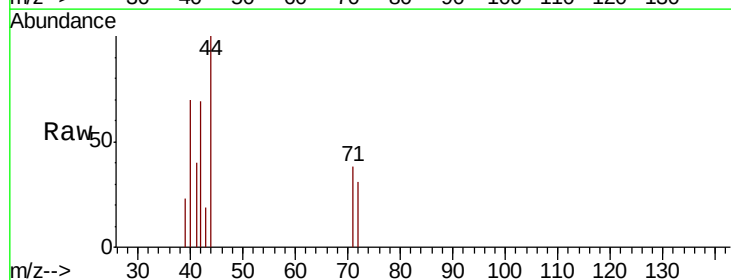
Instrument :
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 ClientSampleId :
 PB113263ZHE#03

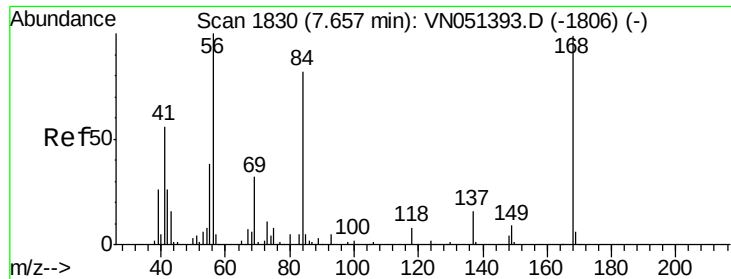
Tot Ion: 43 Resp: 3900
 Ion Ratio Lower Upper
 43 100
 72 30.9 21.8 32.6



#29
 Tetrahydrofuran
 Concen: 0.768 ug/l
 RT: 7.23 min Scan# 1696
 Delta R.T. 0.01 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Tgt Ion: 42 Resp: 1339
 Ion Ratio Lower Upper
 42 100
 72 27.3 34.3 51.5#
 71 31.0 32.2 48.4#





#31

Cyclohexane

Concen: 1.012 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051591.D

Acq: 27 Sep 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#03

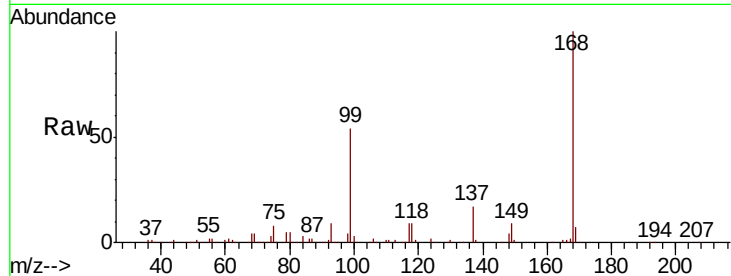
Tot Ion: 56 Resp: 12801

Ion Ratio Lower Upper

56 100

69 192.2 25.8 38.6#

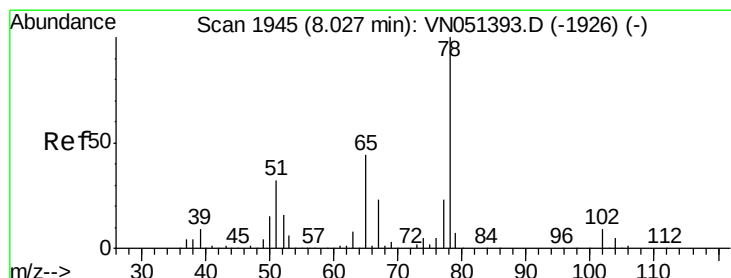
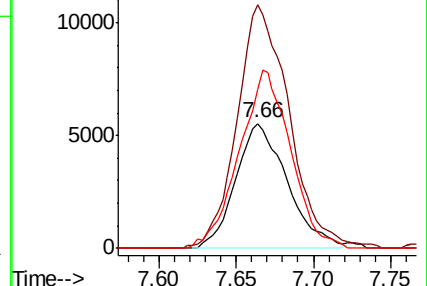
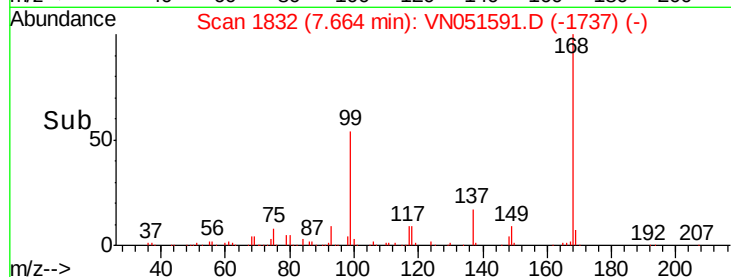
84 125.0 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN051591.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN051591.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN051591.D (-1806) (-)



#33

1,2-Dichloroethane-d4

Concen: 58.884 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051591.D

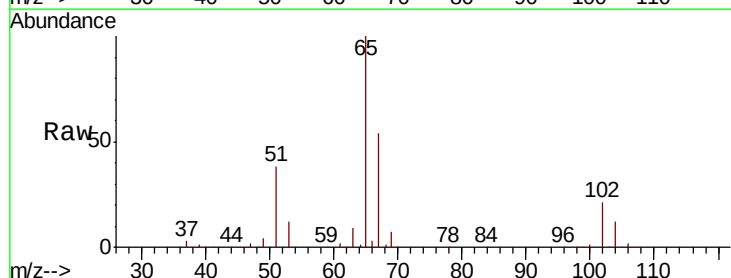
Acq: 27 Sep 2018 18:54

Tgt Ion: 65 Resp: 473240

Ion Ratio Lower Upper

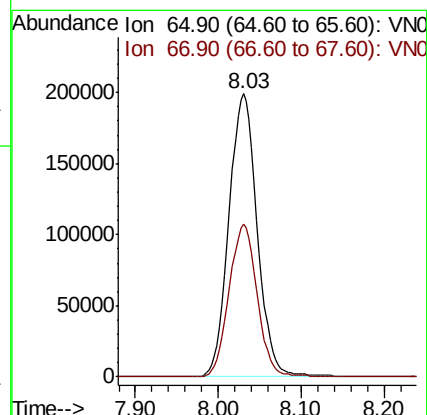
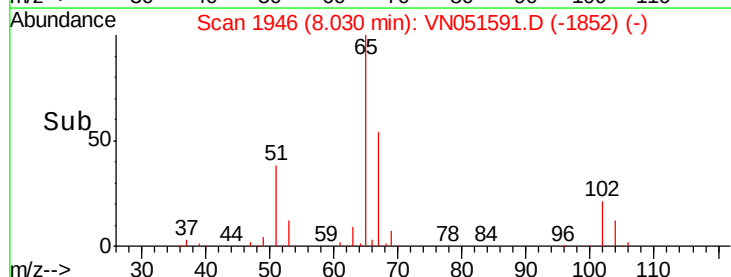
65 100

