

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053015.D
 Acq On : 19 Dec 2018 17:03
 Operator : MD\SY
 Sample : PB115821ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#05

Quant Time: Dec 20 05:22:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

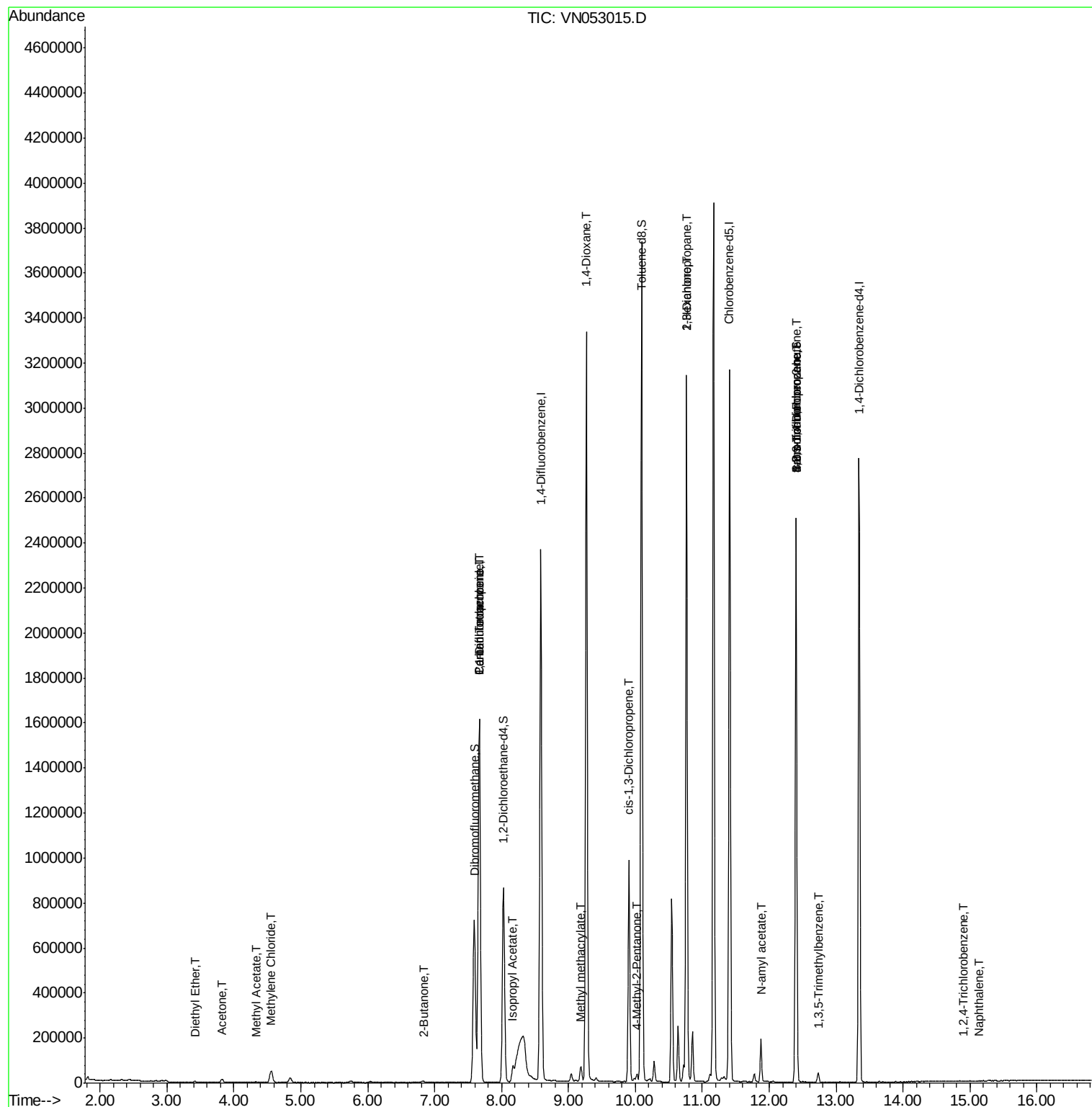
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1440316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2214144	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1943074	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	793078	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	725008	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
35) Dibromofluoromethane	7.59	113	556059	54.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.96%	
50) Toluene-d8	10.09	98	2669759	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.40	95	867873	45.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.06%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.42	74	2448	0.291	ug/l	96
16) Acetone	3.82	43	25618	8.939	ug/l	90
18) Methyl Acetate	4.33	43	6107	1.452	ug/l	96
20) Methylene Chloride	4.56	84	40363	2.582	ug/l	94
25) 2-Butanone	6.84	43	2783	0.579	ug/l	97
31) Cyclohexane	7.66	56	23537	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	94502	4.447	ug/l #	48
38) Carbon Tetrachloride	7.67	117	125184	6.426	ug/l #	16
43) Isopropyl Acetate	8.17	43	81451	2.557	ug/l #	85
48) Methyl methacrylate	9.18	41	22455	1.951	ug/l #	22
49) 1,4-Dioxane	9.27	88	284	1.950	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	28177	2.452	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	192031	7.803	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	32061	1.368	ug/l #	42
59) 2-Hexanone	10.76	43	443716	57.081	ug/l #	50
71) Bromoform	12.40	173	5315	0.491	ug/l #	1
74) N-amyl acetate	11.88	43	59161	3.434	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	405110	30.344	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	20671	0.409	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	405110	97.802	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	92	0.602	ug/l #	76
95) Naphthalene	15.14	128	753	1.170	ug/l #	69

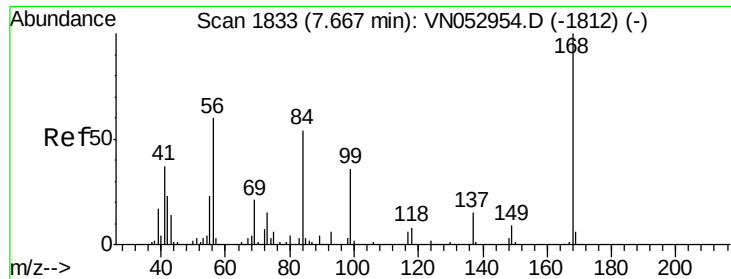
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

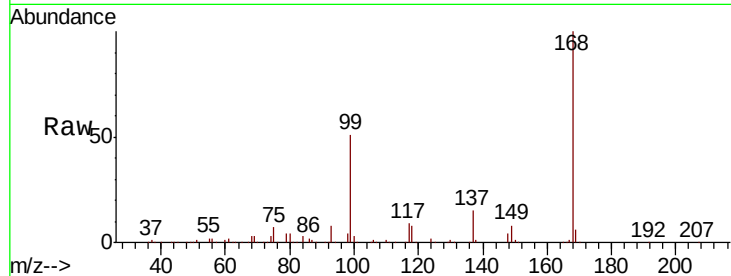
PB115821ZHE#05

Tot Ion:168 Resp: 1440316

Ion Ratio Lower Upper

168 100

99 50.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053015.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053015.D (-1740) (-)

7.67

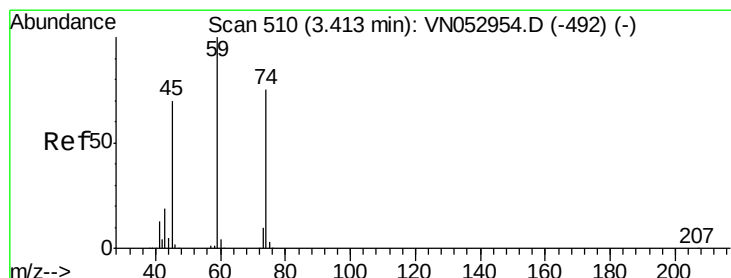
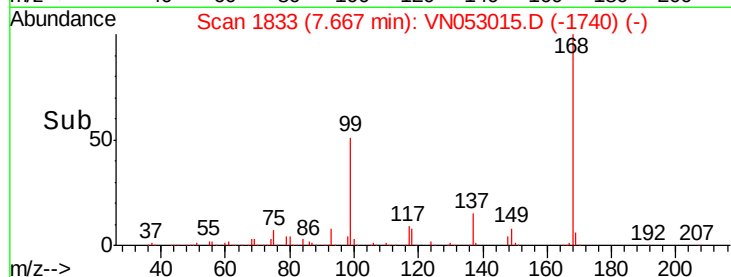
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.291 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN053015.D

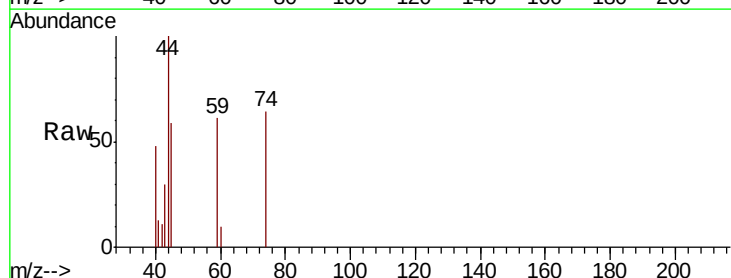
Acq: 19 Dec 2018 17:03

Tgt Ion: 74 Resp: 2448

Ion Ratio Lower Upper

74 100

45 94.5 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN053015.D (-417) (-)

Ion 45.00 (44.70 to 45.70): VN053015.D (-417) (-)

