

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050269.D
 Acq On : 2 Aug 2018 17:24
 Operator : MD\SY
 Sample : PB111674ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#07

Quant Time: Aug 03 01:15:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	638526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1085883	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	912519	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	335618	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	464795	52.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.34%	
35) Dibromofluoromethane	7.60	113	413184	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	
50) Toluene-d8	10.09	98	1451844	44.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.08%	
62) 4-Bromofluorobenzene	12.40	95	403415	37.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.18%	

Target Compounds

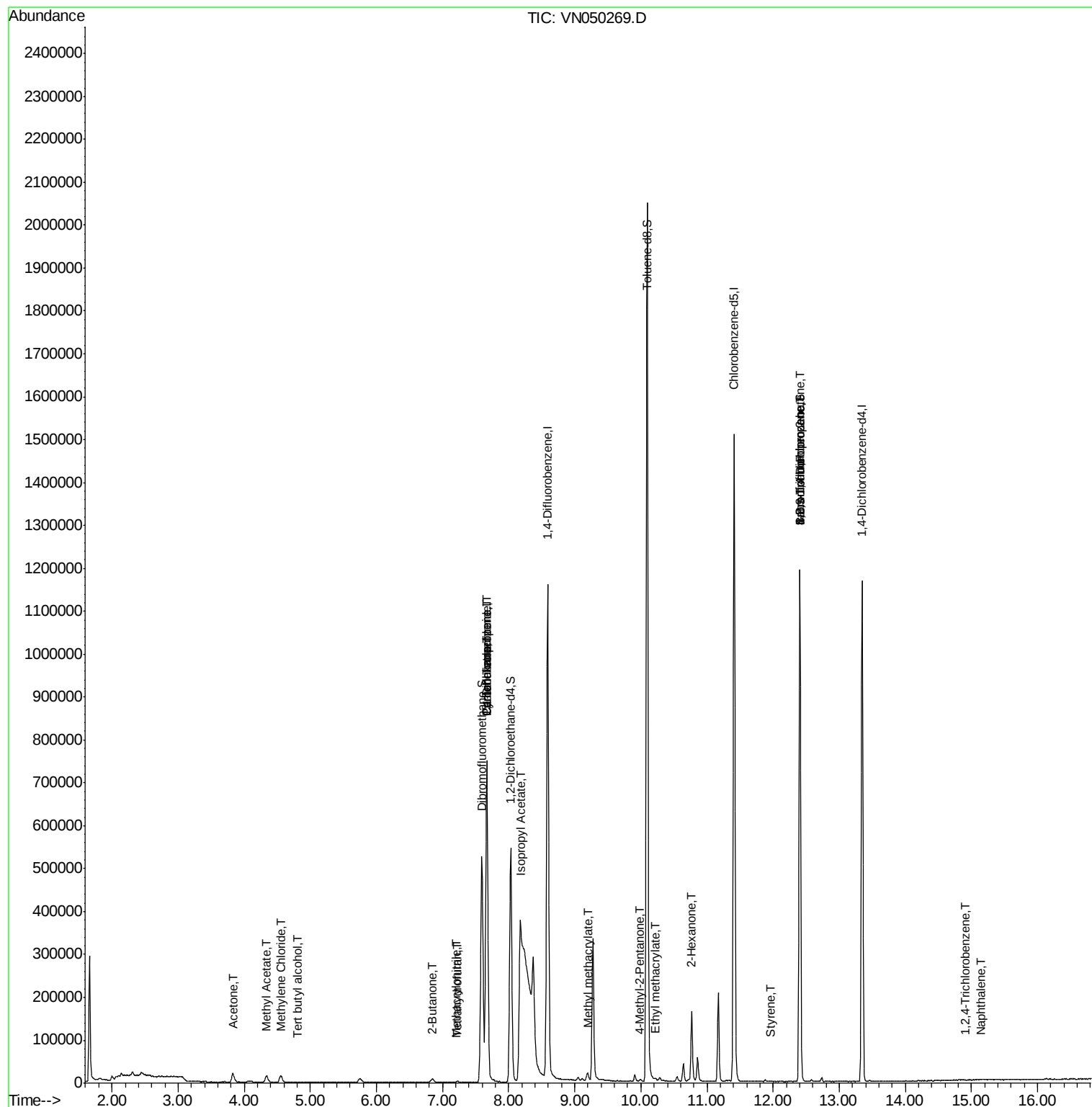
						Qvalue
5) Bromomethane	2.57	94	640	Below Cal		100
11) Tert butyl alcohol	4.81	59	352	0.54 ug/l	#	72
16) Acetone	3.83	43	35794	12.94 ug/l		98
18) Methyl Acetate	4.34	43	29140	2.01 ug/l		96
20) Methylene Chloride	4.55	84	11987	0.27 ug/l		96
25) 2-Butanone	6.85	43	5428	1.60 ug/l	#	84
29) Tetrahydrofuran	7.22	42	1646	0.75 ug/l	#	69
31) Cyclohexane	7.67	56	11598	0.88 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	44729	3.66 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	59343	4.57 ug/l	#	17
41) Methacrylonitrile	7.19	41	60	2.76 ug/l	#	1
43) Isopropyl Acetate	8.17	43	590835	36.45 ug/l	#	82
48) Methyl methacrylate	9.19	41	9958	1.36 ug/l	#	22
51) 4-Methyl-2-Pentanone	9.99	43	3815	0.45 ug/l		91
56) Ethyl methacrylate	10.23	69	3206	2.29 ug/l		88
59) 2-Hexanone	10.77	43	22236	8.71 ug/l	#	60
70) Styrene	11.97	104	169	0.93 ug/l	#	38
71) Bromoform	12.41	173	3964	0.62 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	289	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	193793	31.07 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	193793	98.55 ug/l	#	13
93) 1,2,4-Trichlorobenzene	14.91	180	30	3.09 ug/l	#	13
95) Naphthalene	15.14	128	1113	4.48 ug/l	#	69

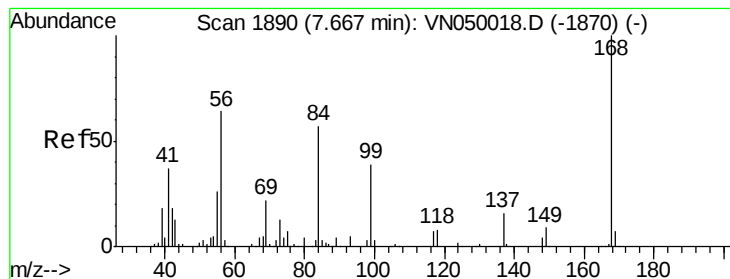
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 26 18:10:10 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

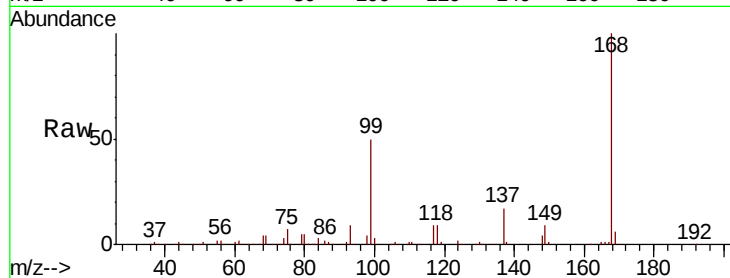
PB111674ZHE#07

Tot Ion:168 Resp: 638526

Ion Ratio Lower Upper

168 100

99 49.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

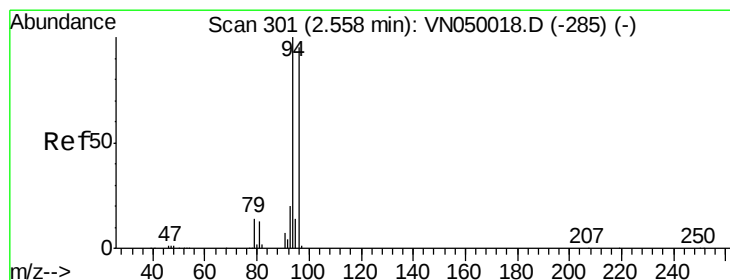
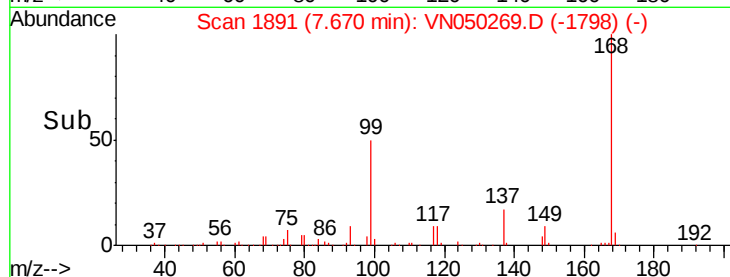
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.02 min

