

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051017.D
 Acq On : 4 Sep 2018 14:17
 Operator : MD\SY
 Sample : PB112553ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#03

Quant Time: Sep 05 01:08:34 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	619048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	995580	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	853974	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	276733	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	395512	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
35) Dibromofluoromethane	7.59	113	378723	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
50) Toluene-d8	10.09	98	1366193	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	
62) 4-Bromofluorobenzene	12.40	95	365027	37.10	ug/l	0.00
Spiked Amount			Recovery	=	74.20%	

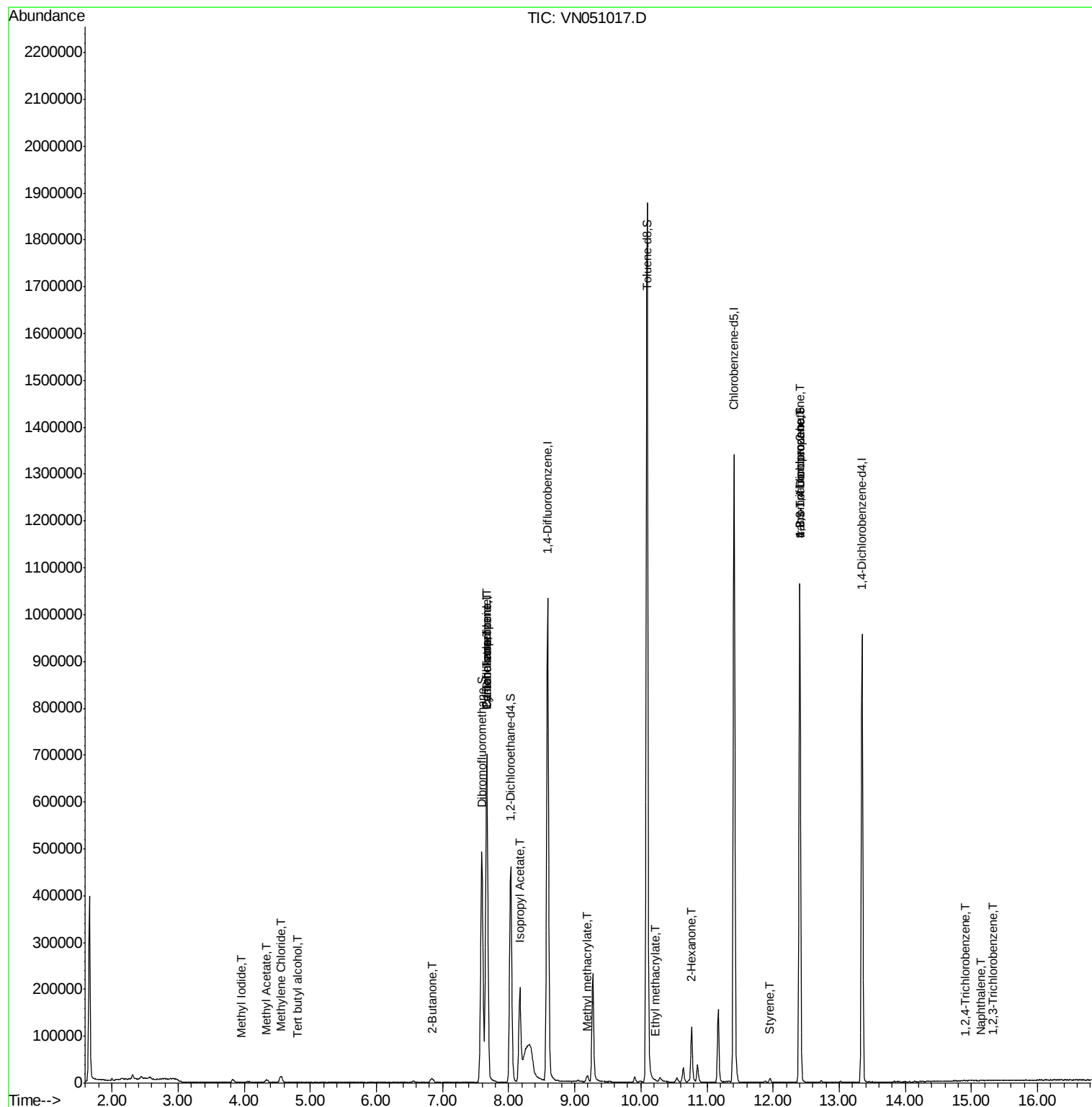
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2221	Below Cal	#	71
10) Methyl Iodide	3.96	142	487	6.40	ug/l #	43
11) Tert butyl alcohol	4.82	59	159	0.34	ug/l #	72
16) Acetone	3.82	43	9960	Below Cal		99
18) Methyl Acetate	4.34	43	11890	1.69	ug/l #	77
20) Methylene Chloride	4.55	84	11360	1.35	ug/l	90
25) 2-Butanone	6.84	43	7449	2.48	ug/l #	88
31) Cyclohexane	7.67	56	10354	1.28	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40151	3.42	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54389	4.58	ug/l #	17
43) Isopropyl Acetate	8.17	43	245581	21.16	ug/l	97
48) Methyl methacrylate	9.18	41	7370	1.25	ug/l #	15
56) Ethyl methacrylate	10.23	69	1855	2.52	ug/l #	54
59) 2-Hexanone	10.77	43	19505	4.23	ug/l #	61
70) Styrene	11.96	104	118	1.28	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.40	83	172	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	169488	34.97	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169488	118.21	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	238	4.12	ug/l #	80
95) Naphthalene	15.15	128	855	5.47	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	123	3.32	ug/l #	29

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

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QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

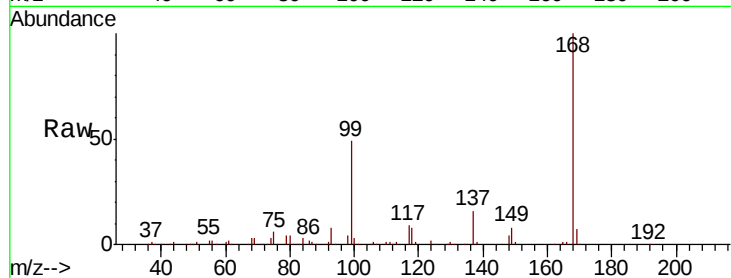
PB112553ZHE#03

Tot Ion:168 Resp: 619048

Ion Ratio Lower Upper

168 100

99 49.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051017.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN051017.D (-1797) (-)

7.67

250000

200000

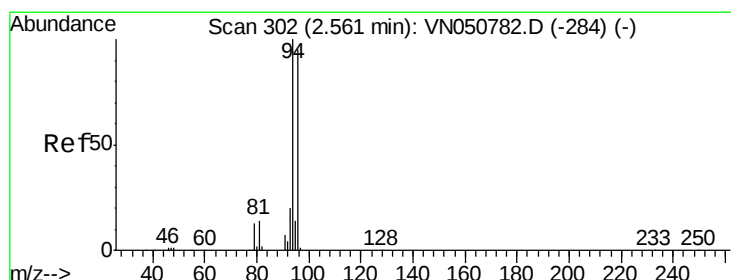
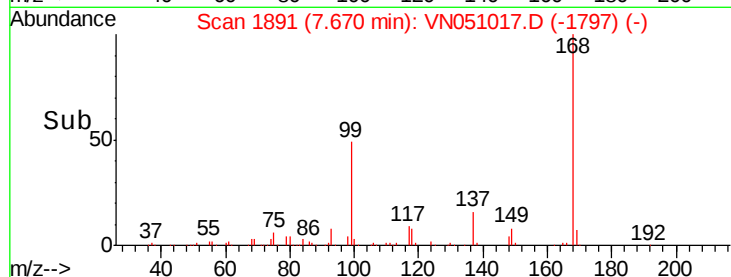
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN051017.D

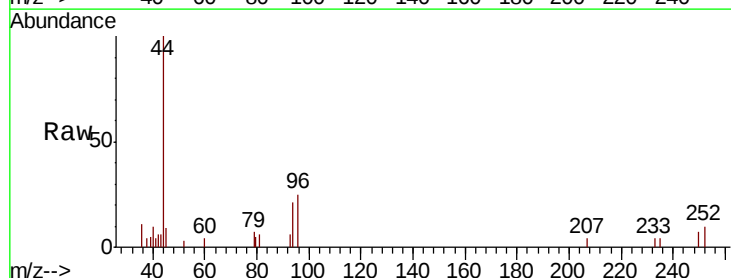
Acq: 4 Sep 2018 14:17

Tgt Ion: 94 Resp: 2221

Ion Ratio Lower Upper

94 100

96 123.0 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN051017.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN051017.D (-209) (-)

