

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051988.D
 Acq On : 24 Oct 2018 15:20
 Operator : MD\SY
 Sample : PB114120ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#04

Quant Time: Oct 25 01:47:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1084913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1577853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1460436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	642371	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	568253	58.81	ug/l	0.00
Spiked Amount			Recovery	=	117.62%	
35) Dibromofluoromethane	7.59	113	589827	58.58	ug/l	0.00
Spiked Amount			Recovery	=	117.16%	
50) Toluene-d8	10.09	98	2161242	59.40	ug/l	0.00
Spiked Amount			Recovery	=	118.80%	
62) 4-Bromofluorobenzene	12.40	95	665857	53.24	ug/l	0.00
Spiked Amount			Recovery	=	106.48%	

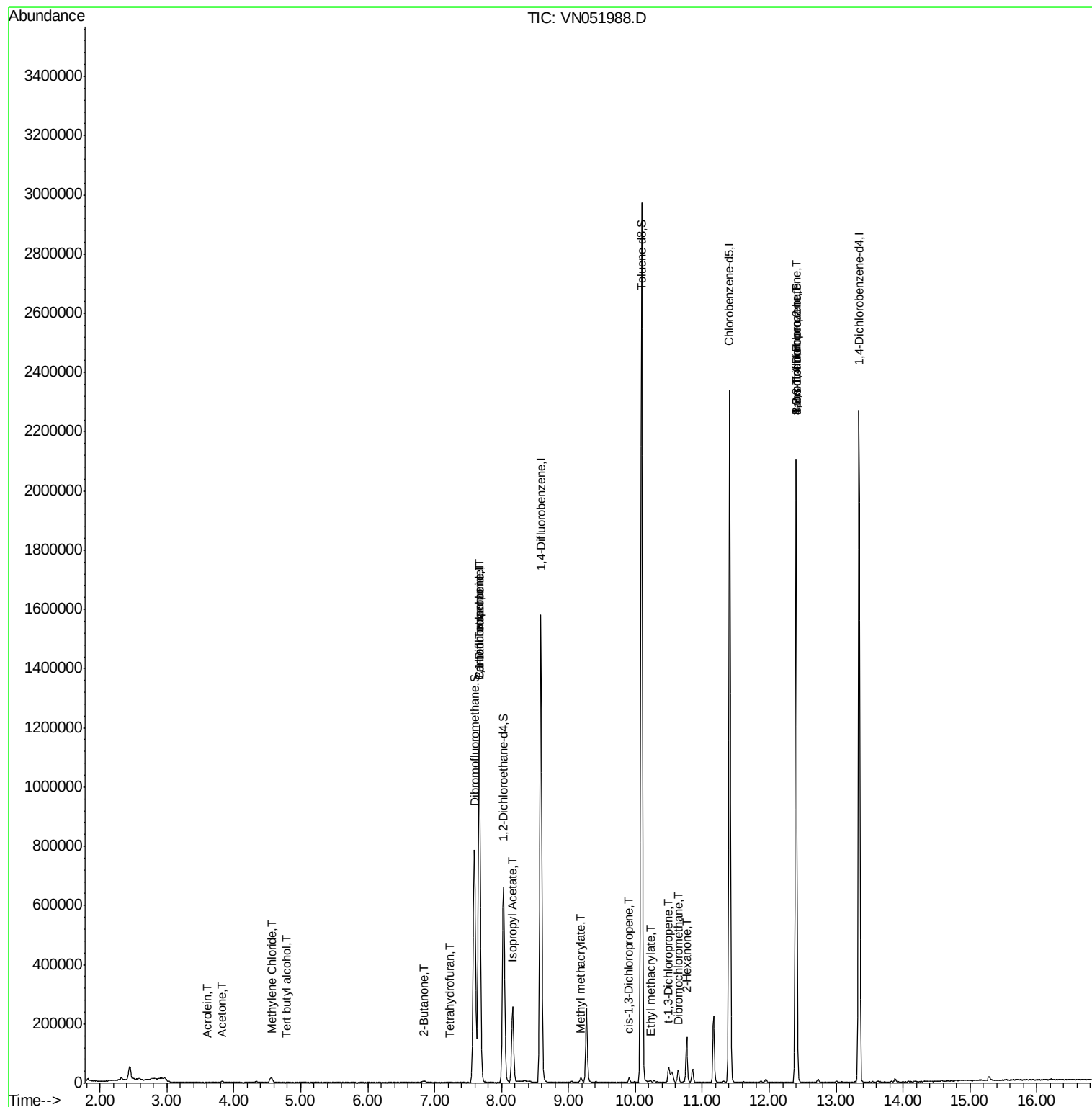
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	583	1.166	ug/l #	72
13) Acrolein	3.61	56	72	37.485	ug/l #	1
16) Acetone	3.82	43	7563	4.751	ug/l	93
18) Methyl Acetate	4.33	43	5932	Below Cal	#	64
20) Methylene Chloride	4.56	84	14166	1.517	ug/l	94
25) 2-Butanone	6.84	43	4969	2.189	ug/l #	87
29) Tetrahydrofuran	7.22	42	672	0.437	ug/l #	48
31) Cyclohexane	7.67	56	16423	Below Cal	#	40
36) 1,1-Dichloropropene	7.67	75	64717	5.347	ug/l #	46
37) Ethyl Acetate	6.93	43	226	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	95219	6.853	ug/l #	15
43) Isopropyl Acetate	8.17	43	280955	27.717	ug/l	99
48) Methyl methacrylate	9.18	41	7143	1.458	ug/l #	10
53) t-1,3-Dichloropropene	10.49	75	414	1.276	ug/l #	43
54) cis-1,3-Dichloropropene	9.90	75	2895	0.224	ug/l #	74
56) Ethyl methacrylate	10.22	69	2905	0.300	ug/l #	57
59) 2-Hexanone	10.76	43	20112	5.369	ug/l #	56
60) Dibromochloromethane	10.64	129	33	1.980	ug/l #	11
71) Bromoform	12.40	173	6234	4.429	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	325531	49.060	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	325531	154.247	ug/l #	12

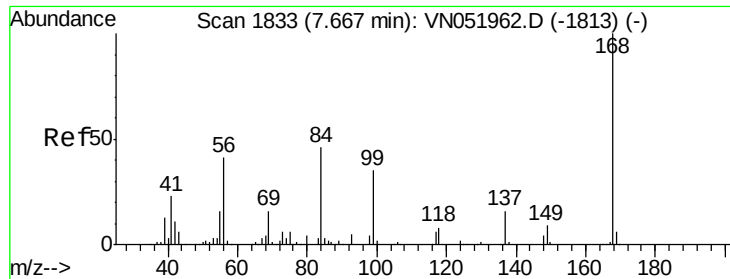
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 25 01:47:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

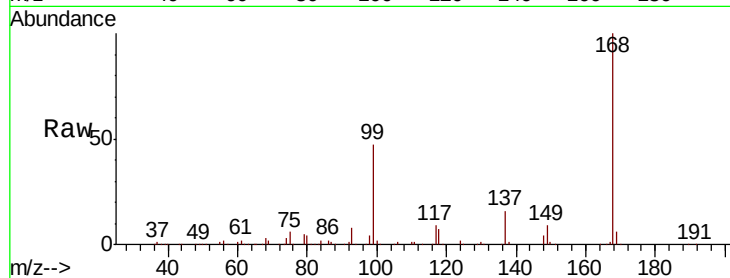
PB114120ZHE#04

Tot Ion:168 Resp: 1084913

Ion Ratio Lower Upper

168 100

99 47.4 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

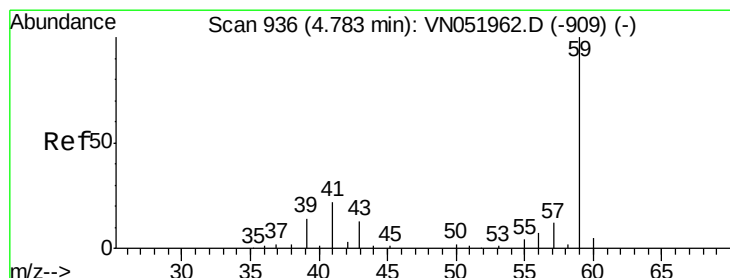
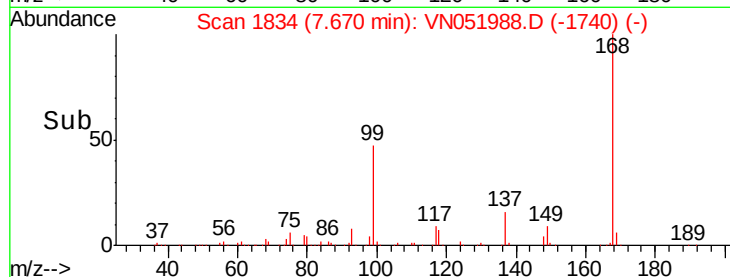
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.166 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.01 min

