

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051194.D
 Acq On : 14 Sep 2018 16:50
 Operator : MD\SY
 Sample : PB112829ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#04

Quant Time: Sep 15 00:08:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	552037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	898429	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	754281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	232970	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	340323	55.40	ug/l	0.00
Spiked Amount			Recovery	=	110.80%	
35) Dibromofluoromethane	7.59	113	338101	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.09	98	1203610	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
62) 4-Bromofluorobenzene	12.40	95	311517	36.76	ug/l	0.00
Spiked Amount			Recovery	=	73.52%	

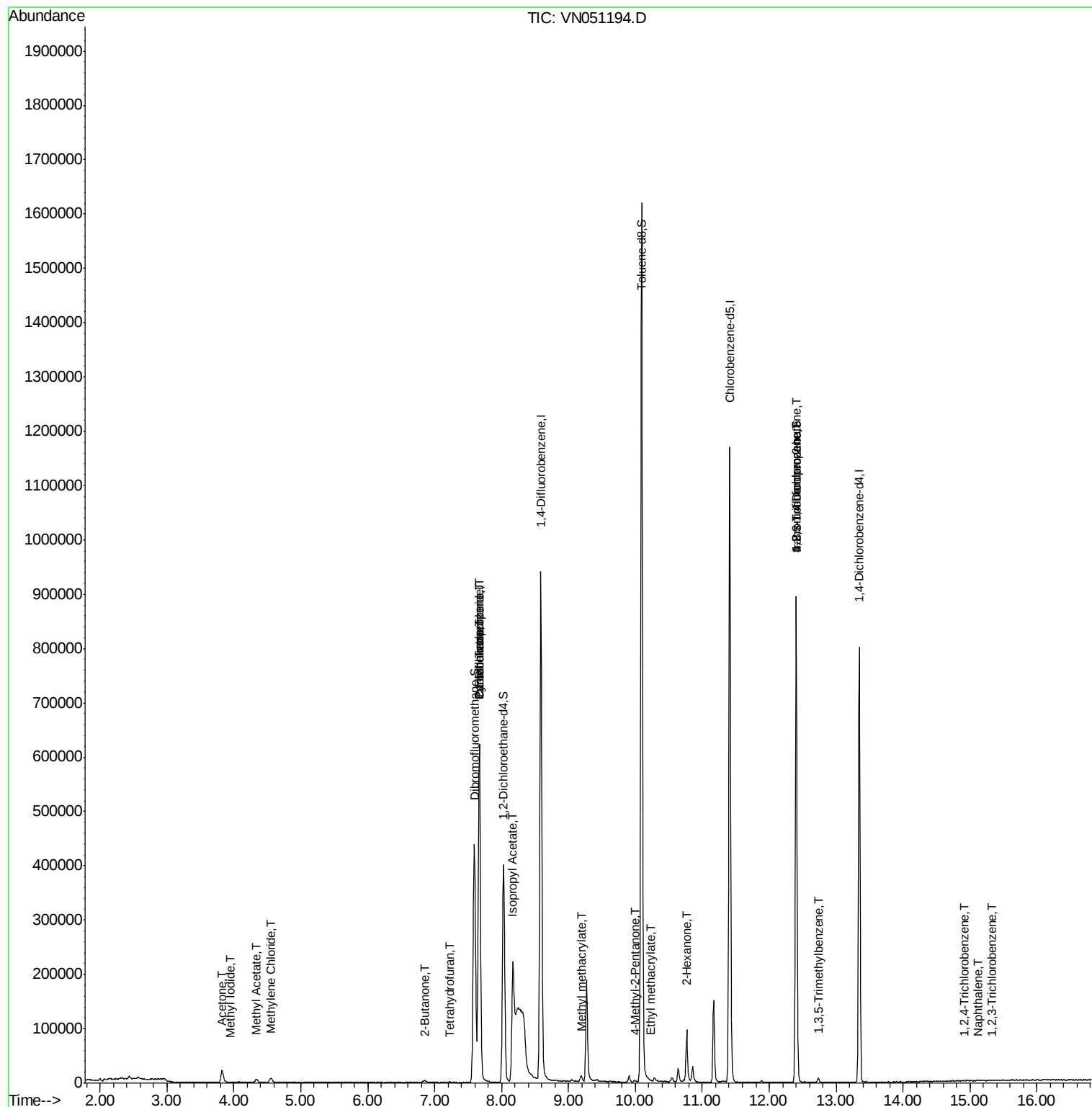
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2120	Below Cal		97
5) Bromomethane	2.57	94	2333	Below Cal		87
10) Methyl Iodide	3.95	142	258	5.67 ug/l	#	44
16) Acetone	3.82	43	37969	19.62 ug/l		96
18) Methyl Acetate	4.34	43	12244	2.49 ug/l	#	89
20) Methylene Chloride	4.55	84	6934	1.02 ug/l	#	84
25) 2-Butanone	6.85	43	6611	2.74 ug/l		92
29) Tetrahydrofuran	7.23	42	1318	0.87 ug/l	#	55
31) Cyclohexane	7.67	56	8498	0.62 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	34035	3.45 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	48433	4.99 ug/l	#	16
43) Isopropyl Acetate	8.17	43	279676	27.75 ug/l	#	81
48) Methyl methacrylate	9.18	41	6111	1.24 ug/l	#	16
51) 4-Methyl-2-Pentanone	9.99	43	2200	0.39 ug/l		94
56) Ethyl methacrylate	10.23	69	1568	2.62 ug/l	#	49
59) 2-Hexanone	10.77	43	12457	3.30 ug/l	#	58
76) 1,2,3-Trichloropropane	12.40	75	144864	39.80 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.73	105	4114	0.26 ug/l		100
81) trans-1,4-Dichloro-2-buten	12.40	75	144864	118.09 ug/l	#	15
93) 1,2,4-Trichlorobenzene	14.90	180	30	3.99 ug/l	#	13
95) Naphthalene	15.13	128	316	5.37 ug/l	#	69
96) 1,2,3-Trichlorobenzene	15.32	180	30	2.96 ug/l	#	12

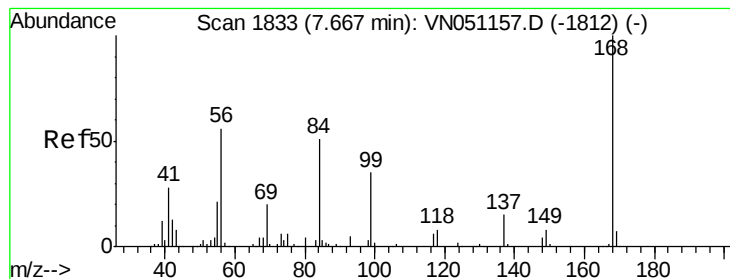
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

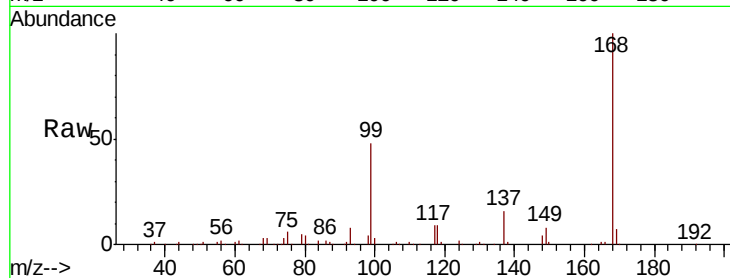
PB112829ZHE#04

Tot Ion:168 Resp: 552037

Ion Ratio Lower Upper

168 100

99 48.3 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

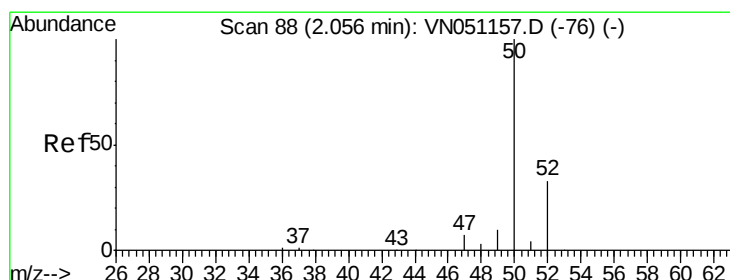
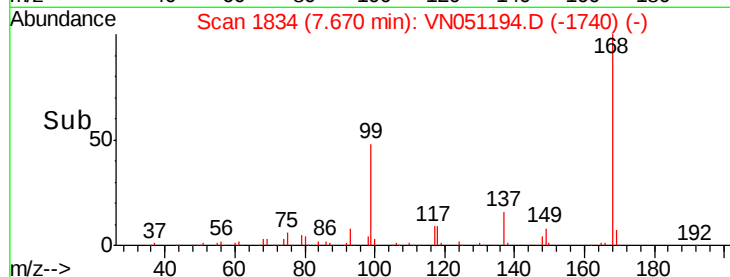
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051194.D

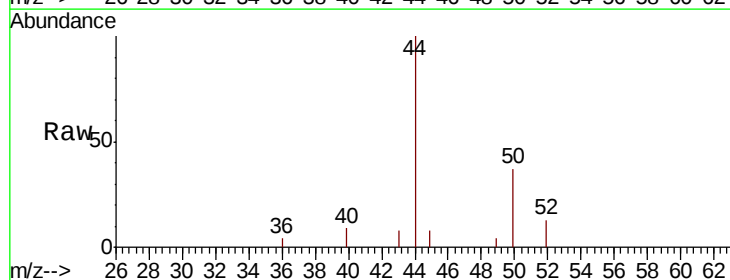
Acq: 14 Sep 2018 16:50

Tgt Ion: 50 Resp: 2120

Ion Ratio Lower Upper

50 100

52 34.4 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

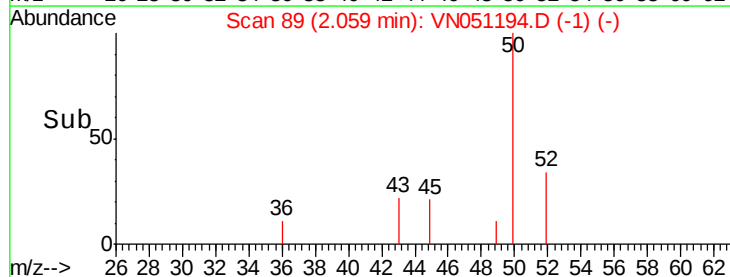
1500

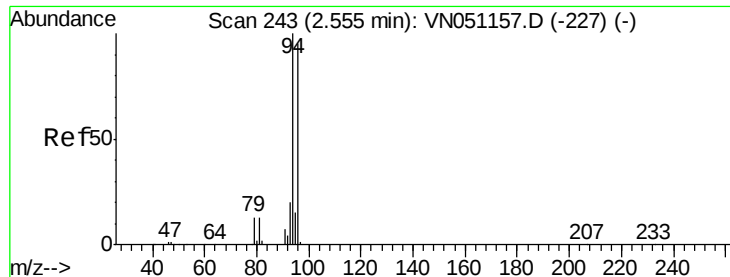
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