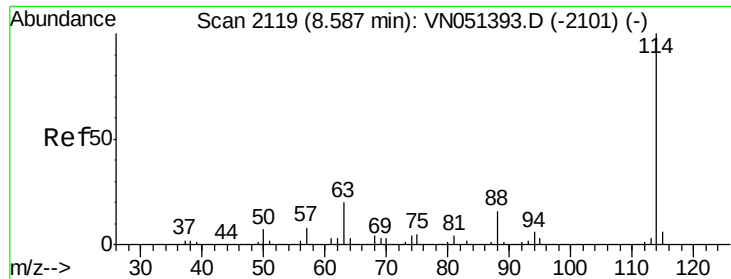
67 53.7 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN051591.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN051591.D (-1852) (-)

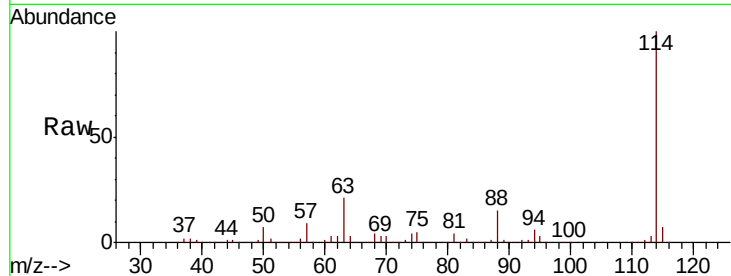




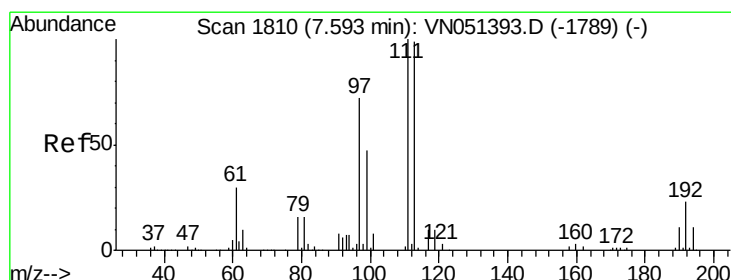
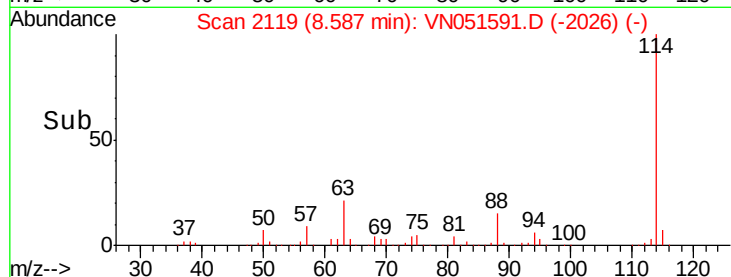
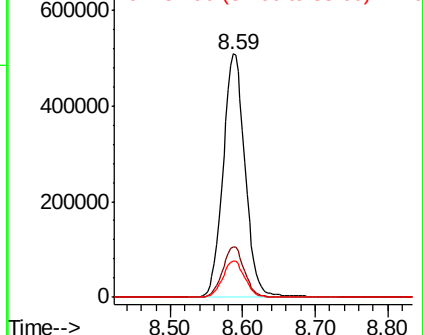
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Instrument :
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Tot Ion:114 Resp: 1071403
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.2
 88 15.0 0.0 31.4

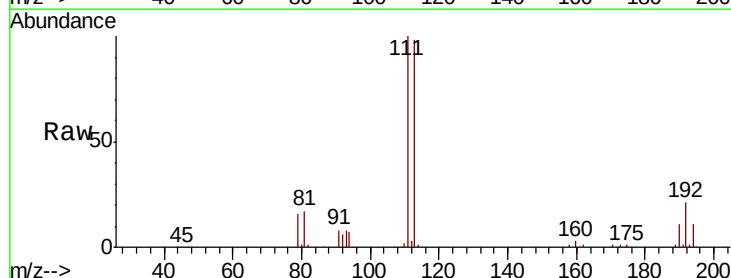


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

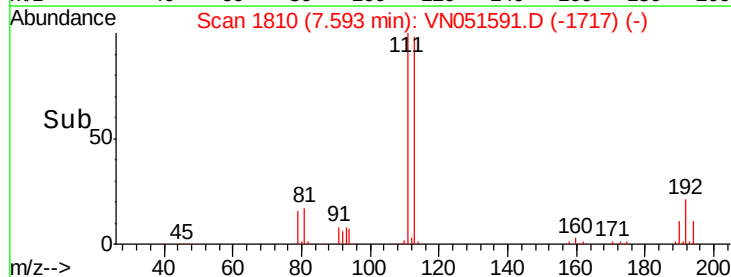
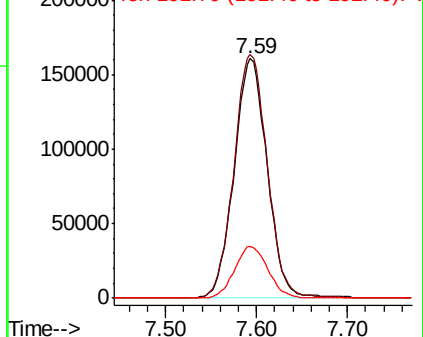