Lab File: VN051988.D

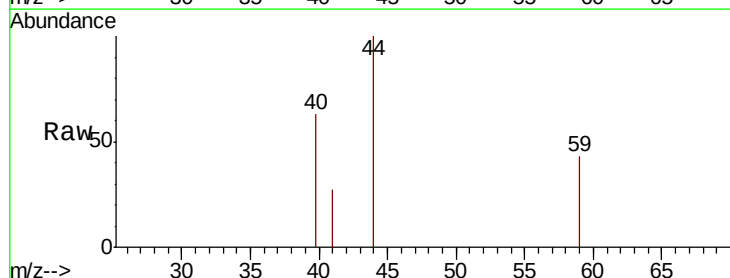
Acq: 24 Oct 2018 15:20

Tgt Ion: 59 Resp: 583

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.78

400

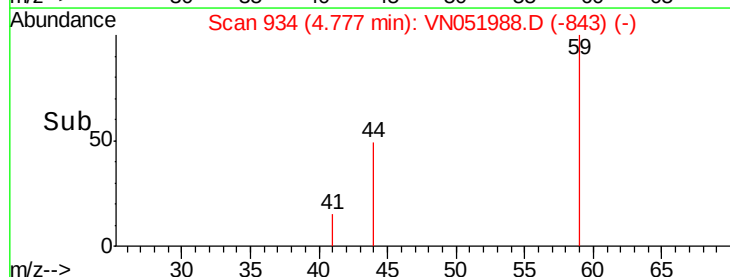
300

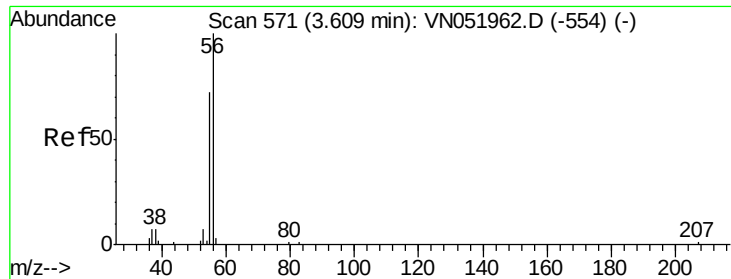
200

100

0

Time-->





#13

Acrolein

Concen: 37.485 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

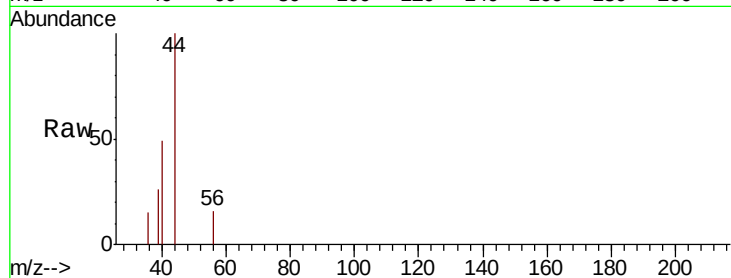
PB114120ZHE#04

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

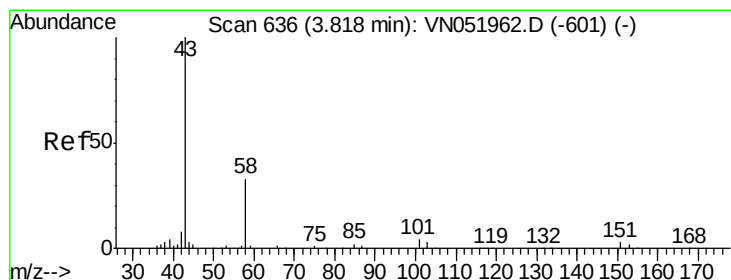
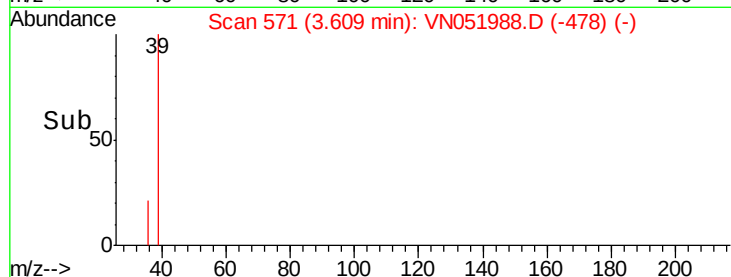
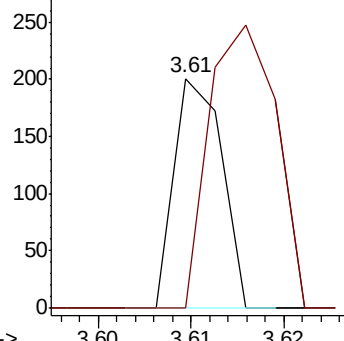
56 100

55 172.2 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 4.751 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051988.D

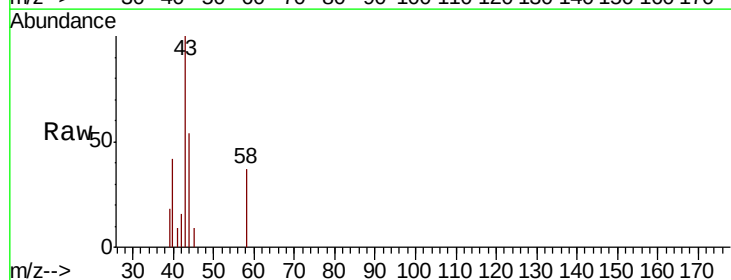
Acq: 24 Oct 2018 15:20

Tgt Ion: 43 Resp: 7563

Ion Ratio Lower Upper

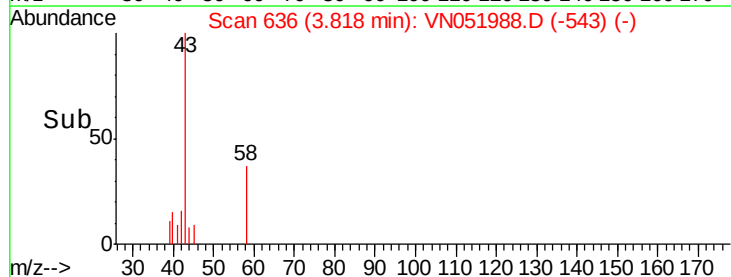
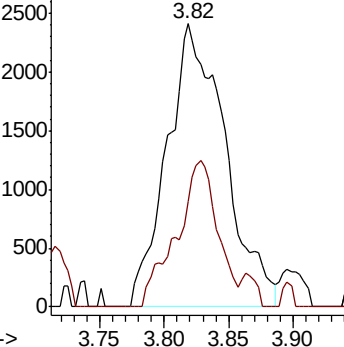
43 100