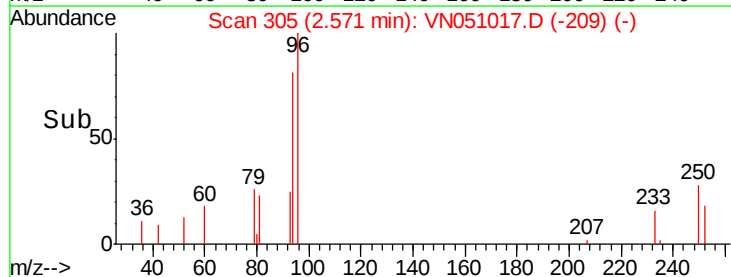
2.57

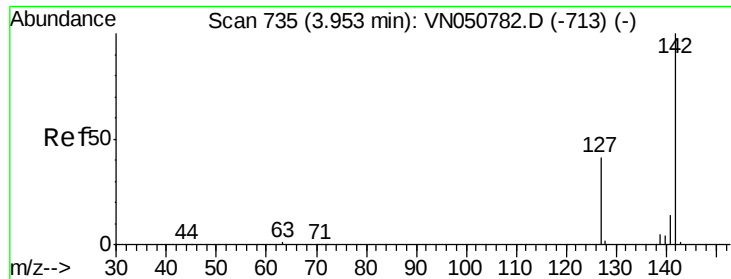
1000

500

0

Time-->

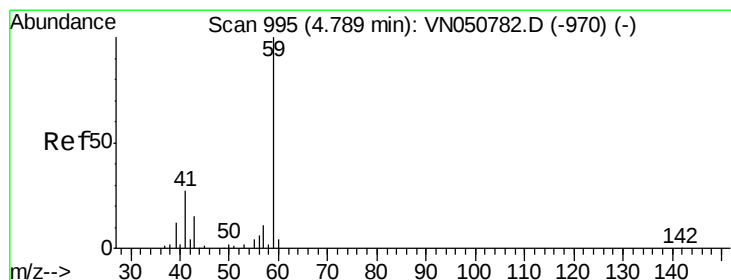
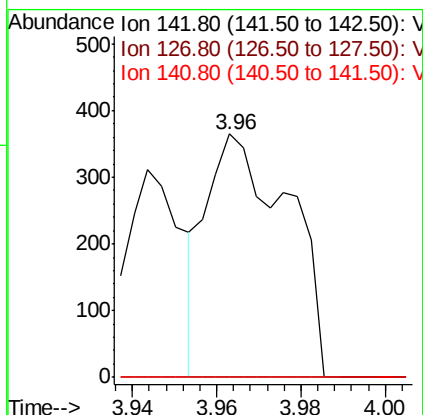
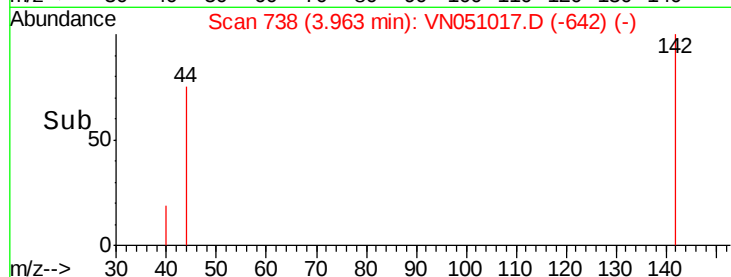
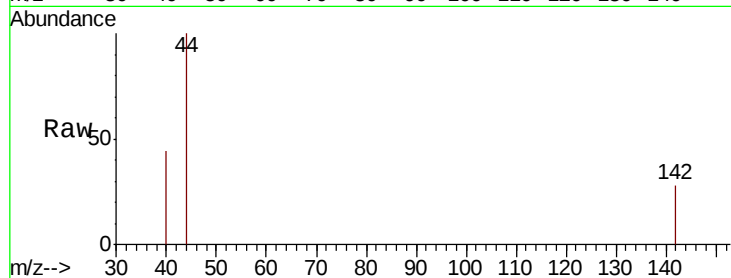




#10
Methvl Iodide
Concen: 6.40 ug/l
RT: 3.96 min Scan# 738
Delta R.T. 0.01 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

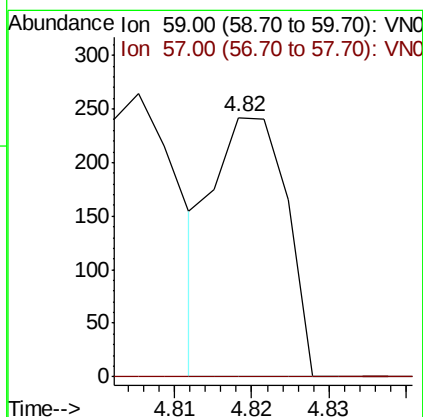
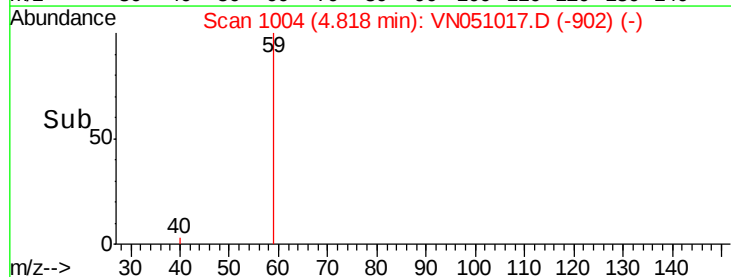
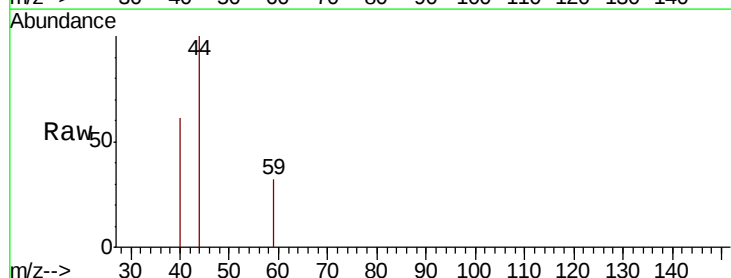
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#03

Tot Ion:142 Resp: 487
Ion Ratio Lower Upper
142 100
127 0.0 31.7 47.5#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.34 ug/l
RT: 4.82 min Scan# 1004
Delta R.T. 0.03 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

Tgt Ion: 59 Resp: 159
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

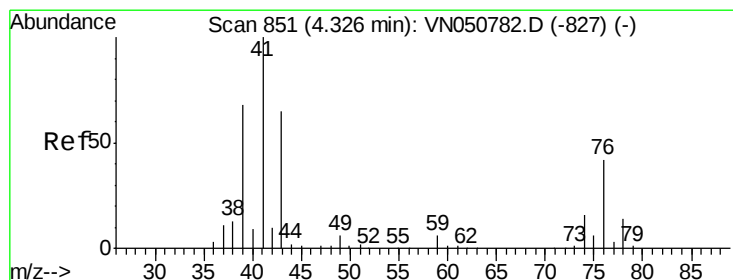
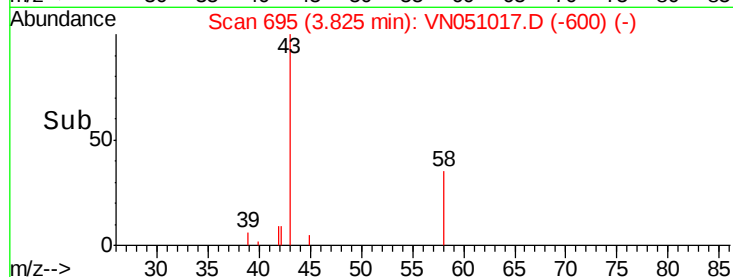
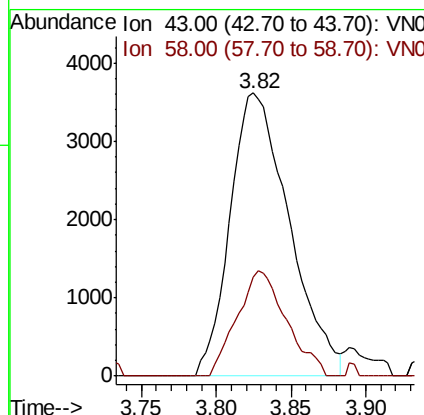
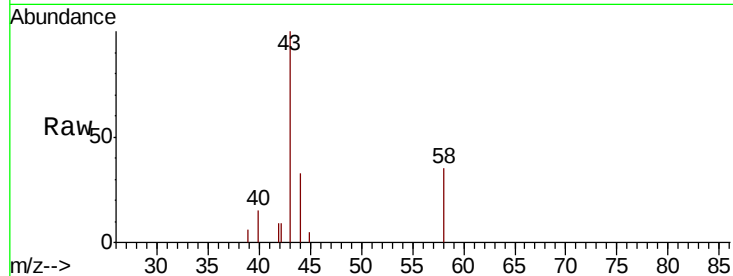




#16
 Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

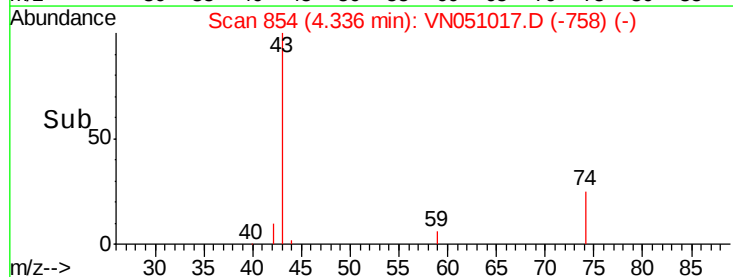
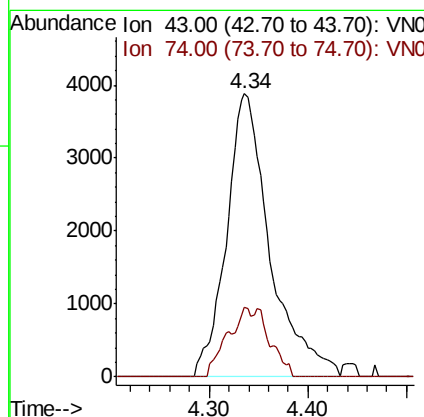
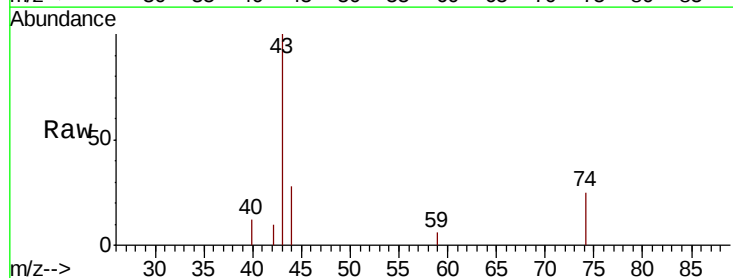
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#03