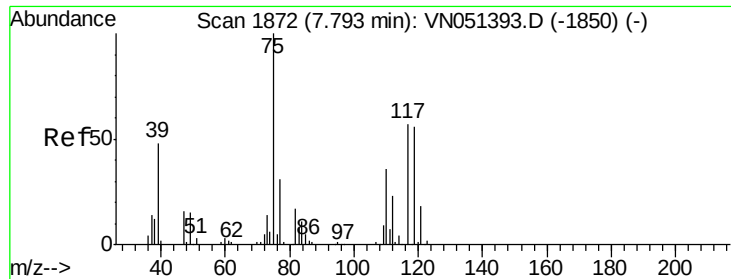
#35
 Dibromofluoromethane
 Concen: 47.192 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Tgt Ion:113 Resp: 404319
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.6 123.8
 192 21.9 18.0 27.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

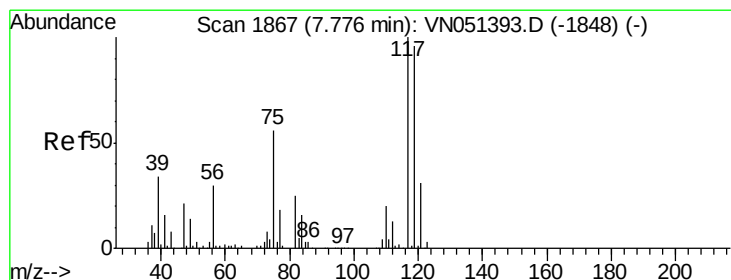
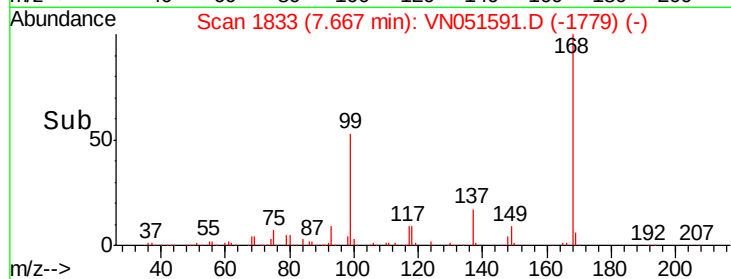
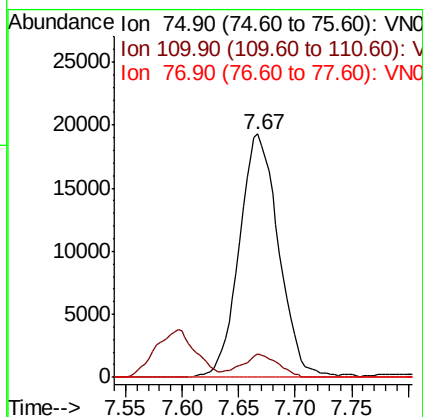
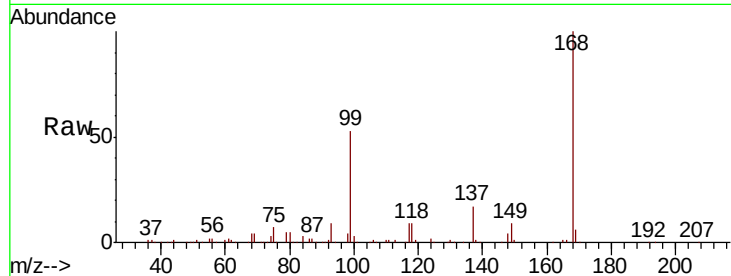




#36
 1,1-Dichloropropene
 Concen: 3.775 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

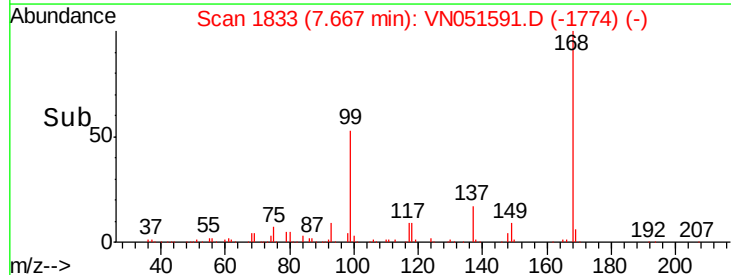
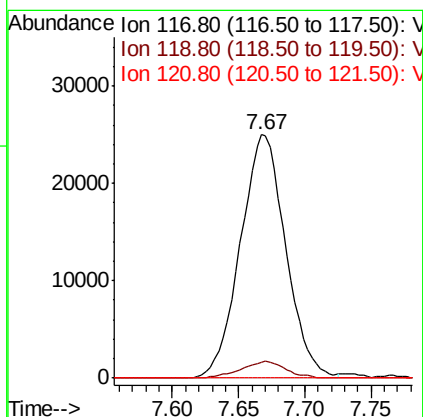
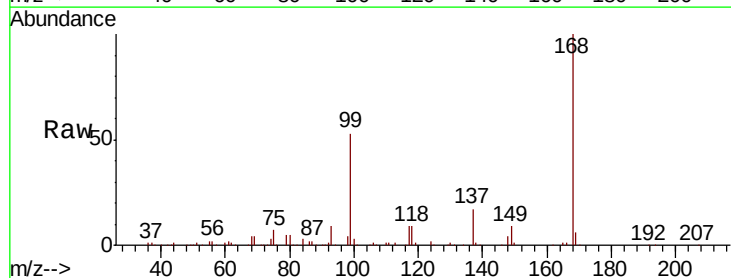
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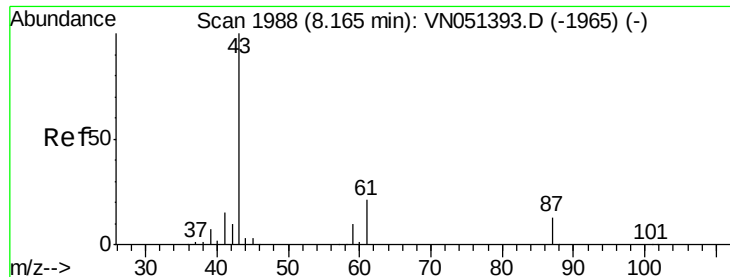
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.587 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	76.9	115.3#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 25.521 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051591.D