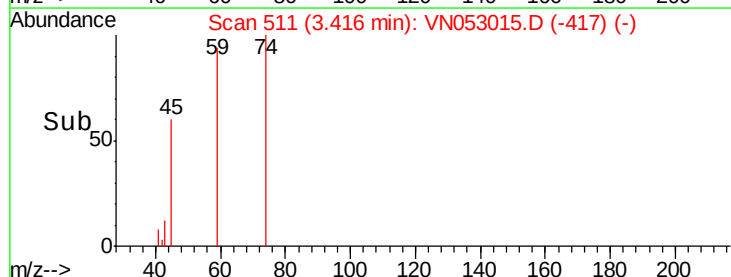
3.42

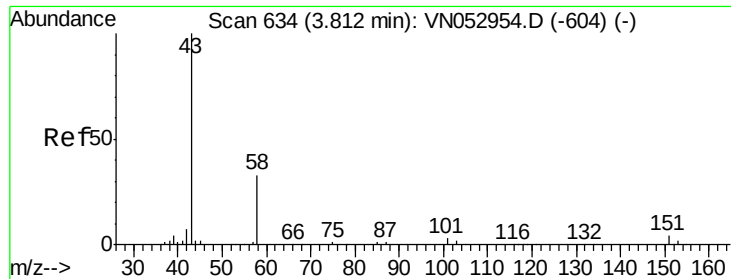
1000

500

0

Time-->





#16

Acetone

Concen: 8.939 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

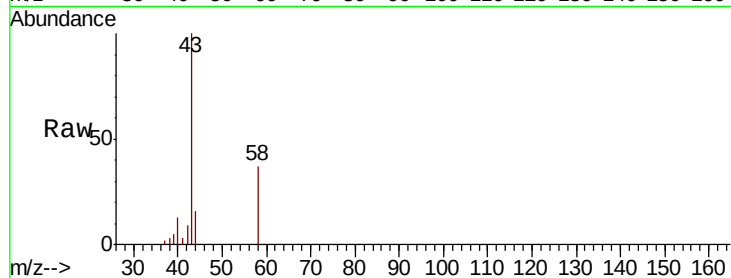
PB115821ZHE#05

Tot Ion: 43 Resp: 25618

Ion Ratio Lower Upper

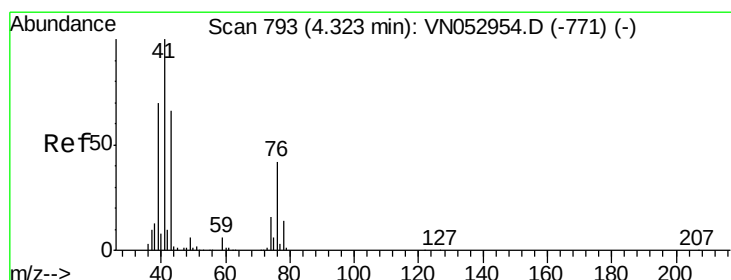
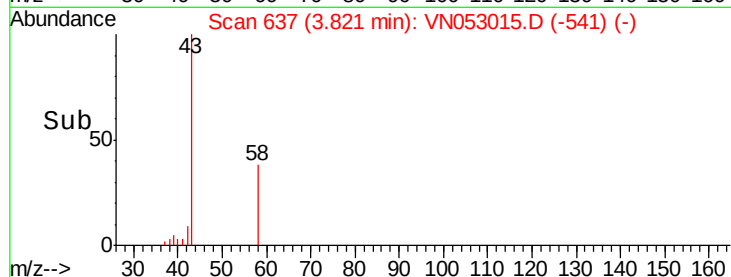
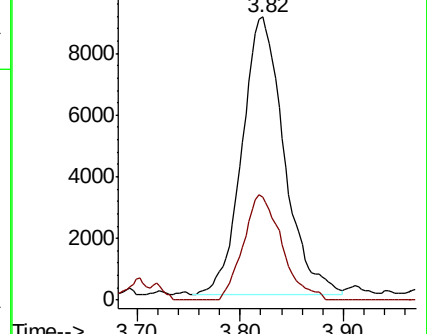
43 100

58 37.2 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN052954.D (-604) (-)



#18

Methyl Acetate

Concen: 1.452 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053015.D

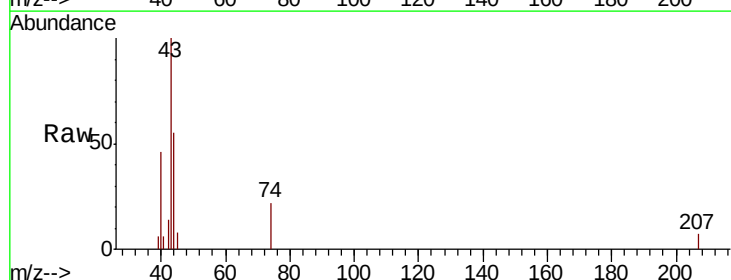
Acq: 19 Dec 2018 17:03

Tgt Ion: 43 Resp: 6107

Ion Ratio Lower Upper

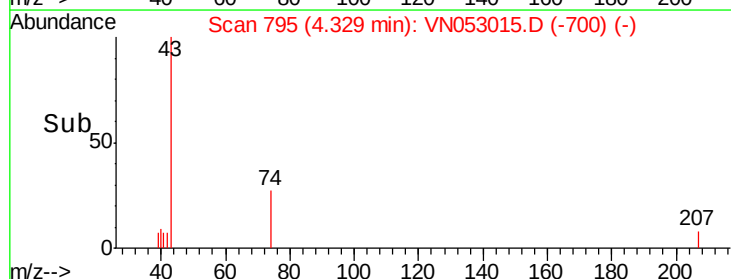
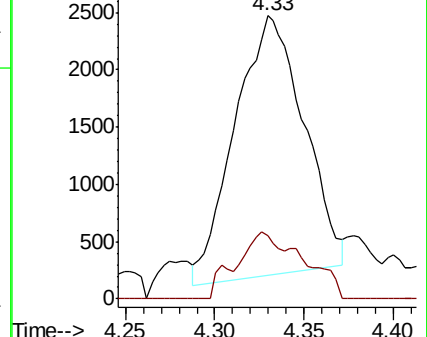
43 100

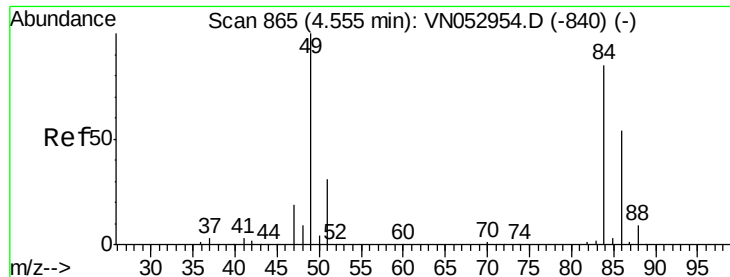
74 21.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-771) (-)

Ion 74.00 (73.70 to 74.70): VN052954.D (-771) (-)

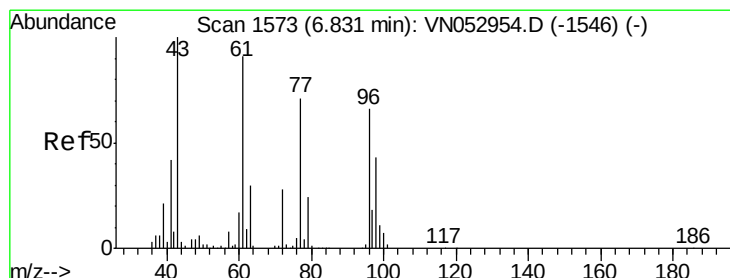
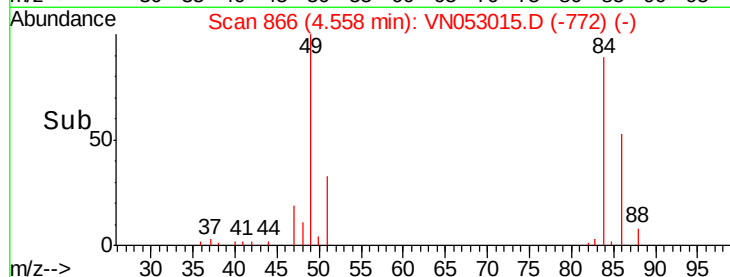
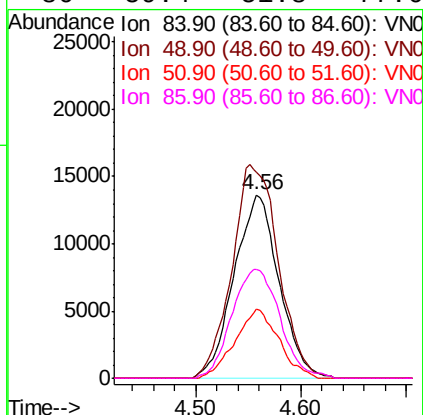
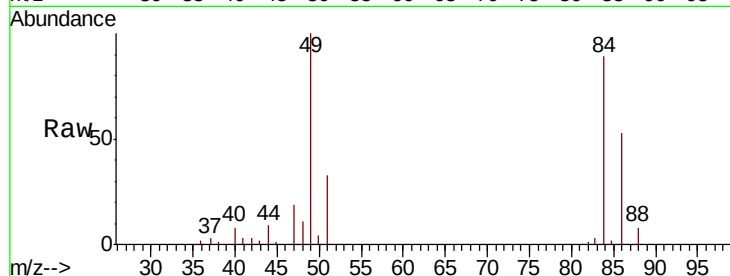




#20
Methvlene Chloride
Concen: 2.582 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053015.D
Acq: 19 Dec 2018 17:03

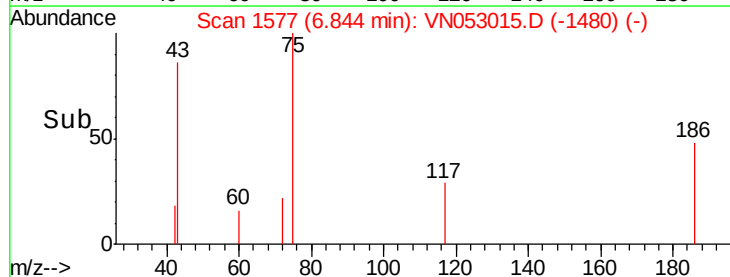
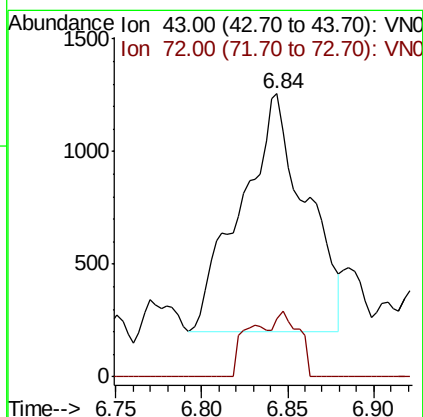
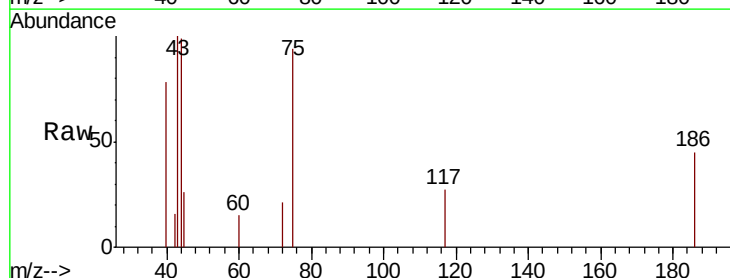
Instrument :
MSVOA_N
ClientSampleId :
PB115821ZHE#05