Lab File: VN050269.D

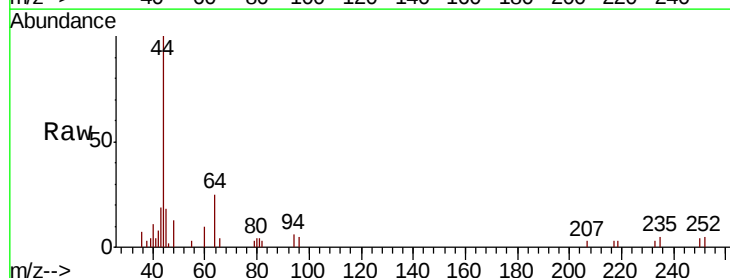
Acq: 2 Aug 2018 17:24

Tgt Ion: 94 Resp: 640

Ion Ratio Lower Upper

94 100

96 93.1 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

400

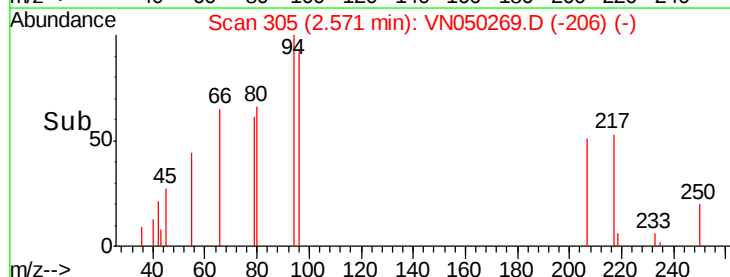
300

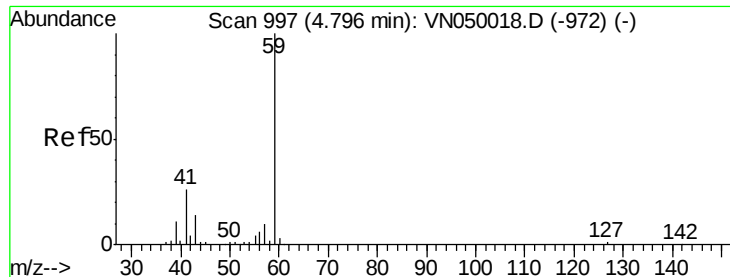
200

100

0

Time-->

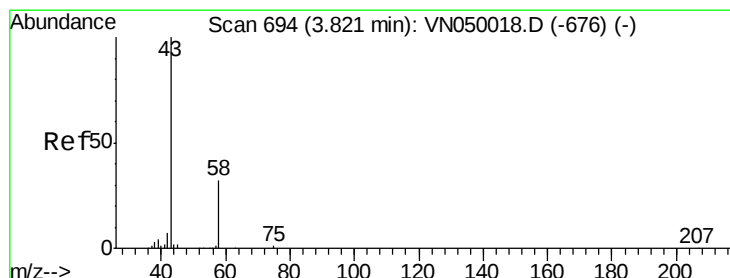
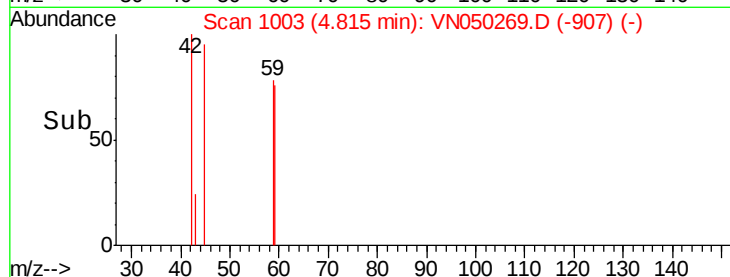
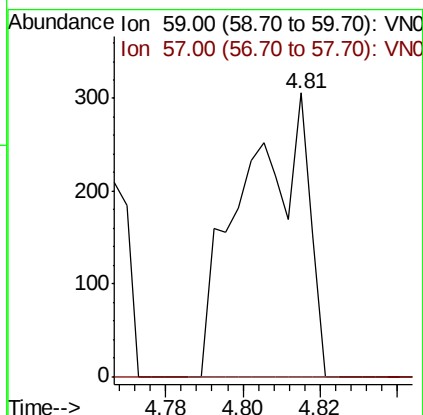
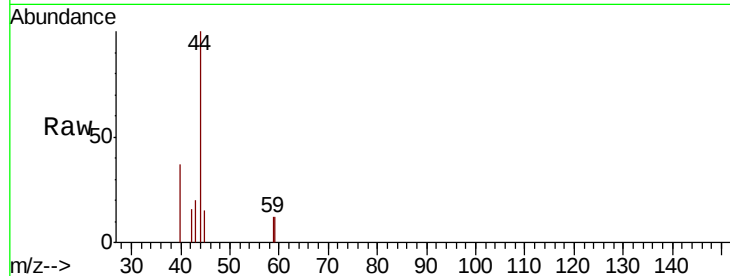




#11
Tert butyl alcohol
Concen: 0.54 ug/l
RT: 4.81 min Scan# 1003
Delta R.T. 0.01 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

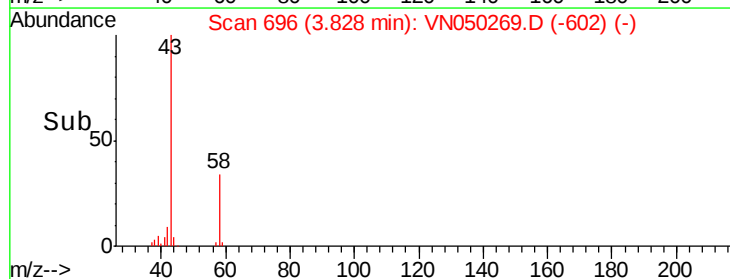
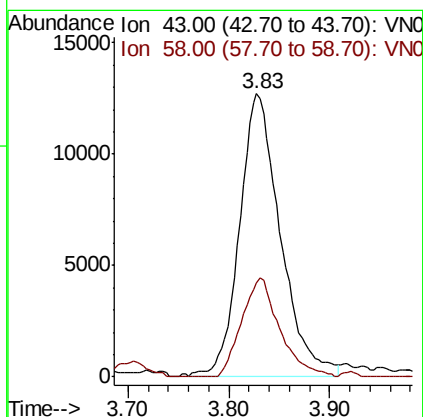
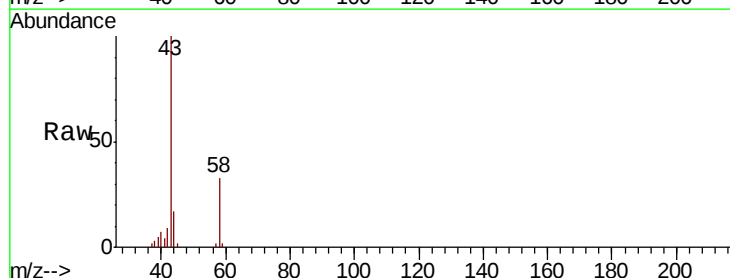
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#07

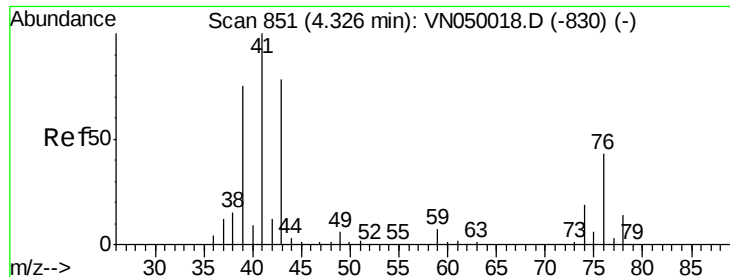
Tot Ion: 59 Resp: 352
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 12.94 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Tgt Ion: 43 Resp: 35794
Ion Ratio Lower Upper
43 100
58 33.3 25.8 38.8

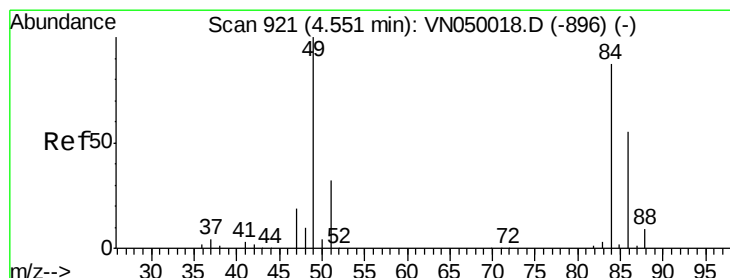
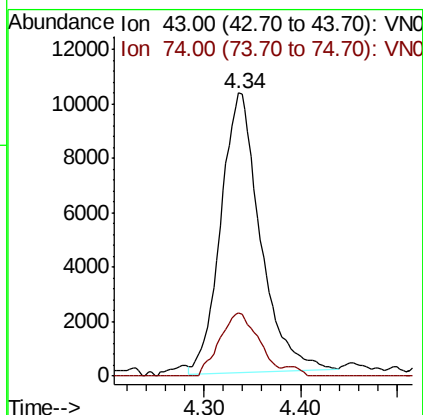
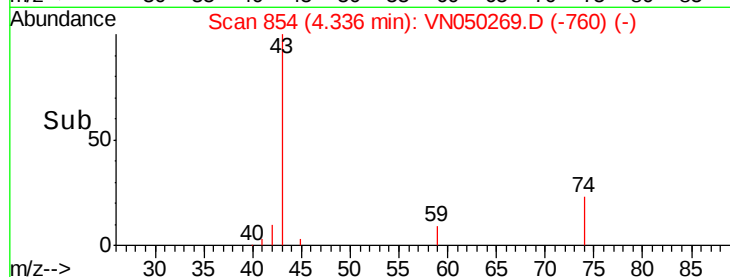
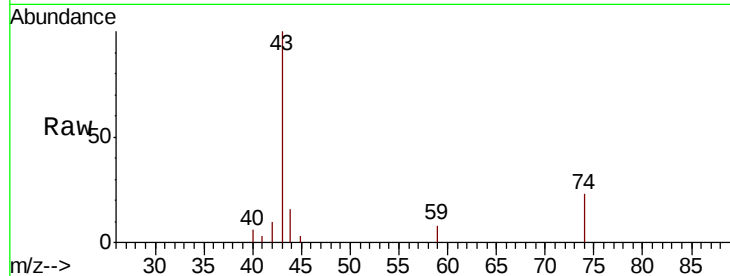




#18
Methyl Acetate
Concen: 2.01 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

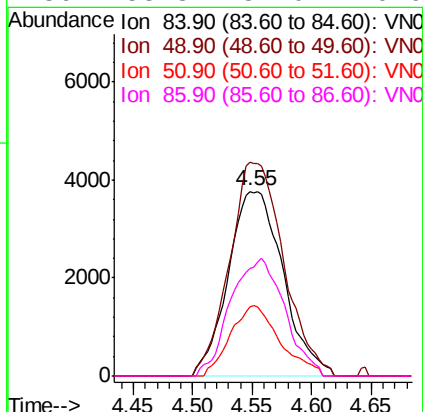
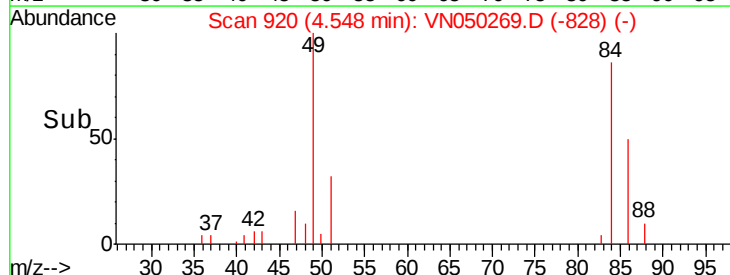
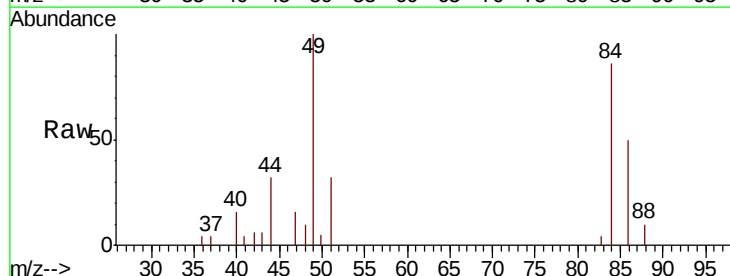
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#07

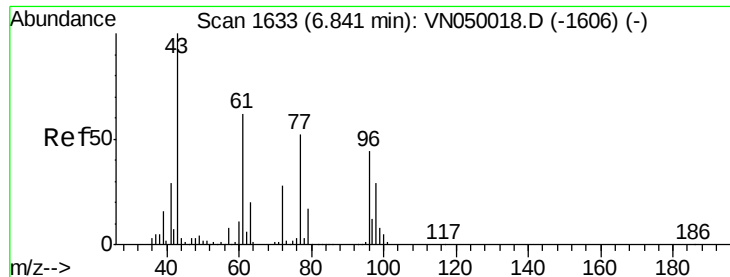
Tot Ion: 43 Resp: 29140
Ion Ratio Lower Upper
43 100
74 22.2 19.2 28.8



#20
Methylene Chloride
Concen: 0.27 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Tgt Ion: 84 Resp: 11987
Ion Ratio Lower Upper
84 100
49 115.7 94.8 142.2
51 37.4 28.3 42.5
86 58.3 51.0 76.6