Acq: 27 Sep 2018 18:54

Instrument :

MSVOA_N

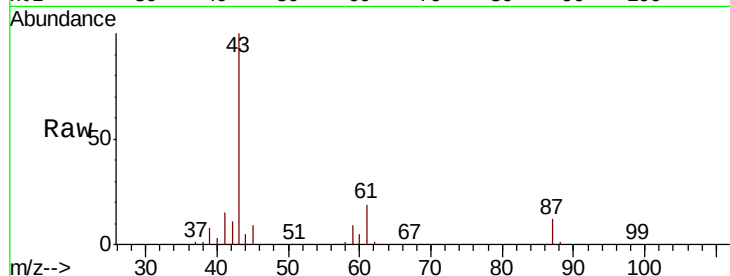
ClientSampleId :

PB113263ZHE#03

Tot Ion: 43 Resp: 329212

Ion Ratio Lower Upper

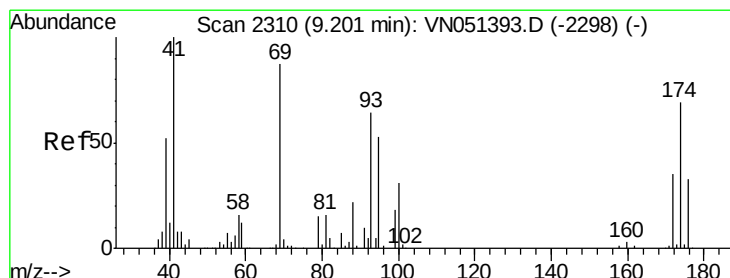
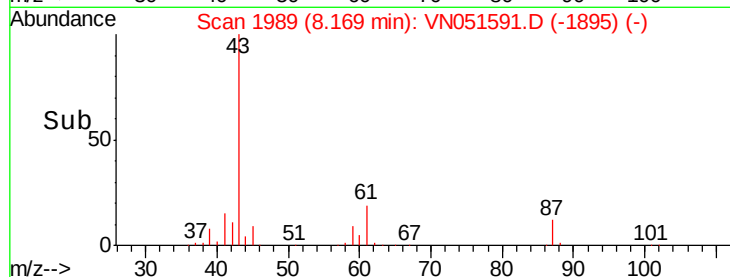
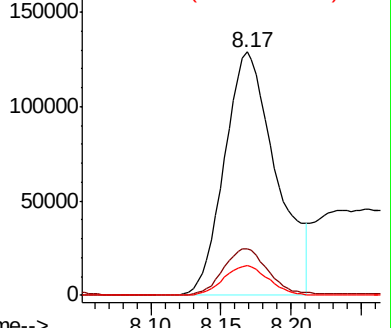
43	100		
61	17.2	16.8	25.2
87	10.6	10.7	16.1#



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

Methyl methacrylate

Concen: 1.202 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

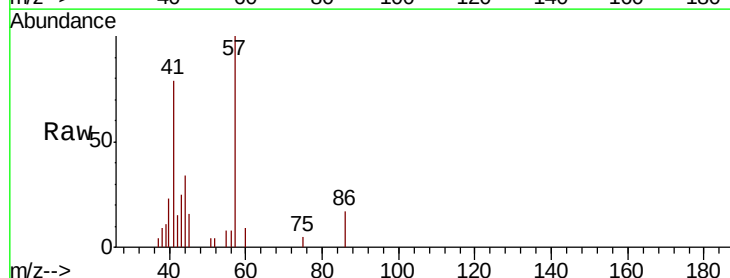
Lab File: VN051591.D

Acq: 27 Sep 2018 18:54

Tgt Ion: 41 Resp: 7731

Ion Ratio Lower Upper

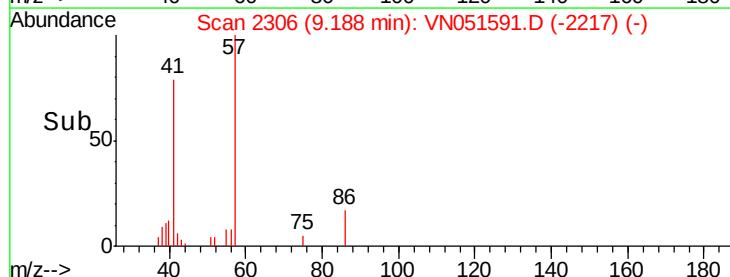
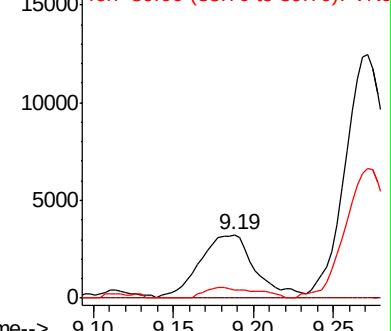
41	100		
69	0.0	70.4	105.6#
39	15.7	43.8	65.8#

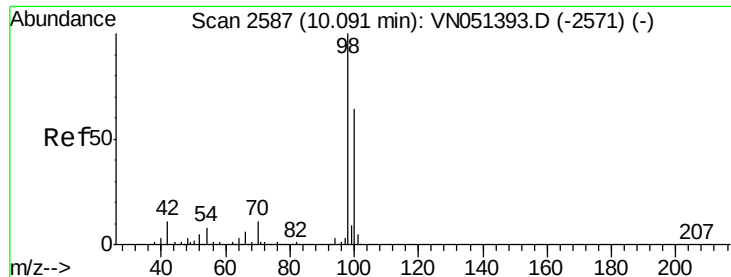


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 45.901 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051591.D