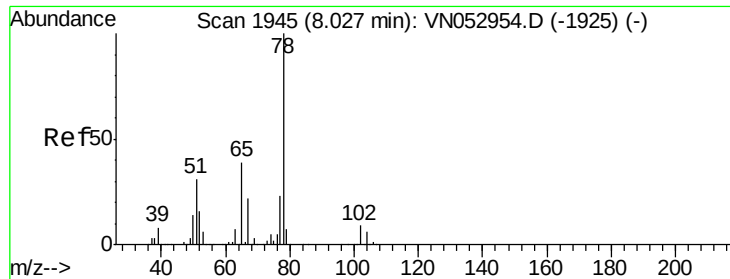
Tot Ion:	84	Resp:	40363
Ion	Ratio	Lower	Upper
84	100		
49	112.5	96.8	145.2
51	37.5	29.9	44.9
86	59.4	51.8	77.6



#25
2-Butanone
Concen: 0.579 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053015.D
Acq: 19 Dec 2018 17:03

Tgt Ion:	43	Resp:	2783
Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.0	31.6

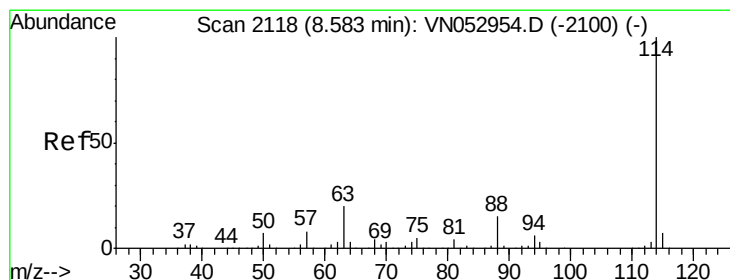
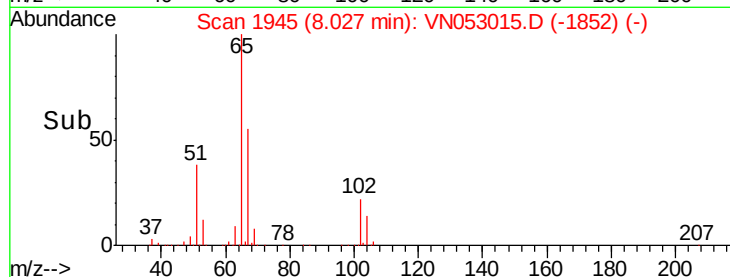
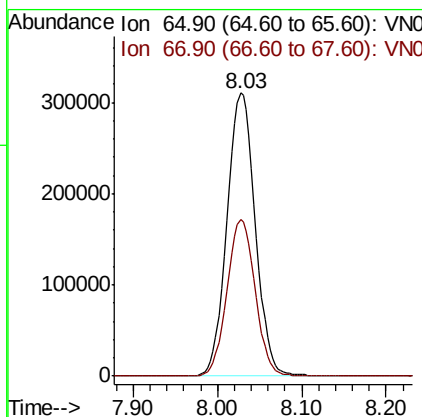
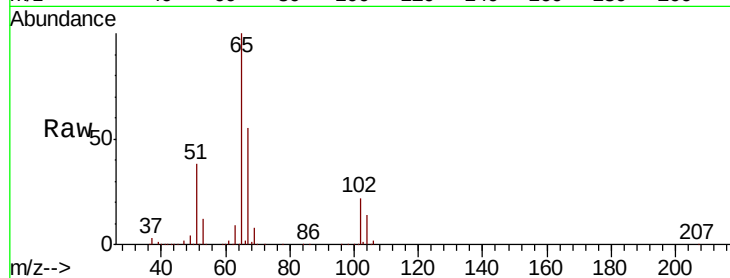




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053015.D
 Acq: 19 Dec 2018 17:03

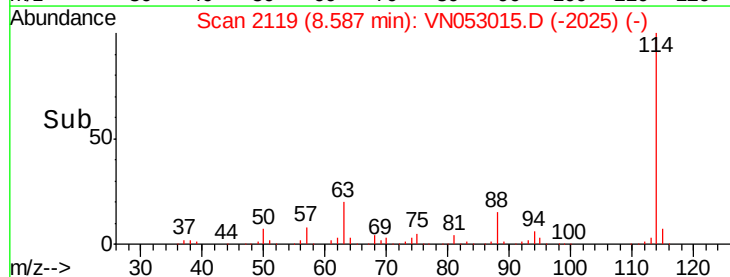
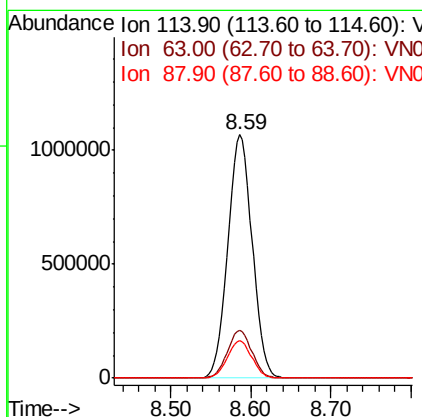
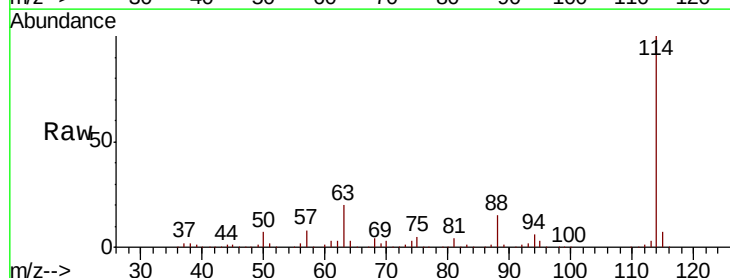
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#05

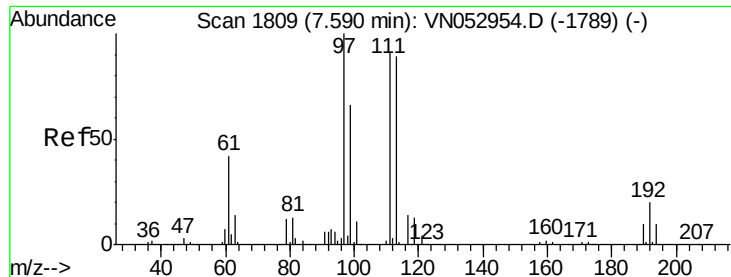
Tot Ion: 65 Resp: 725008
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053015.D
 Acq: 19 Dec 2018 17:03

Tgt Ion: 114 Resp: 2214144
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#05

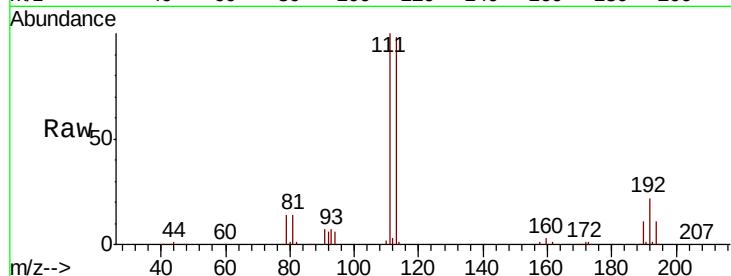
Tot Ion:113 Resp: 556059

Ion Ratio Lower Upper

113 100

111 103.2 83.0 124.4

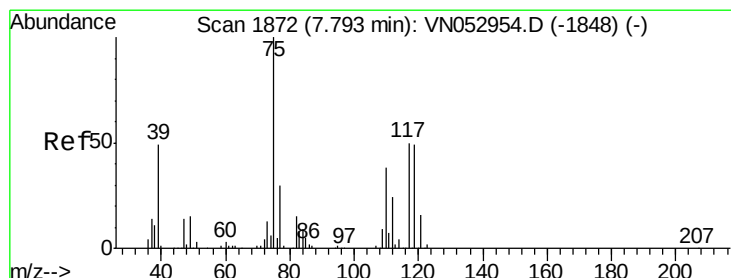
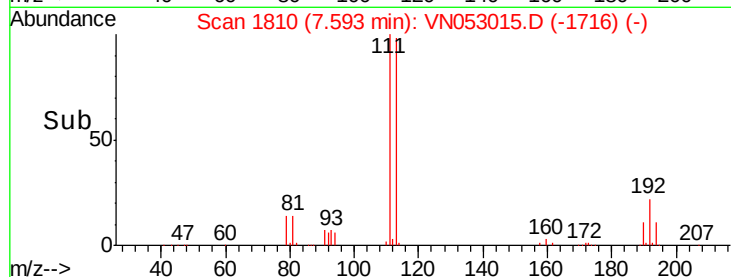
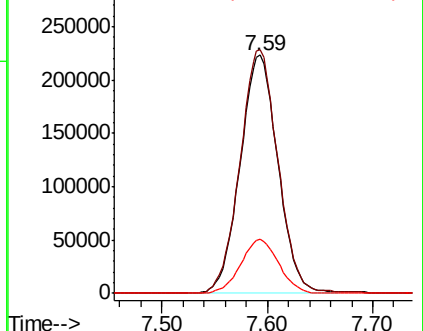
192 22.7 17.5 26.3



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: 4.447 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