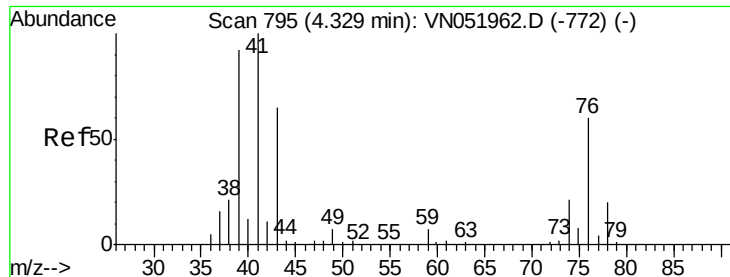
58 37.5 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

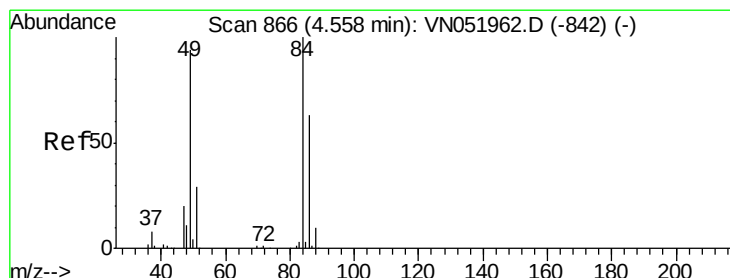
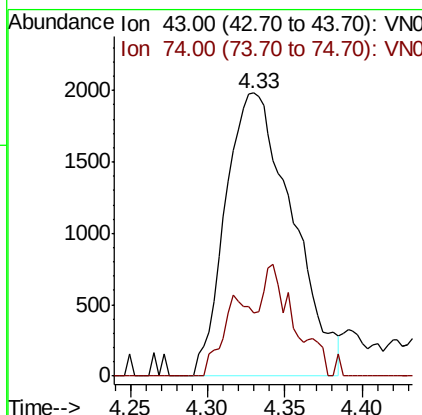
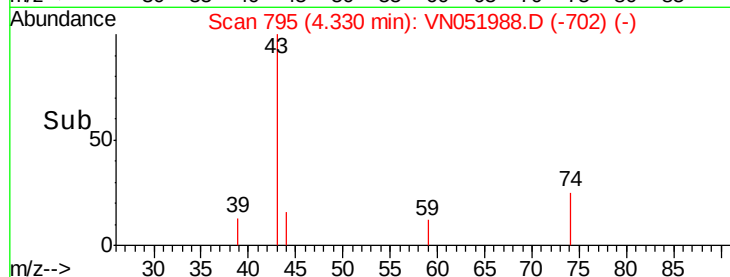
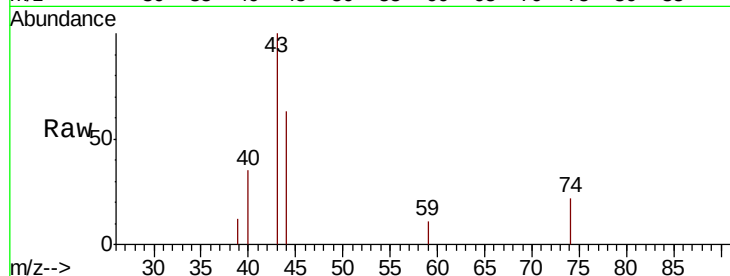




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

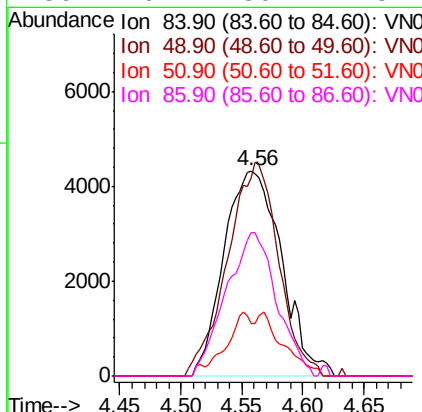
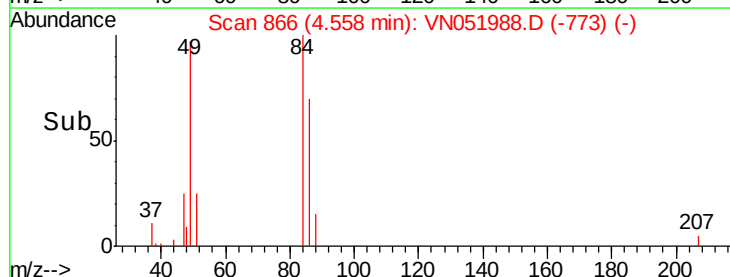
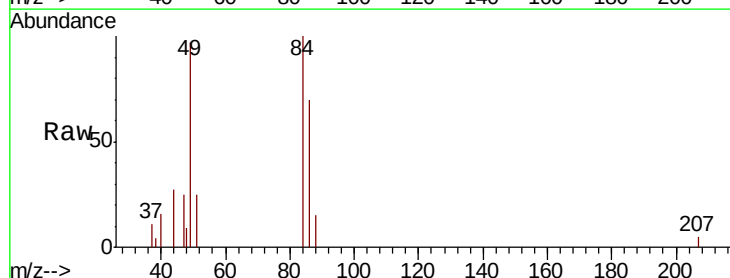
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#04

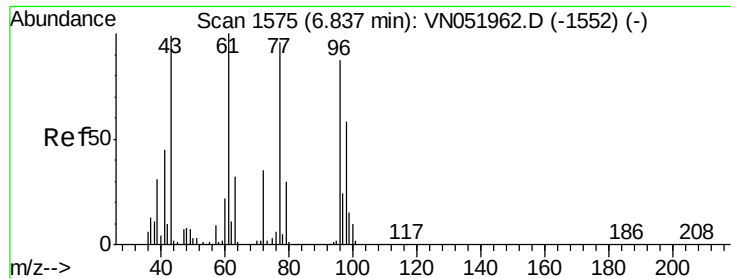
Tot Ion: 43 Resp: 5932
Ion Ratio Lower Upper
43 100
74 12.2 25.7 38.5#



#20
Methylene Chloride
Concen: 1.517 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

Tgt Ion: 84 Resp: 14166
Ion Ratio Lower Upper
84 100
49 96.7 75.4 113.0
51 25.4 23.1 34.7
86 70.1 50.2 75.4





#25

2-Butanone

Concen: 2.189 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

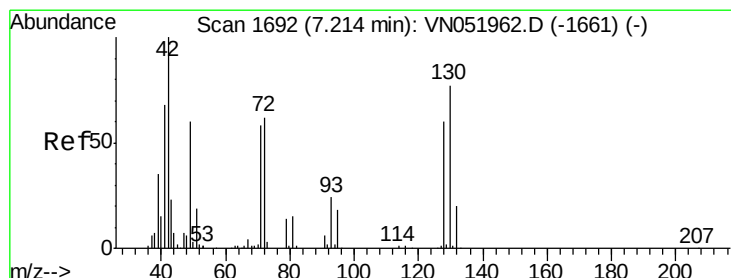
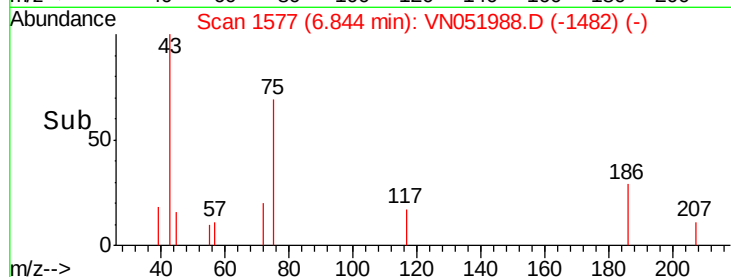
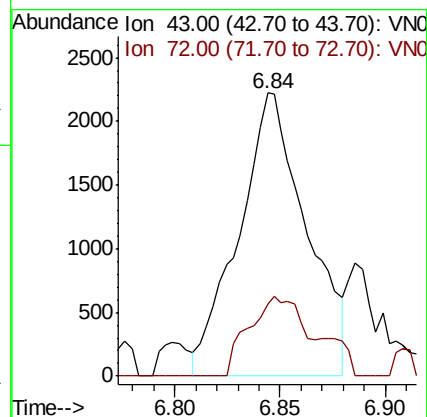
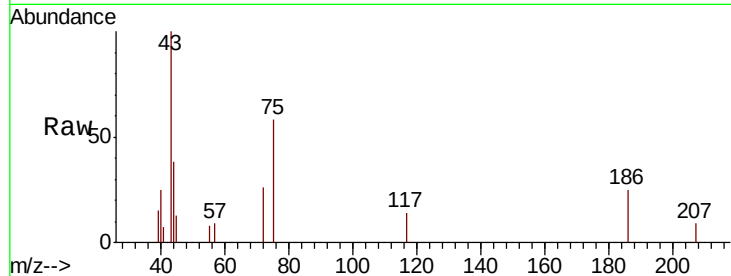
PB114120ZHE#04