Acq: 27 Sep 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

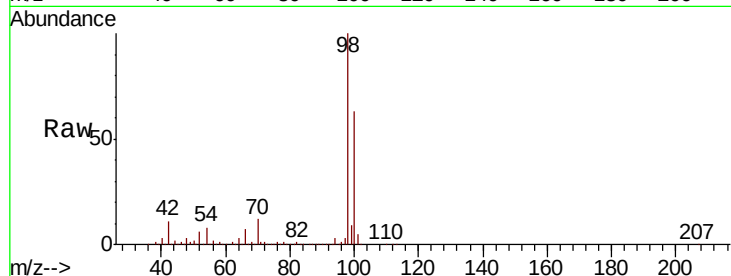
PB113263ZHE#03

Tot Ion: 98 Resp: 1480865

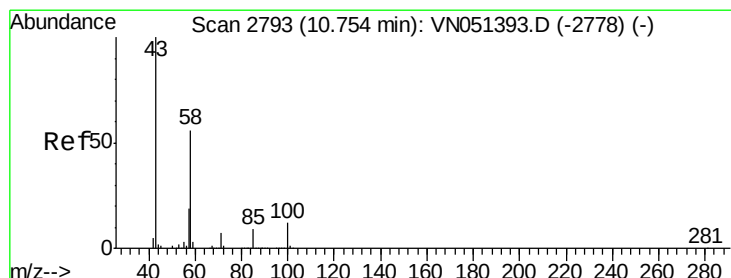
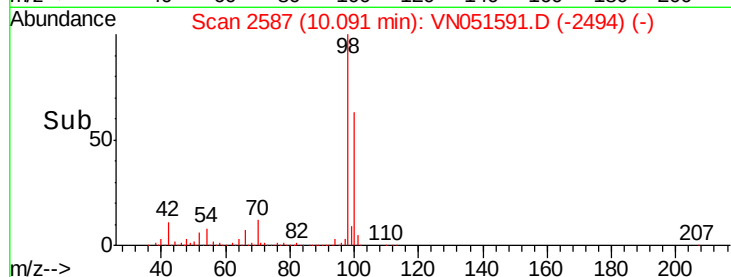
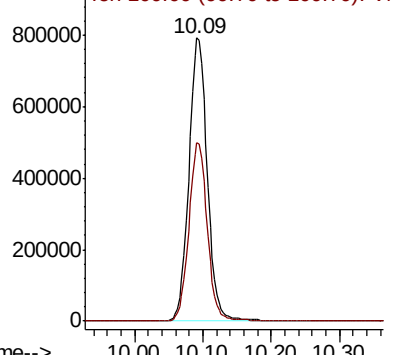
Ion Ratio Lower Upper

98 100

100 63.0 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)



#59

2-Hexanone

Concen: 3.782 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051591.D

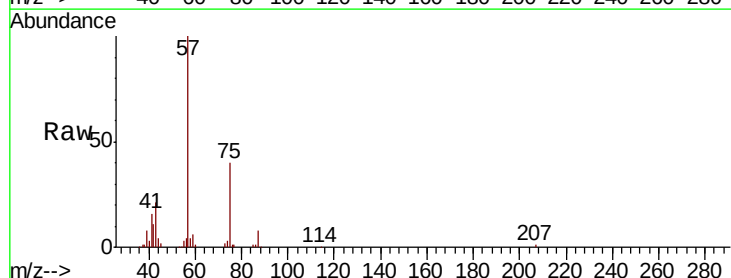
Acq: 27 Sep 2018 18:54

Tgt Ion: 43 Resp: 17395

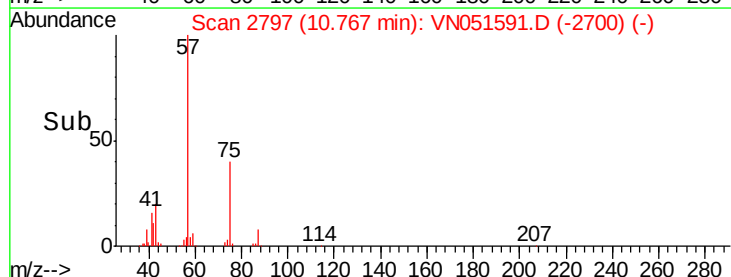
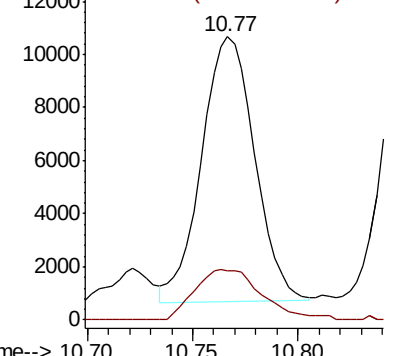
Ion Ratio Lower Upper

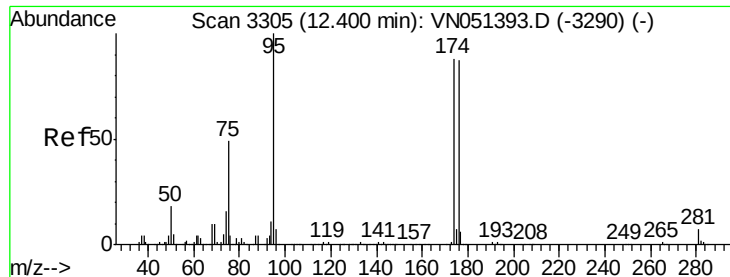
43 100

58 24.1 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2778) (-)