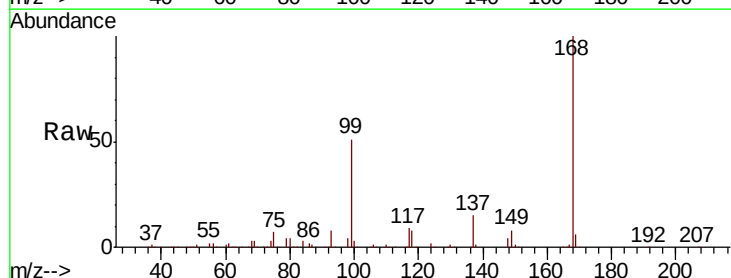
Tgt Ion: 75 Resp: 94502

Ion Ratio Lower Upper

75 100

110 8.4 18.2 54.6#

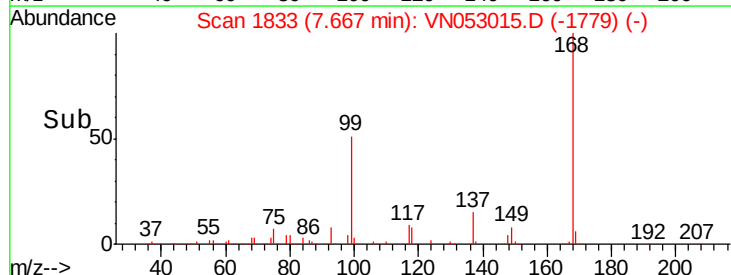
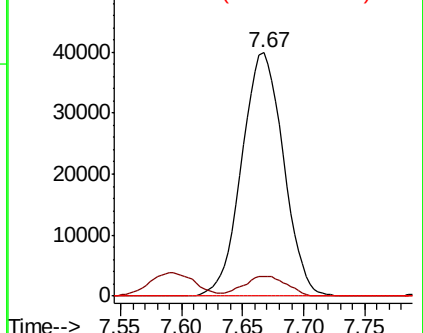
77 0.0 24.9 37.3#

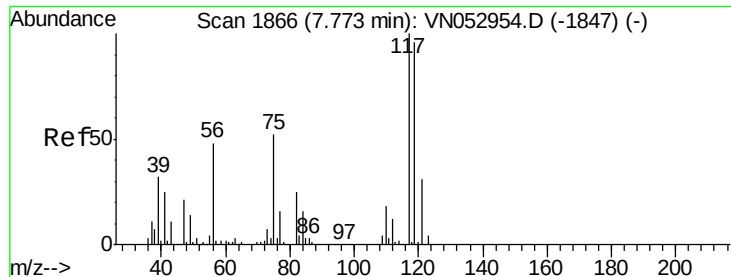


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.426 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

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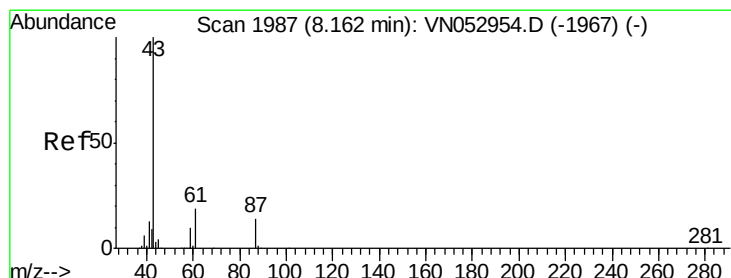
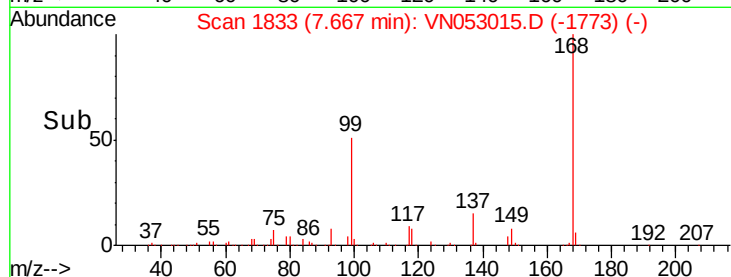
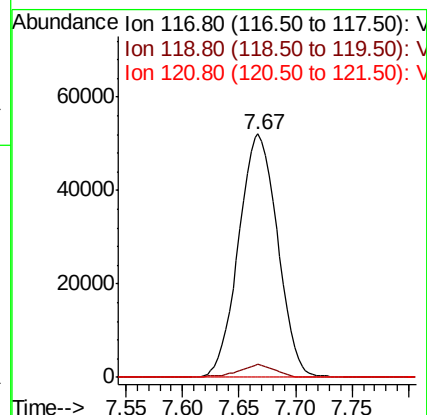
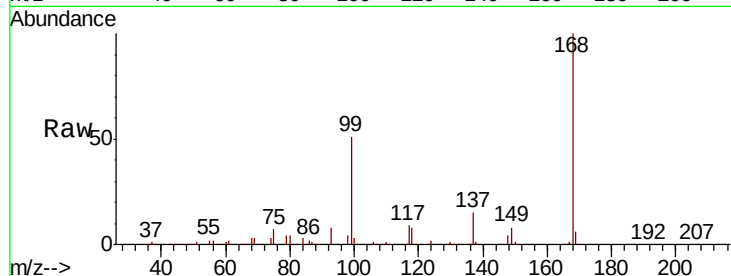
Tot Ion:117 Resp: 125184

Ion Ratio Lower Upper

117 100

119 5.2 77.1 115.7#

121 0.0 24.9 37.3#



#43

Isopropyl Acetate

Concen: 2.557 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

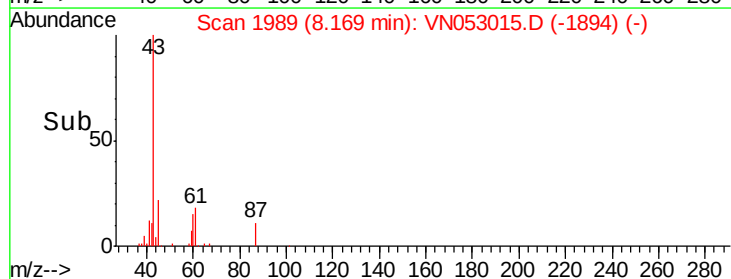
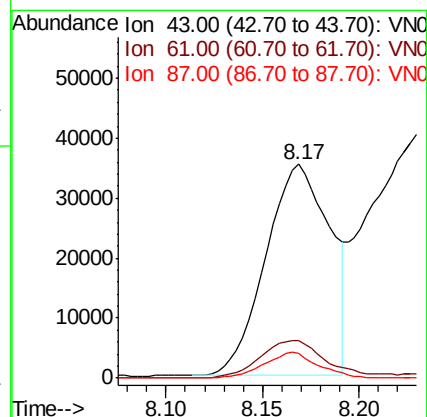
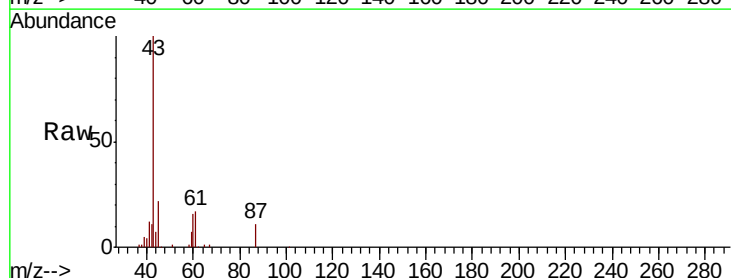
Tgt Ion: 43 Resp: 81451

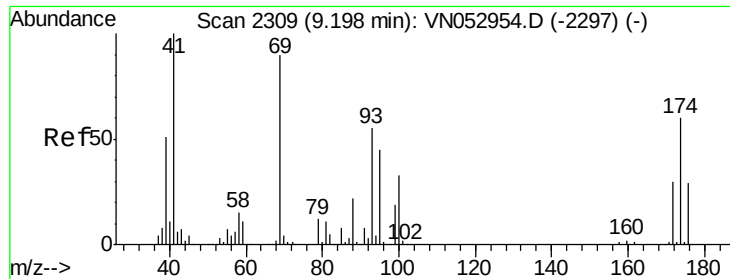
Ion Ratio Lower Upper

43 100

61 18.5 22.9 34.3#

87 10.3 10.6 15.8#

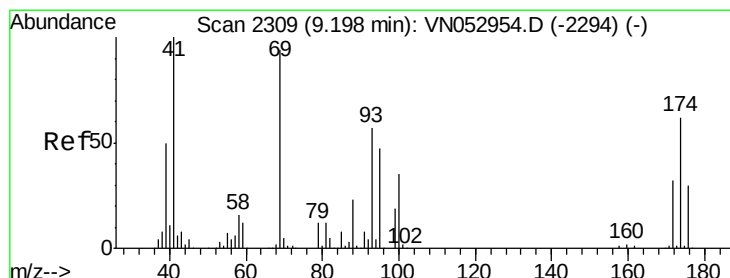
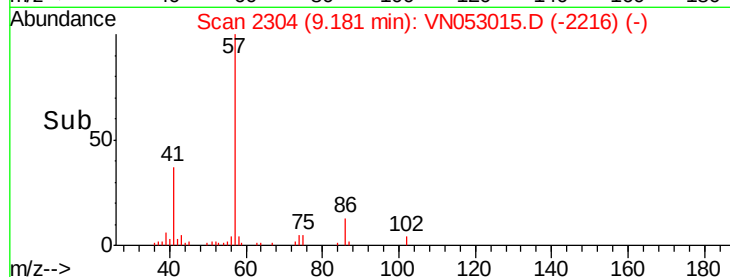
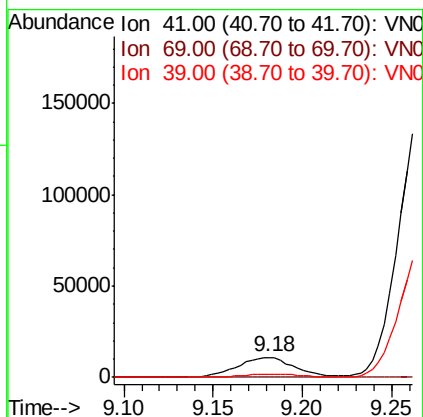
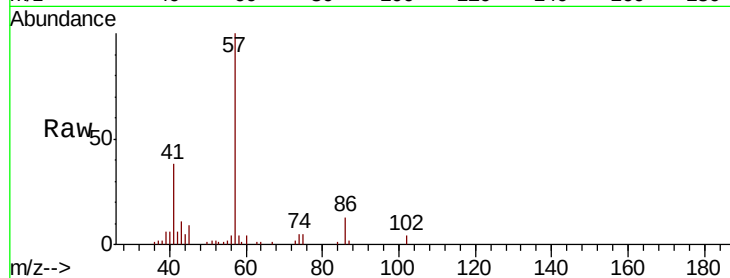




#48
Methvl methacrylate
Concen: 1.951 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053015.D
Acq: 19 Dec 2018 17:03