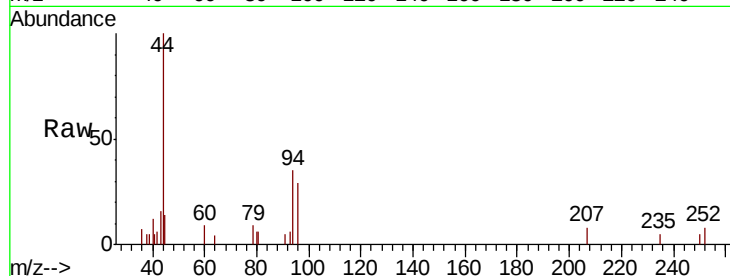
PB112829ZHE#04

Tot Ion: 94 Resp: 2333

Ion Ratio Lower Upper

94 100

96 82.5 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051157.D (-227) (-)

Ion 95.90 (95.60 to 96.60): VN051157.D (-227) (-)

2.57

1500

1000

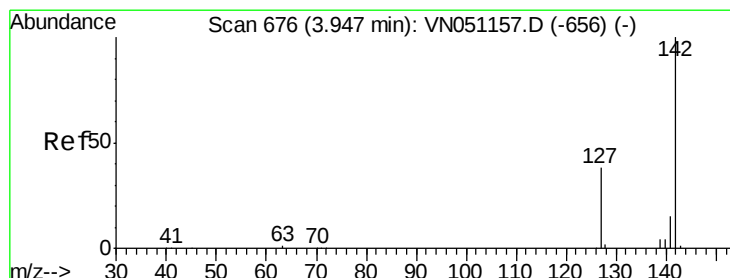
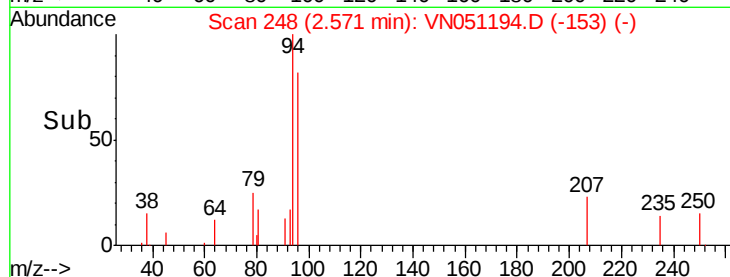
500

0

Time-->

2.55

2.60



#10

Methyl Iodide

Concen: 5.67 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

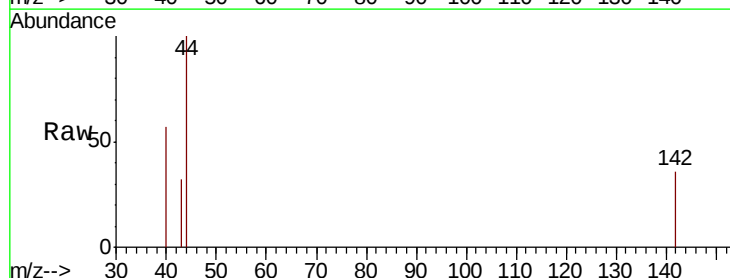
Tgt Ion: 142 Resp: 258

Ion Ratio Lower Upper

142 100

127 0.0 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VN051157.D (-656) (-)

Ion 126.80 (126.50 to 127.50): VN051157.D (-656) (-)

Ion 140.80 (140.50 to 141.50): VN051157.D (-656) (-)

3.95

300

200

100

0

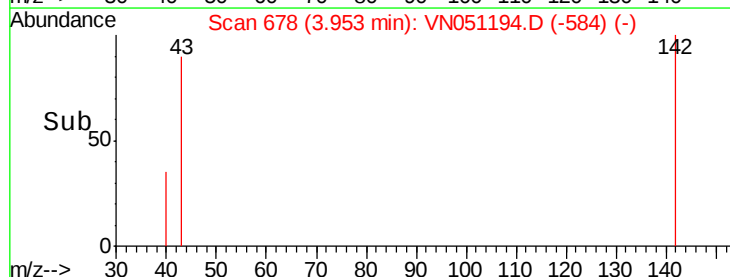
Time-->

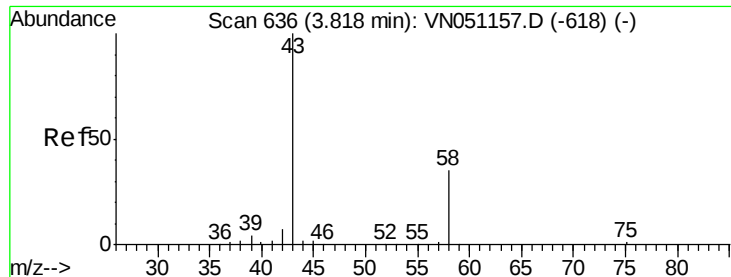
3.93

3.94

3.95

3.96





#16

Acetone

Concen: 19.62 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

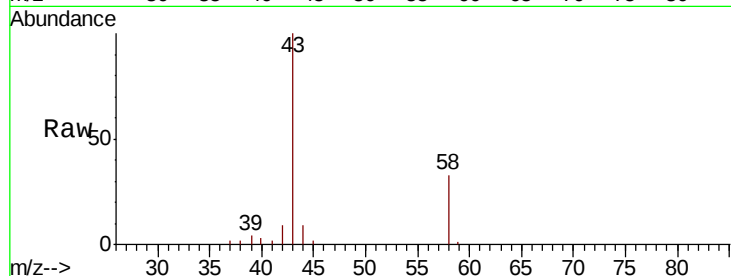
PB112829ZHE#04

Tot Ion: 43 Resp: 37969

Ion Ratio Lower Upper

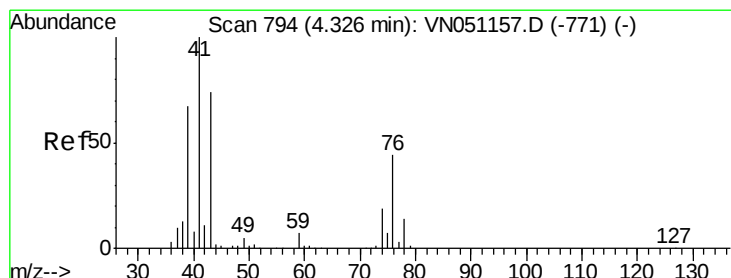
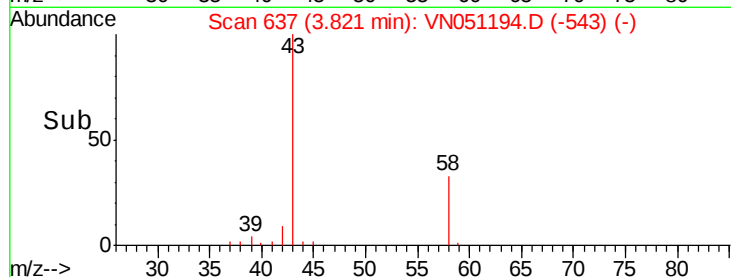
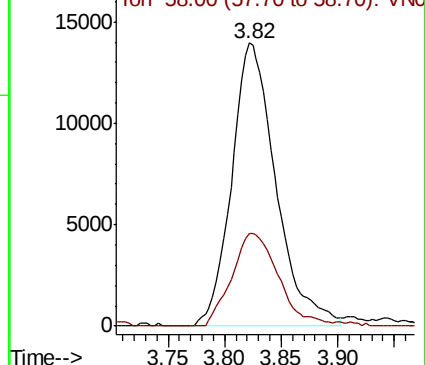
43 100

58 32.5 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.49 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051194.D

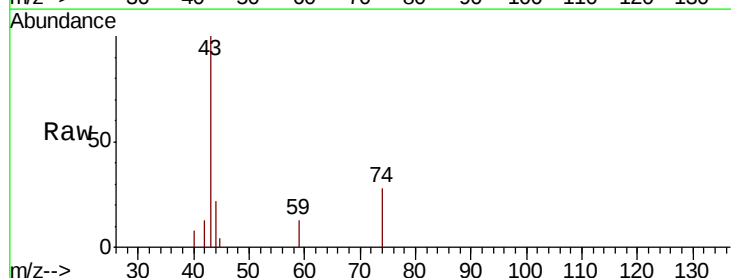
Acq: 14 Sep 2018 16:50

Tgt Ion: 43 Resp: 12244

Ion Ratio Lower Upper

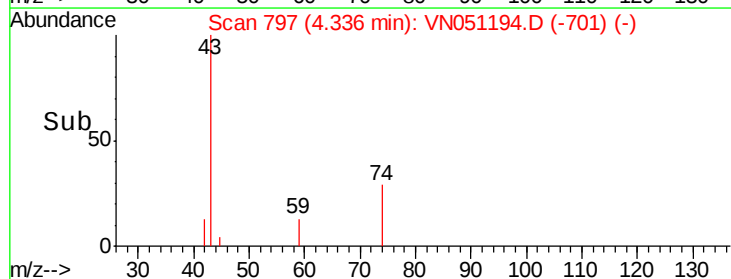
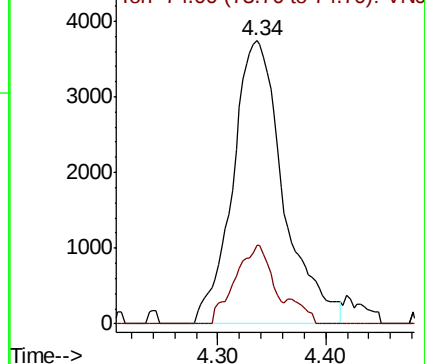
43 100