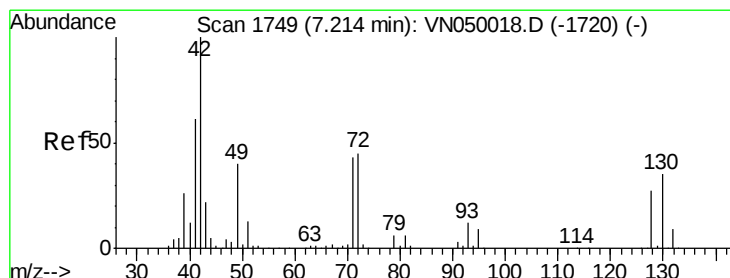
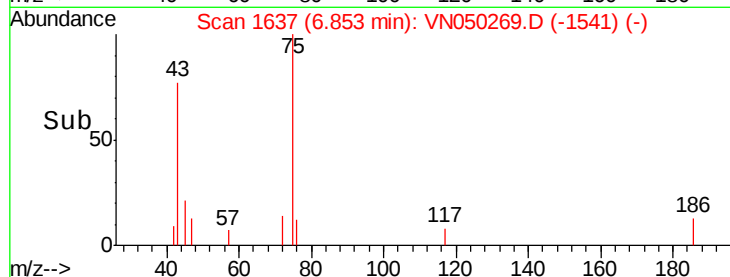
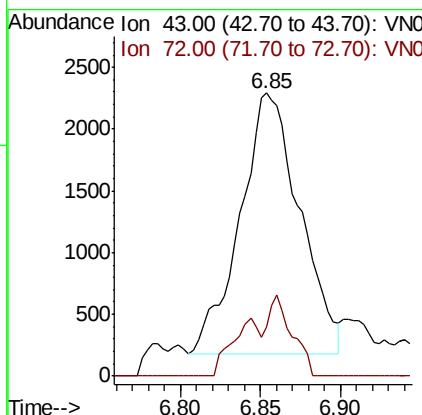
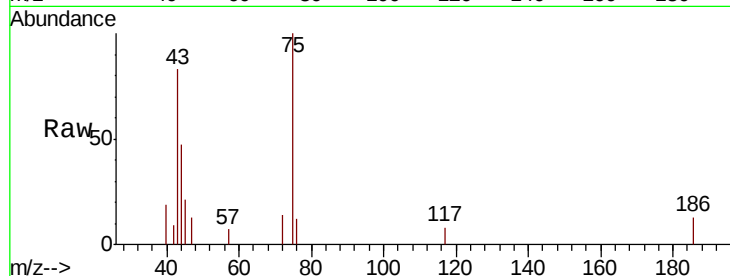




#25
 2-Butanone
 Concen: 1.60 ug/l
 RT: 6.85 min Scan# 1637
 Delta R.T. 0.01 min
 Lab File: VN050269.D
 Acq: 2 Aug 2018 17:24

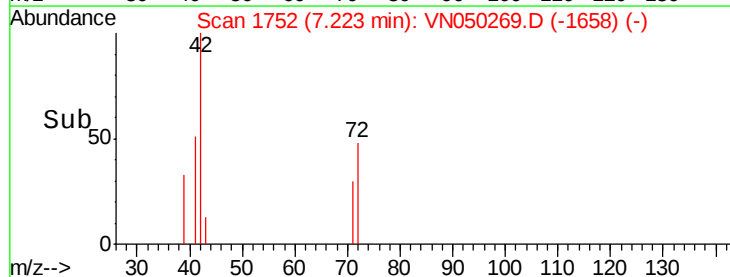
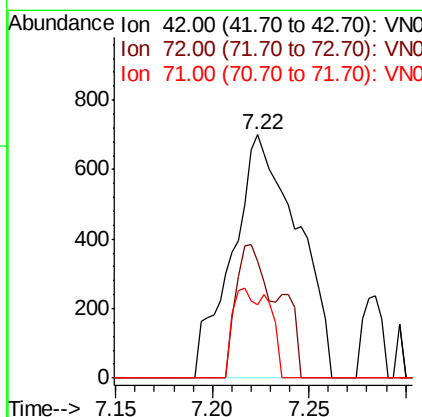
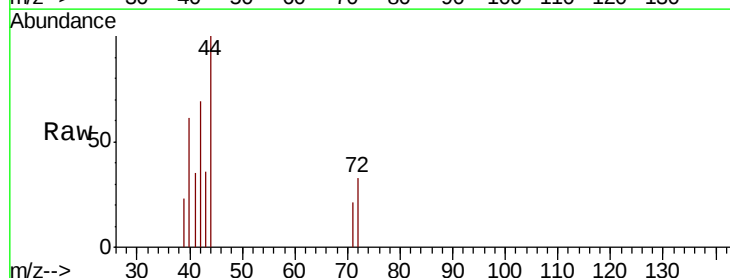
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#07

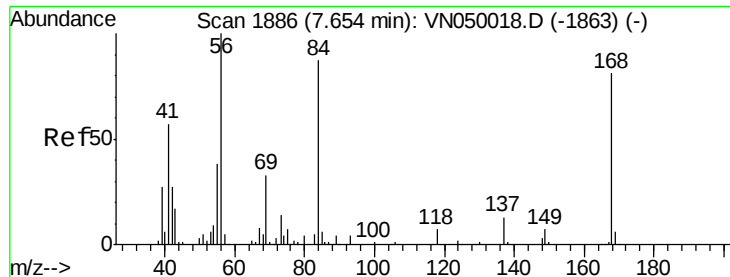
Tot Ion: 43 Resp: 5428
 Ion Ratio Lower Upper
 43 100
 72 18.8 21.5 32.3#



#29
 Tetrahydrofuran
 Concen: 0.75 ug/l
 RT: 7.22 min Scan# 1752
 Delta R.T. 0.00 min
 Lab File: VN050269.D
 Acq: 2 Aug 2018 17:24

Tgt Ion: 42 Resp: 1646
 Ion Ratio Lower Upper
 42 100
 72 26.8 35.9 53.9#
 71 20.5 33.7 50.5#

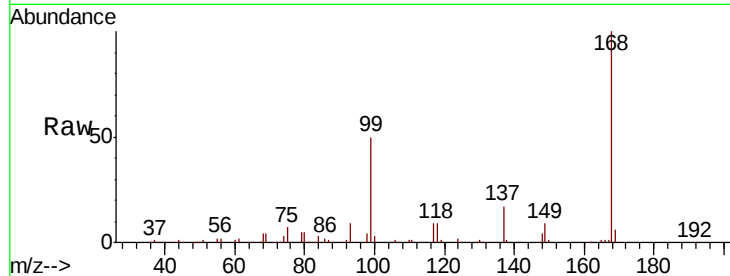




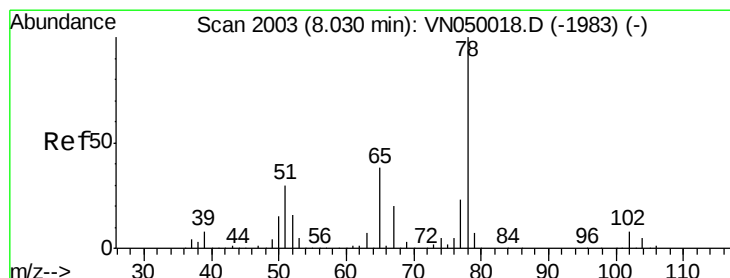
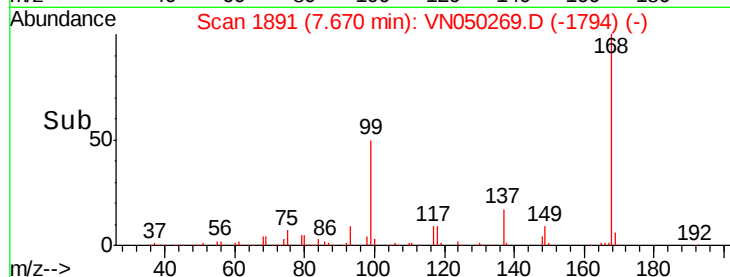
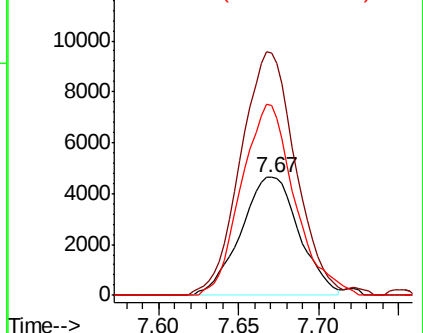
#31
Cyclohexane
Concen: 0.88 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#07

Tot Ion: 56 Resp: 11598
Ion Ratio Lower Upper
56 100
69 205.6 26.2 39.4#
84 160.4 67.4 101.0#

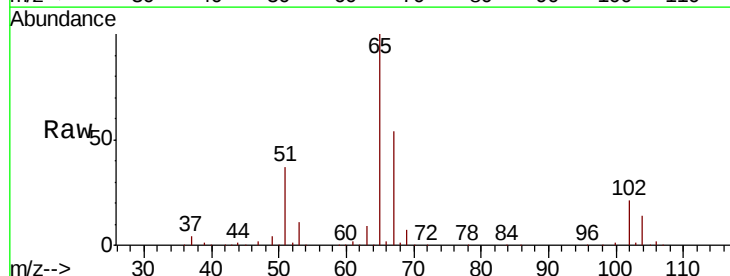


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

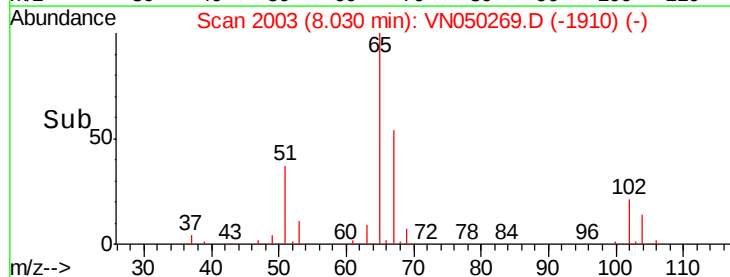
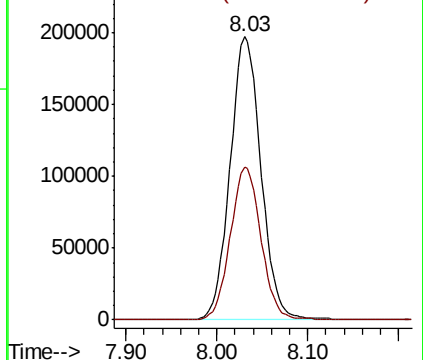


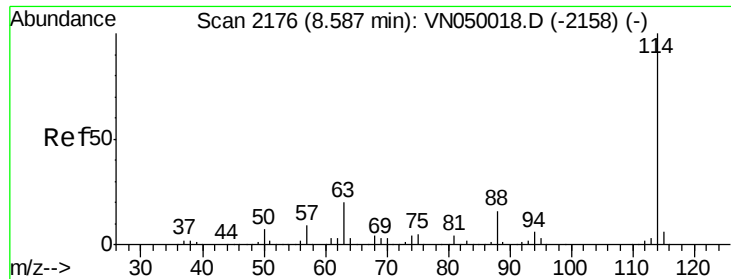
#33
1,2-Dichloroethane-d4
Concen: 52.17 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Tgt Ion: 65 Resp: 464795
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#07