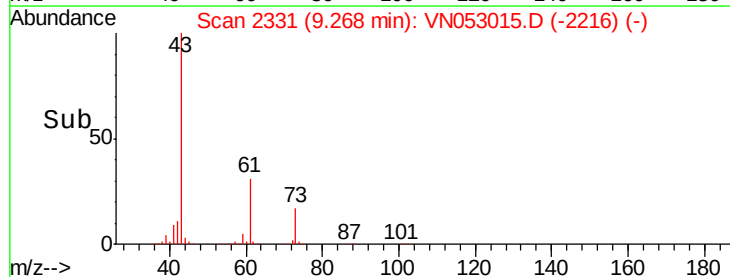
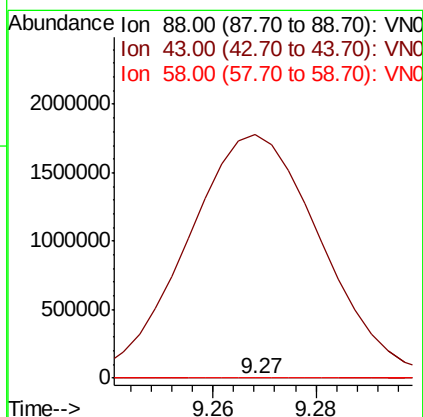
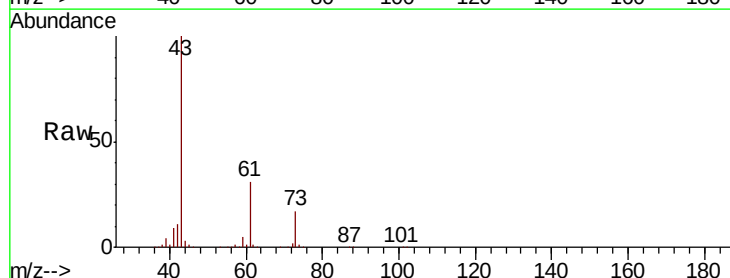
Instrument :
MSVOA_N
ClientSampleId :
PB115821ZHE#05

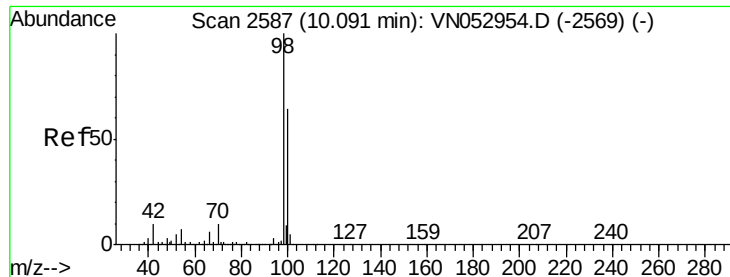
Tot Ion: 41 Resp: 22455
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 18.4 41.9 62.9#



#49
1,4-Dioxane
Concen: 1.950 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053015.D
Acq: 19 Dec 2018 17:03

Tgt Ion: 88 Resp: 284
Ion Ratio Lower Upper
88 100
43 1150744.4 26.6 40.0#
58 4876.4 58.4 87.6#





#50

Toluene-d8

Concen: 1.950 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

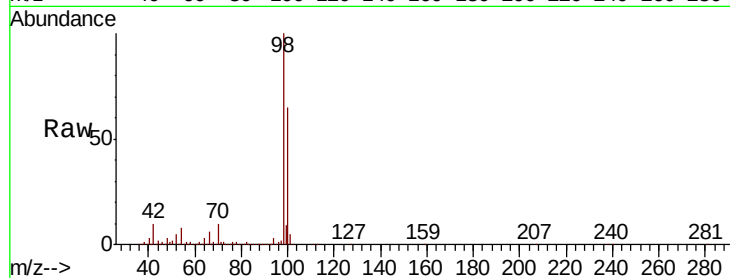
PB115821ZHE#05

Tot Ion: 98 Resp: 2669759

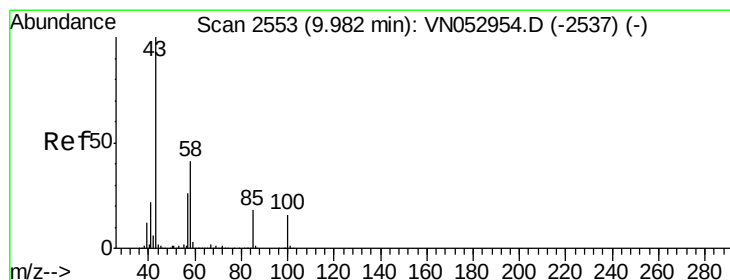
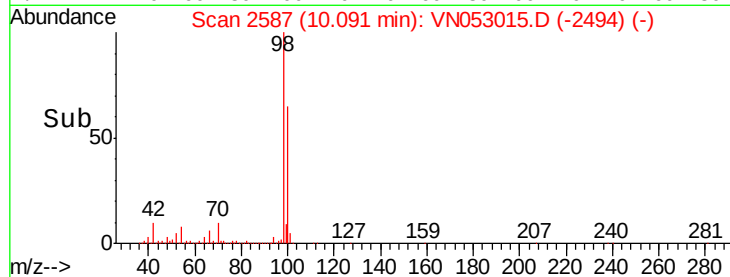
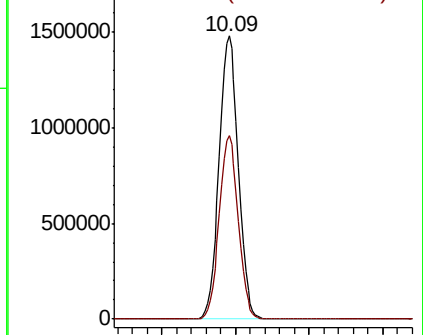
Ion Ratio Lower Upper

98 100

100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052954.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.452 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053015.D

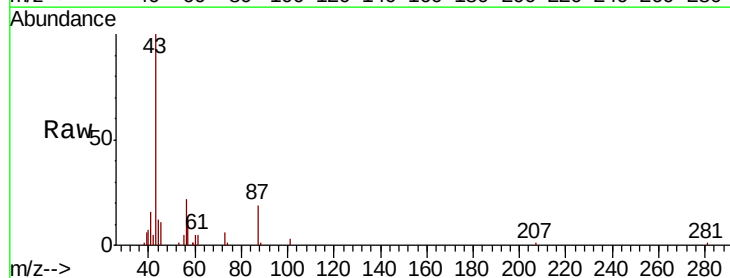
Acq: 19 Dec 2018 17:03

Tgt Ion: 43 Resp: 28177

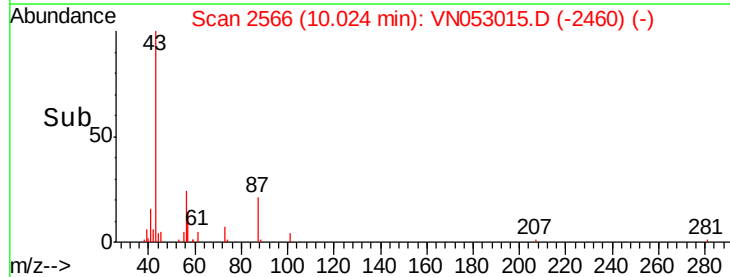
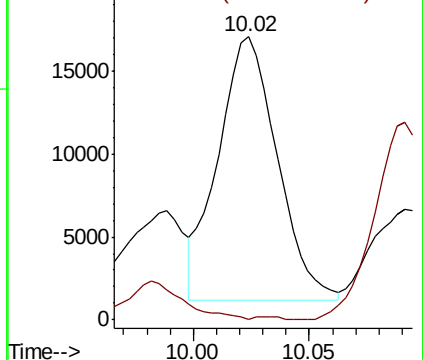
Ion Ratio Lower Upper

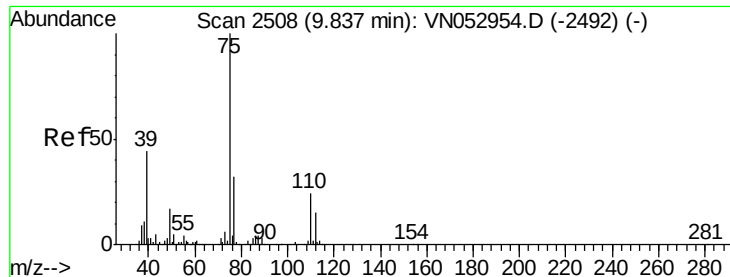
43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.803 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#05

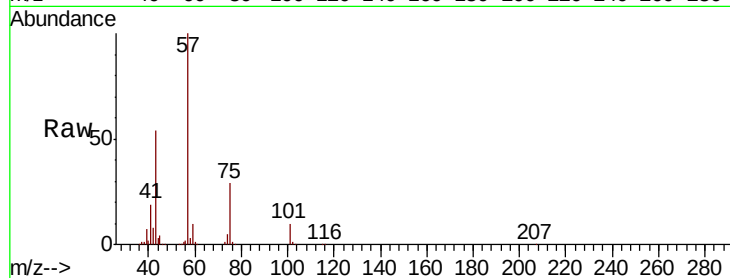
Tot Ion: 75 Resp: 192031

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

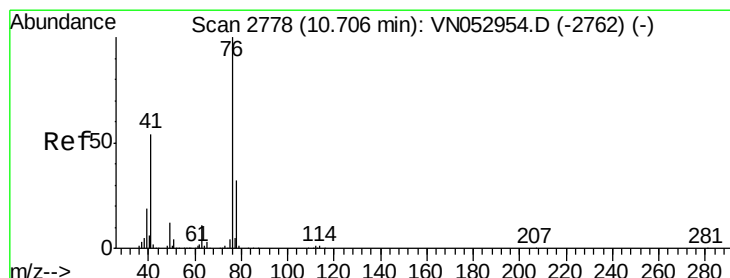
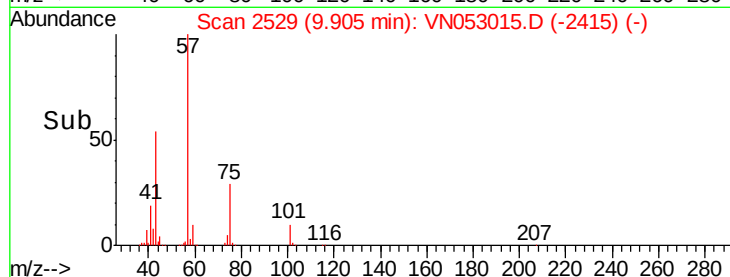
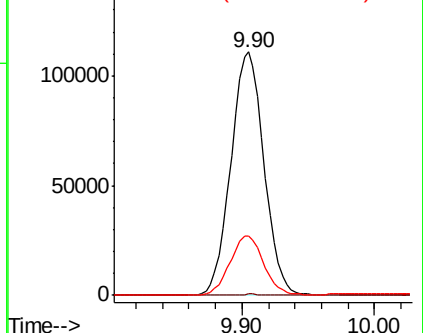
39 24.4 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.368 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053015.D