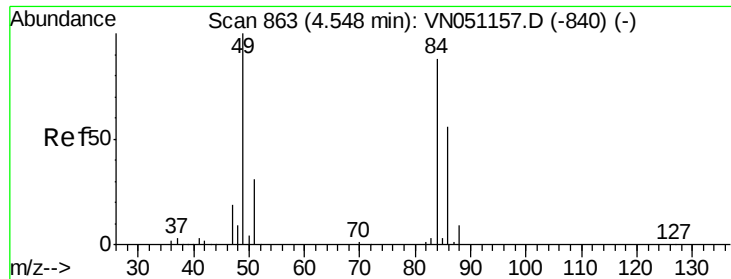
74 20.2 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

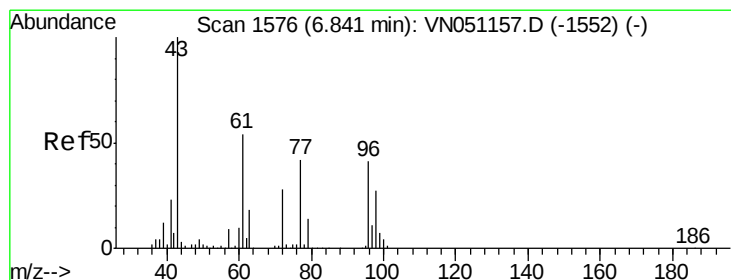
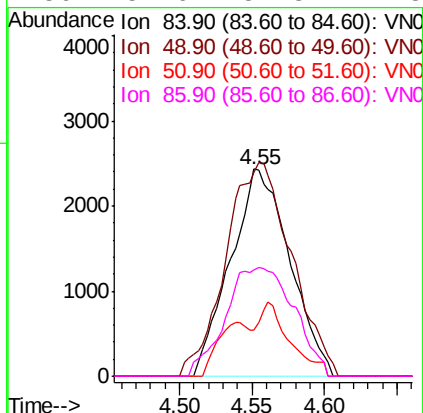
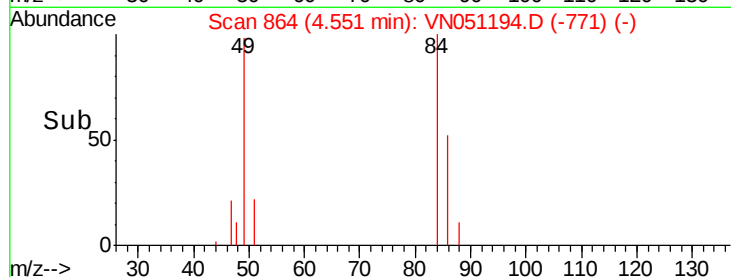
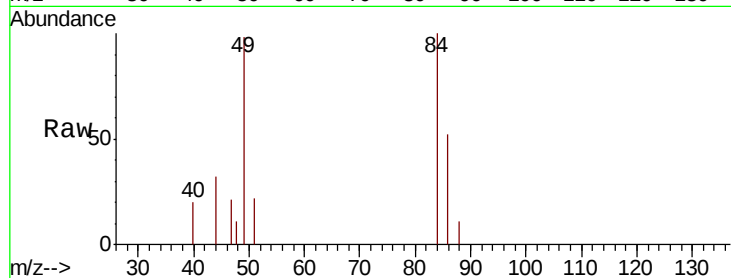




#20
Methvlene Chloride
Concen: 1.02 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051194.D
Acq: 14 Sep 2018 16:50

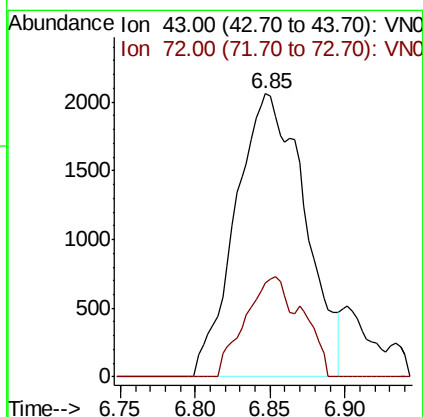
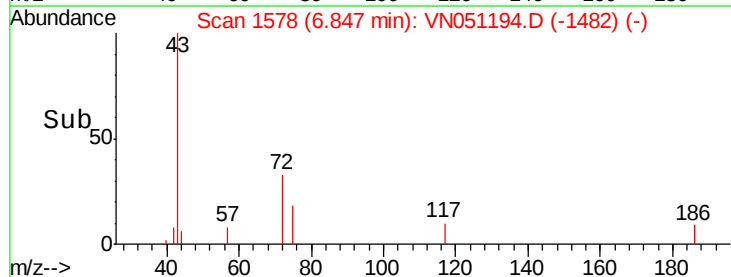
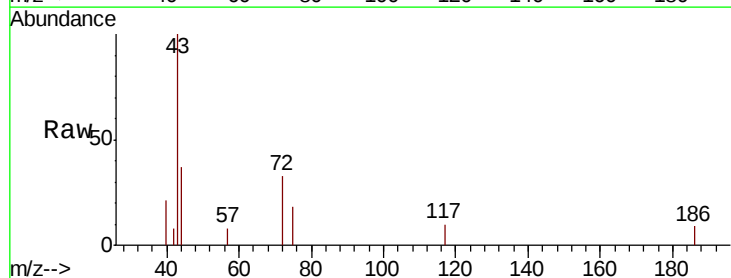
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#04

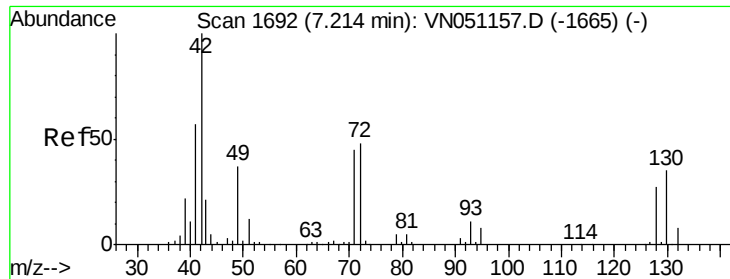
Tot Ion: 84 Resp: 6934
Ion Ratio Lower Upper
84 100
49 98.0 90.2 135.2
51 22.3 28.4 42.6#
86 51.6 51.8 77.8#



#25
2-Butanone
Concen: 2.74 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051194.D
Acq: 14 Sep 2018 16:50

Tgt Ion: 43 Resp: 6611
Ion Ratio Lower Upper
43 100
72 33.2 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.87 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#04

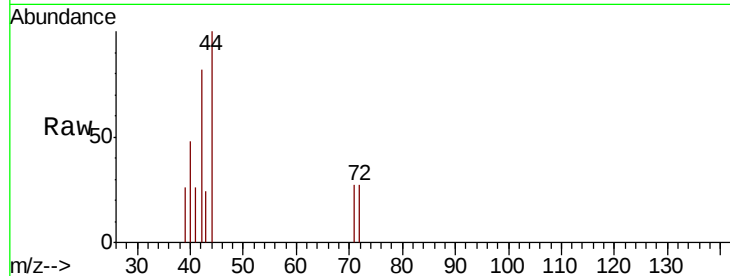
Tot Ion: 42 Resp: 1318

Ion Ratio Lower Upper

42 100

72 19.6 37.4 56.0#

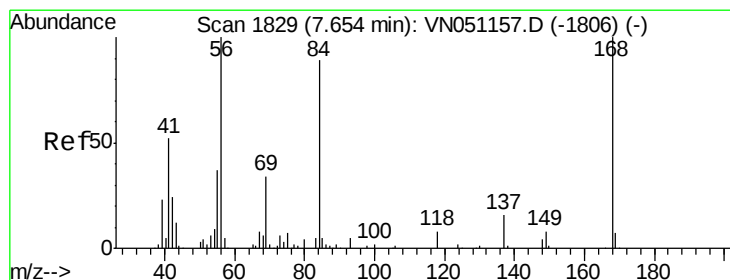
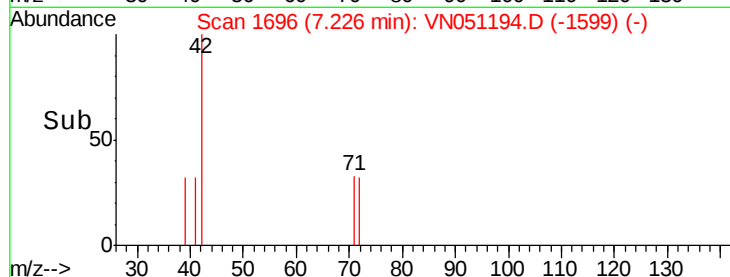
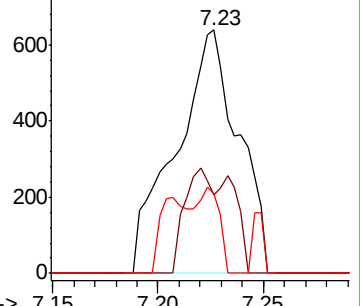
71 11.5 34.7 52.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.62 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

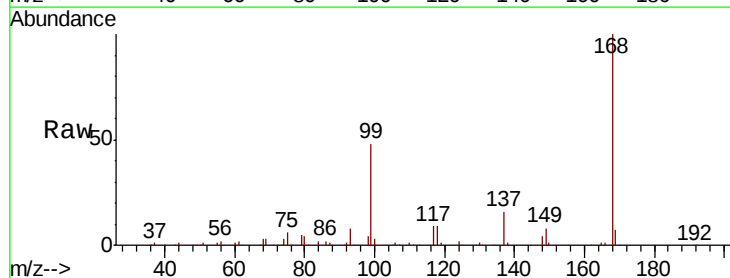
Tgt Ion: 56 Resp: 8498

Ion Ratio Lower Upper

56 100

69 203.1 26.3 39.5#

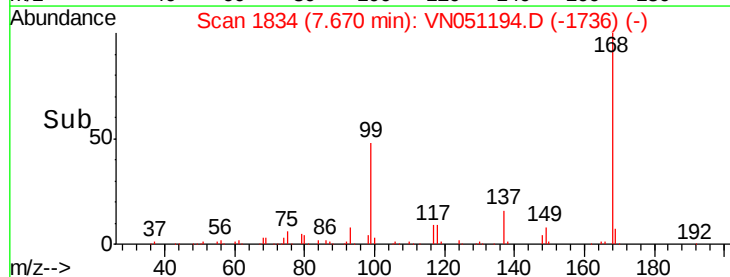
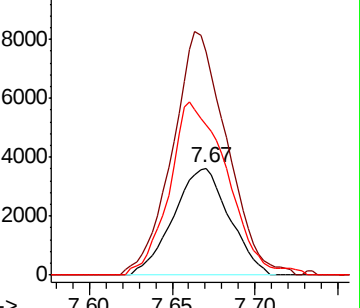
84 140.8 69.4 104.0#