Tot Ion: 43 Resp: 4969

Ion Ratio Lower Upper

43 100

72 28.0 28.5 42.7#



#29

Tetrahydrofuran

Concen: 0.437 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

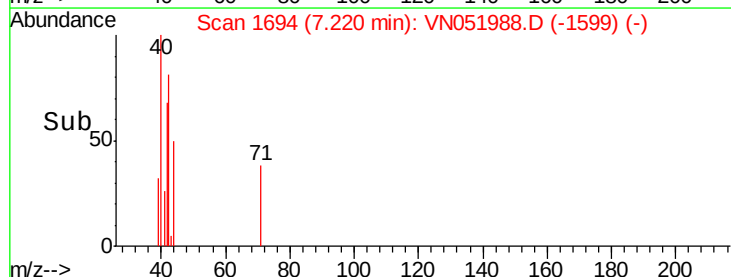
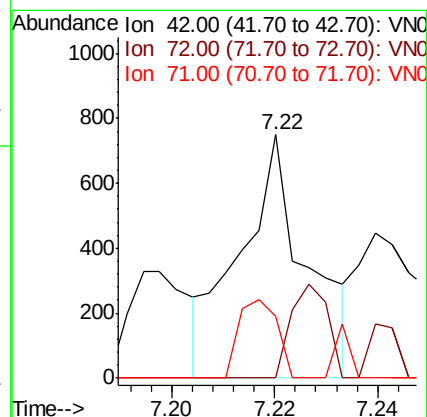
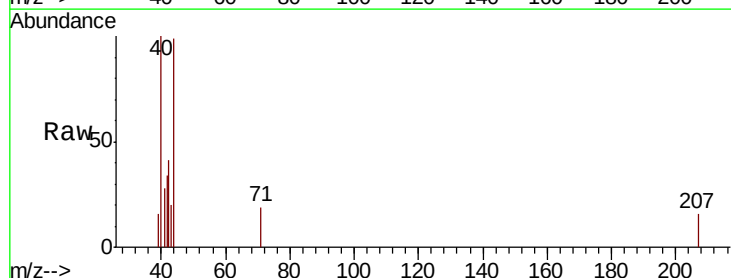
Tgt Ion: 42 Resp: 672

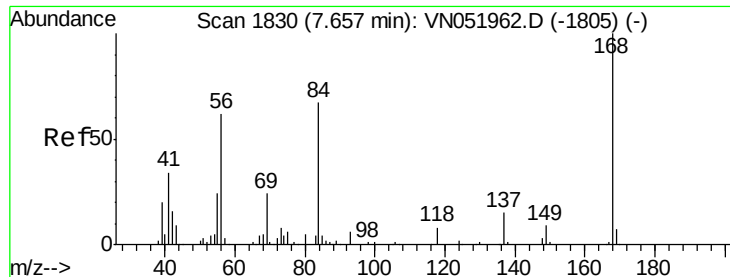
Ion Ratio Lower Upper

42 100

72 21.1 47.5 71.3#

71 18.5 45.4 68.2#

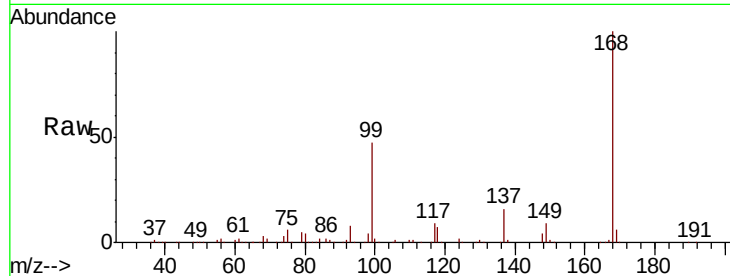




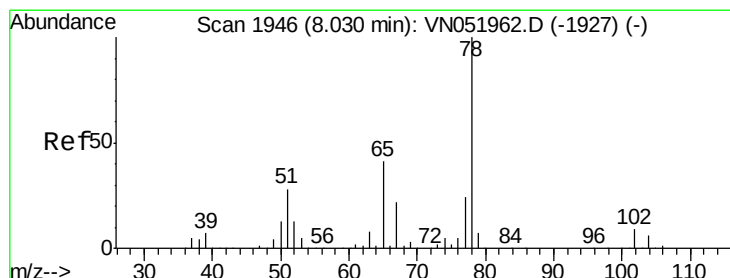
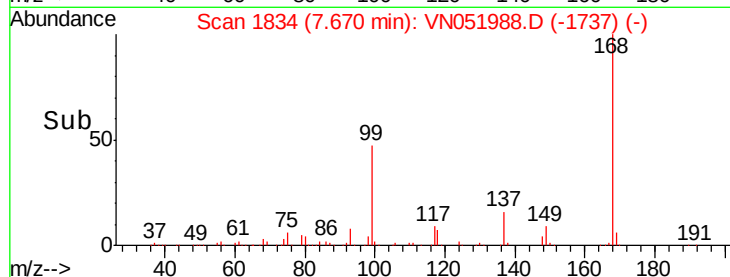
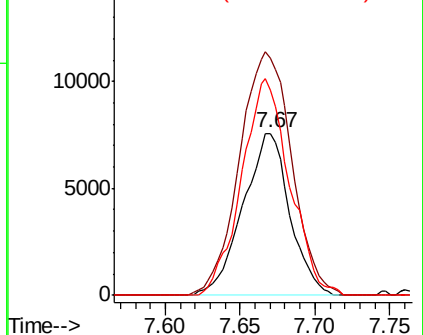
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#04

Tot Ion: 56 Resp: 16423
Ion Ratio Lower Upper
56 100
69 146.7 31.2 46.8#
84 127.2 86.3 129.5

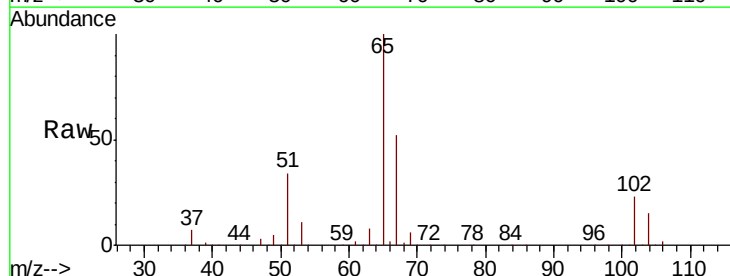


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

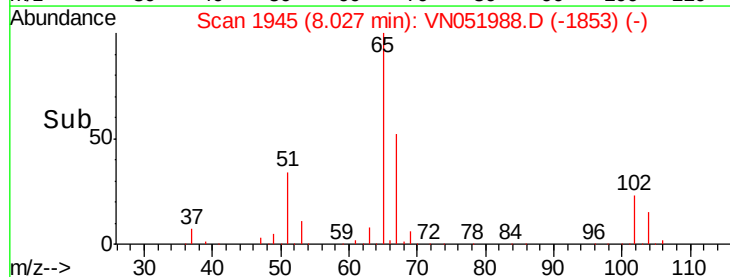
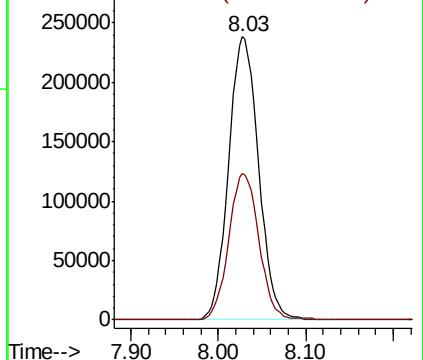