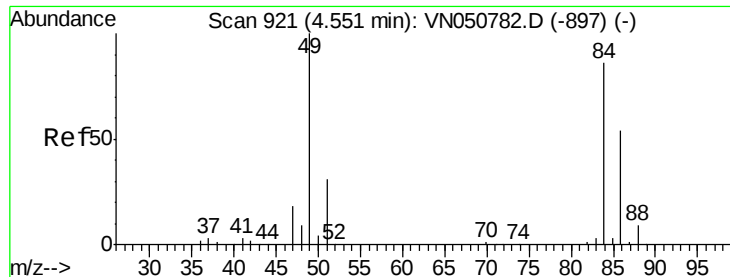
Tot Ion: 43 Resp: 9960
 Ion Ratio Lower Upper
 43 100
 58 34.8 27.2 40.8



#18
 Methyl Acetate
 Concen: 1.69 ug/l
 RT: 4.34 min Scan# 854
 Delta R.T. 0.01 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

Tgt Ion: 43 Resp: 11890
 Ion Ratio Lower Upper
 43 100
 74 13.4 19.8 29.8#

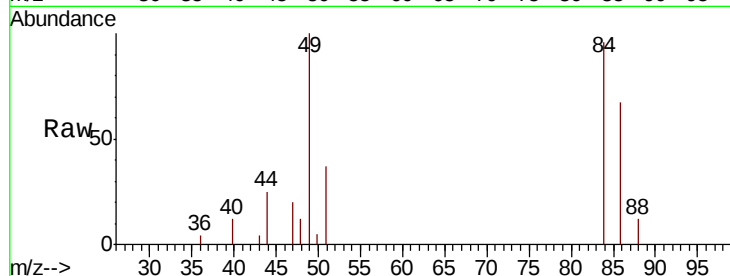




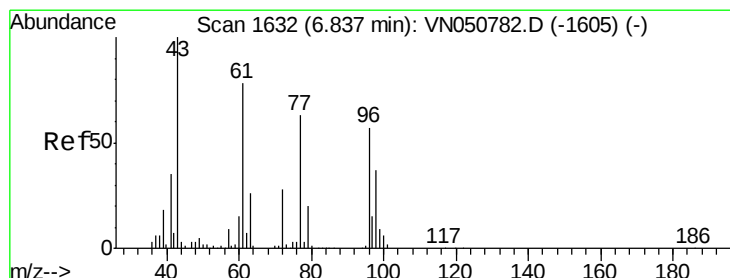
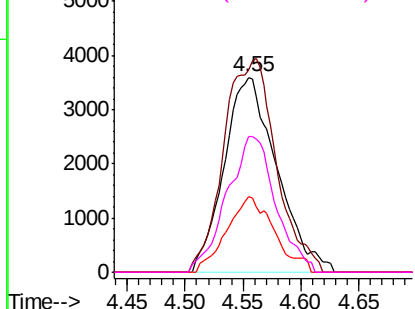
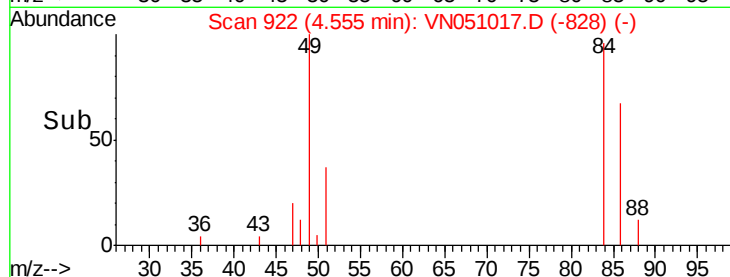
#20
Methvlene Chloride
Concen: 1.35 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#03

Tot Ion: 84 Resp: 11360
Ion Ratio Lower Upper
84 100
49 103.7 93.2 139.8
51 38.5 29.0 43.6
86 69.5 49.8 74.8

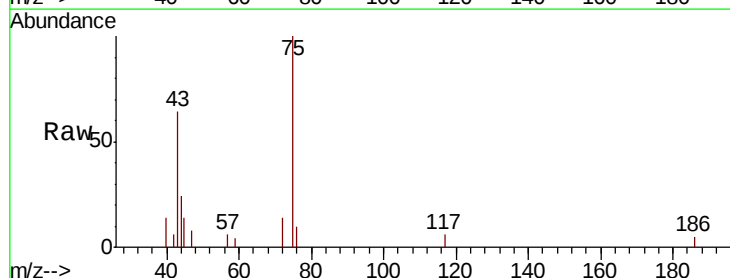


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

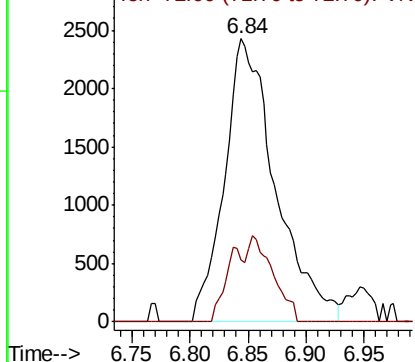
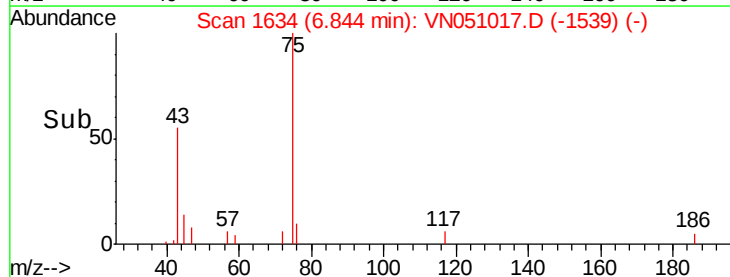


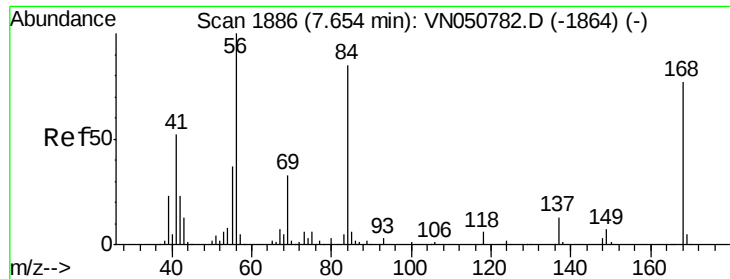
#25
2-Butanone
Concen: 2.48 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

Tgt Ion: 43 Resp: 7449
Ion Ratio Lower Upper
43 100
72 21.8 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC

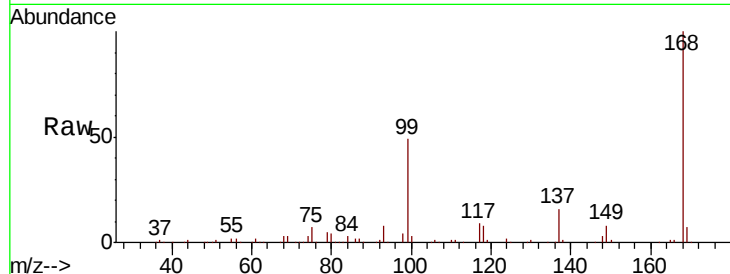




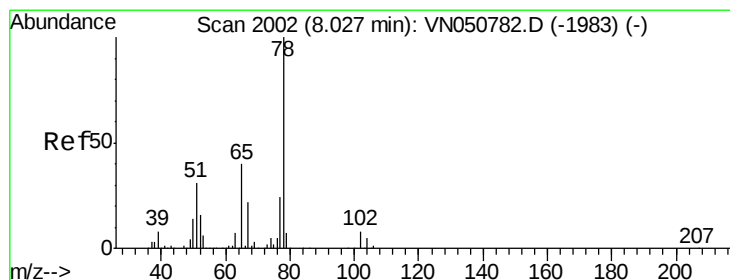
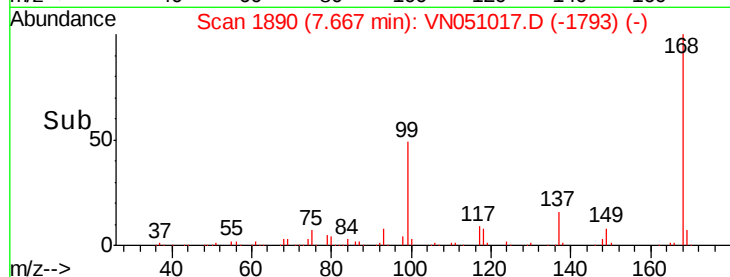
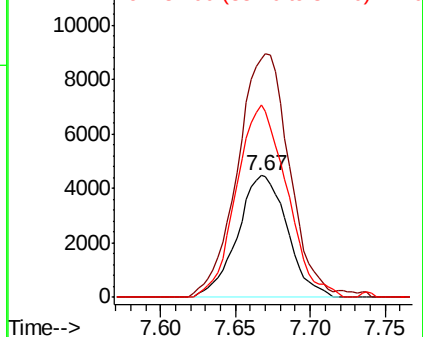
#31
Cyclohexane
Concen: 1.28 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#03

Tot Ion: 56 Resp: 10354
Ion Ratio Lower Upper
56 100
69 195.8 26.2 39.4#
84 157.9 68.3 102.5#