#62

4-Bromofluorobenzene

Concen: 37.195 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051591.D

Acq: 27 Sep 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#03

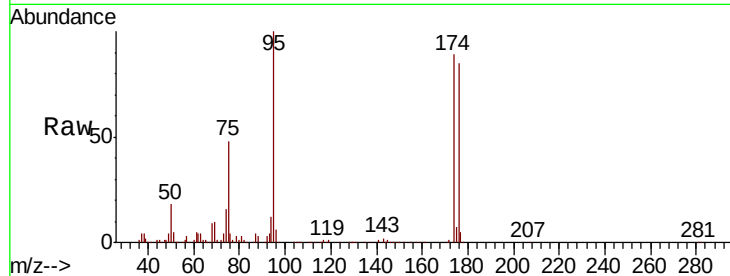
Tot Ion: 95 Resp: 388201

Ion Ratio Lower Upper

95 100

174 89.8 0.0 181.6

176 85.4 0.0 176.4



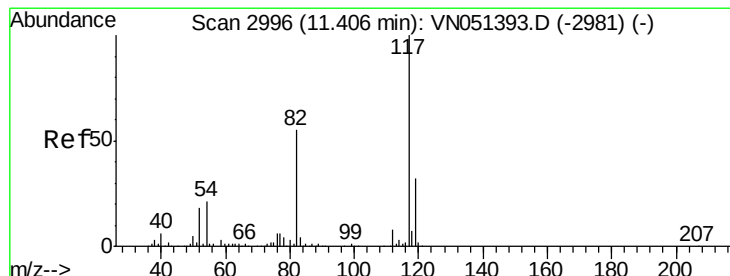
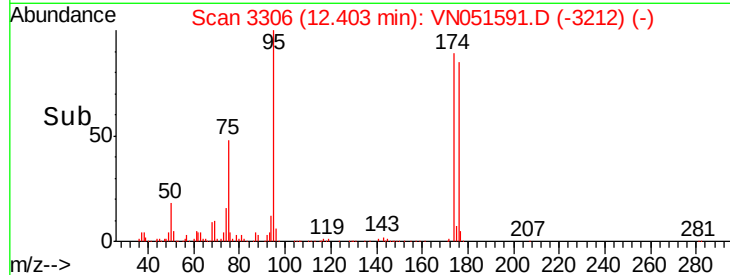
Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

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

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

12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051591.D

Acq: 27 Sep 2018 18:54

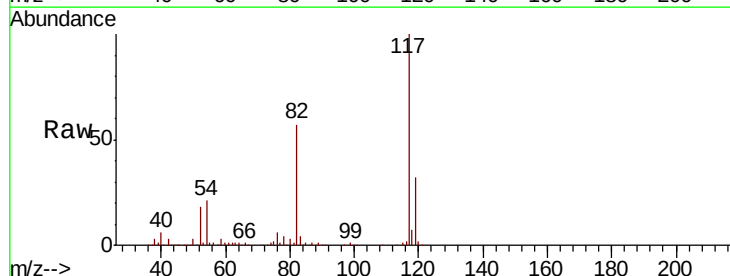
Tgt Ion: 117 Resp: 889592

Ion Ratio Lower Upper

117 100

82 56.6 44.2 66.2

119 31.7 25.9 38.9



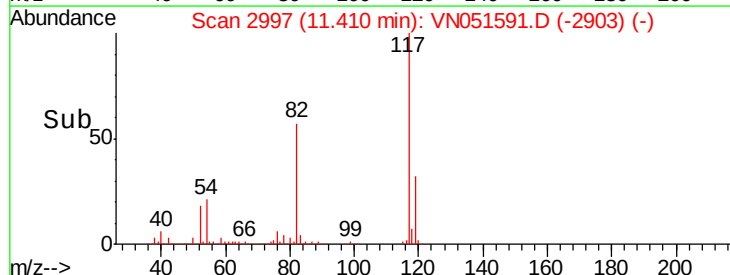
Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

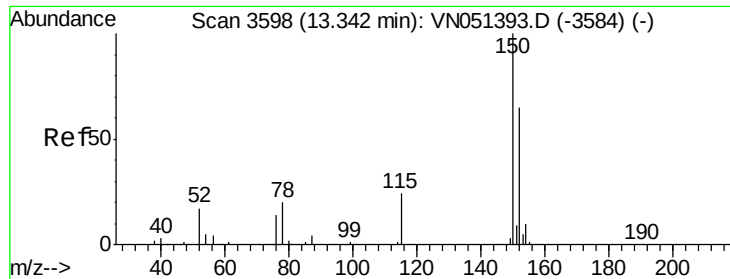
Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

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

11.41

Time-->



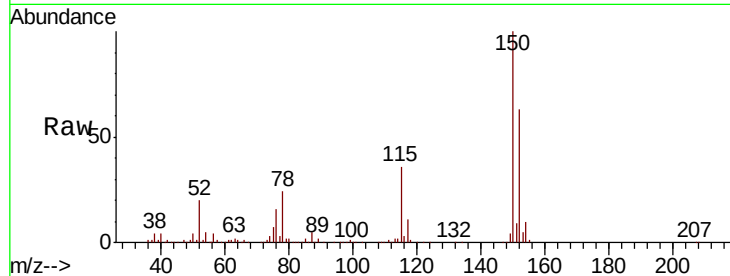


#72

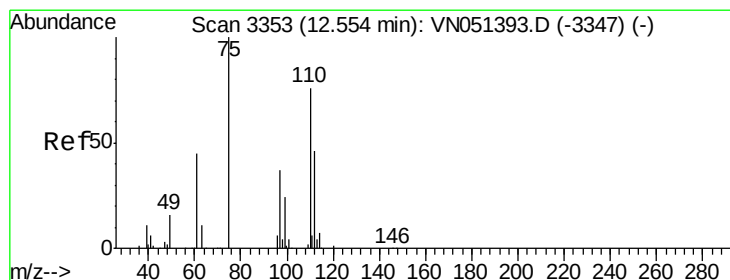
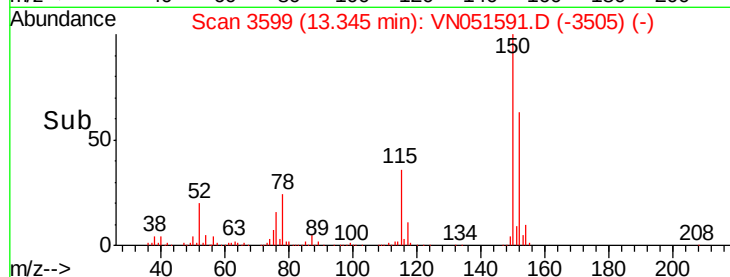
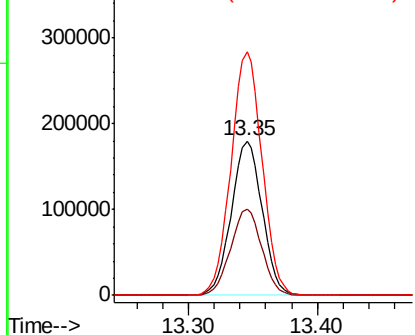
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051591.D
Acq: 27 Sep 2018 18:54

Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#03

Tot Ion:152 Resp: 298907
Ion Ratio Lower Upper
152 100
115 56.1 28.3 84.9
150 158.2 0.0 353.6



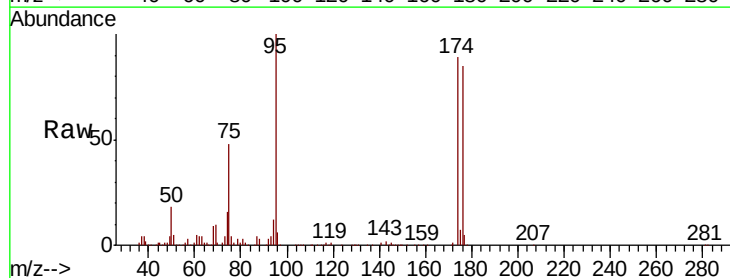
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



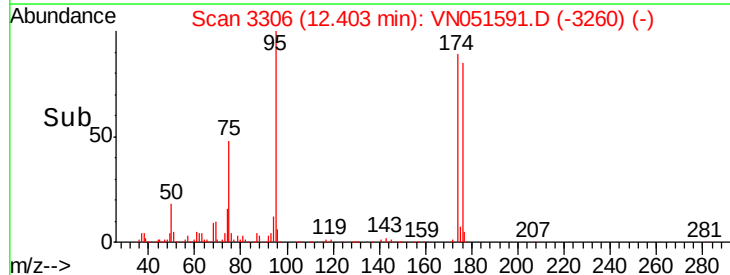
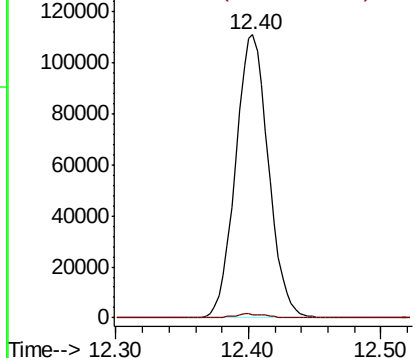
#76

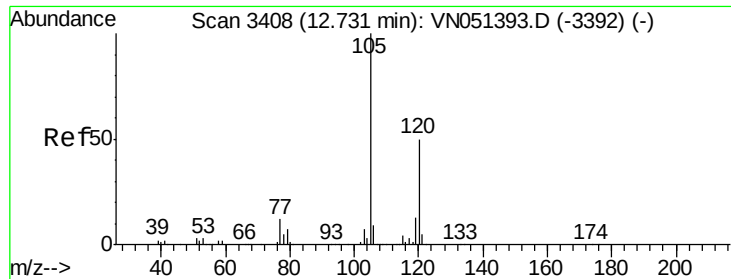
1,2,3-Trichloropropane
Concen: 38.443 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN051591.D
Acq: 27 Sep 2018 18:54

Tgt Ion: 75 Resp: 190755
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



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

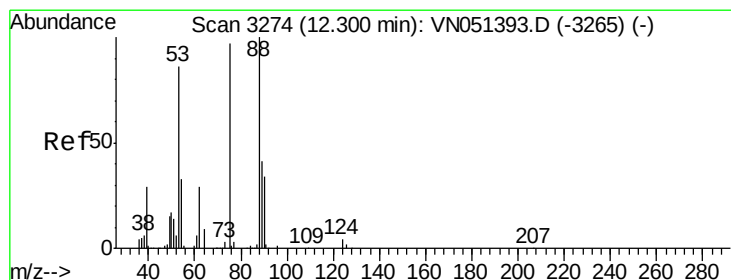
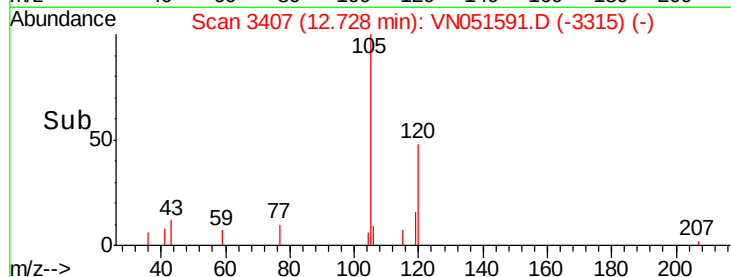
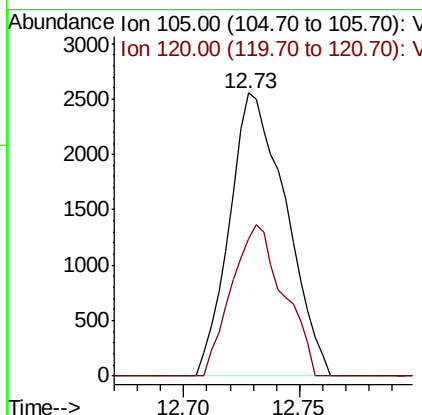
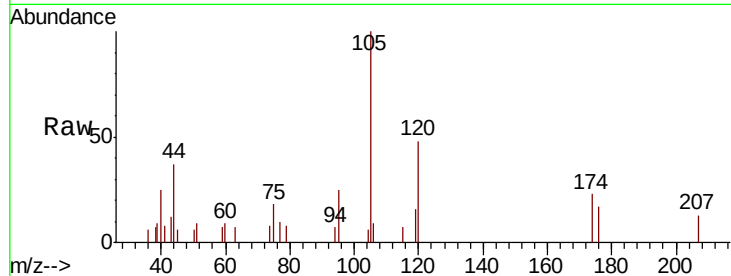




#80
 1,3,5-Trimethylbenzene
 Concen: 0.210 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