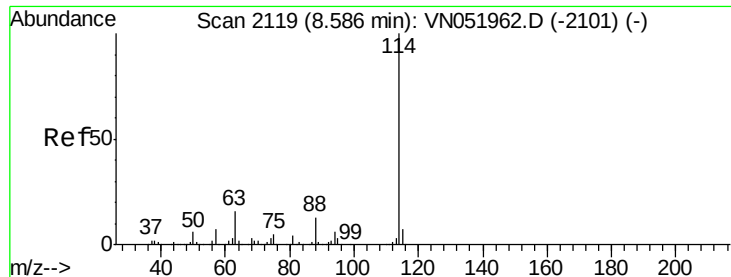
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

Tgt Ion: 65 Resp: 568253
Ion Ratio Lower Upper
65 100
67 51.8 0.0 105.8



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



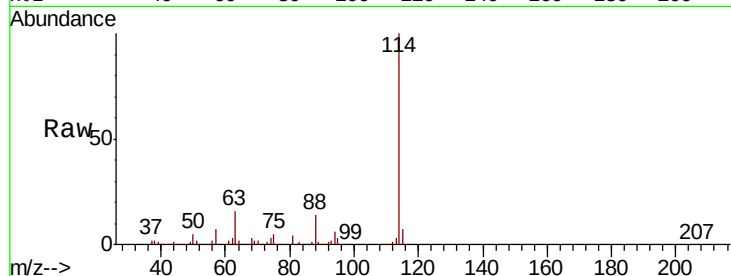


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051988.D
 Acq: 24 Oct 2018 15:20

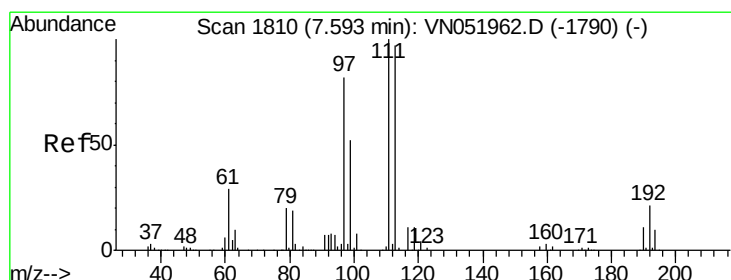
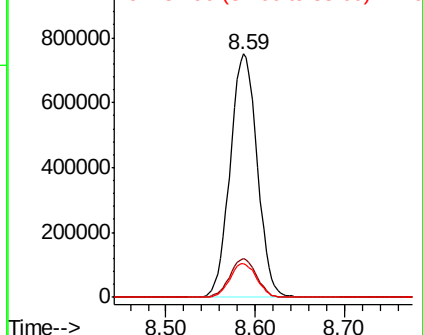
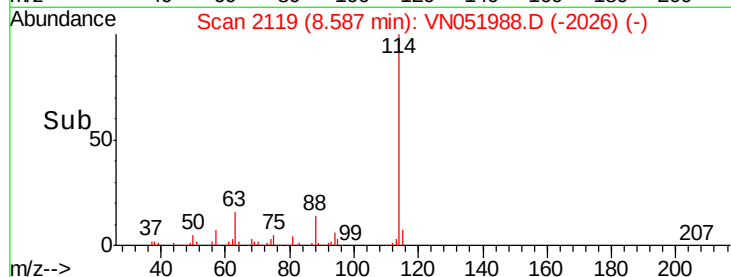
Instrument :
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 PB114120ZHE#04

Tot Ion:114 Resp: 1577853

Ion	Ratio	Lower	Upper
114	100		
63	15.8	0.0	31.2
88	13.9	0.0	27.0



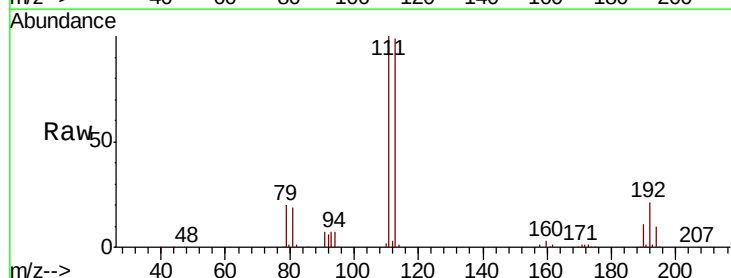
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



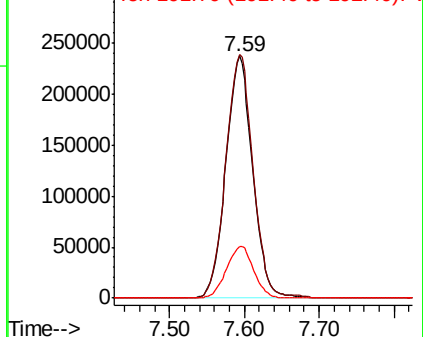
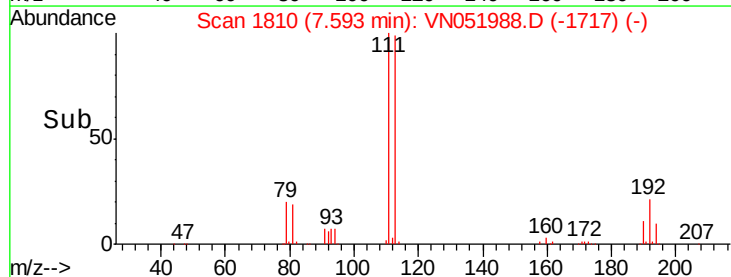
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051988.D
 Acq: 24 Oct 2018 15:20

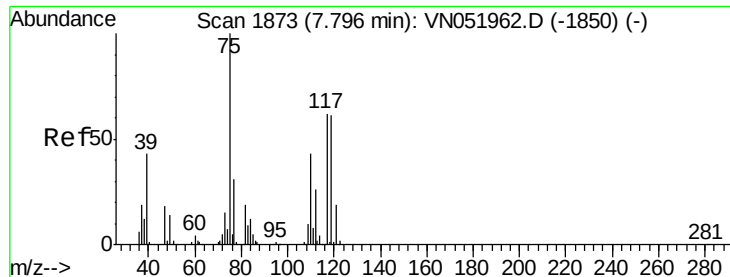
Tgt Ion:113 Resp: 589827

Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.7	121.1
192	21.7	17.2	25.8



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: 5.347 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#04