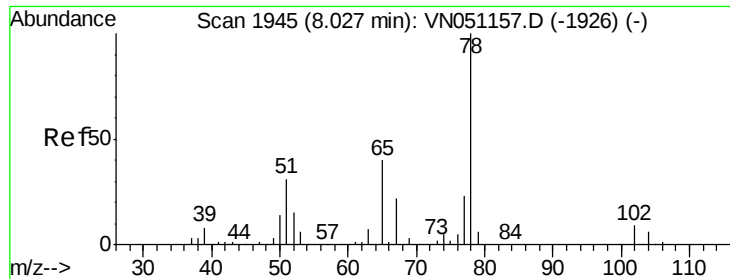


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

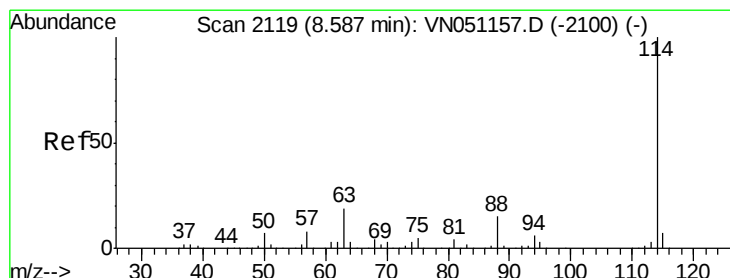
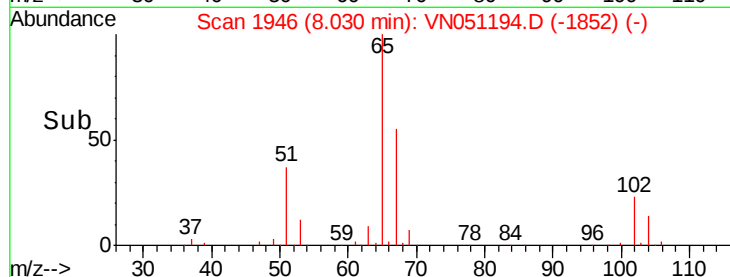
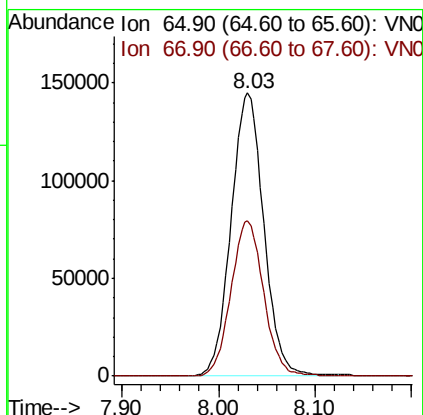
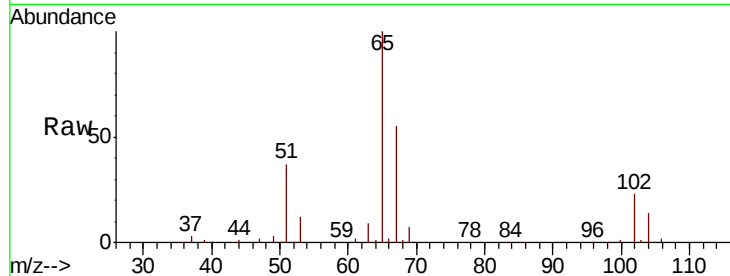




#33
 1,2-Dichloroethane-d4
 Concen: 55.40 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051194.D
 Acq: 14 Sep 2018 16:50

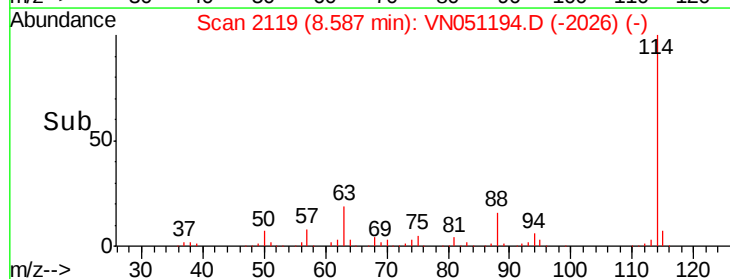
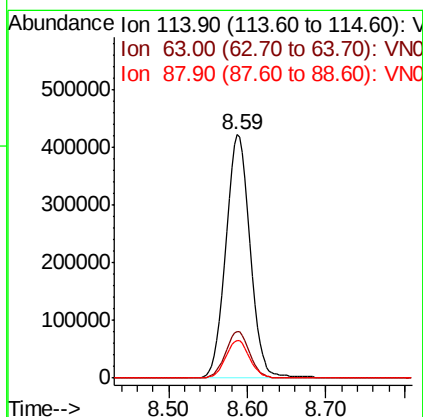
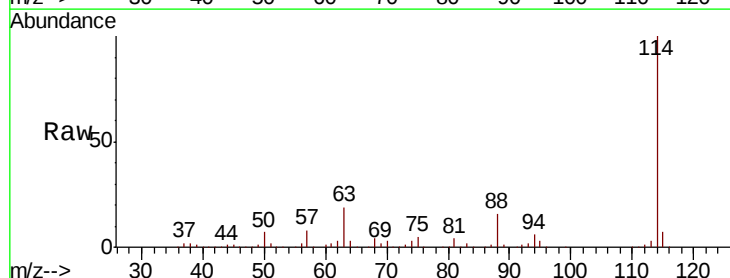
Instrument :
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 ClientSampleId :
 PB112829ZHE#04

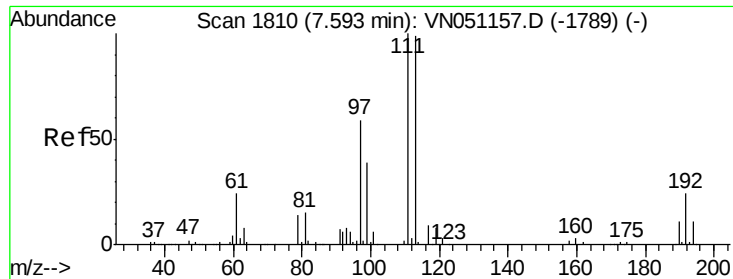
Tot Ion: 65 Resp: 340323
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051194.D
 Acq: 14 Sep 2018 16:50

Tgt Ion: 114 Resp: 898429
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 37.8
 88 15.5 0.0 30.8

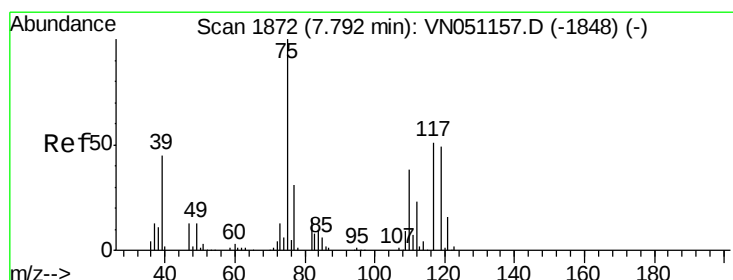
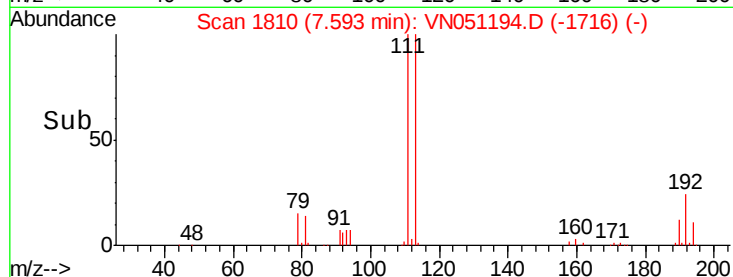
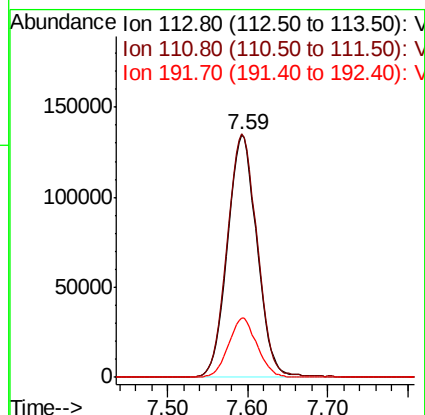
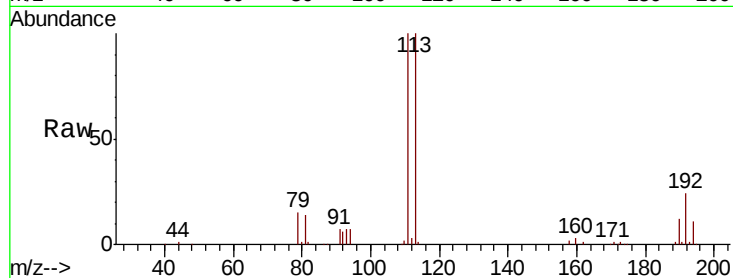




#35
 Dibromofluoromethane
 Concen: 50.08 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051194.D
 Acq: 14 Sep 2018 16:50

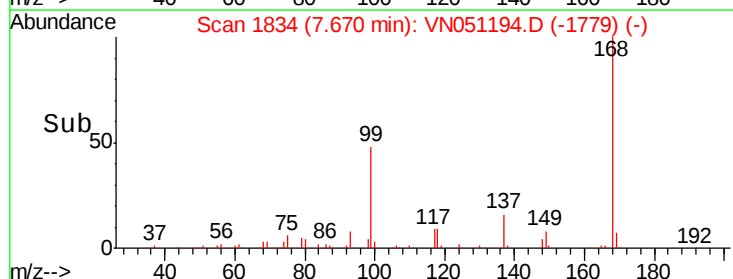
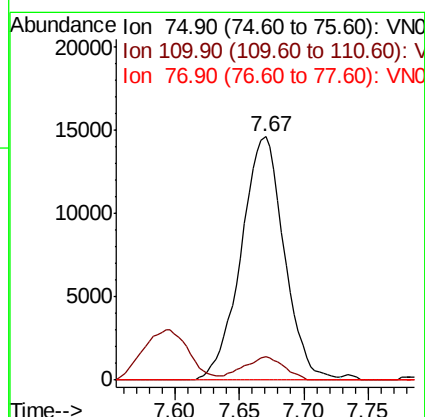
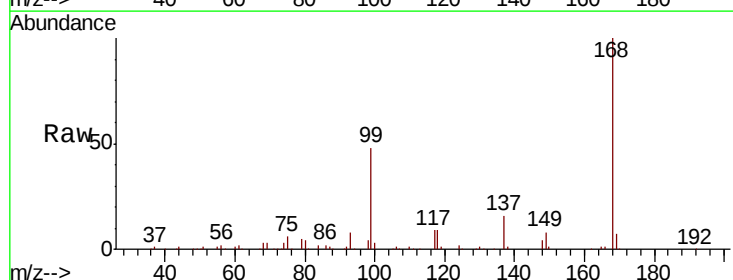
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#04