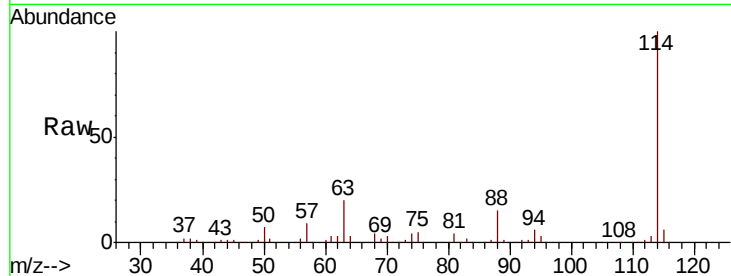
Tot Ion:114 Resp: 1085883

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

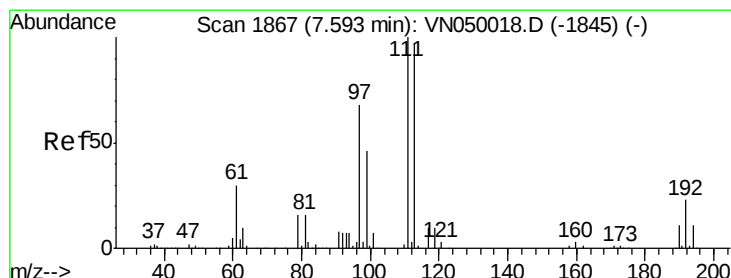
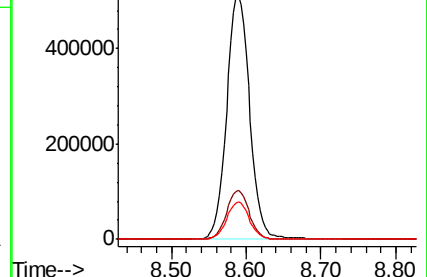
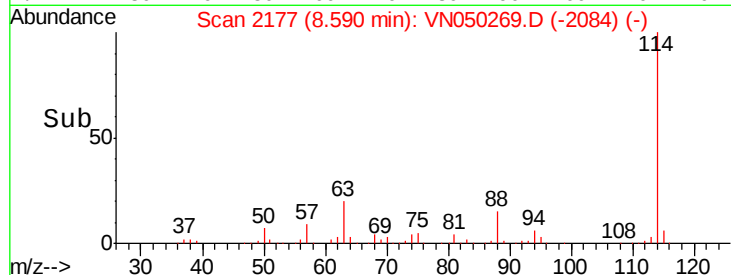
88 15.2 0.0 31.2



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: 46.60 ug/l

RT: 7.60 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

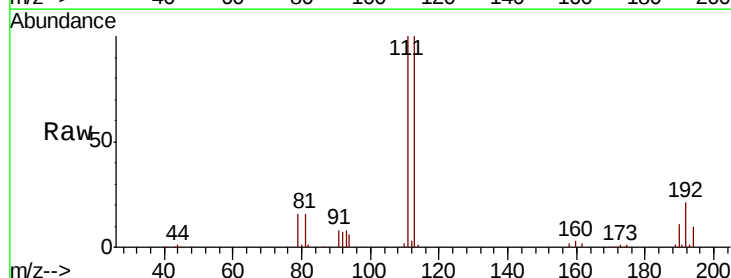
Tgt Ion:113 Resp: 413184

Ion Ratio Lower Upper

113 100

111 102.1 80.7 121.1

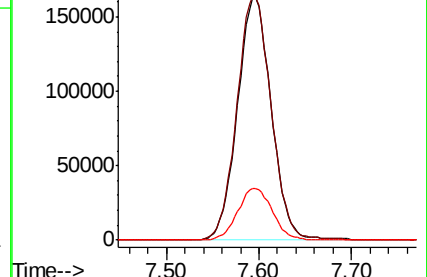
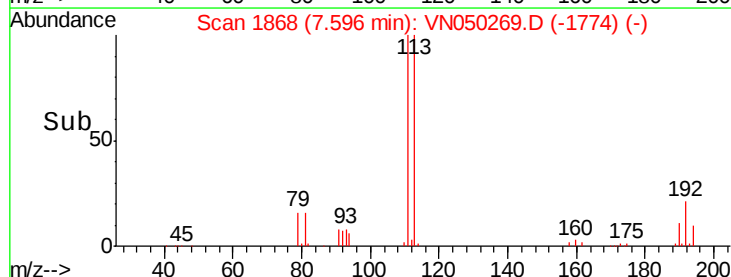
192 21.8 17.8 26.6

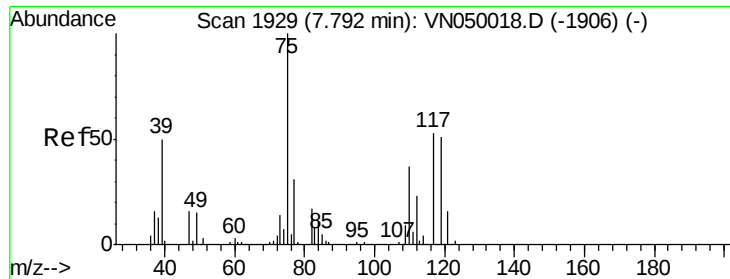


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

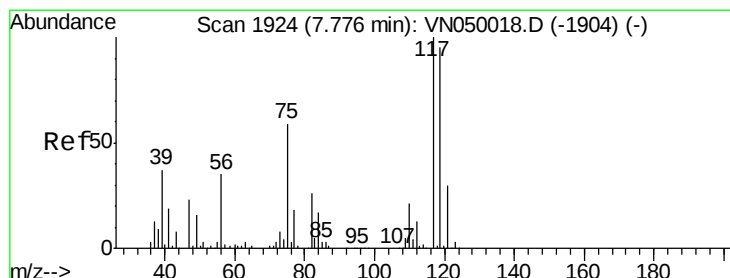
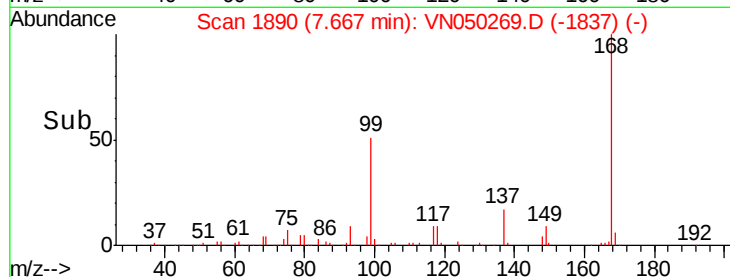
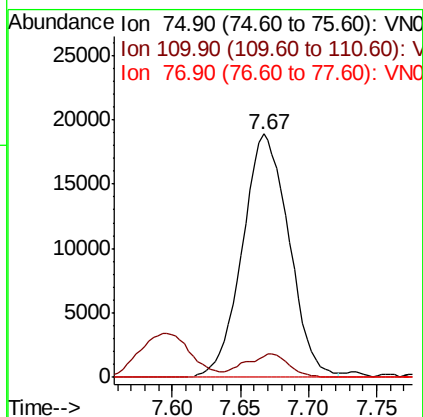
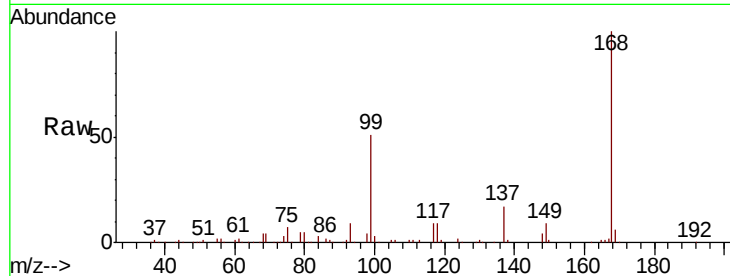




#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050269.D
 Acq: 2 Aug 2018 17:24

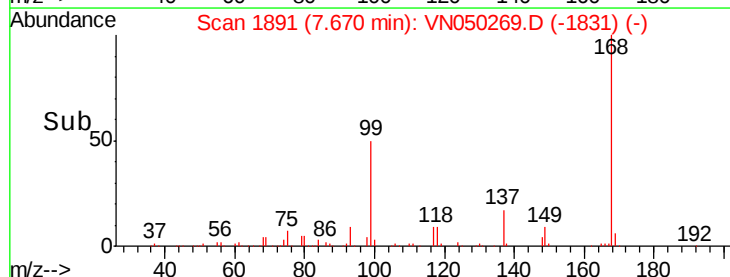
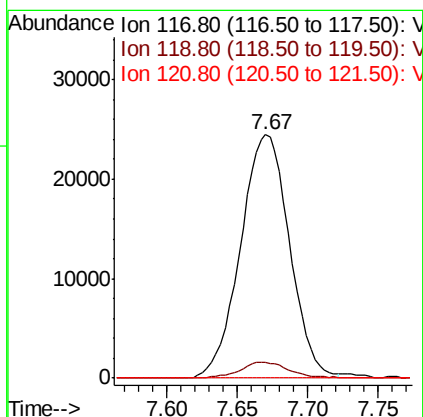
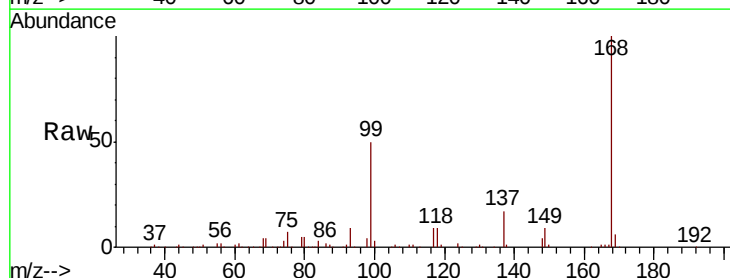
Instrument :
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 PB111674ZHE#07

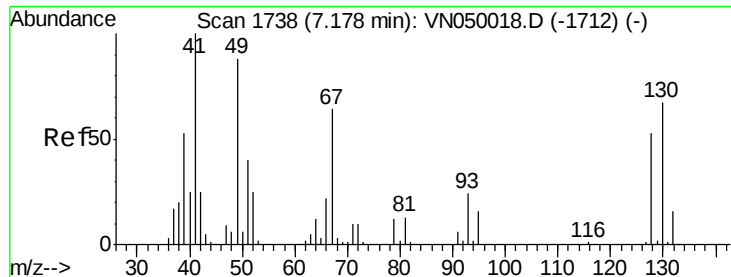
Tot Ion: 75 Resp: 44729
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.57 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050269.D
 Acq: 2 Aug 2018 17:24

Tgt Ion: 117 Resp: 59343
 Ion Ratio Lower Upper
 117 100
 119 6.4 77.4 116.0#
 121 0.0 23.9 35.9#