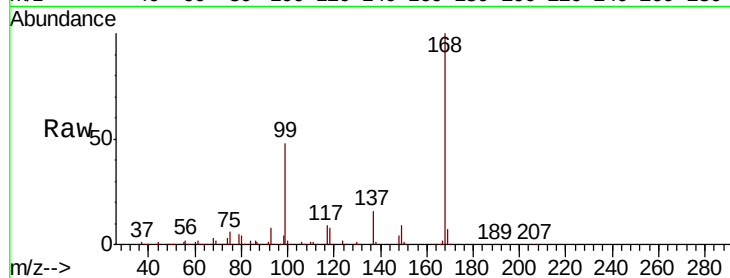
Tot Ion: 75 Resp: 64717

Ion Ratio Lower Upper

75 100

110 9.3 20.9 62.8#

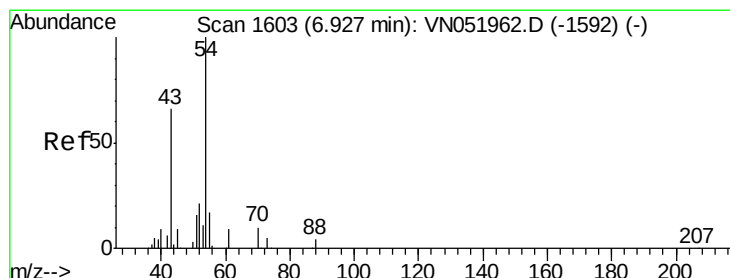
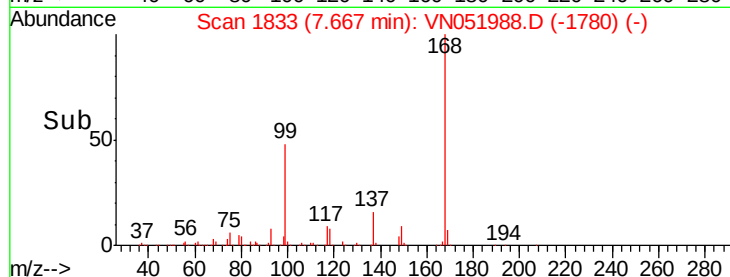
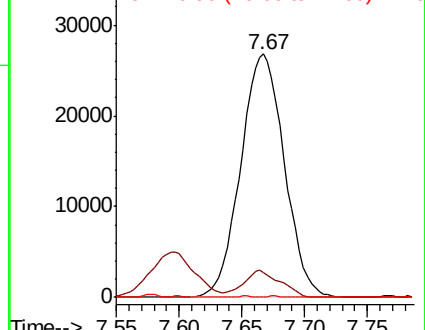
77 0.1 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN051962.D (-1850) (-)

Ion 109.90 (109.60 to 110.60): VN051962.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN051962.D (-1850) (-)



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.93 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

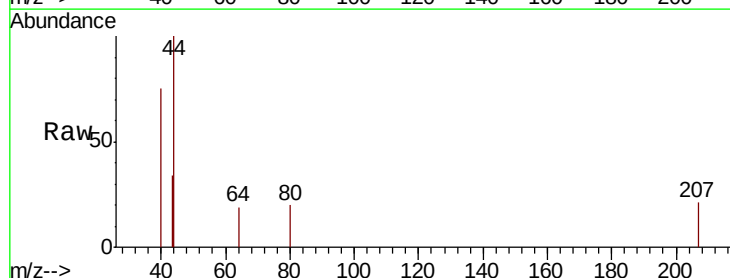
Tgt Ion: 43 Resp: 226

Ion Ratio Lower Upper

43 100

61 0.0 13.5 20.3#

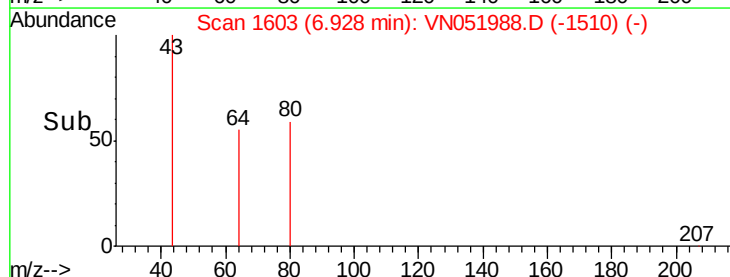
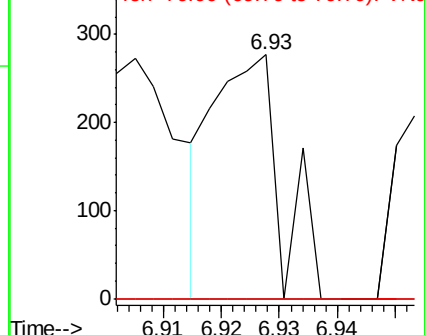
70 0.0 9.8 14.6#

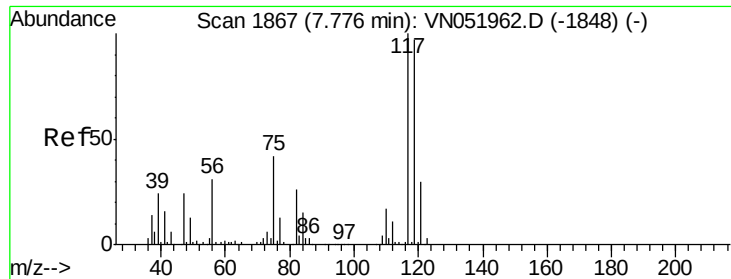


Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051962.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051962.D (-1592) (-)

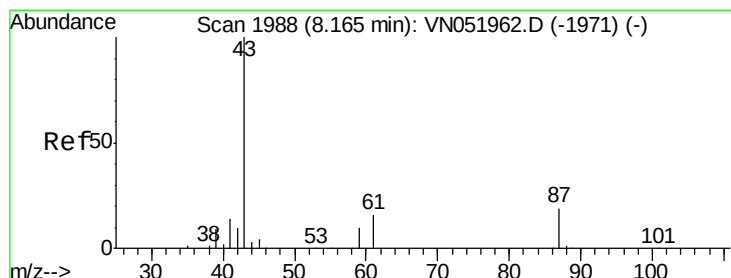
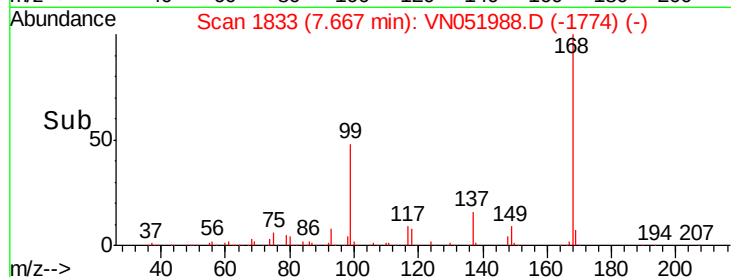
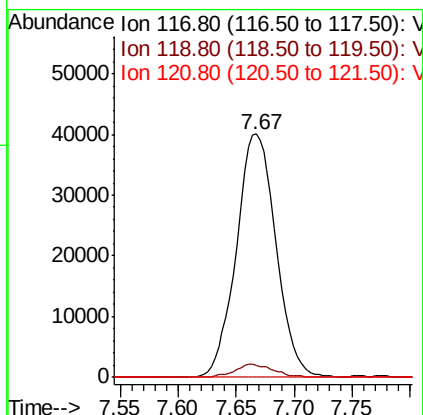
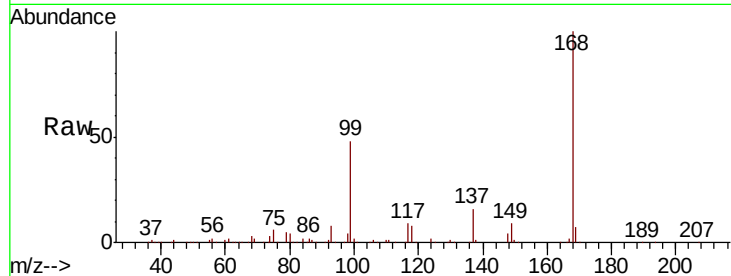




#38
Carbon Tetrachloride
Concen: 6.853 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