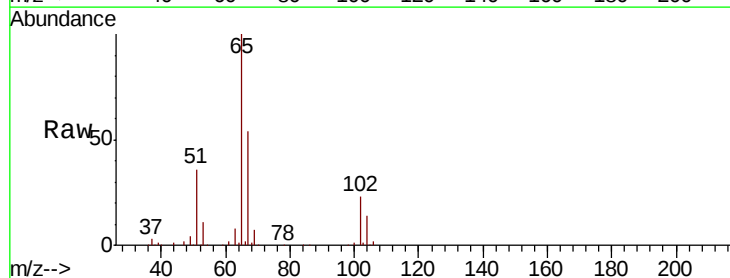


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

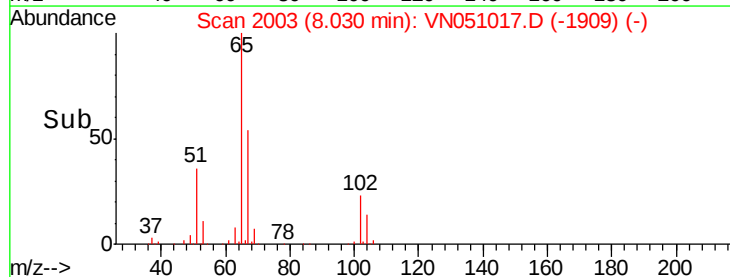
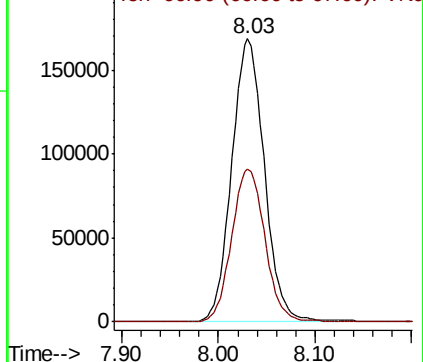


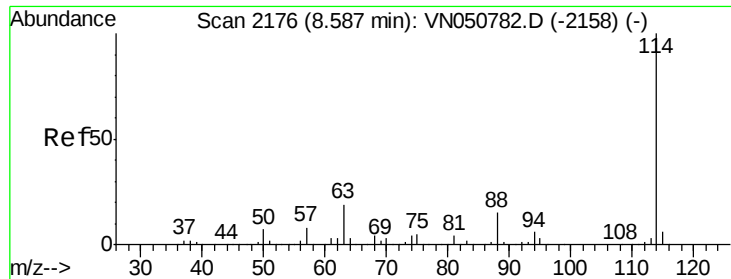
#33
1,2-Dichloroethane-d4
Concen: 53.07 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

Tgt Ion: 65 Resp: 395512
Ion Ratio Lower Upper
65 100
67 55.3 0.0 110.4



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

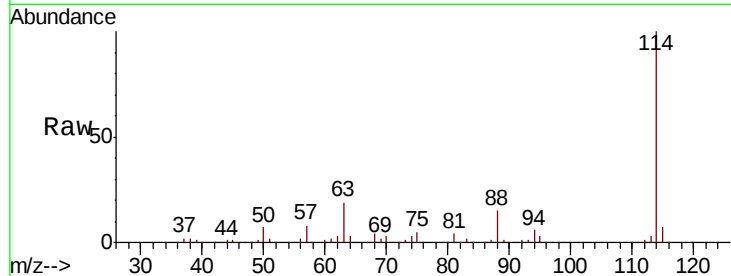




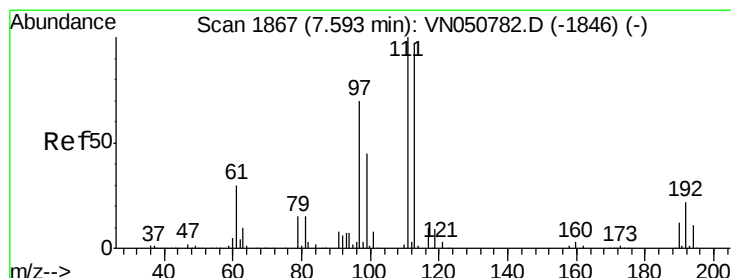
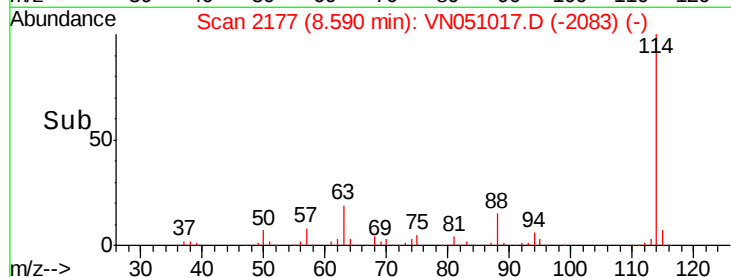
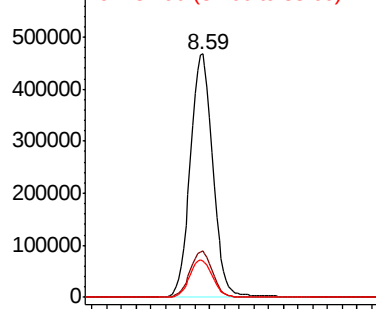
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

Instrument :
 MSVOA_N
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 PB112553ZHE#03

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.6
88	15.1	0.0	30.6

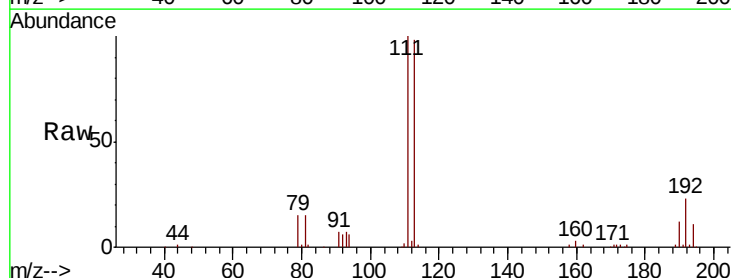


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 87.90 (87.60 to 88.60): VNO

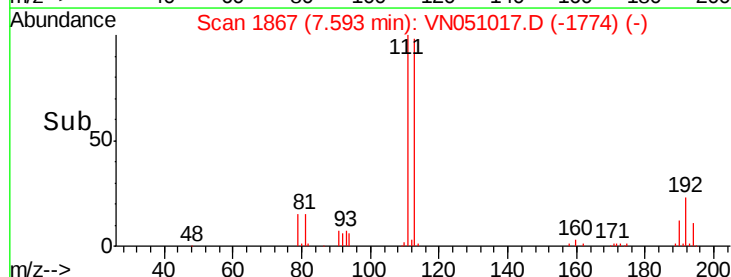
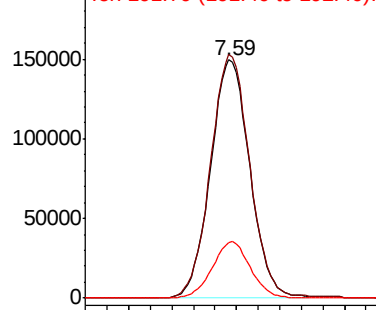


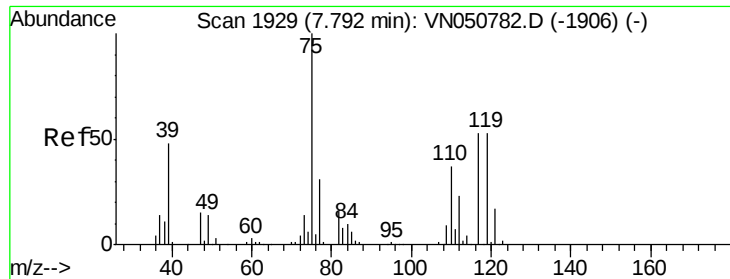
#35
 Dibromofluoromethane
 Concen: 47.82 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	123.8
192	23.0	18.0	27.0



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

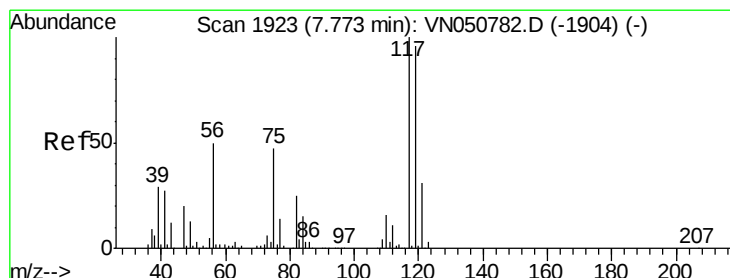
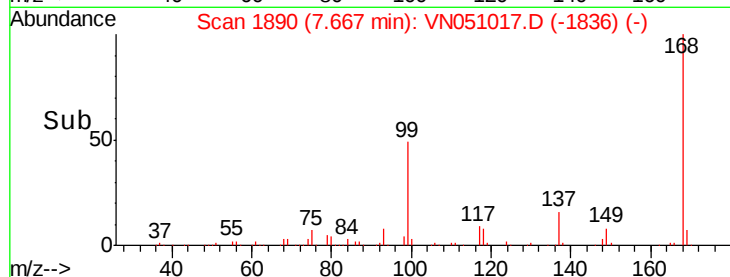
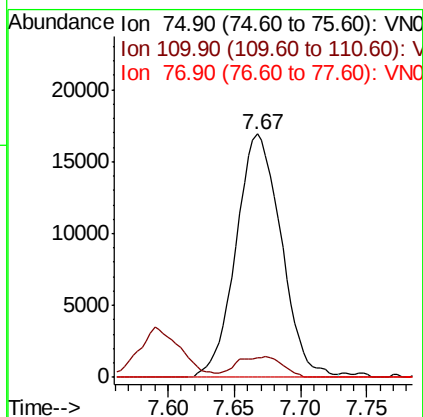
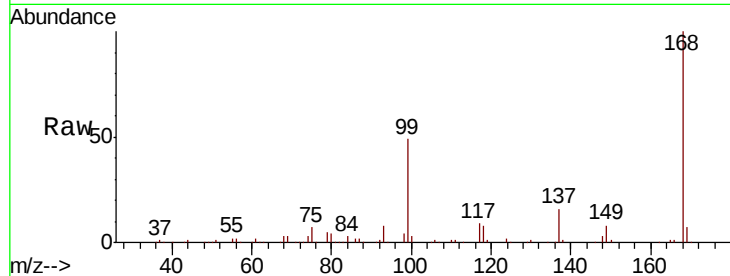




#36
 1,1-Dichloropropene
 Concen: 3.42 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