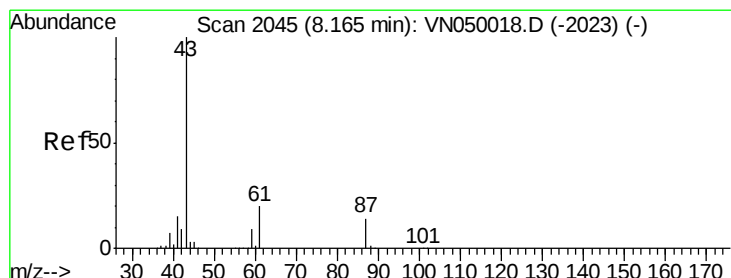
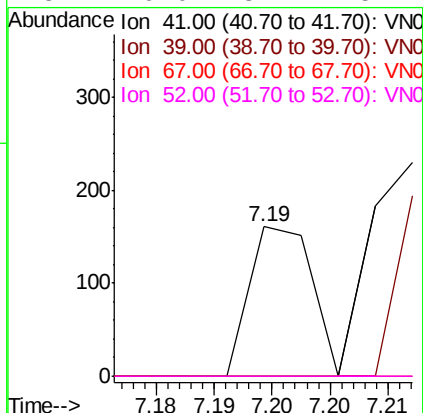
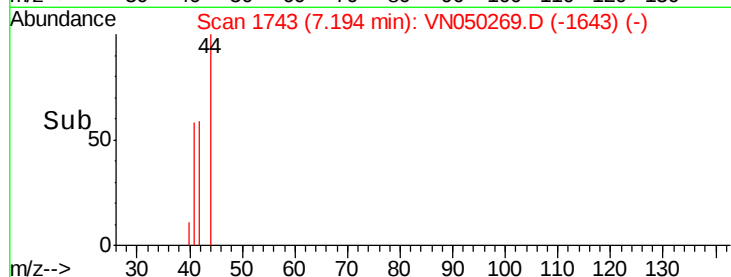
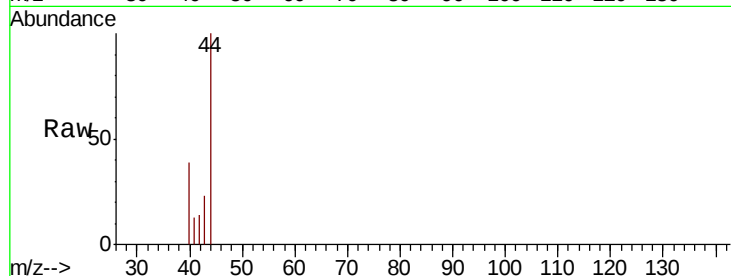




#41
Methacrylonitrile
Concen: 2.76 ug/l
RT: 7.19 min Scan# 1743
Delta R.T. 0.02 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

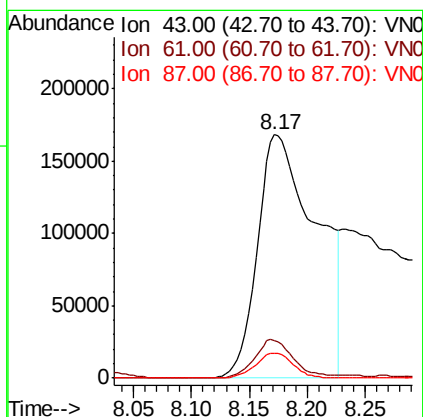
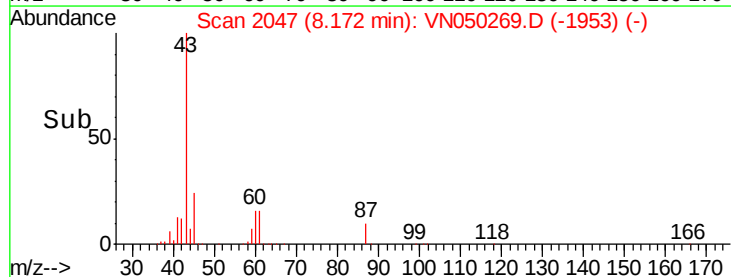
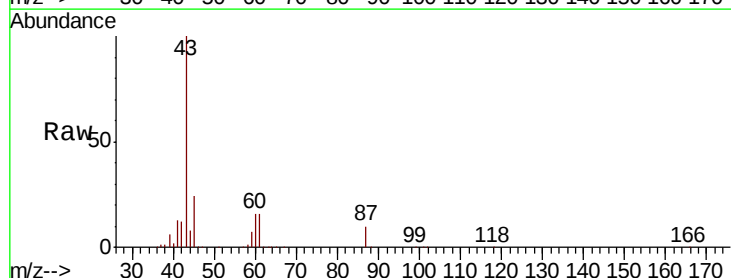
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#07

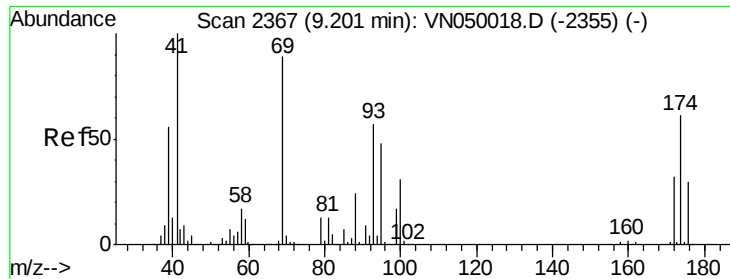
Tot Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
39 355.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 36.45 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Tgt Ion: 43 Resp: 590835
Ion Ratio Lower Upper
43 100
61 10.6 15.8 23.6#
87 6.5 10.3 15.5#





#48

Methvl methacrylate

Concen: 1.36 ug/l

RT: 9.19 min Scan# 2363

Delta R.T. -0.02 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#07

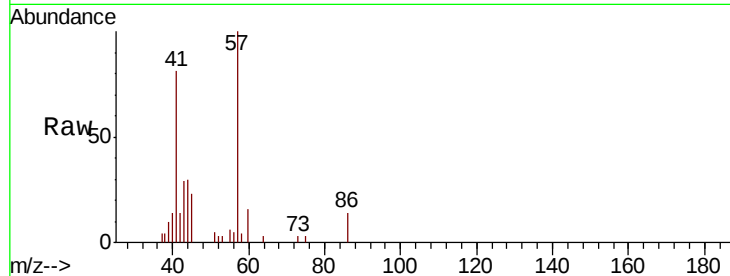
Tot Ion: 41 Resp: 9958

Ion Ratio Lower Upper

41 100

69 0.0 70.6 105.8#

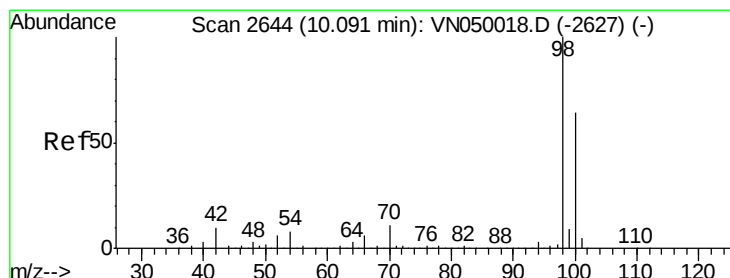
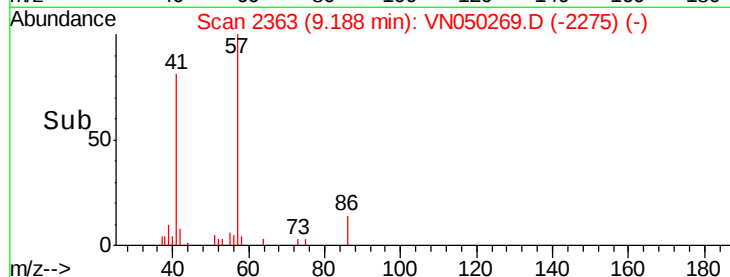
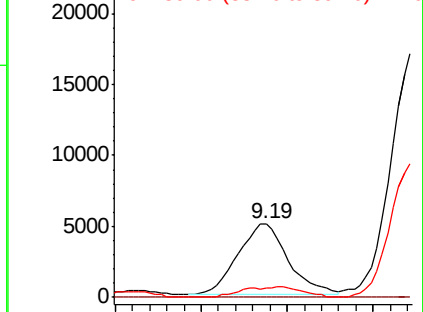
39 17.6 43.9 65.9#



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: 44.54 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050269.D

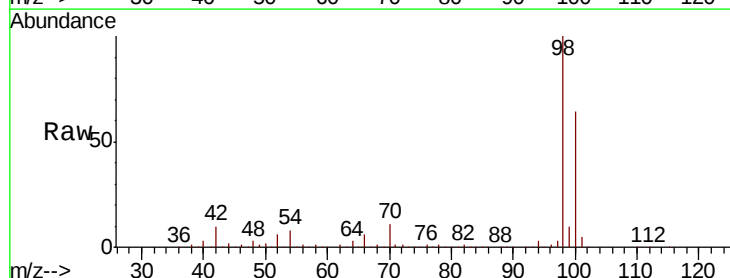
Acq: 2 Aug 2018 17:24

Tgt Ion: 98 Resp: 1451844

Ion Ratio Lower Upper

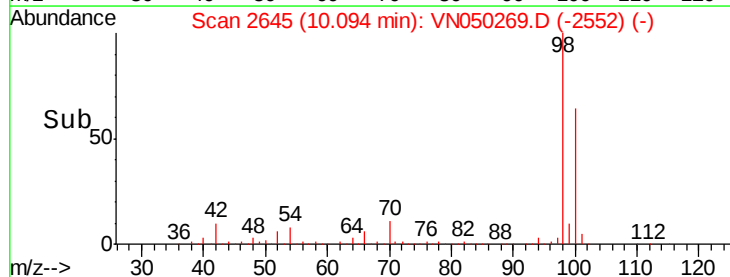
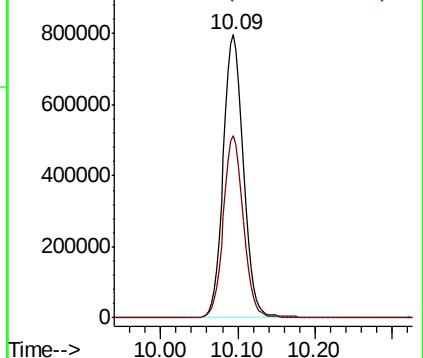
98 100

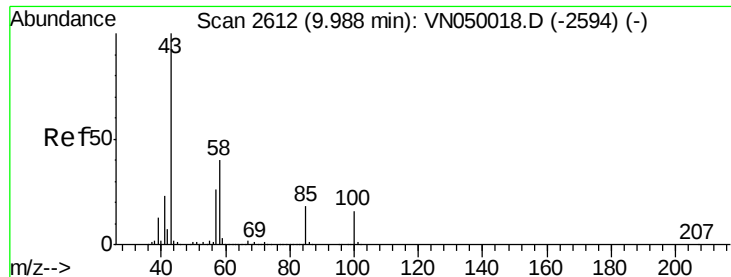
100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