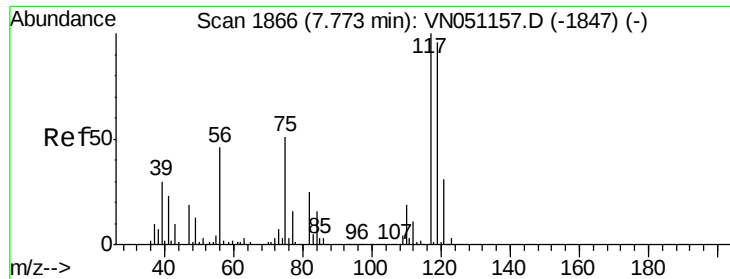
Tot Ion:113 Resp: 338101
 Ion Ratio Lower Upper
 113 100
 111 102.0 83.0 124.6
 192 23.7 18.7 28.1



#36
 1,1-Dichloropropene
 Concen: 3.45 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051194.D
 Acq: 14 Sep 2018 16:50

Tgt Ion: 75 Resp: 34035
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.6 55.8#
 77 0.0 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 4.99 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#04

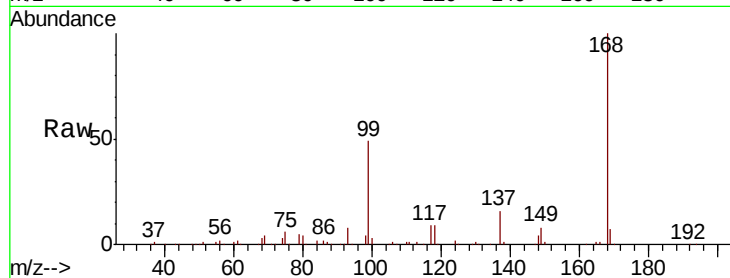
Tot Ion:117 Resp: 48433

Ion Ratio Lower Upper

117 100

119 5.5 76.8 115.2#

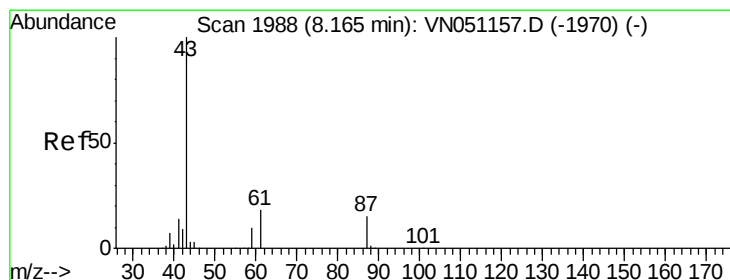
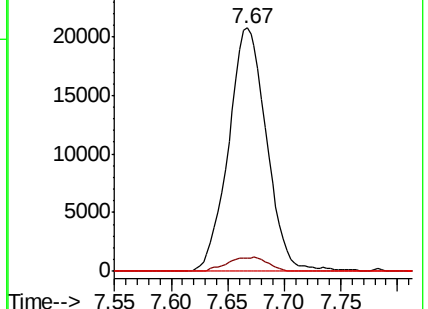
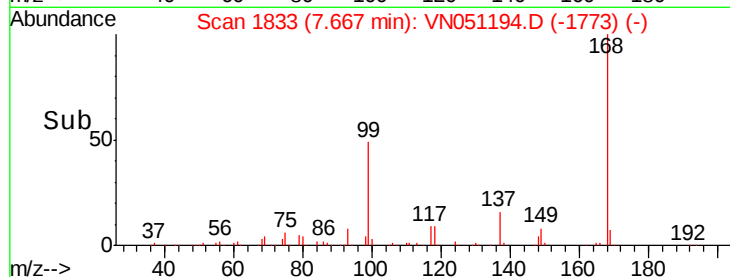
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 27.75 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

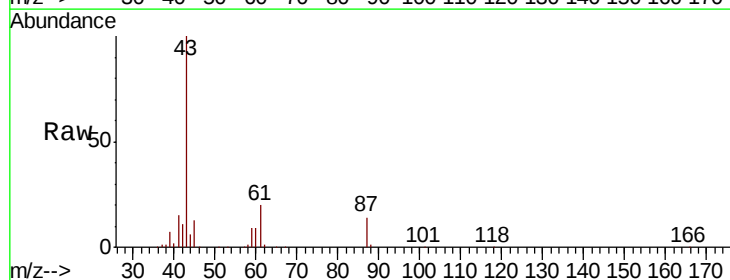
Tgt Ion: 43 Resp: 279676

Ion Ratio Lower Upper

43 100

61 17.8 25.0 37.6#

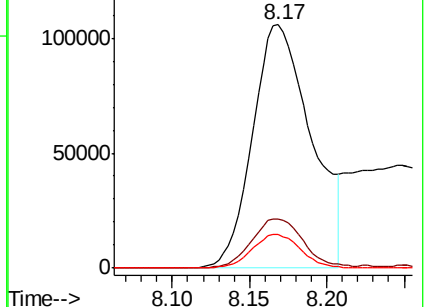
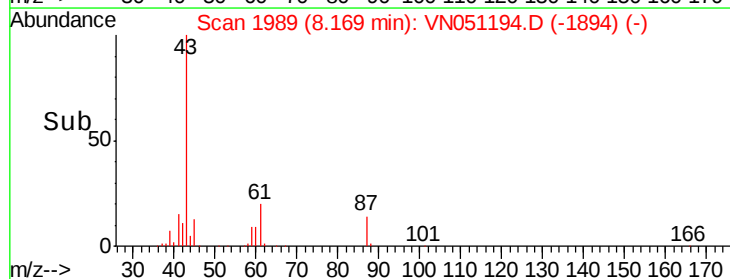
87 11.6 11.8 17.8#

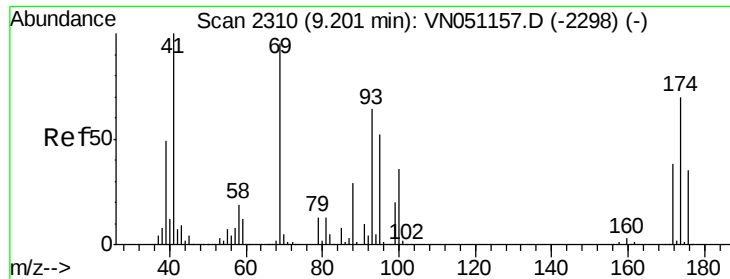


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

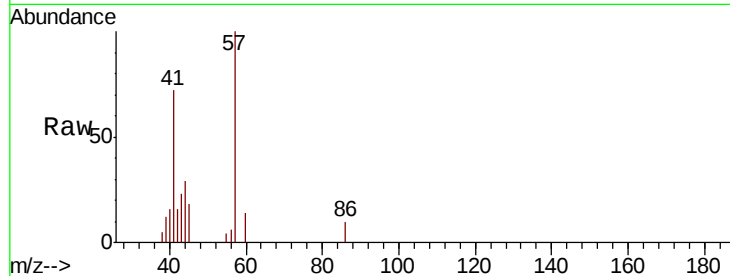




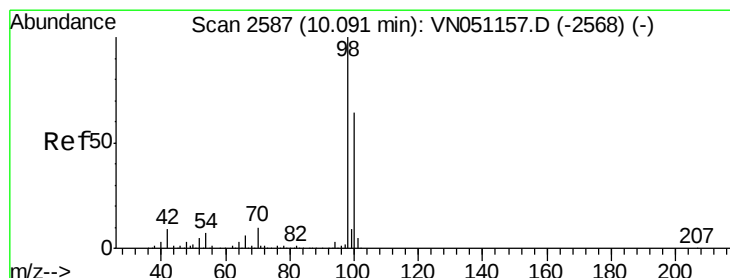
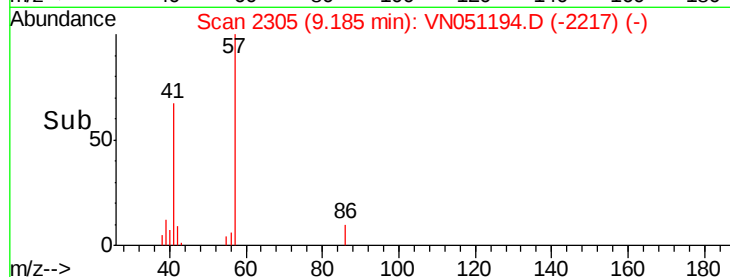
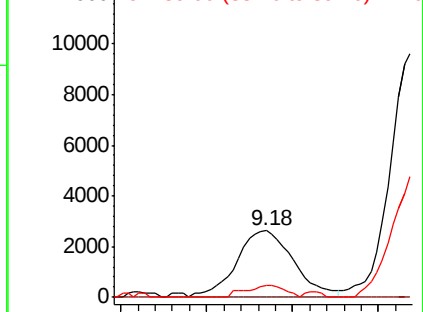
#48
Methvl methacrylate
Concen: 1.24 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051194.D
Acq: 14 Sep 2018 16:50

Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#04

Tot Ion: 41 Resp: 6111
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 12.0 41.6 62.4#