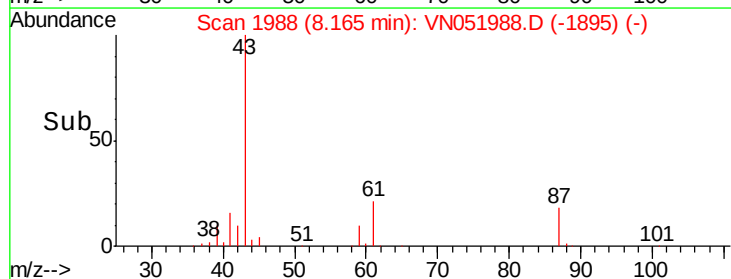
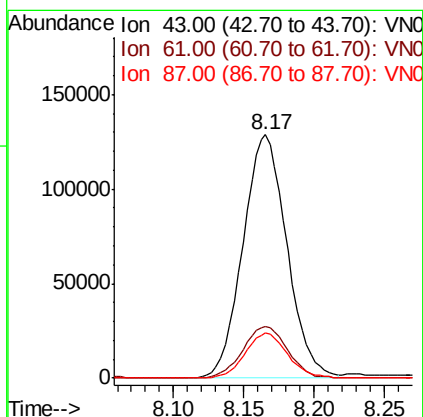
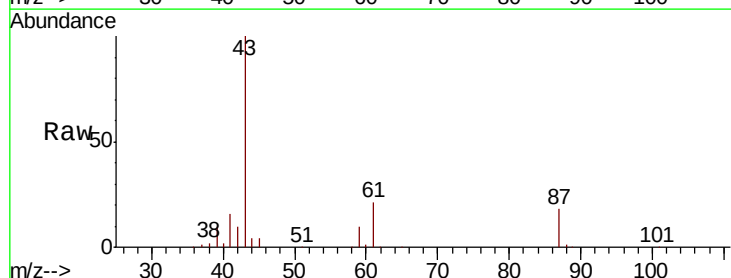
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#04

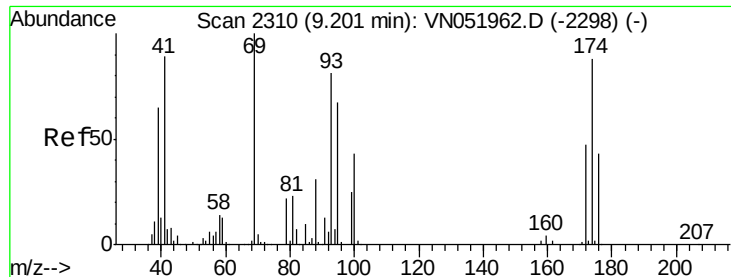
Tot Ion:117 Resp: 95219
Ion Ratio Lower Upper
117 100
119 4.7 77.4 116.0#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 27.717 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

Tgt Ion: 43 Resp: 280955
Ion Ratio Lower Upper
43 100
61 21.6 17.2 25.8
87 18.0 15.2 22.8

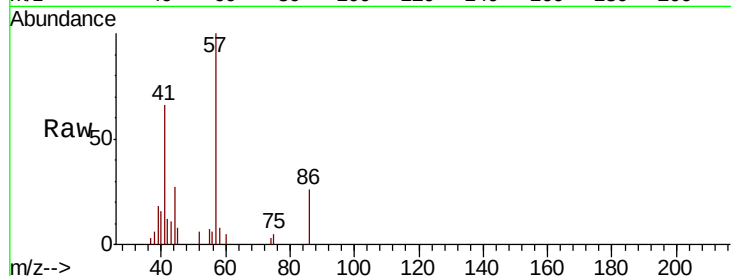




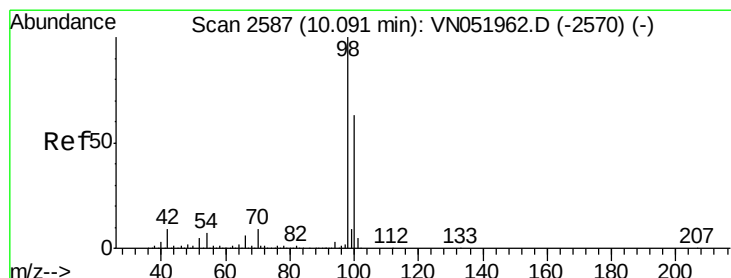
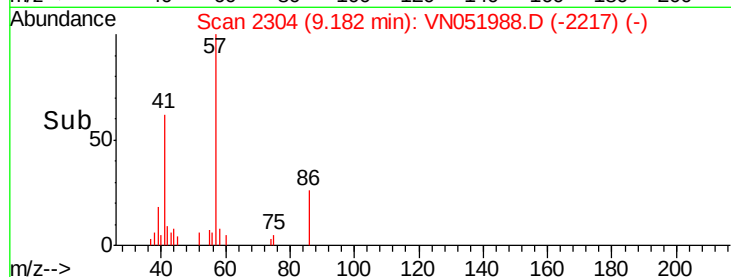
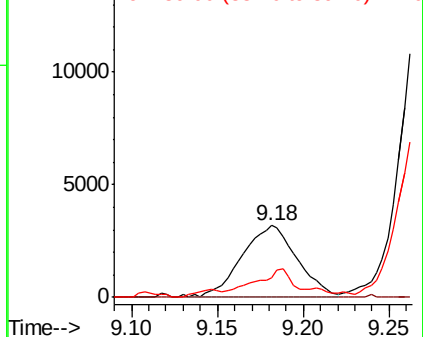
#48
Methvl methacrylate
Concen: 1.458 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#04

Tot Ion: 41 Resp: 7143
Ion Ratio Lower Upper
41 100
69 0.0 92.2 138.4#
39 19.6 60.2 90.4#

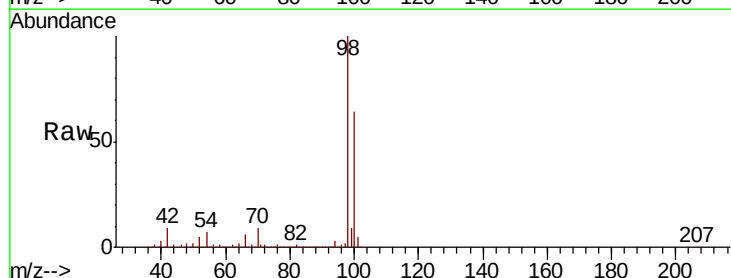


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

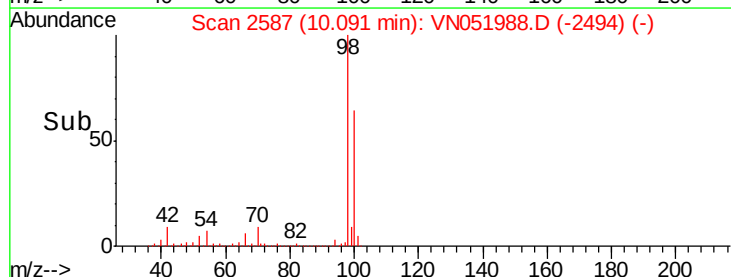
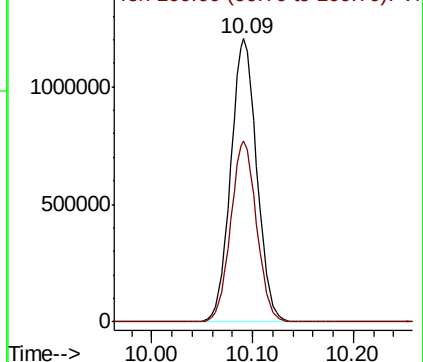


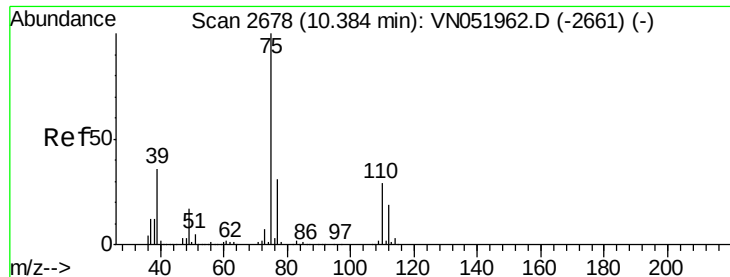
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

Tgt Ion: 98 Resp: 2161242
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 1.276 ug/l