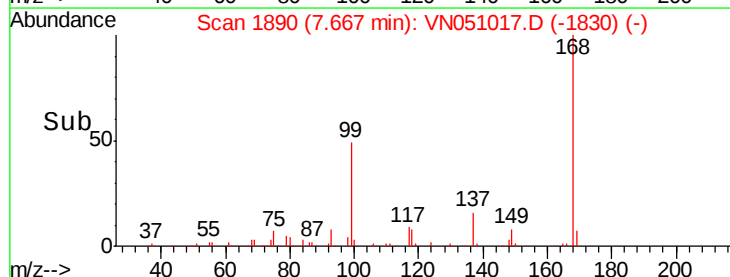
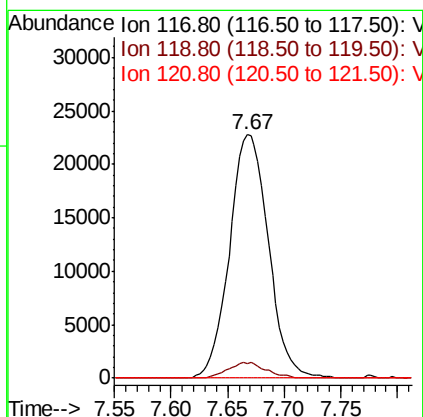
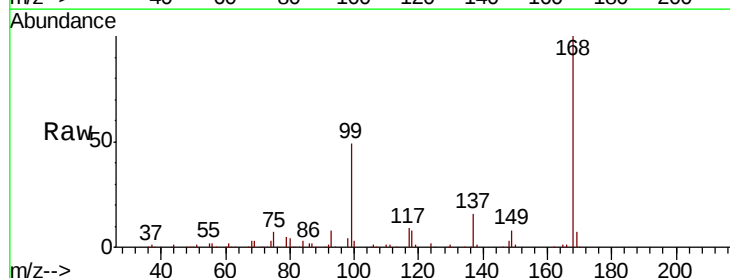
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 MSVOA_N
 ClientSampleId :
 PB112553ZHE#03

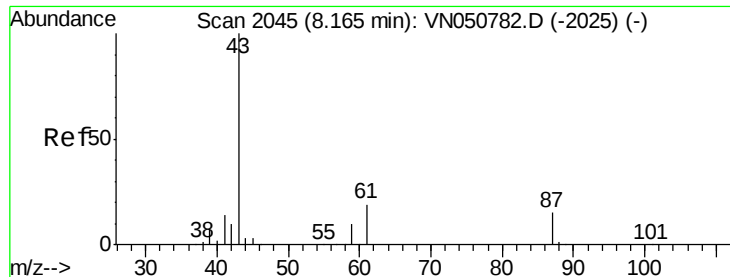
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.58 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 21.16 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#03

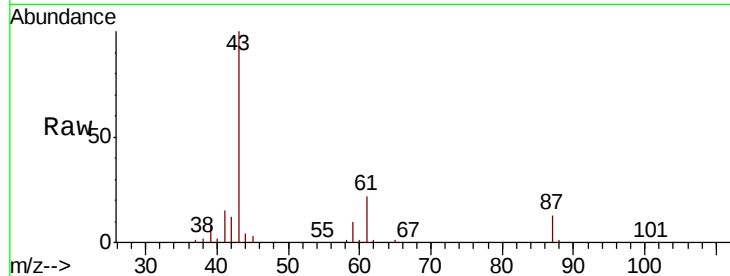
Tot Ion: 43 Resp: 245581

Ion Ratio Lower Upper

43 100

61 20.4 17.5 26.3

87 12.9 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

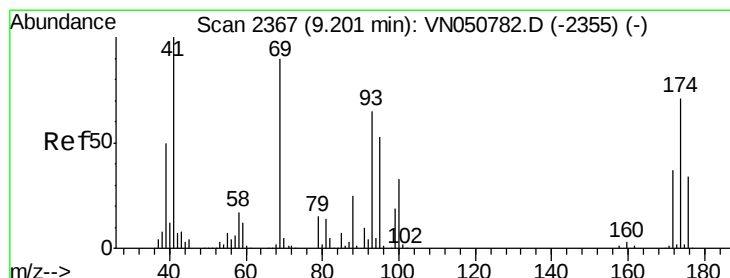
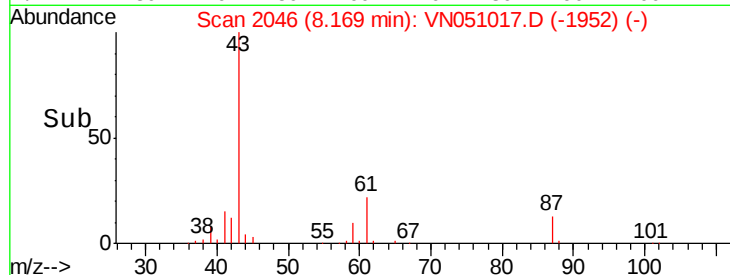
8.17

100000

50000

0

Time-->



#48

Methyl methacrylate

Concen: 1.25 ug/l

RT: 9.18 min Scan# 2360

Delta R.T. -0.02 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

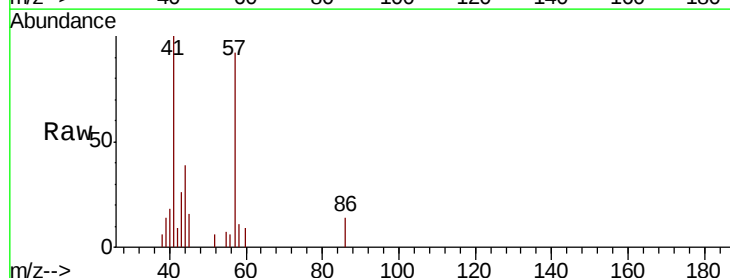
Tgt Ion: 41 Resp: 7370

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 7.8 42.2 63.2#



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

9.18

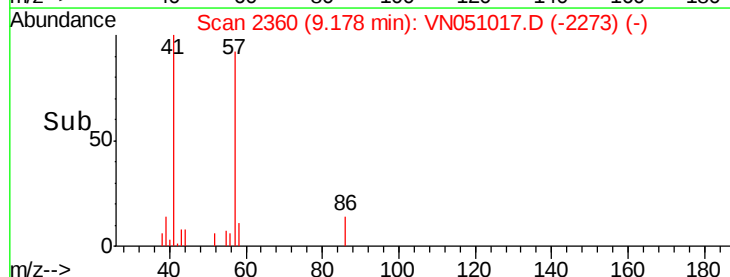
15000

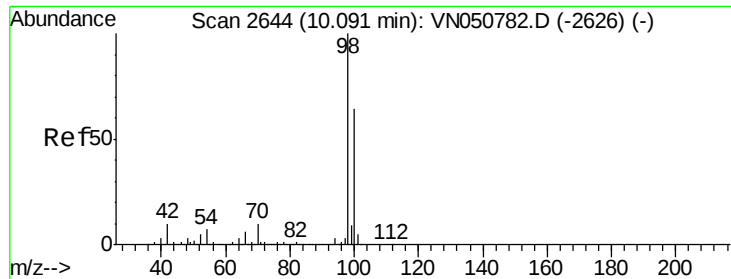
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 46.14 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

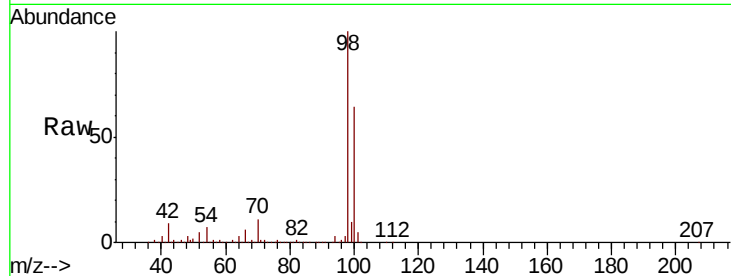
PB112553ZHE#03

Tot Ion: 98 Resp: 1366193

Ion Ratio Lower Upper

98 100

100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

800000

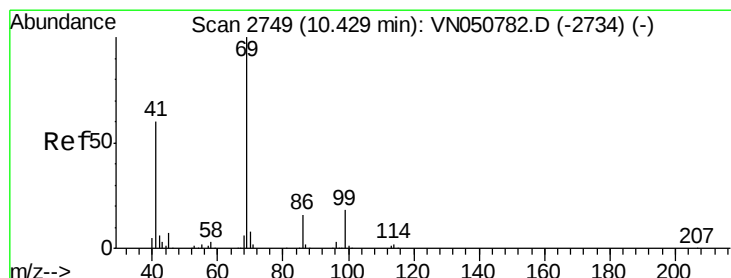
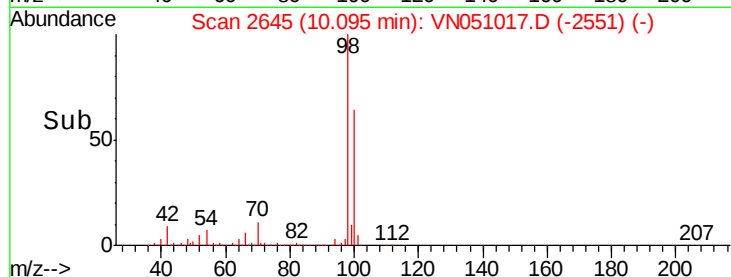
600000