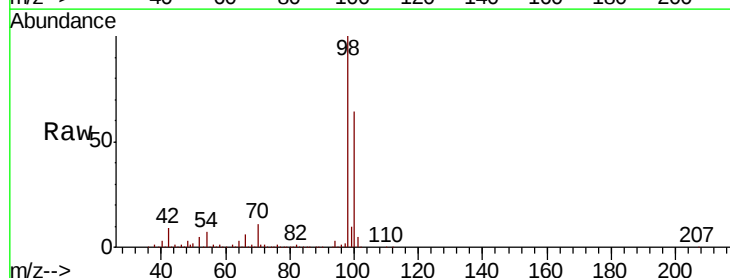


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

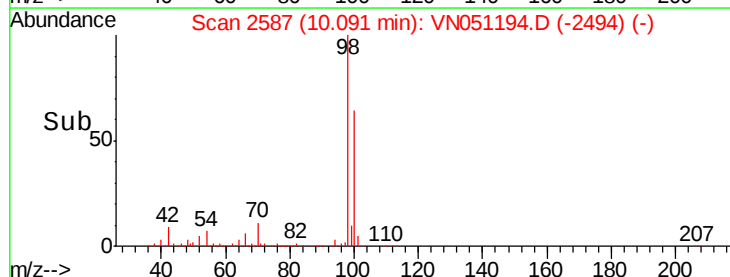
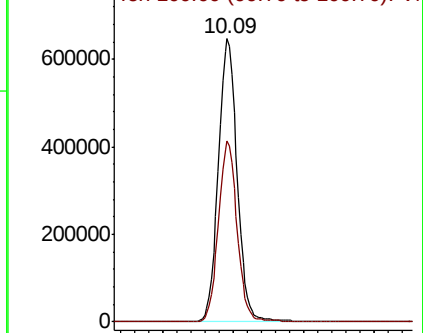


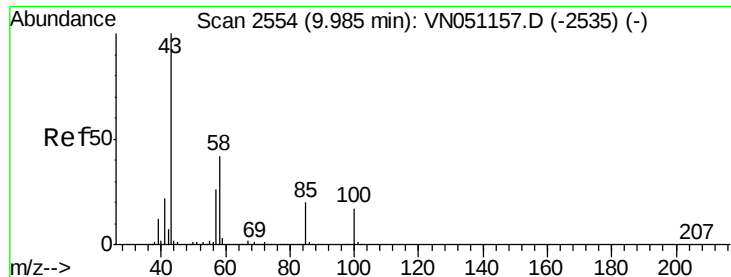
#50
Toluene-d8
Concen: 46.98 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051194.D
Acq: 14 Sep 2018 16:50

Tgt Ion: 98 Resp: 1203610
Ion Ratio Lower Upper
98 100
100 63.5 52.0 78.0



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: 0.39 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

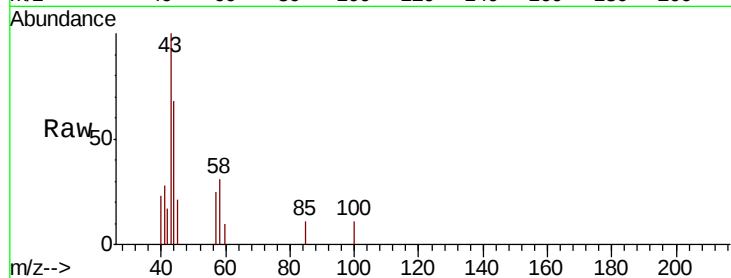
PB112829ZHE#04

Tot Ion: 43 Resp: 2200

Ion Ratio Lower Upper

43 100

58 45.8 33.5 50.3



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2535) (-)

9.99

1500

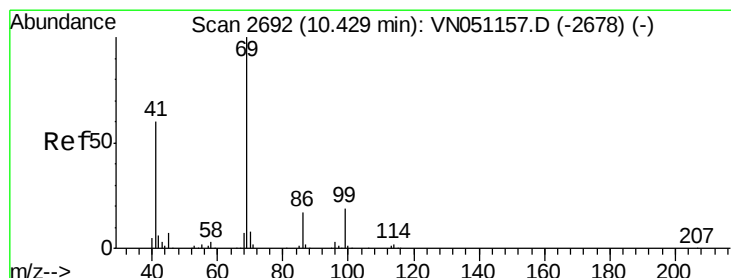
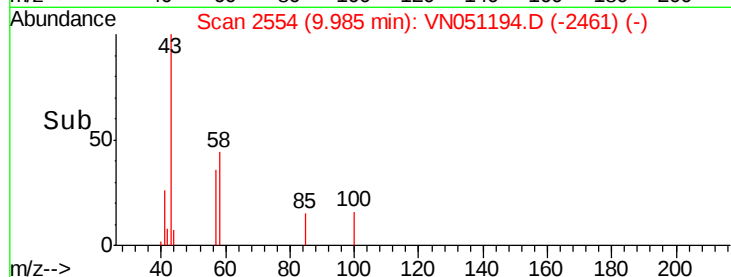
1000

500

0

9.95 10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.62 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

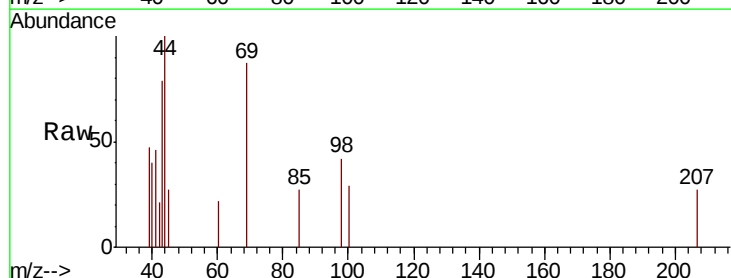
Tgt Ion: 69 Resp: 1568

Ion Ratio Lower Upper

69 100

41 20.0 47.8 71.8#

39 53.9 23.0 34.4#



Abundance Ion 69.00 (68.70 to 69.70): VN051157.D (-2678) (-)

Ion 41.00 (40.70 to 41.70): VN051157.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2678) (-)

1000

800

600

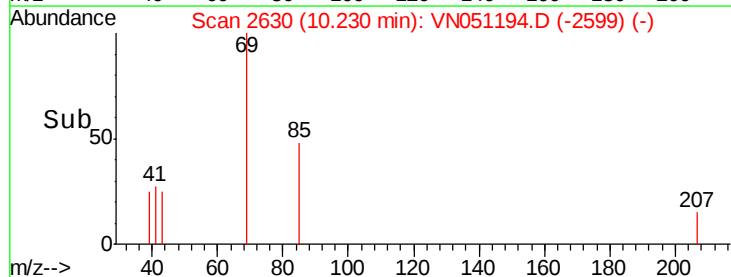
400

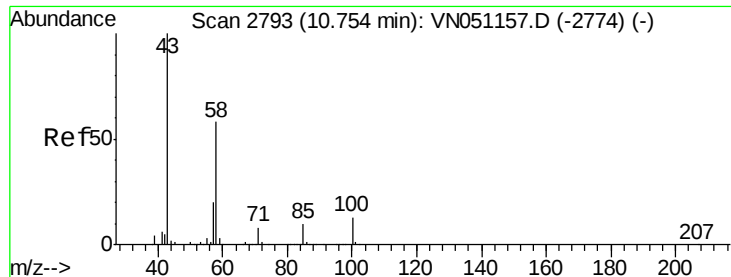
200

0

10.20 10.25

Time-->

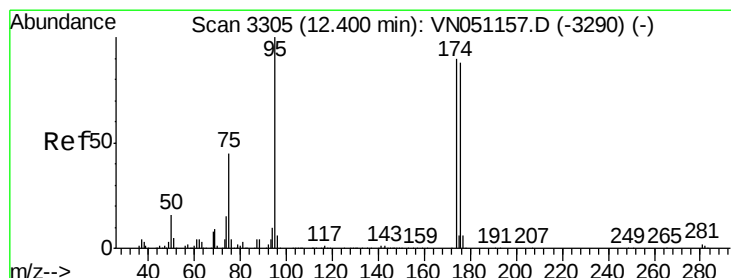
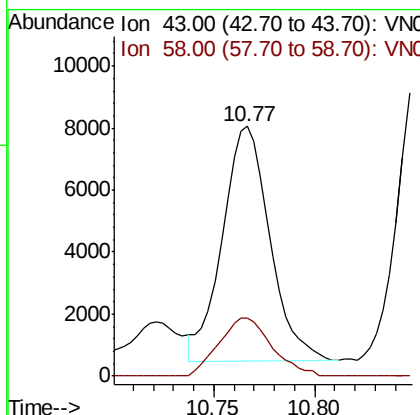
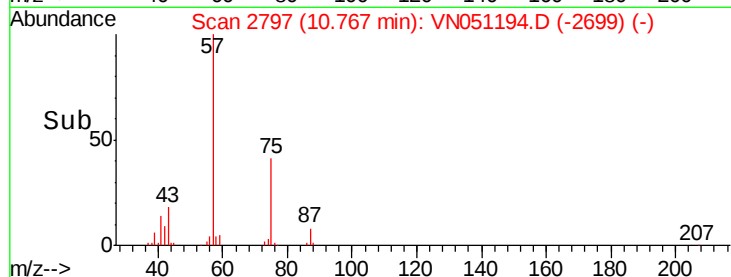
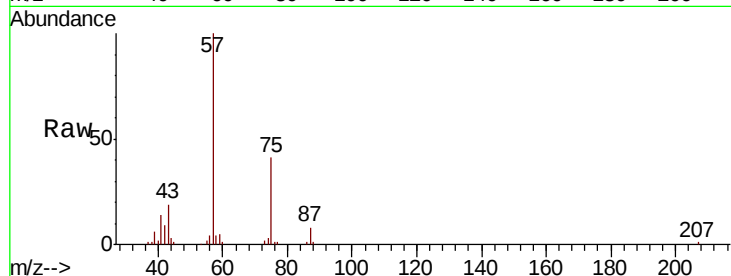




#59
2-Hexanone
Concen: 3.30 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051194.D
Acq: 14 Sep 2018 16:50