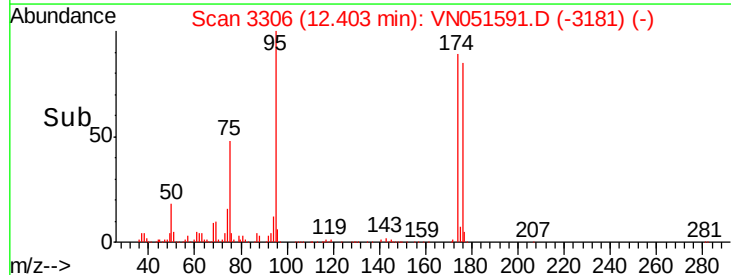
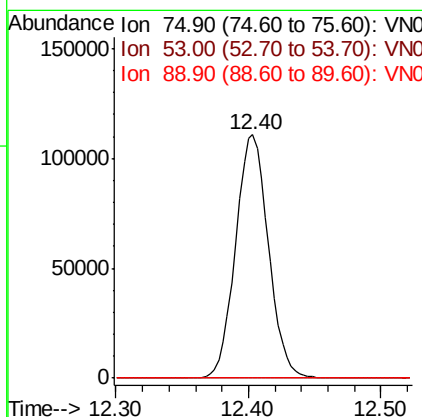
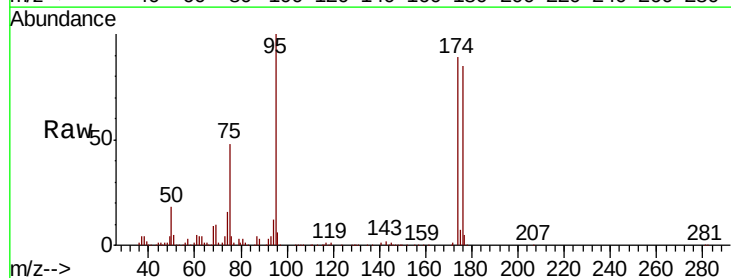
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#03

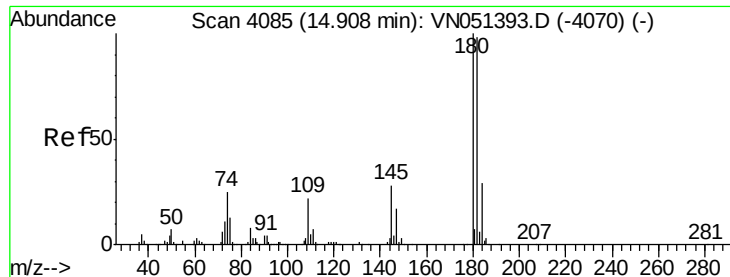
Tot Ion:105 Resp: 4311
 Ion Ratio Lower Upper
 105 100
 120 49.4 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 118.209 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Tgt Ion: 75 Resp: 190755
 Ion Ratio Lower Upper
 75 100
 53 0.3 73.9 110.9#
 89 0.0 36.7 55.1#

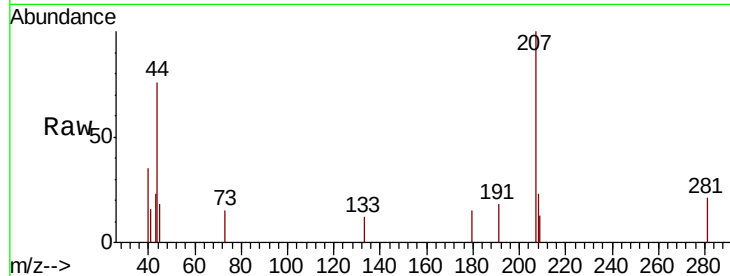




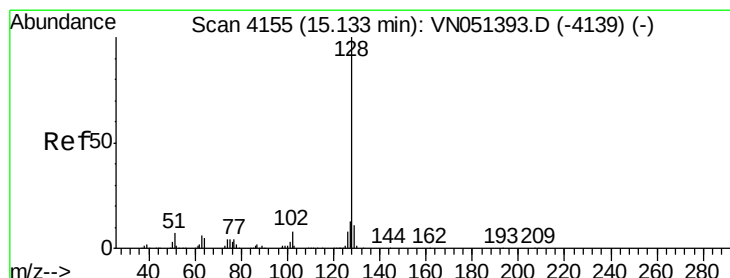
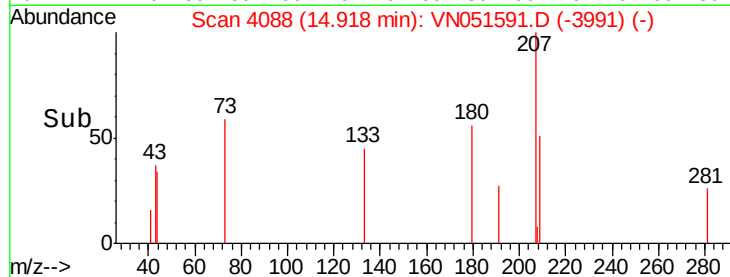
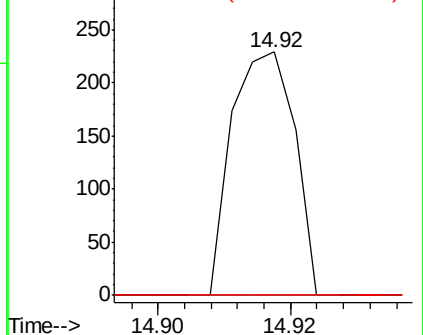
#93
 1,2,4-Trichlorobenzene
 Concen: 6.005 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#03

Tot Ion:180 Resp: 150
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.5 145.6#
 145 0.0 14.1 42.4#

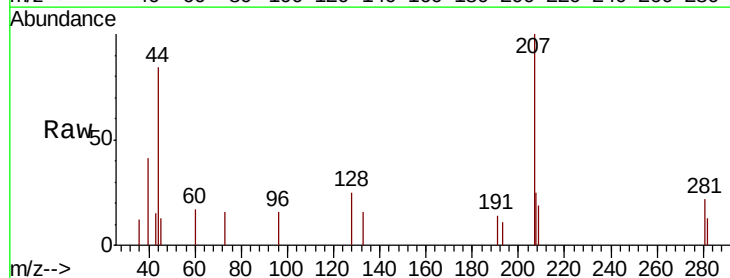


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 8.066 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN051591.D
 Acq: 27 Sep 2018 18:54

Tgt Ion:128 Resp: 290
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 10.0 8.6 12.8



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