400000

200000

0

Time-->



#56

Ethyl methacrylate

Concen: 2.52 ug/l

RT: 10.23 min Scan# 2688

Delta R.T. -0.20 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

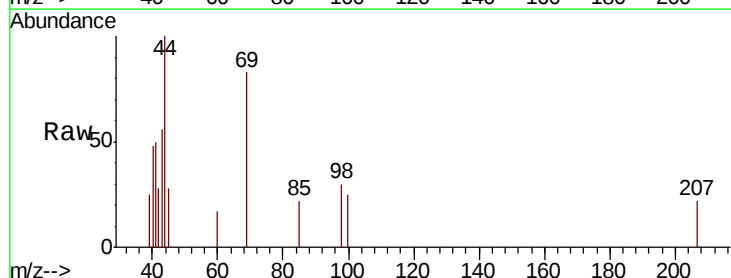
Tgt Ion: 69 Resp: 1855

Ion Ratio Lower Upper

69 100

41 29.4 48.3 72.5#

39 0.0 24.0 36.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

1000

800

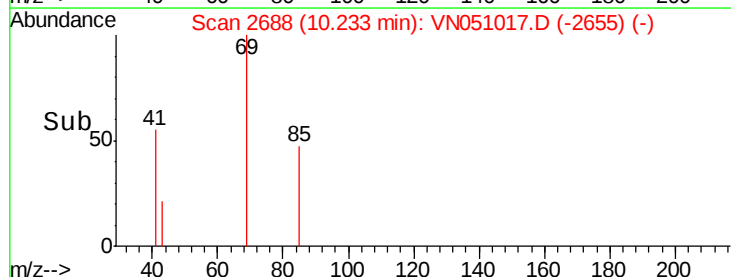
600

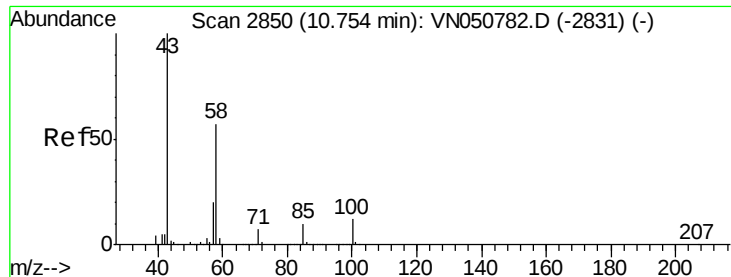
400

200

0

Time-->





#59

2-Hexanone

Concen: 4.23 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

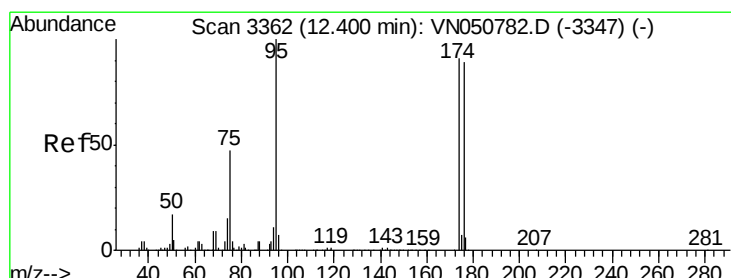
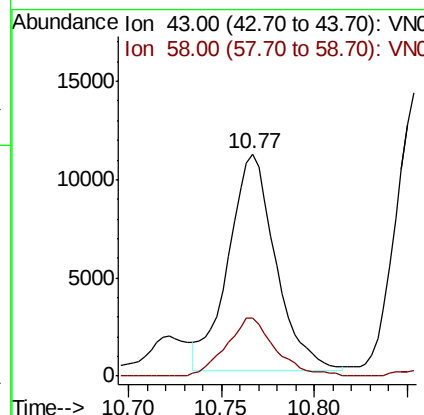
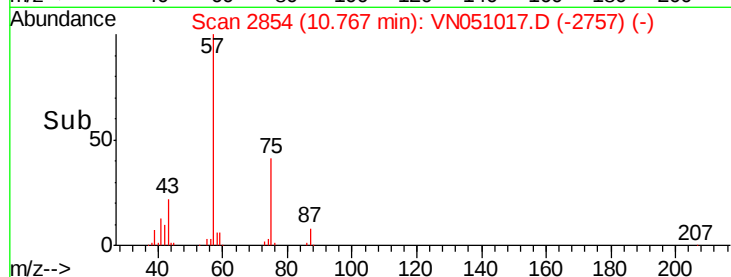
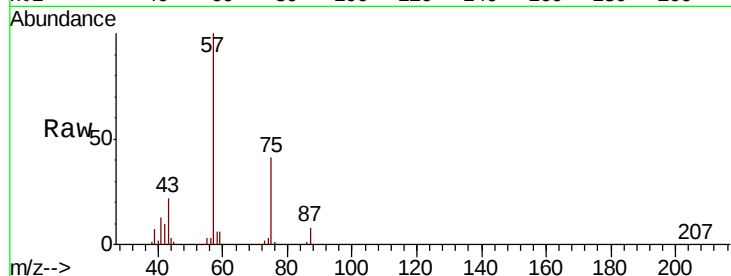
PB112553ZHE#03

Tot Ion: 43 Resp: 19505

Ion Ratio Lower Upper

43 100

58 27.9 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 37.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

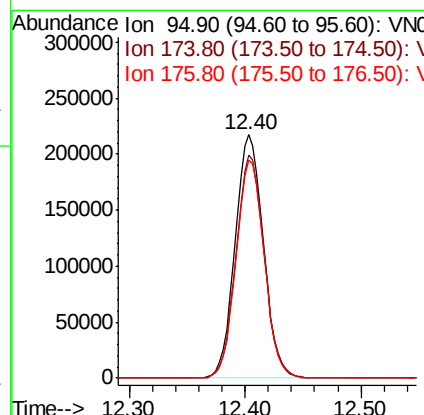
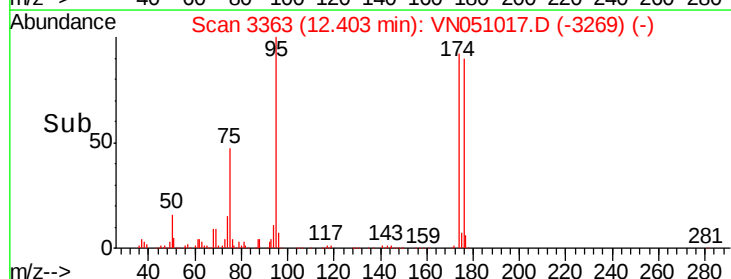
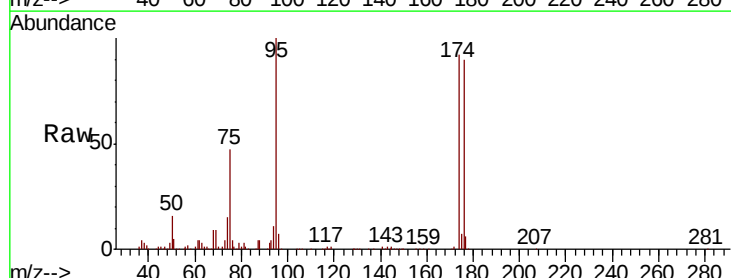
Tgt Ion: 95 Resp: 365027

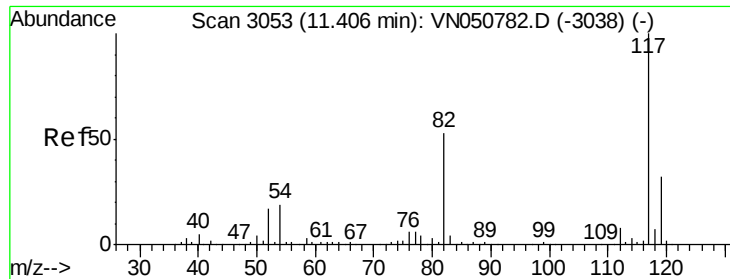
Ion Ratio Lower Upper

95 100

174 91.3 0.0 183.0

176 89.6 0.0 178.8

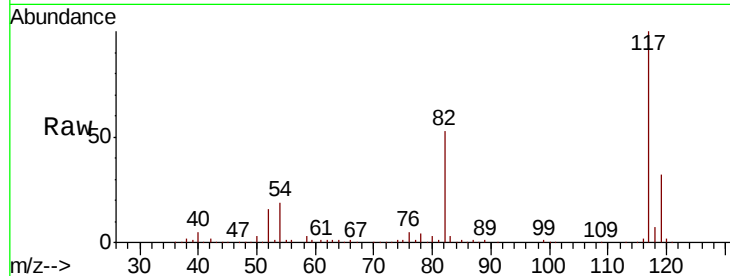




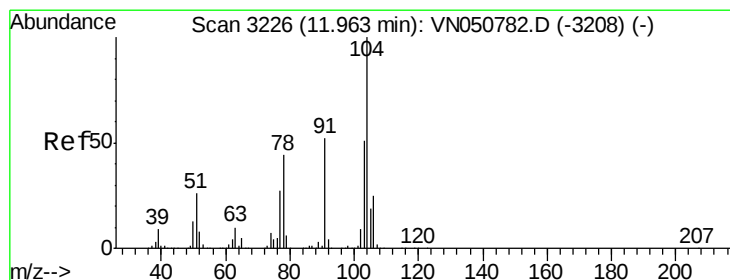
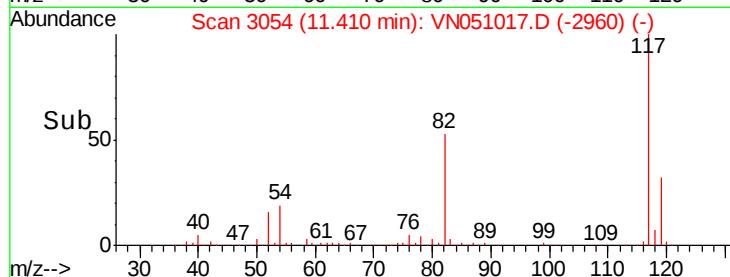
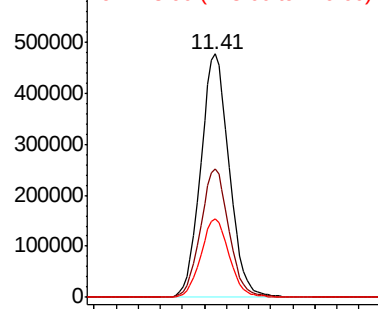
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#03

Tot Ion:117 Resp: 853974
Ion Ratio Lower Upper
117 100
82 52.9 42.6 64.0
119 32.3 25.8 38.6