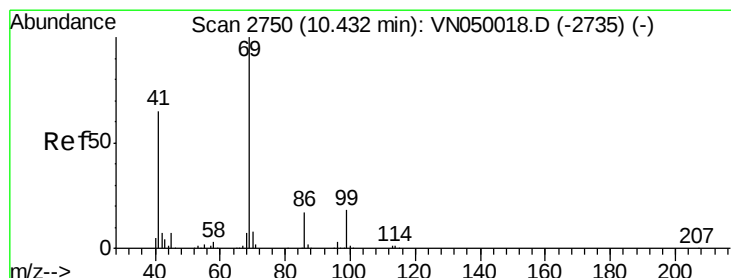
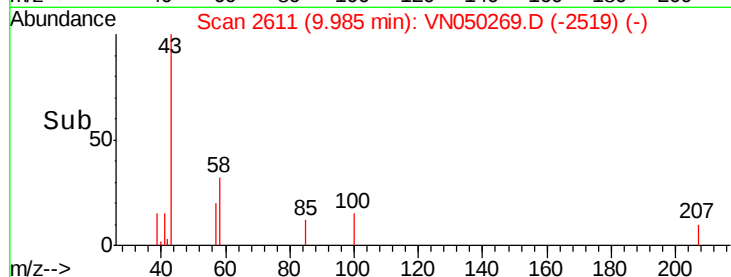
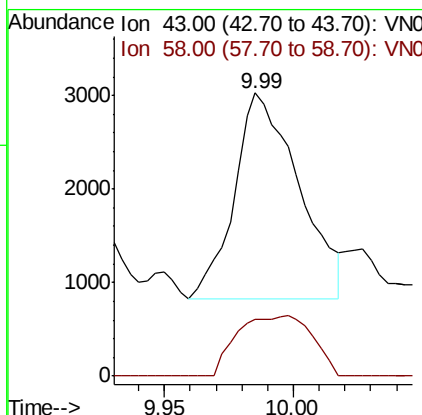
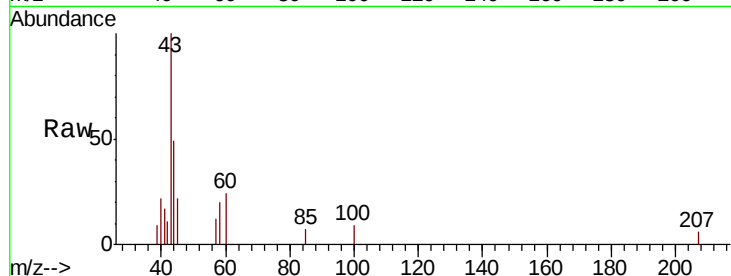




#51
4-Methyl-2-Pentanone
Concen: 0.45 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

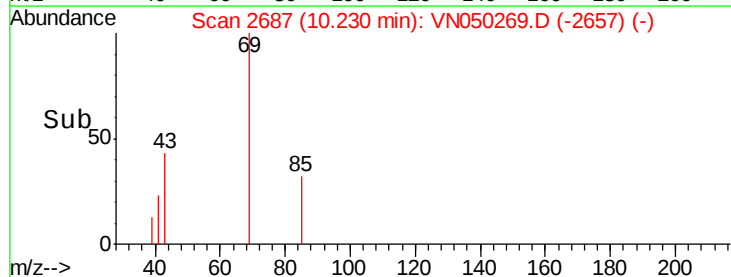
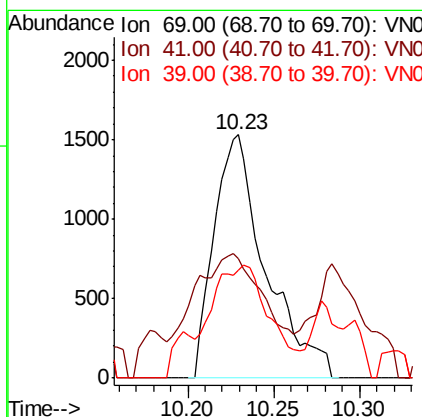
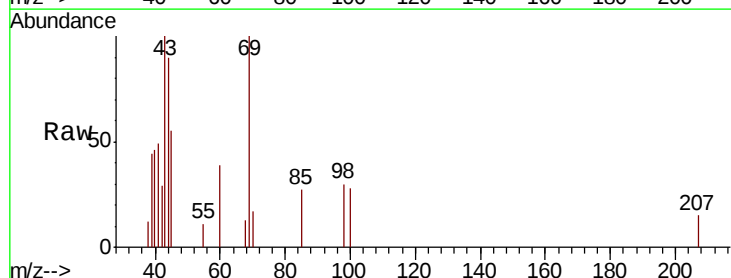
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#07

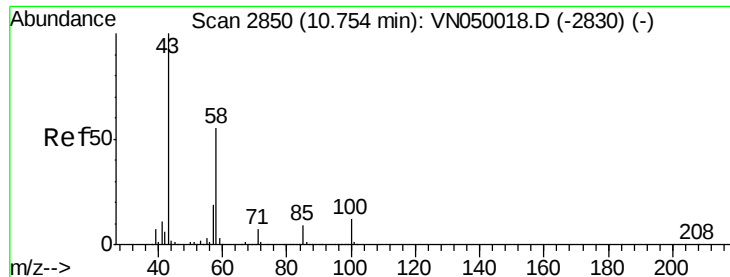
Tot Ion: 43 Resp: 3815
Ion Ratio Lower Upper
43 100
58 34.4 31.9 47.9



#56
Ethyl methacrylate
Concen: 2.29 ug/l
RT: 10.23 min Scan# 2687
Delta R.T. -0.20 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Tgt Ion: 69 Resp: 3206
Ion Ratio Lower Upper
69 100
41 73.6 51.0 76.4
39 39.2 26.6 40.0





#59

2-Hexanone

Concen: 8.71 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

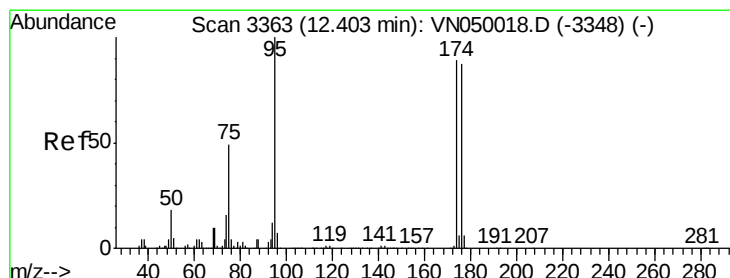
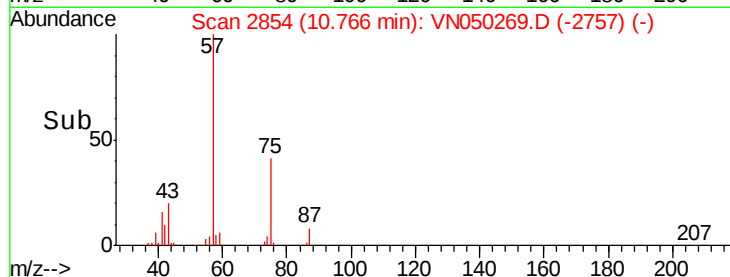
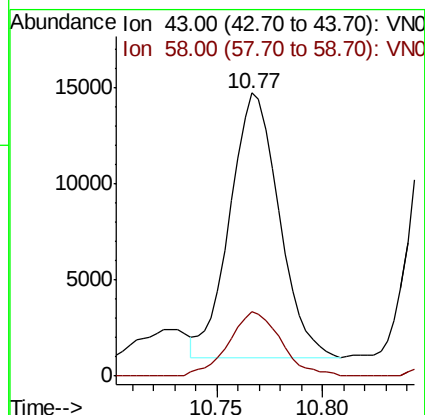
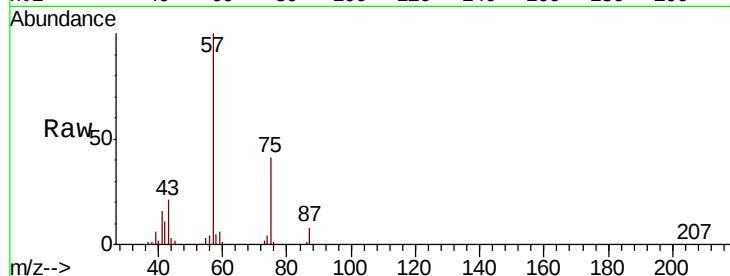
PB111674ZHE#07

Tot Ion: 43 Resp: 22236

Ion Ratio Lower Upper

43 100

58 26.0 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 37.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

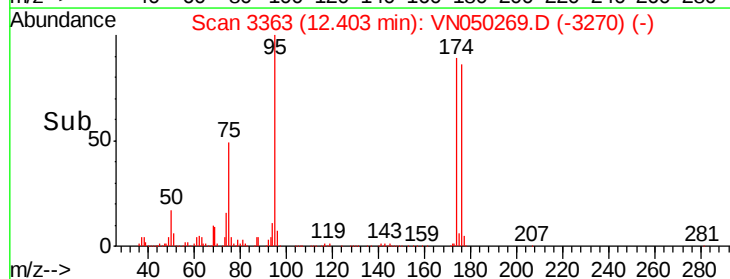
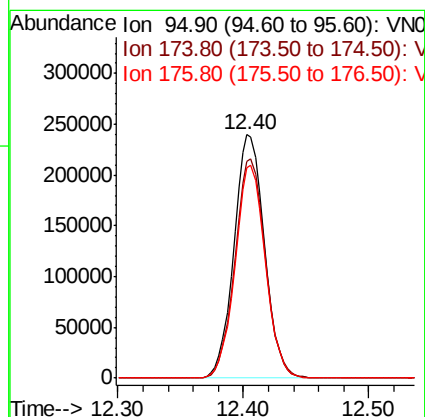
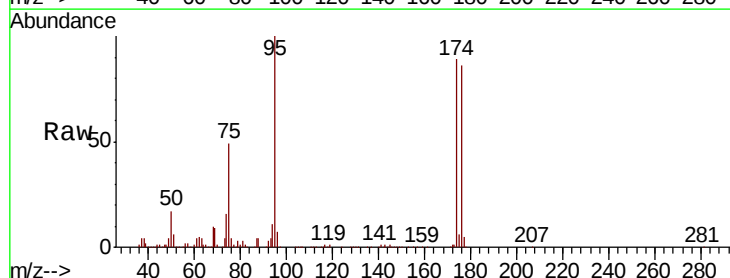
Tgt Ion: 95 Resp: 403415

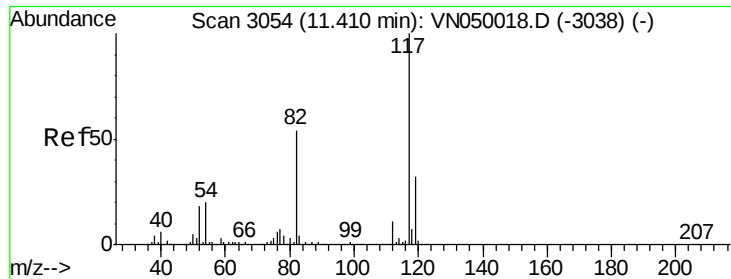
Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.2