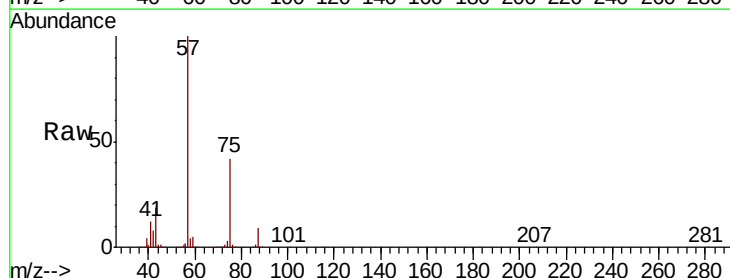
Acq: 19 Dec 2018 17:03

Tgt Ion: 76 Resp: 32061

Ion Ratio Lower Upper

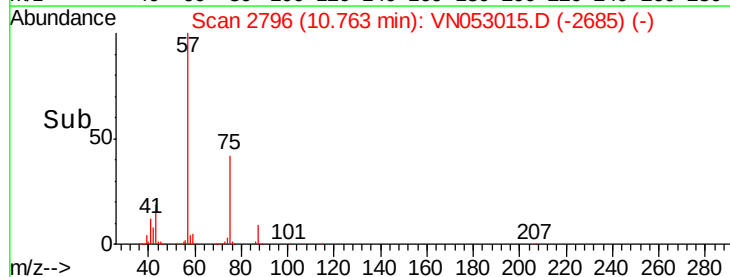
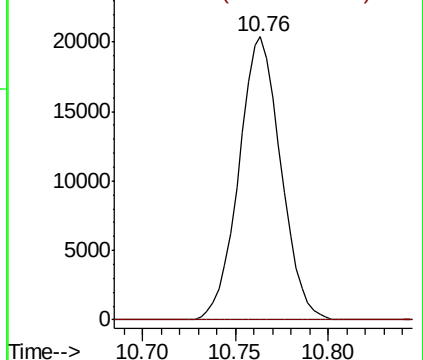
76 100

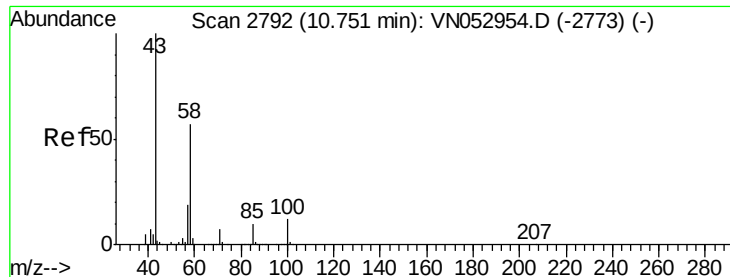
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

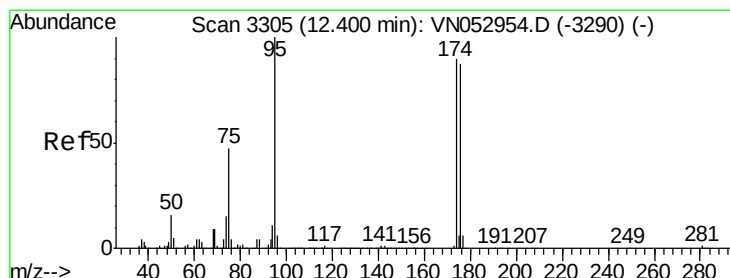
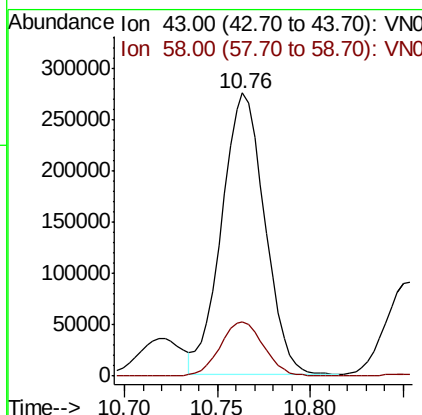
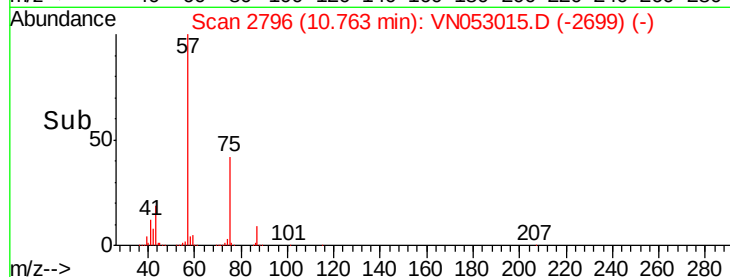
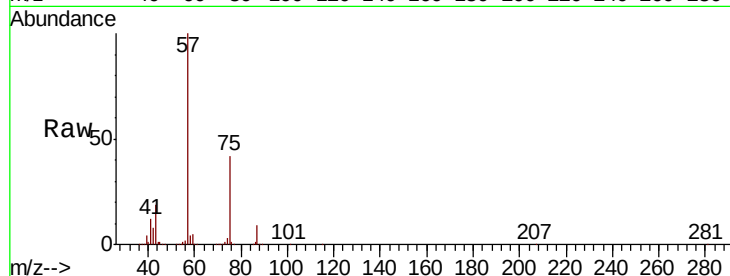




#59
2-Hexanone
Concen: 57.081 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053015.D
Acq: 19 Dec 2018 17:03

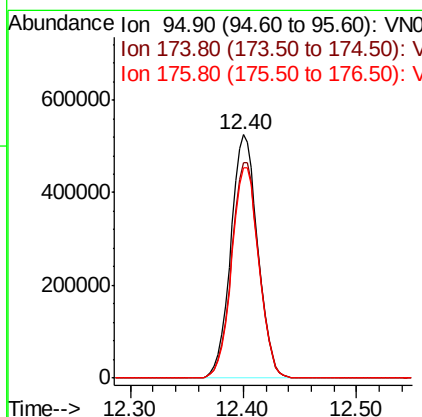
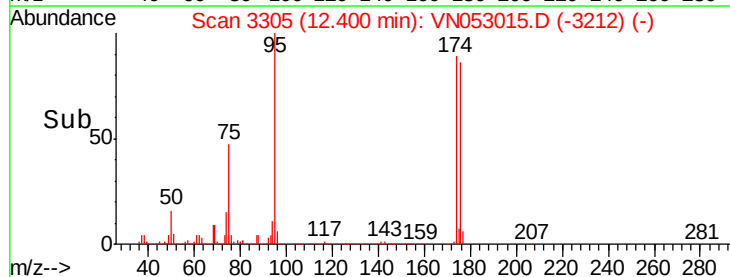
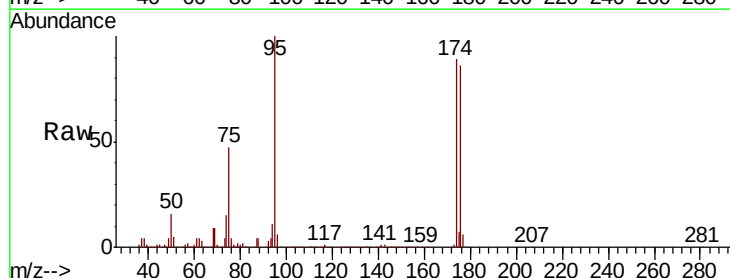
Instrument :
MSVOA_N
ClientSampleId :
PB115821ZHE#05

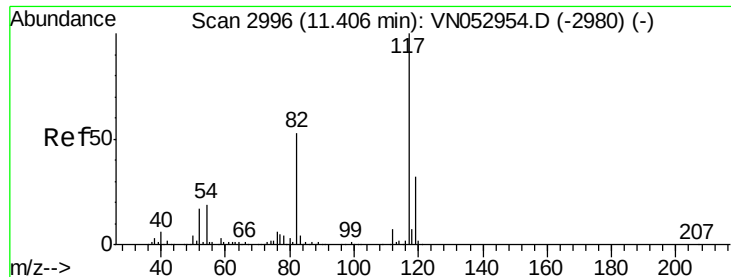
Tot Ion: 43 Resp: 443716
Ion Ratio Lower Upper
43 100
58 19.6 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053015.D
Acq: 19 Dec 2018 17:03

Tgt Ion: 95 Resp: 867873
Ion Ratio Lower Upper
95 100
174 89.9 0.0 178.8
176 87.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#05

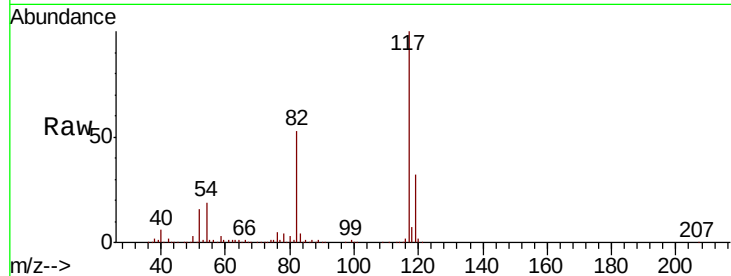
Tot Ion:117 Resp: 1943074

Ion Ratio Lower Upper

117 100

82 53.1 42.8 64.2

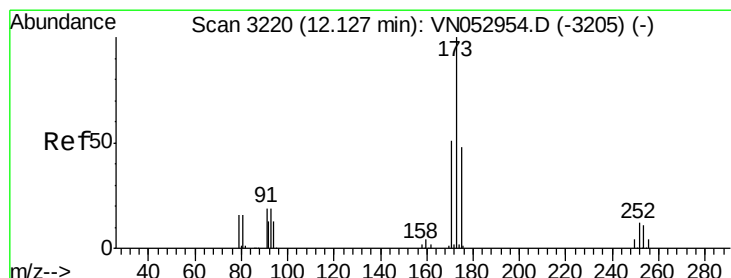
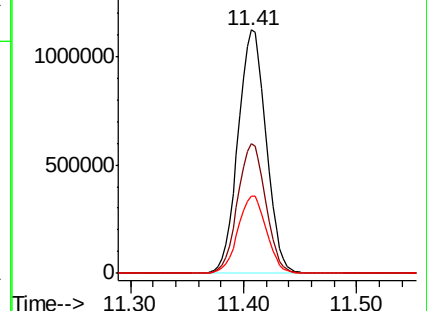
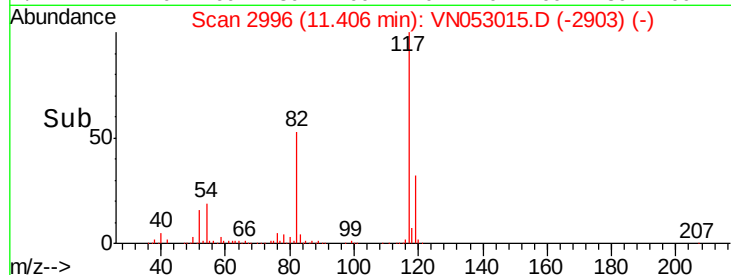
119 31.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.491 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