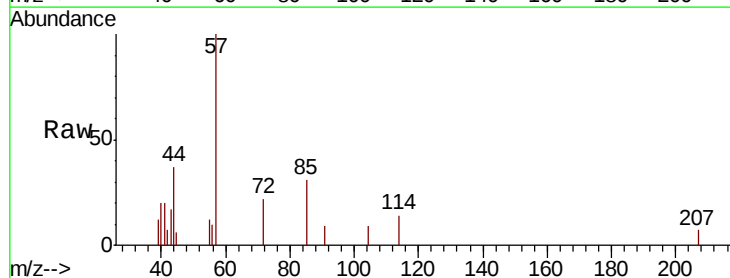


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

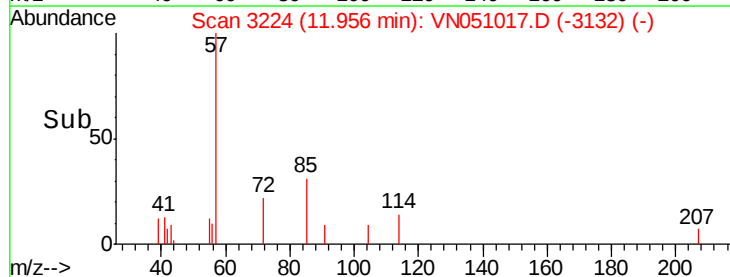
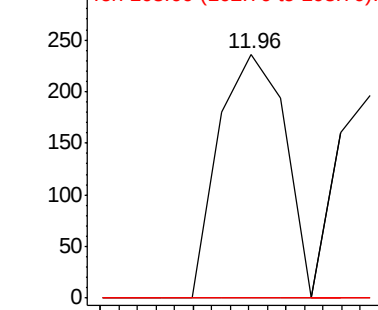


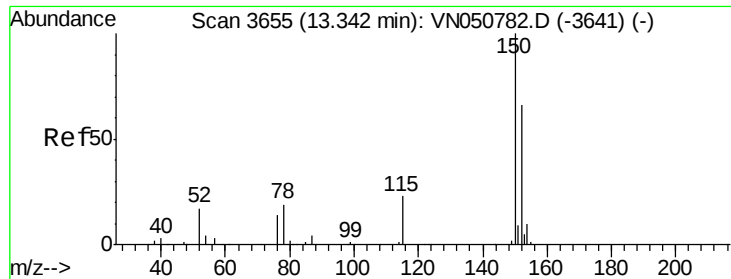
#70
Styrene
Concen: 1.28 ug/l
RT: 11.96 min Scan# 3224
Delta R.T. -0.01 min
Lab File: VN051017.D
Acq: 4 Sep 2018 14:17

Tgt Ion:104 Resp: 118
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): 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: VN051017.D

Acq: 4 Sep 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#03

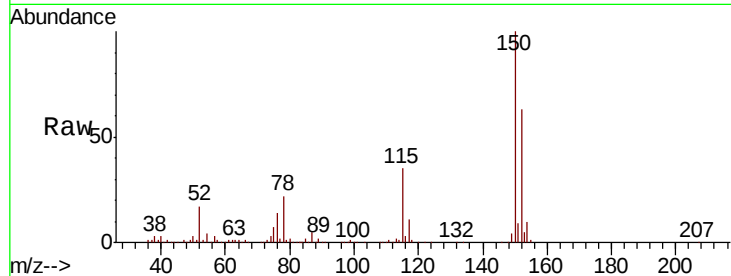
Tot Ion:152 Resp: 276733

Ion Ratio Lower Upper

152 100

115 54.7 27.8 83.4

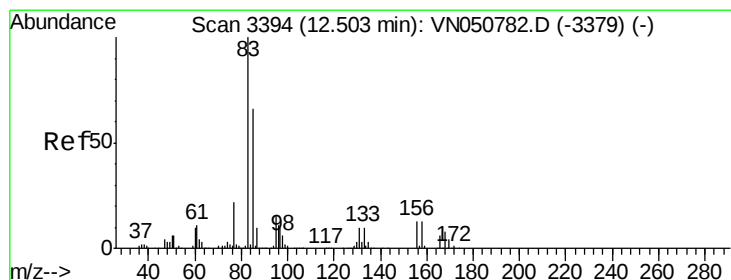
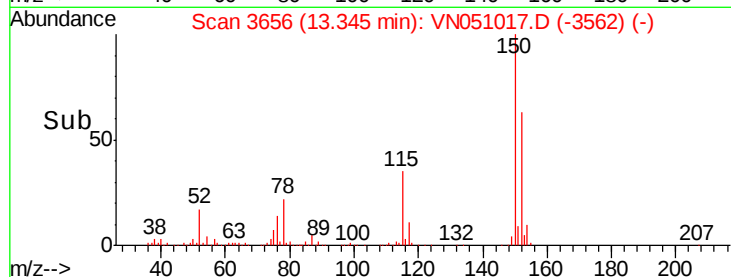
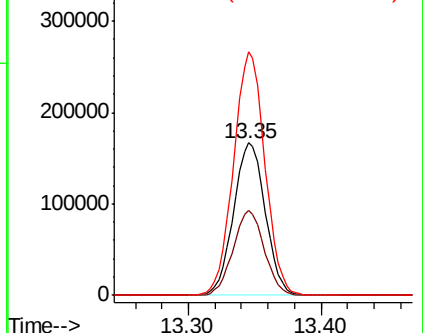
150 157.7 0.0 351.4



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: 12.40 min Scan# 3362

Delta R.T. -0.10 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

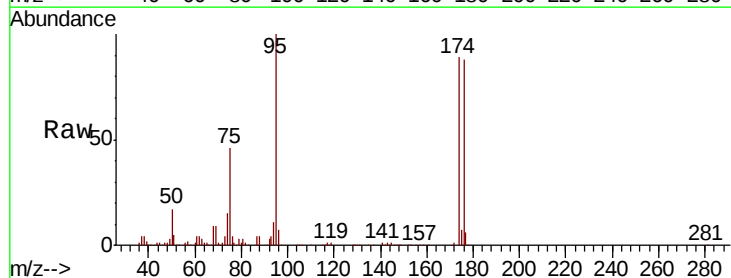
Tgt Ion: 83 Resp: 172

Ion Ratio Lower Upper

83 100

131 284.3 5.3 15.9#

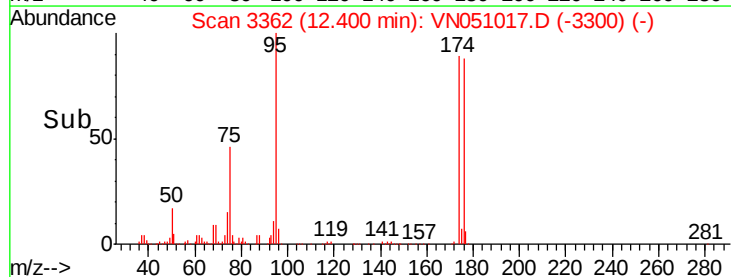
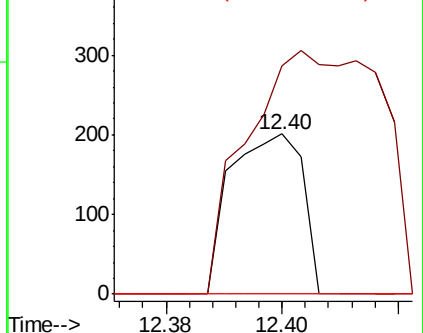
85 0.0 31.9 95.7#

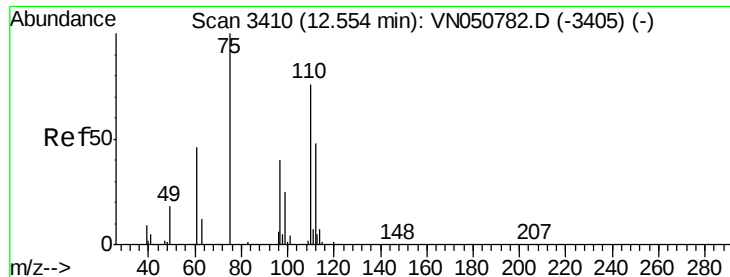


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 34.97 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

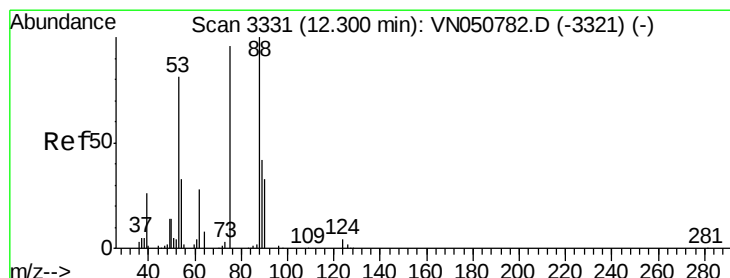
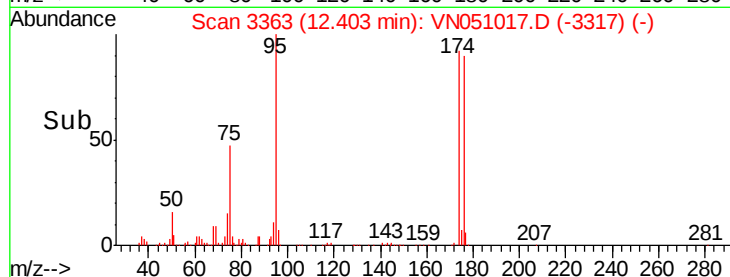
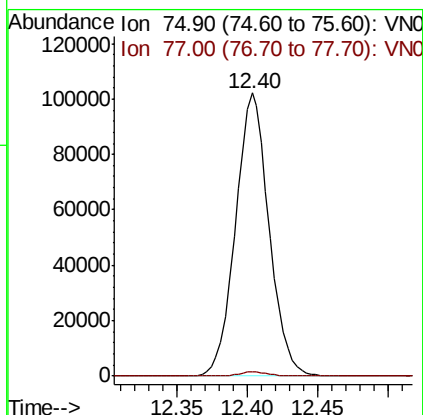
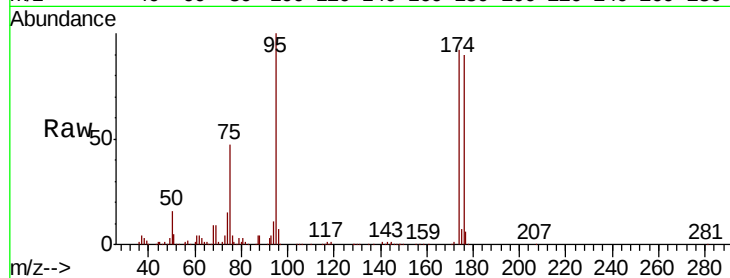
PB112553ZHE#03