176 86.8 0.0 173.4

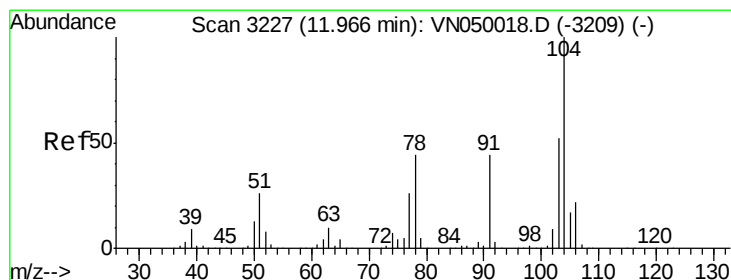
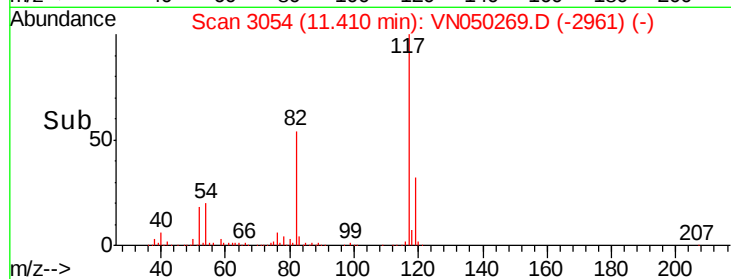
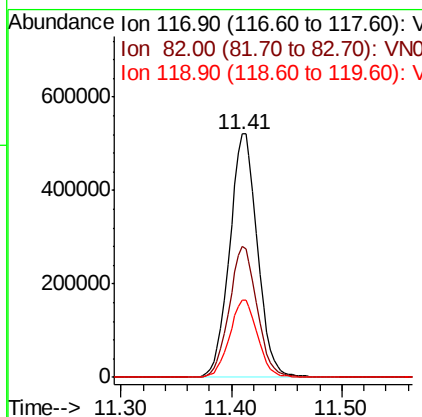
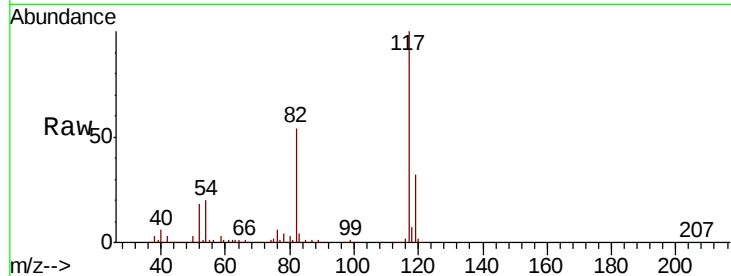




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

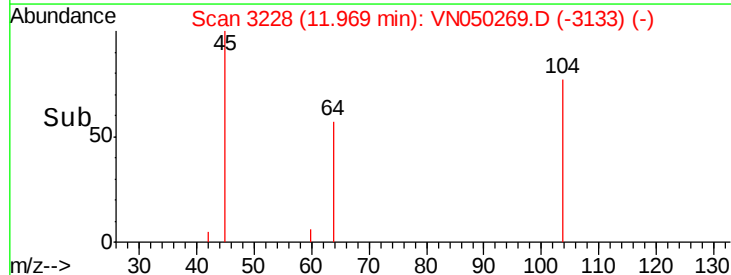
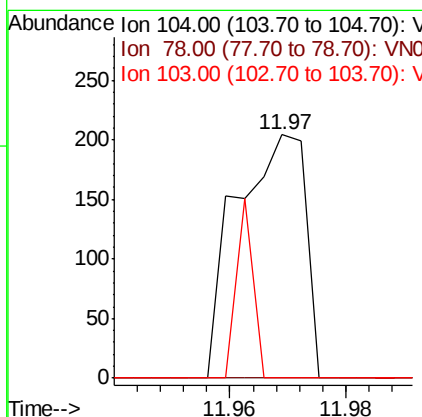
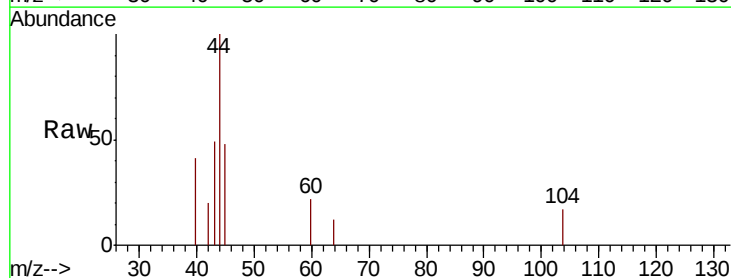
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#07

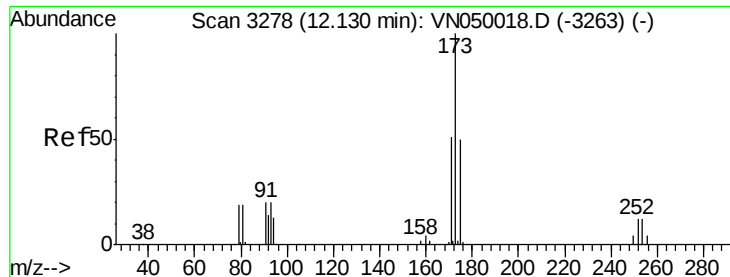
Tot Ion:117 Resp: 912519
Ion Ratio Lower Upper
117 100
82 53.8 43.7 65.5
119 31.7 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Tgt Ion:104 Resp: 169
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 17.2 45.0 67.6#





#71

Bromoform

Concen: 0.62 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#07

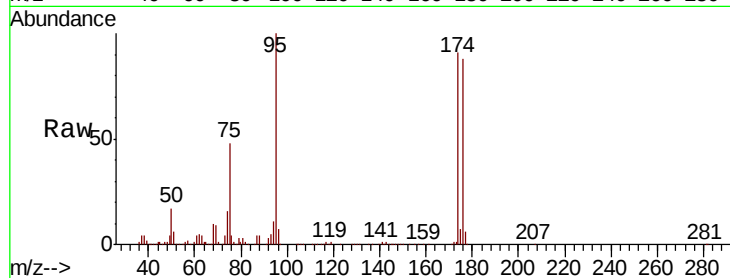
Tot Ion:173 Resp: 3964

Ion Ratio Lower Upper

173 100

175 571.4 24.1 72.2#

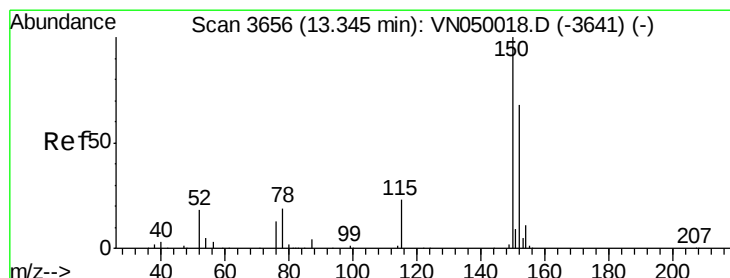
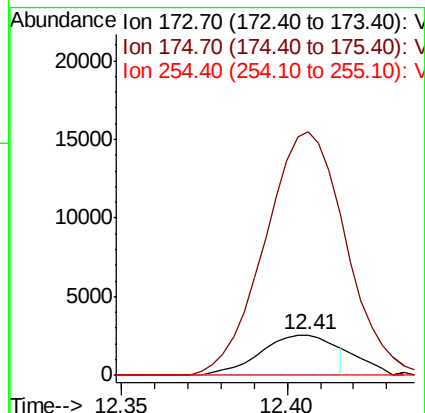
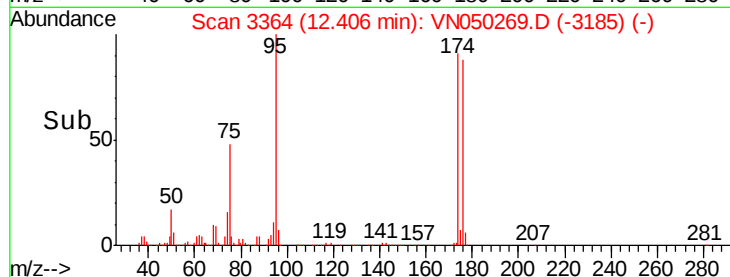
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

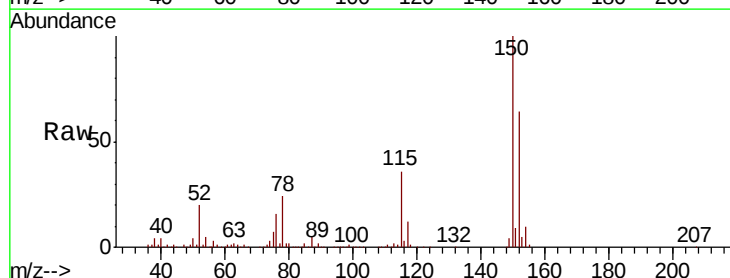
Tgt Ion:152 Resp: 335618

Ion Ratio Lower Upper

152 100

115 56.5 27.8 83.3

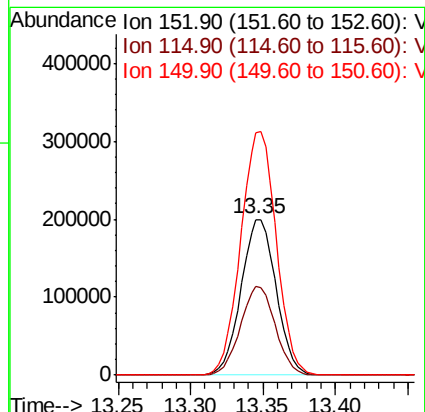
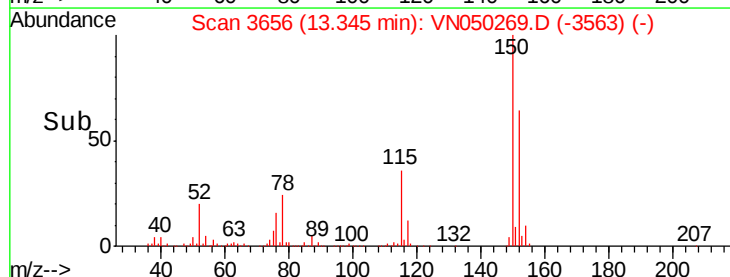
150 158.4 0.0 348.6