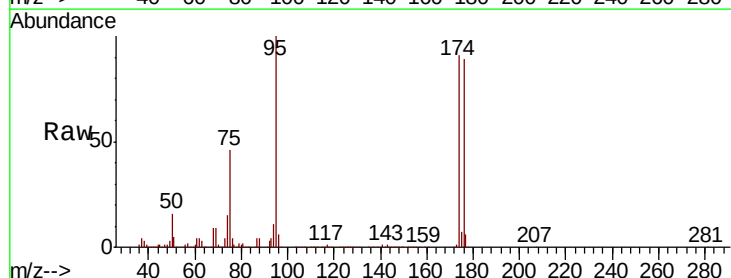
Tgt Ion:173 Resp: 5315

Ion Ratio Lower Upper

173 100

175 934.2 24.3 72.9#

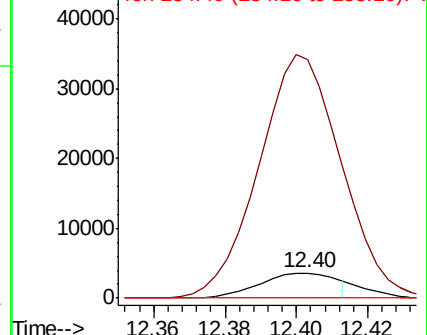
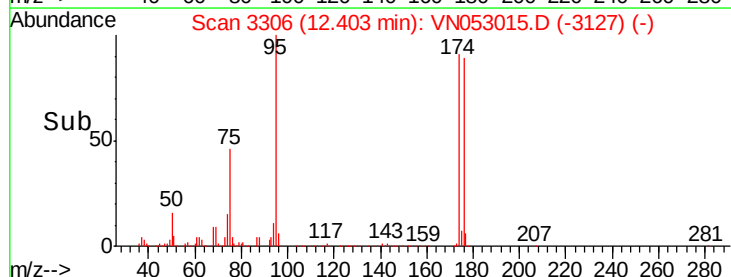
254 0.0 0.1 0.1#

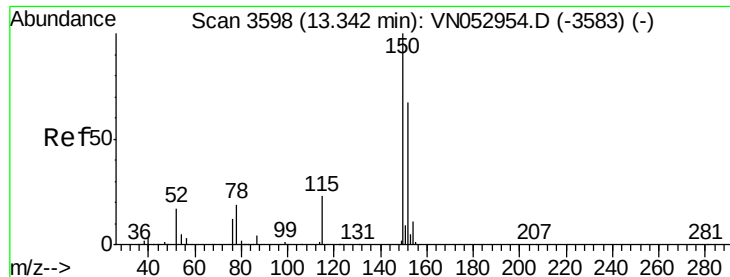


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#05

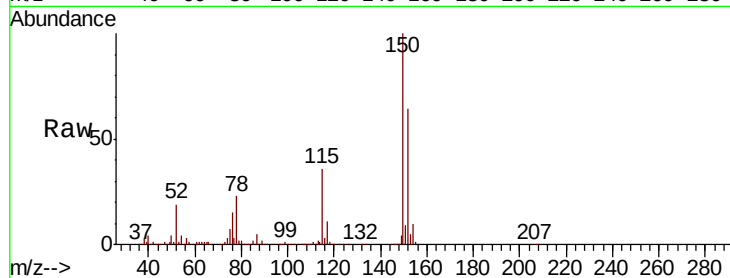
Tot Ion:152 Resp: 793078

Ion Ratio Lower Upper

152 100

115 55.8 28.3 85.0

150 156.6 0.0 347.8

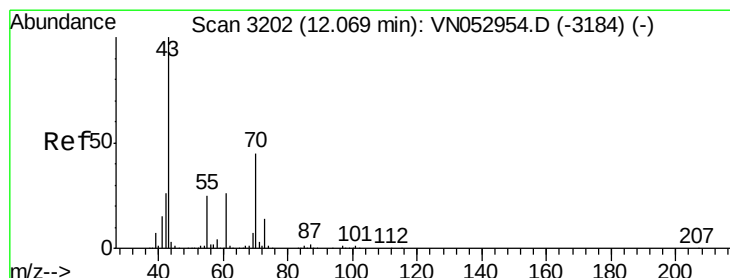
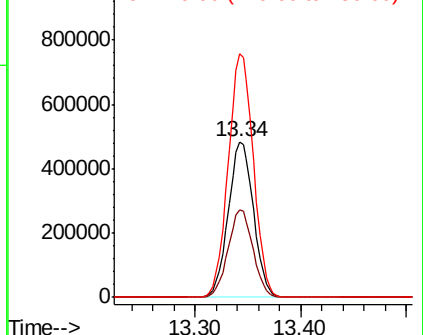
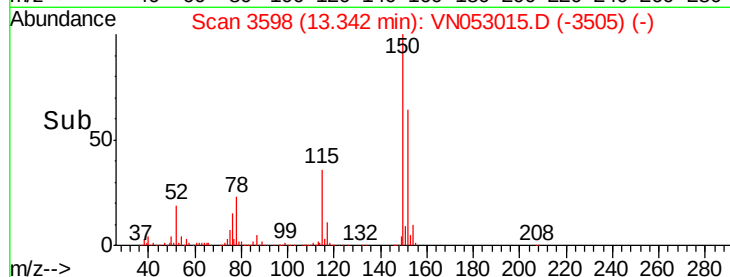


Abundance

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



#74

N-ethyl acetate

Concen: 3.434 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Tgt Ion: 43 Resp: 59161

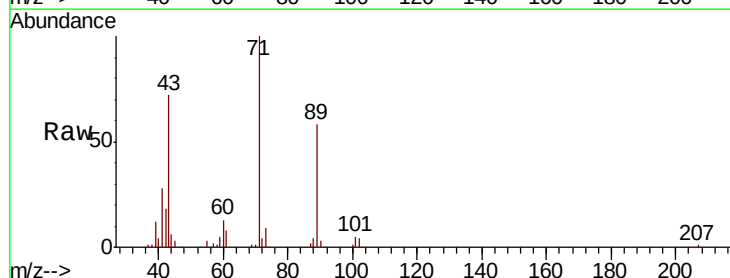
Ion Ratio Lower Upper

43 100

70 1.6 34.2 51.4#

55 4.2 20.3 30.5#

61 10.5 20.0 30.0#



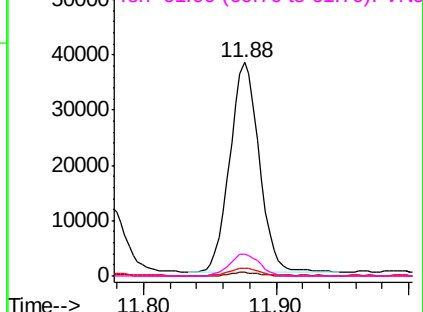
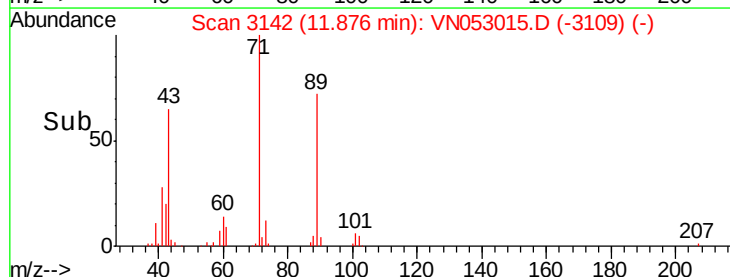
Abundance

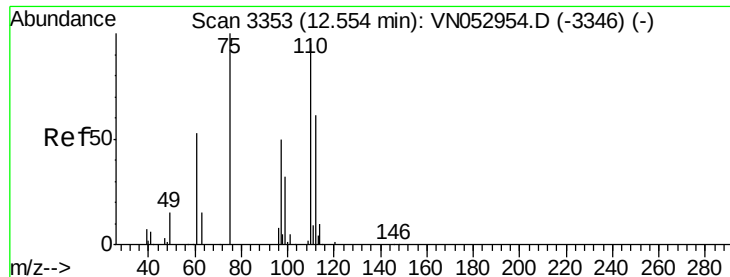
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

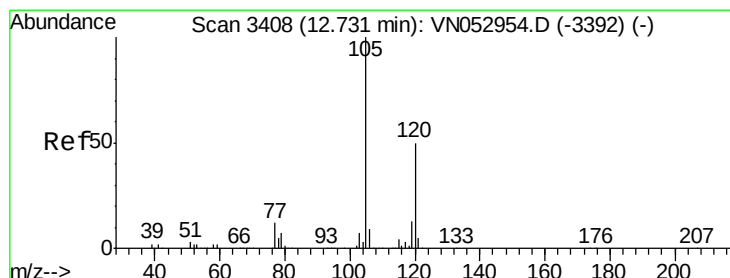
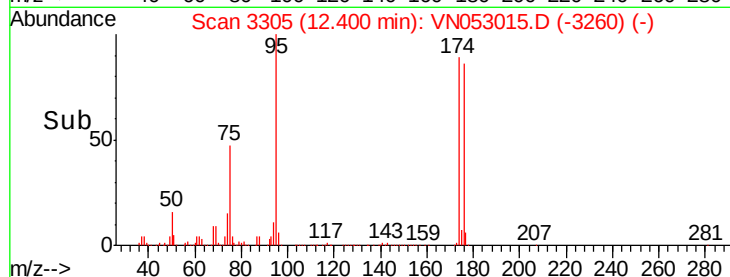
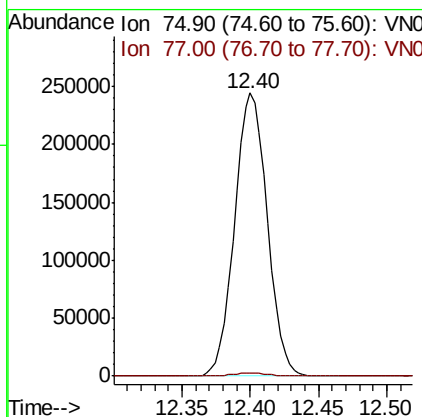
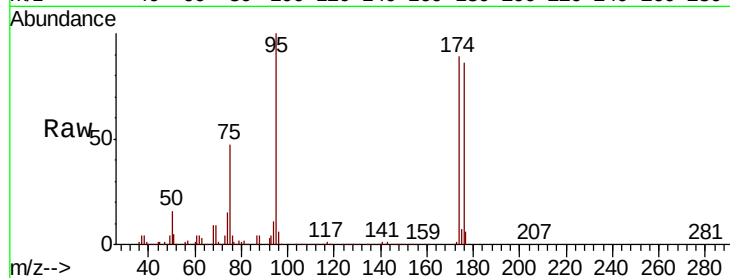