Tot Ion: 75 Resp: 169488

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 118.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

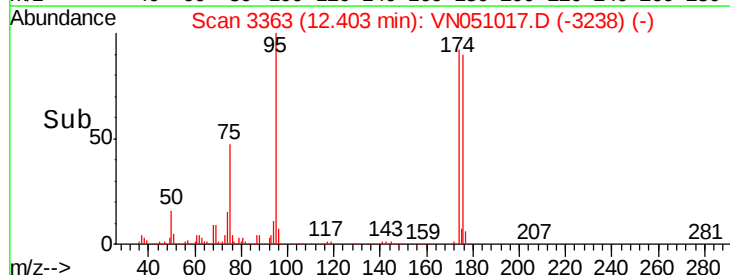
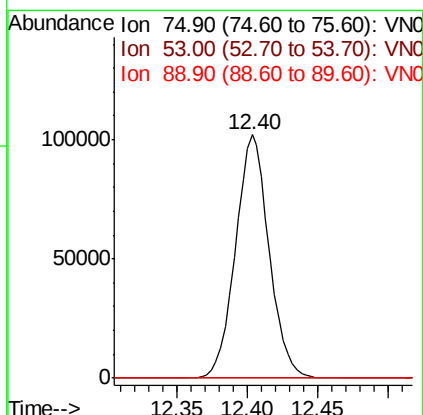
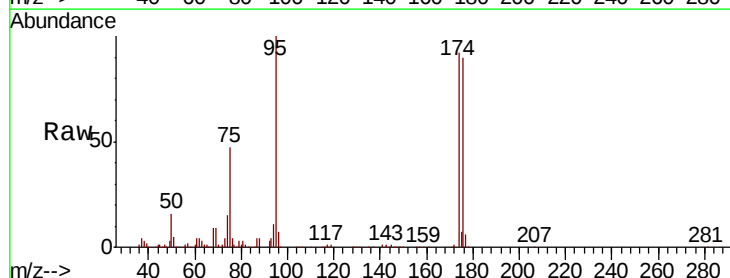
Tgt Ion: 75 Resp: 169488

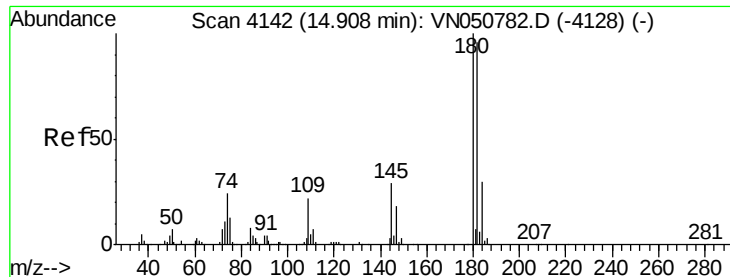
Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

89 0.0 36.1 54.1#

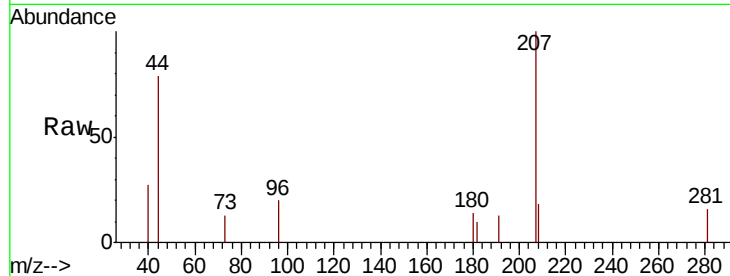




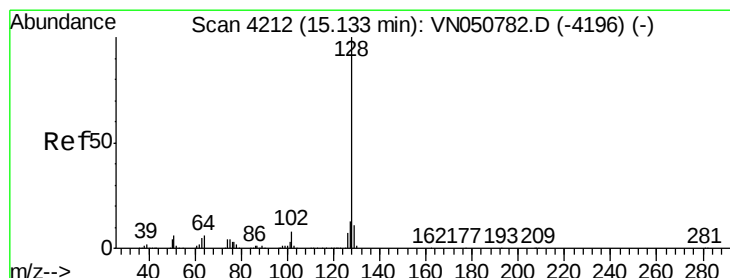
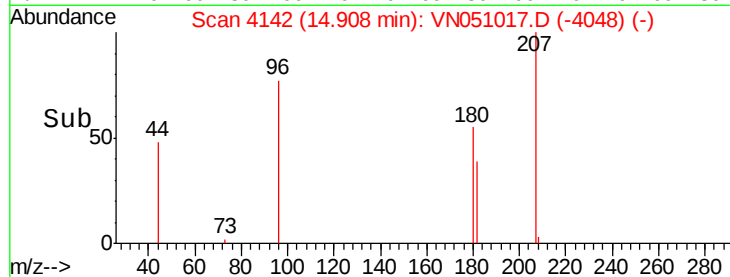
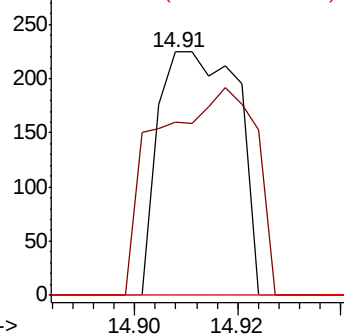
#93
 1,2,4-Trichlorobenzene
 Concen: 4.12 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. 0.00 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#03

Tot Ion:180 Resp: 238
 Ion Ratio Lower Upper
 180 100
 182 106.7 48.2 144.6
 145 0.0 14.1 42.2#

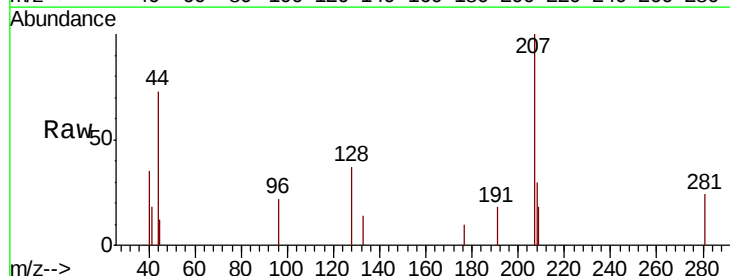


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

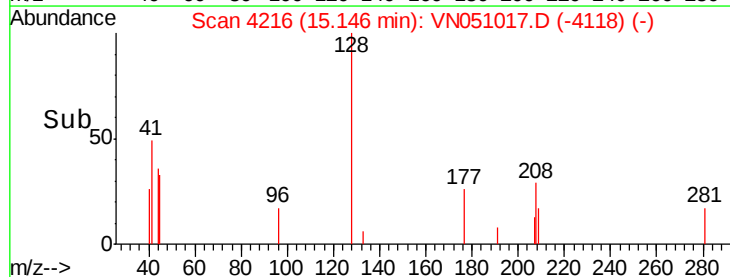
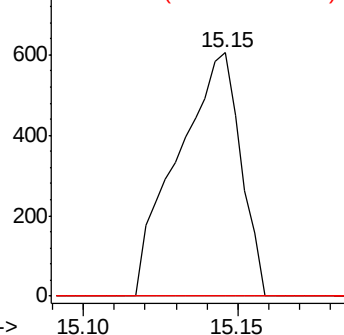


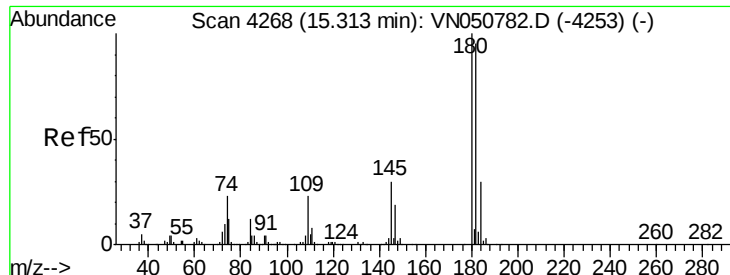
#95
 Naphthalene
 Concen: 5.47 ug/l
 RT: 15.15 min Scan# 4216
 Delta R.T. 0.01 min
 Lab File: VN051017.D
 Acq: 4 Sep 2018 14:17

Tgt Ion:128 Resp: 855
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.7 13.1#



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: 3.32 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN051017.D

Acq: 4 Sep 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#03

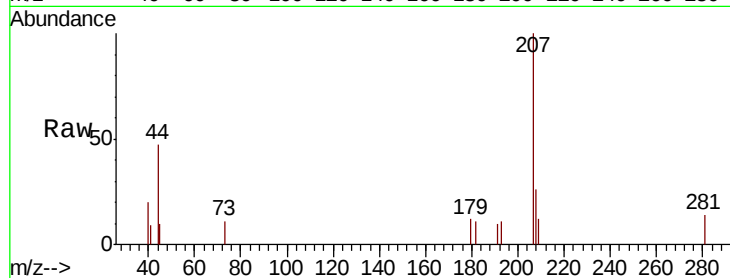
Tot Ion:180 Resp: 123

Ion Ratio Lower Upper

180 100

182 169.9 48.0 144.2#

145 0.0 15.2 45.6#



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