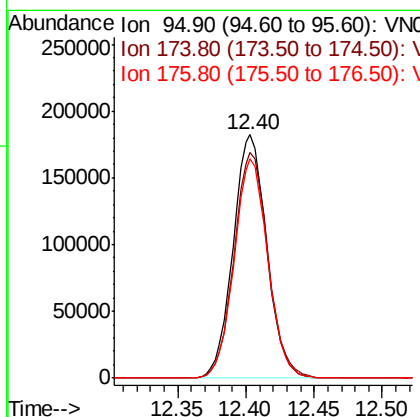
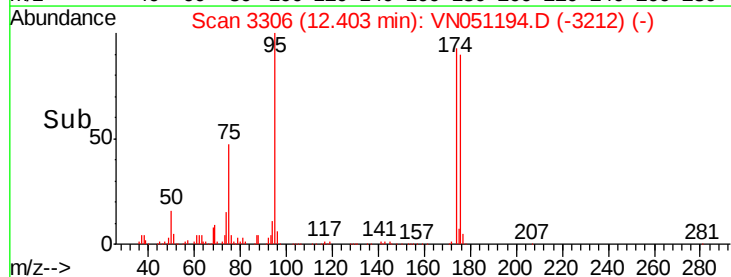
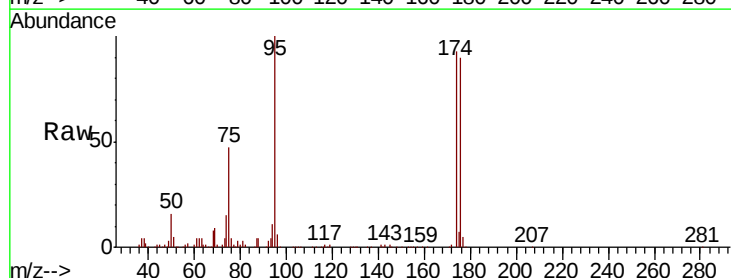
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#04

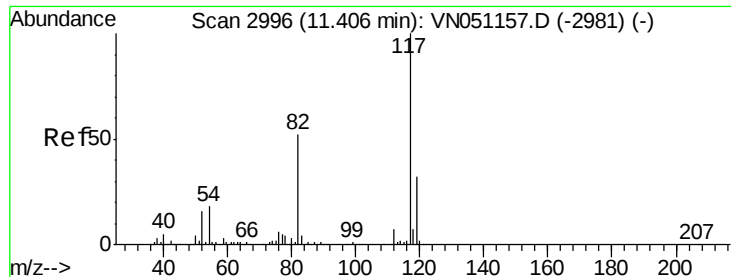
Tot Ion: 43 Resp: 12457
Ion Ratio Lower Upper
43 100
58 27.6 29.3 88.0#



#62
4-Bromofluorobenzene
Concen: 36.76 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051194.D
Acq: 14 Sep 2018 16:50

Tgt Ion: 95 Resp: 311517
Ion Ratio Lower Upper
95 100
174 93.9 0.0 184.8
176 90.2 0.0 178.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#04

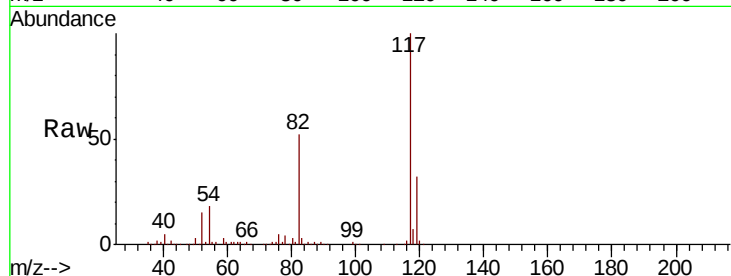
Tot Ion:117 Resp: 754281

Ion Ratio Lower Upper

117 100

82 52.5 41.8 62.6

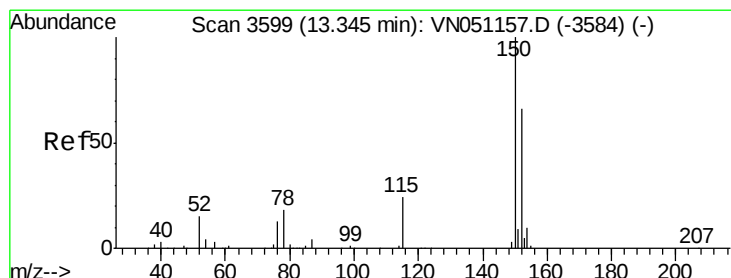
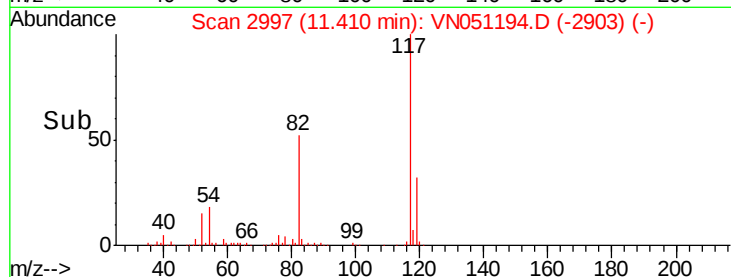
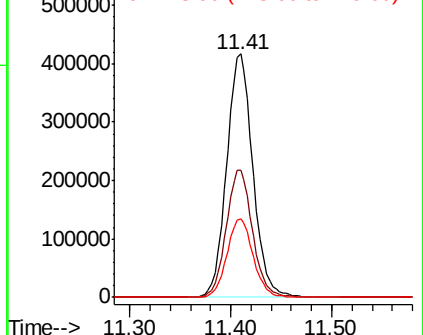
119 32.4 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

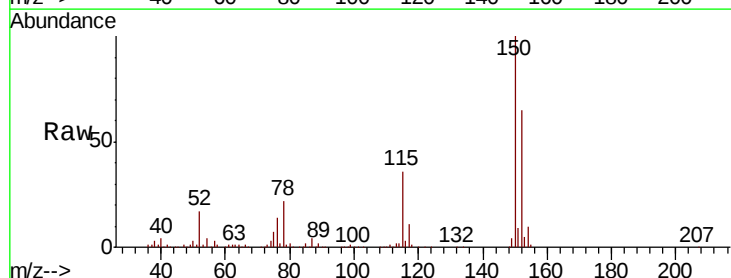
Tgt Ion:152 Resp: 232970

Ion Ratio Lower Upper

152 100

115 55.2 28.2 84.7

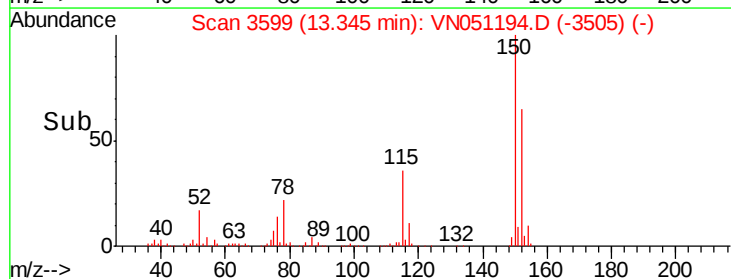
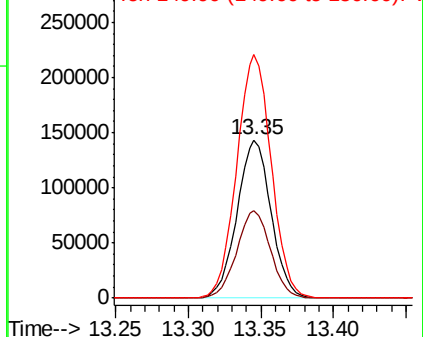
150 156.3 0.0 349.0

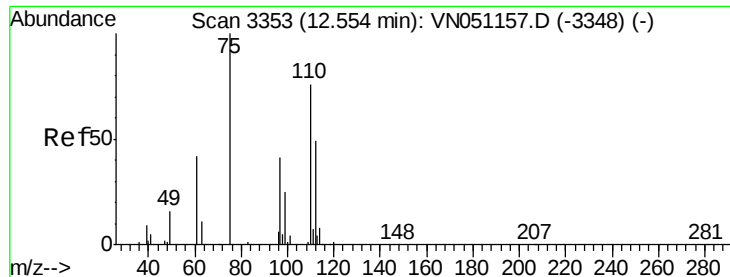


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.80 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

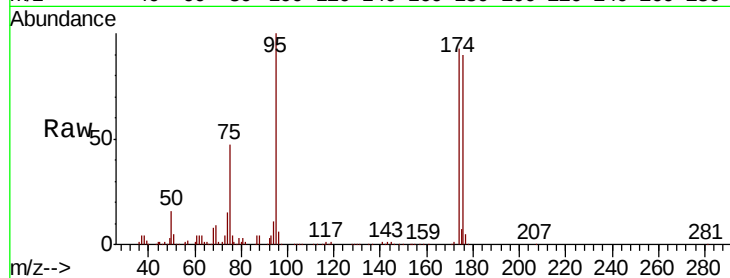
PB112829ZHE#04

Tot Ion: 75 Resp: 144864

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051157.D (-3348) (-)

12.40

80000

60000

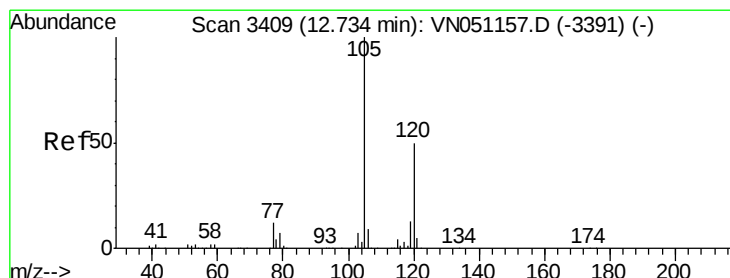
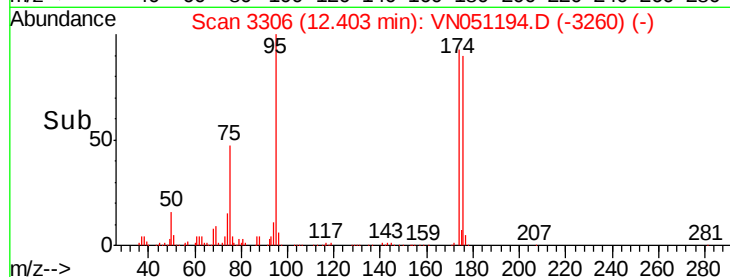
40000

20000

0

12.35 12.40 12.45 12.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.26 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051194.D

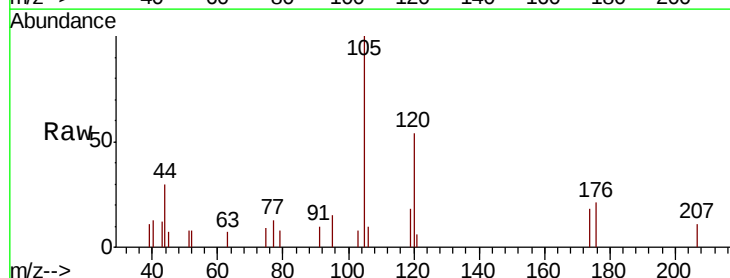
Acq: 14 Sep 2018 16:50

Tgt Ion: 105 Resp: 4114

Ion Ratio Lower Upper

105 100

120 49.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN051157.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN051157.D (-3391) (-)