#76
 1,2,3-Trichloropropane
 Concen: 30.344 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN053015.D
 Acq: 19 Dec 2018 17:03

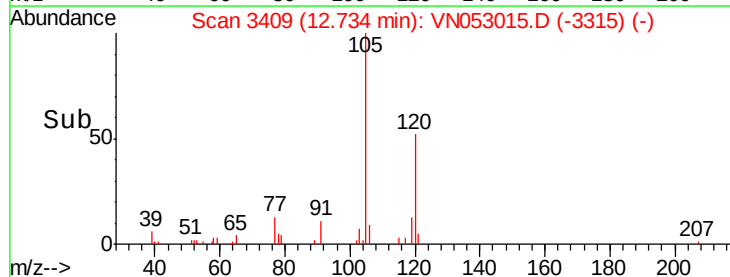
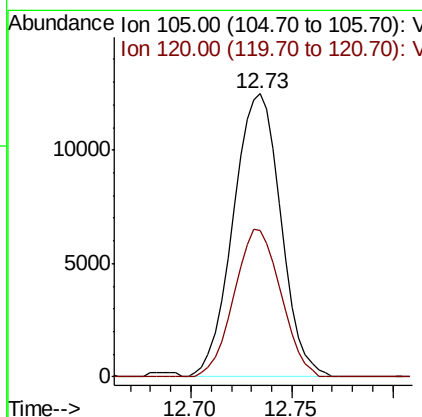
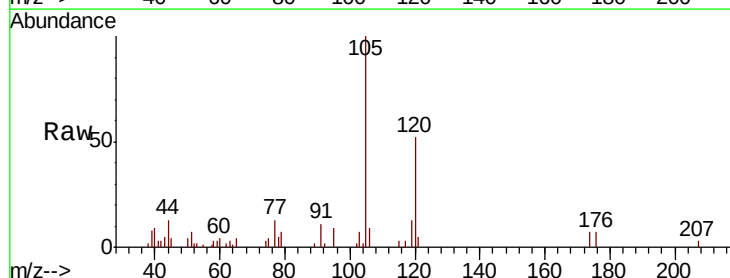
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#05

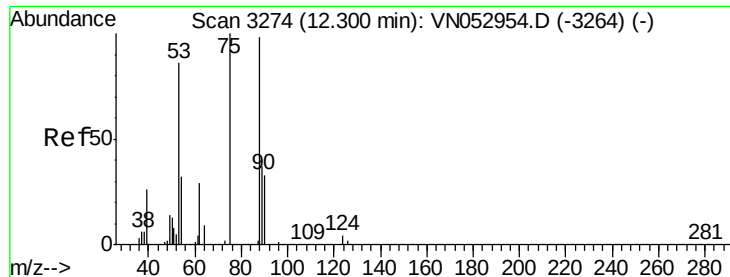
Tot Ion: 75 Resp: 405110
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.409 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053015.D
 Acq: 19 Dec 2018 17:03

Tgt Ion: 105 Resp: 20671
 Ion Ratio Lower Upper
 105 100
 120 51.0 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 97.802 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#05

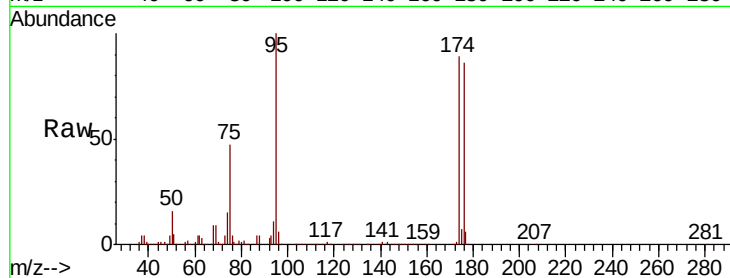
Tot Ion: 75 Resp: 405110

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

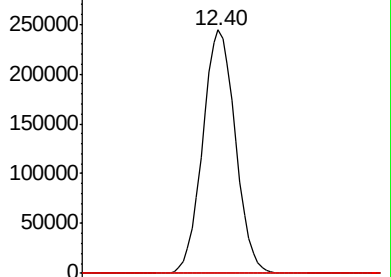
89 0.0 36.1 54.1#



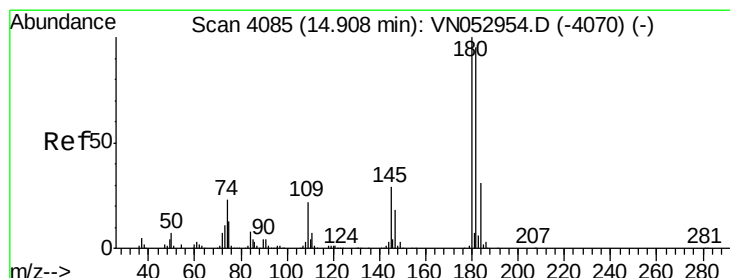
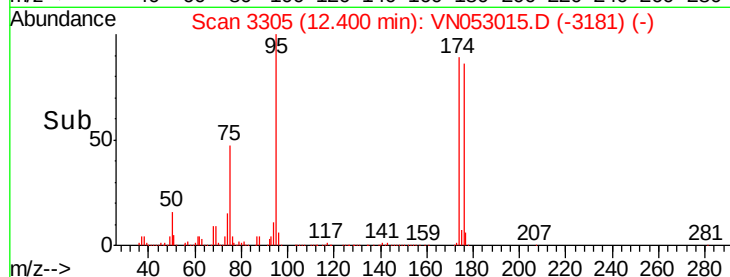
Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052954.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052954.D (-3264) (-)



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.602 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

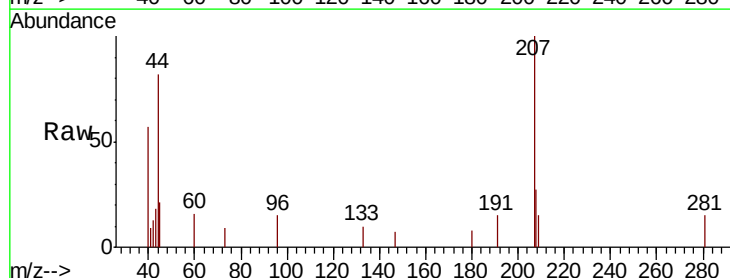
Tgt Ion: 180 Resp: 92

Ion Ratio Lower Upper

180 100

182 109.8 47.8 143.3

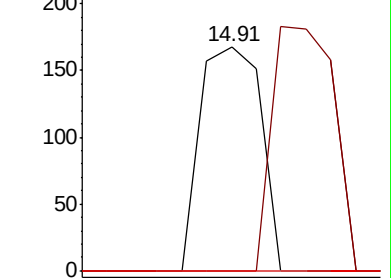
145 0.0 14.2 42.6#



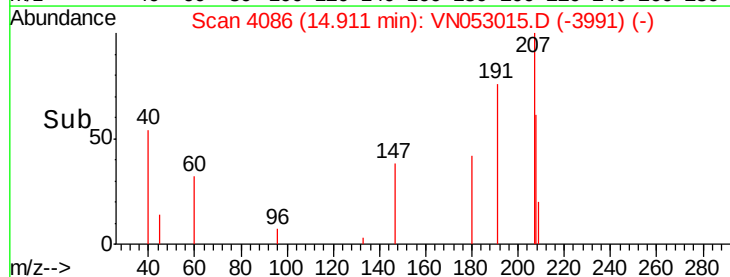
Abundance Ion 179.80 (179.50 to 180.50): VN052954.D (-4070) (-)

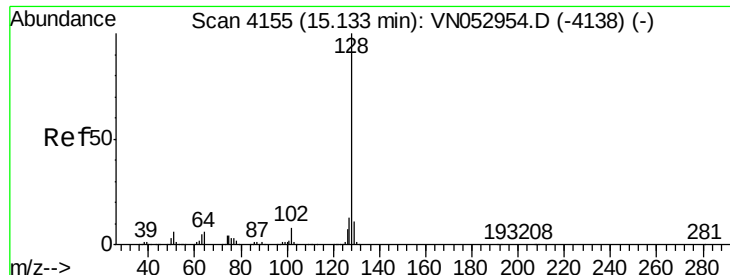
Ion 181.80 (181.50 to 182.50): VN052954.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN052954.D (-4070) (-)



Time-->





#95

Naphthalene

Concen: 1.170 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053015.D

Acq: 19 Dec 2018 17:03

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#05

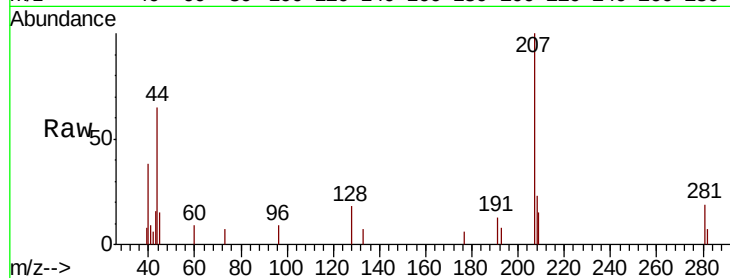
Tot Ion:128 Resp: 753

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