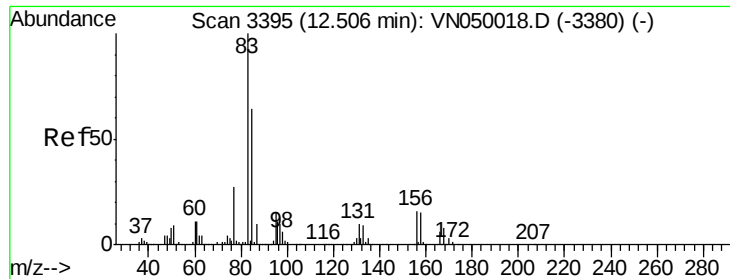


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#07

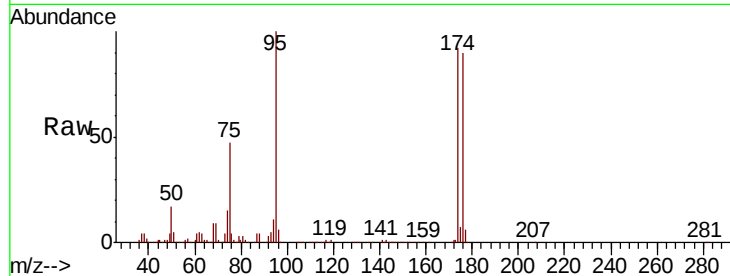
Tot Ion: 83 Resp: 289

Ion Ratio Lower Upper

83 100

131 179.2 5.1 15.3#

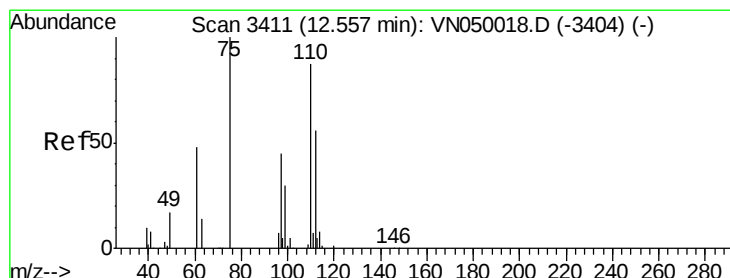
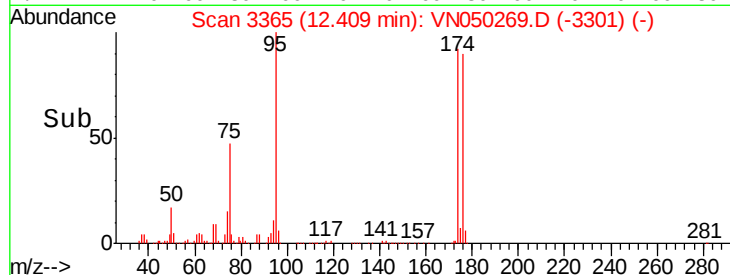
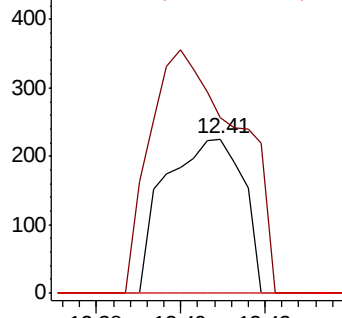
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 31.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050269.D

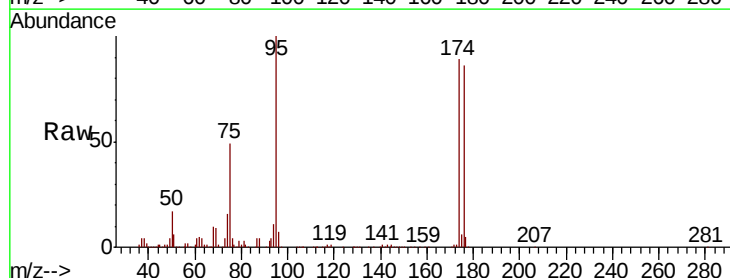
Acq: 2 Aug 2018 17:24

Tgt Ion: 75 Resp: 193793

Ion Ratio Lower Upper

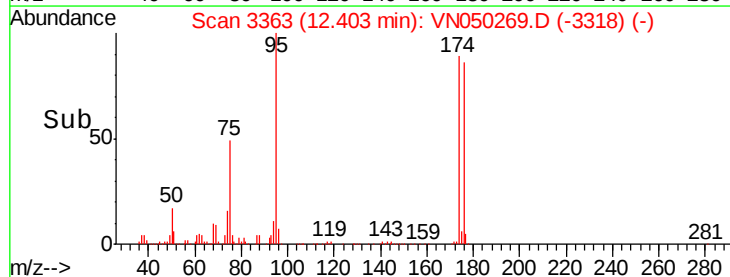
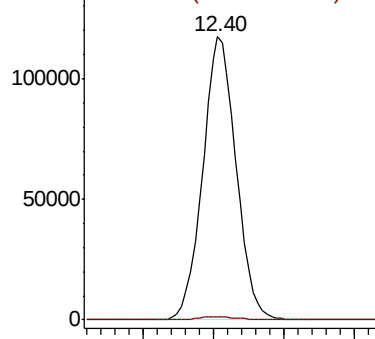
75 100

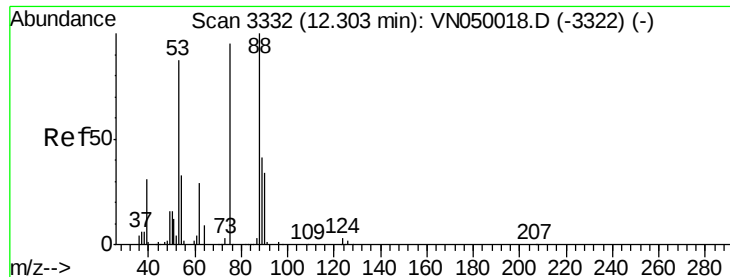
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 98.55 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#07

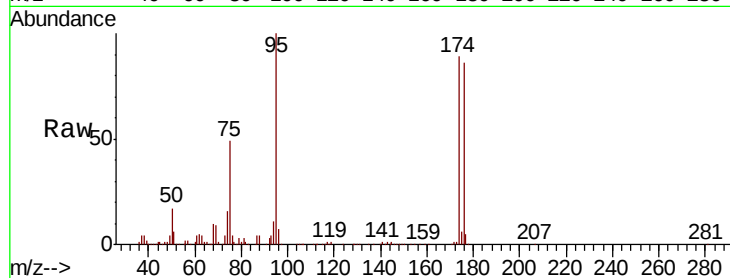
Tot Ion: 75 Resp: 193793

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#

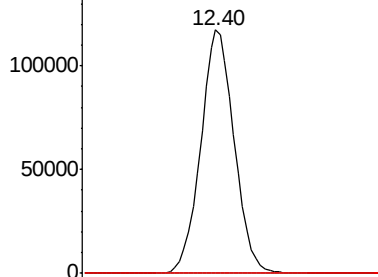


Abundance

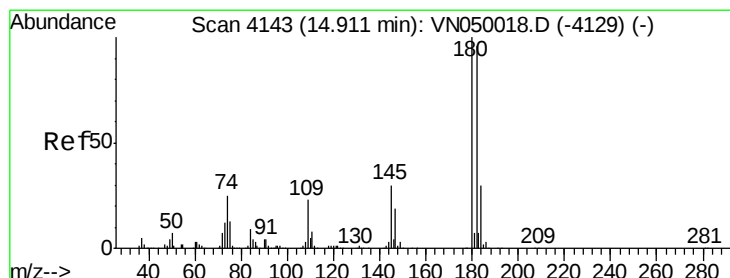
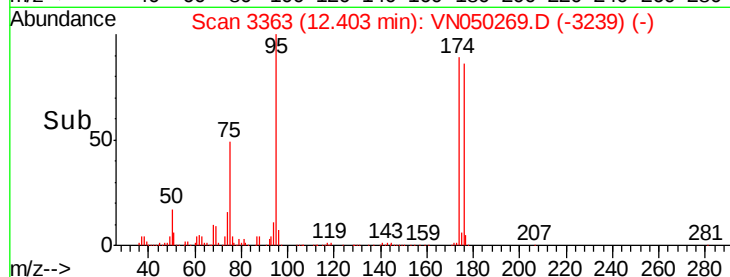
Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.09 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN050269.D

Acq: 2 Aug 2018 17:24

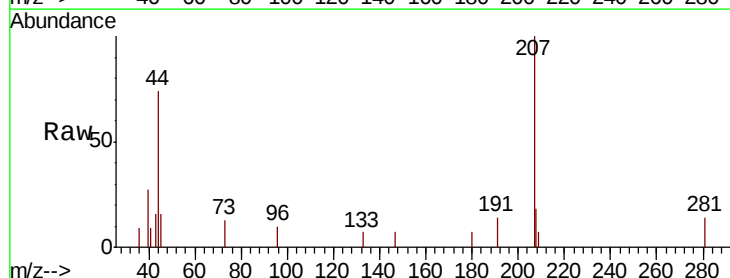
Tgt Ion: 180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 46.7 140.1#

145 0.0 13.8 41.4#

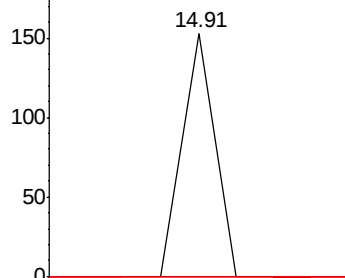


Abundance

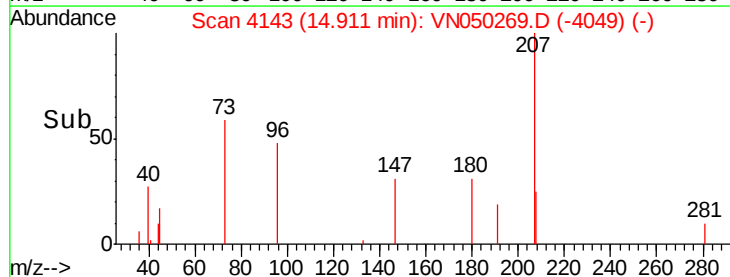
Ion 179.80 (179.50 to 180.50): V

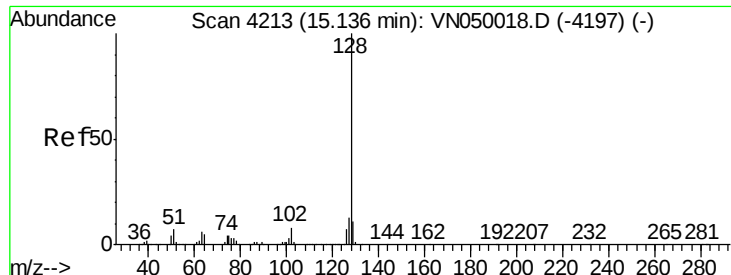
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->

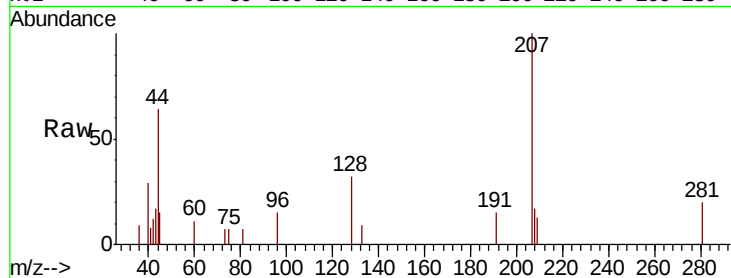




#95
Naphthalene
Concen: 4.48 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050269.D
Acq: 2 Aug 2018 17:24

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#07

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.8	13.2#



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