12.73

2500

2000

1500

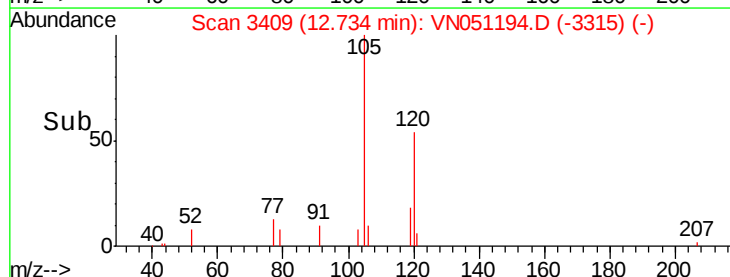
1000

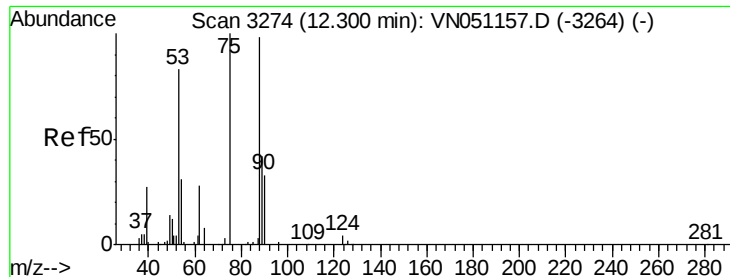
500

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 118.09 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#04

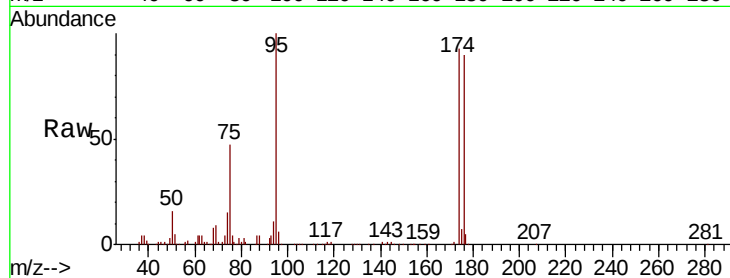
Tot Ion: 75 Resp: 144864

Ion Ratio Lower Upper

75 100

53 0.2 67.8 101.8#

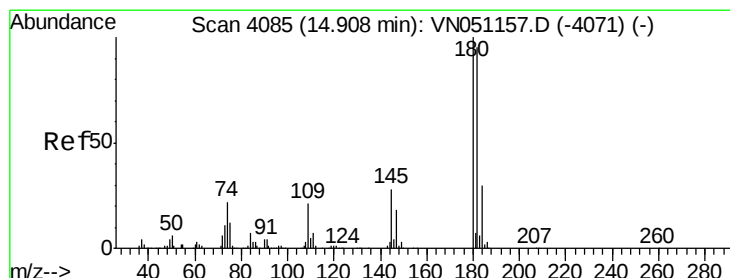
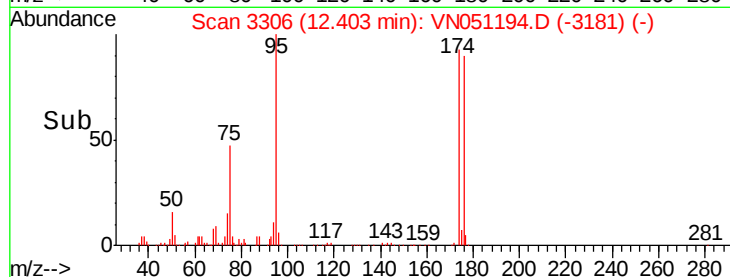
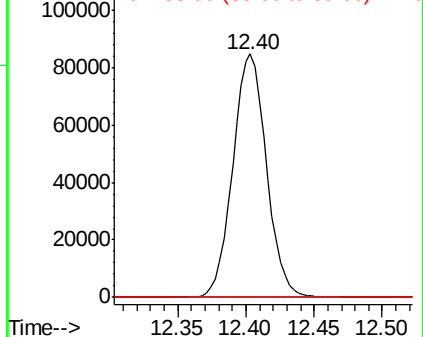
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN051157.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN051157.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.99 ug/l

RT: 14.90 min Scan# 4083

Delta R.T. -0.01 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

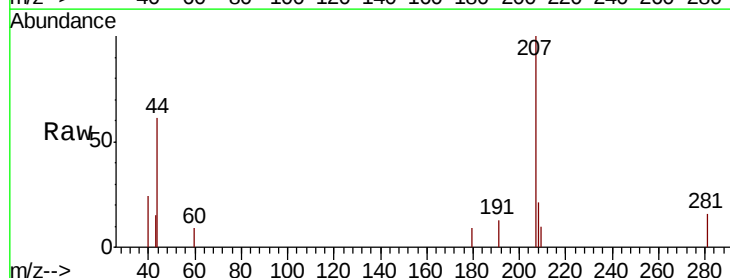
Tgt Ion: 180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.8#

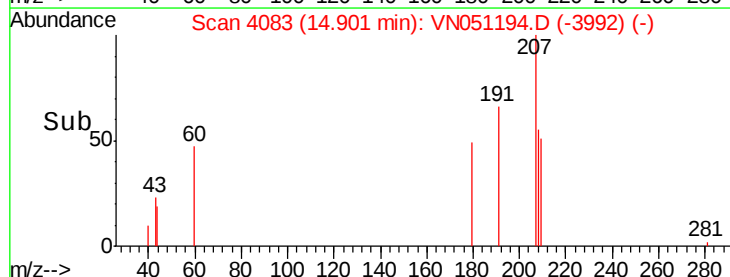
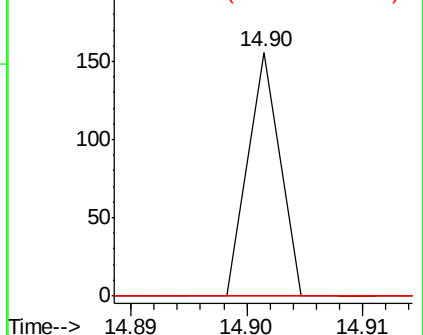
145 0.0 14.2 42.6#

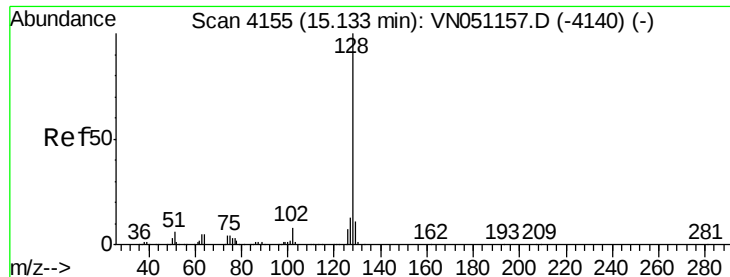


Abundance Ion 179.80 (179.50 to 180.50): VN051157.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN051157.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN051157.D (-4071) (-)





#95

Naphthalene

Concen: 5.37 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#04

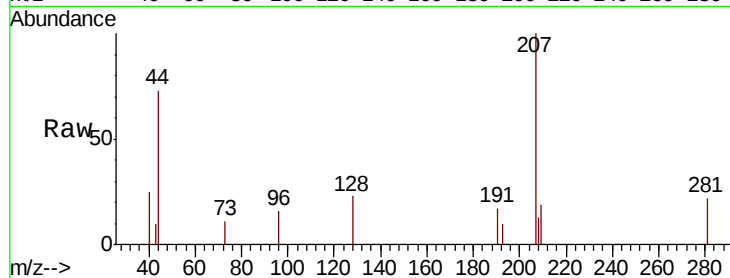
Tot Ion:128 Resp: 316

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

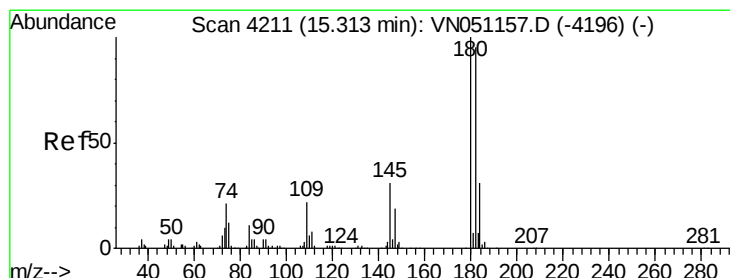
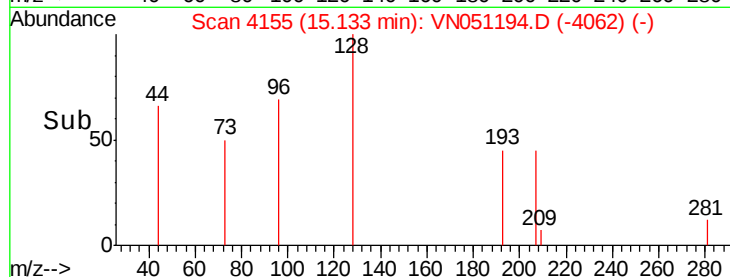
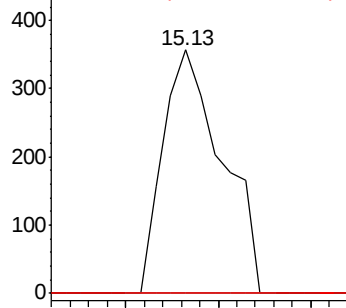
129 0.0 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.96 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN051194.D

Acq: 14 Sep 2018 16:50

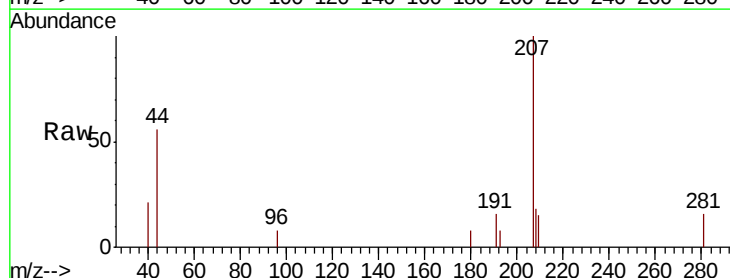
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

145 0.0 14.6 43.8#



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