RT: 10.49 min Scan# 2712

Delta R.T. 0.11 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

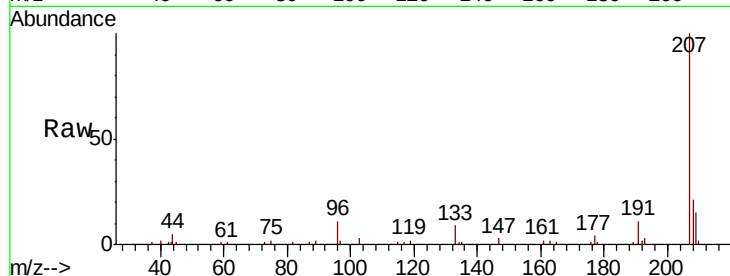
PB114120ZHE#04

Tot Ion: 75 Resp: 414

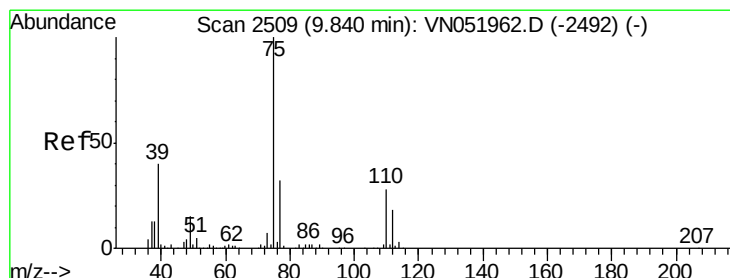
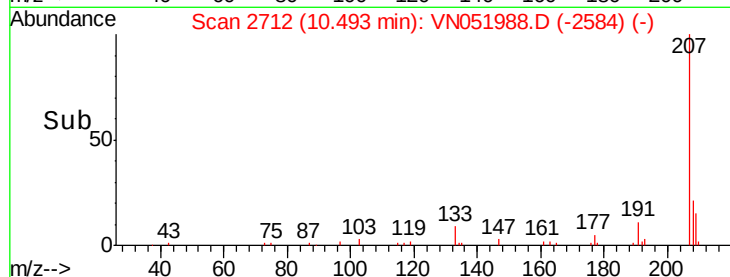
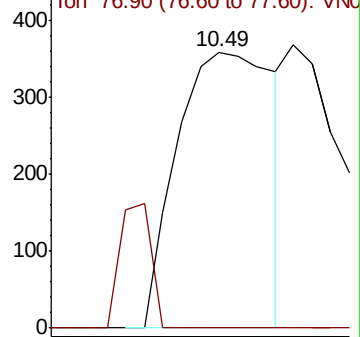
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN051988.D (-2584) (-)



#54

cis-1,3-Dichloropropene

Concen: 0.224 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

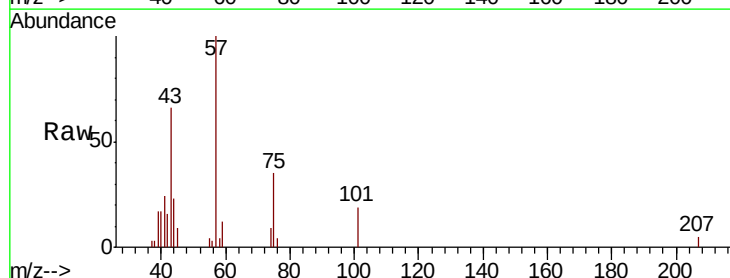
Tgt Ion: 75 Resp: 2895

Ion Ratio Lower Upper

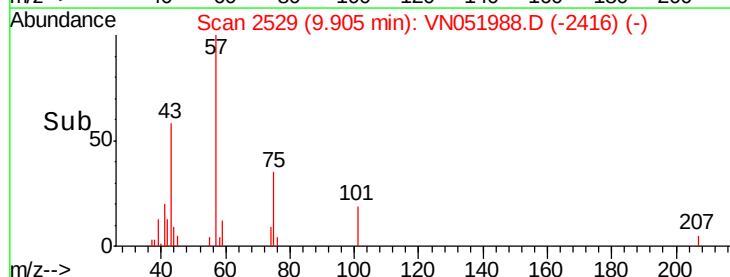
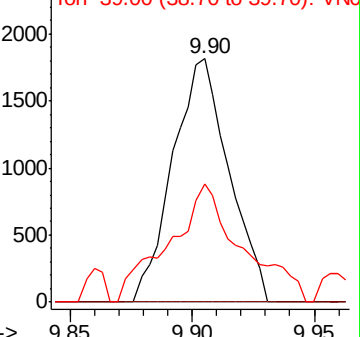
75 100

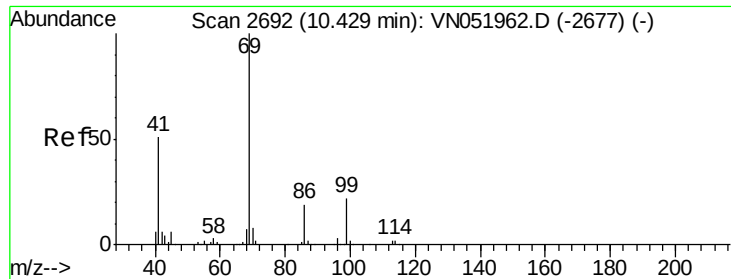
77 0.0 25.2 37.8#

39 39.0 32.0 48.0



Abundance Ion 74.90 (74.60 to 75.60): VN051988.D (-2416) (-)





#56

Ethyl methacrylate

Concen: 0.300 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#04

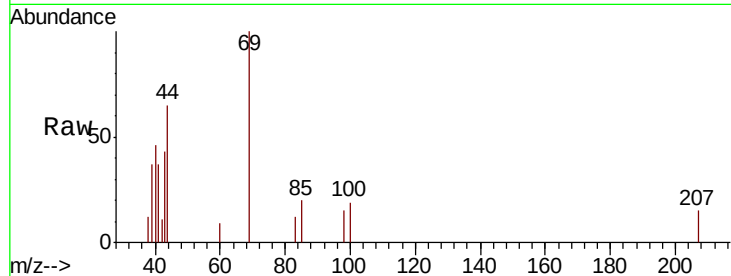
Tot Ion: 69 Resp: 2905

Ion Ratio Lower Upper

69 100

41 12.9 40.7 61.1#

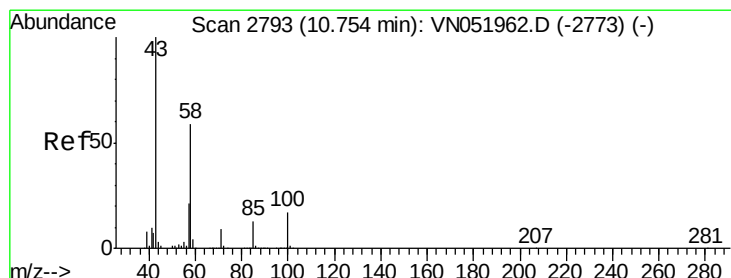
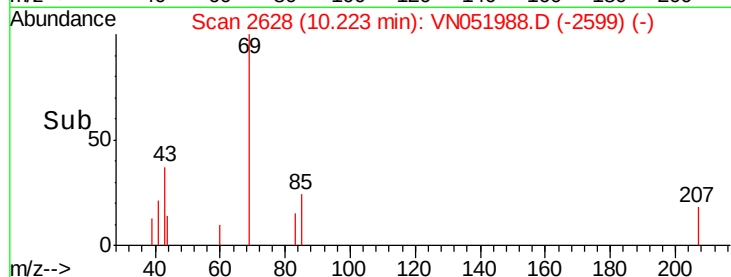
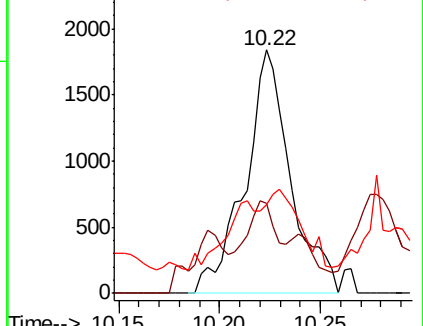
39 21.2 29.3 43.9#



Abundance Ion 69.00 (68.70 to 69.70): VN051962.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN051962.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN051962.D (-2677) (-)



#59

2-Hexanone

Concen: 5.369 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051988.D

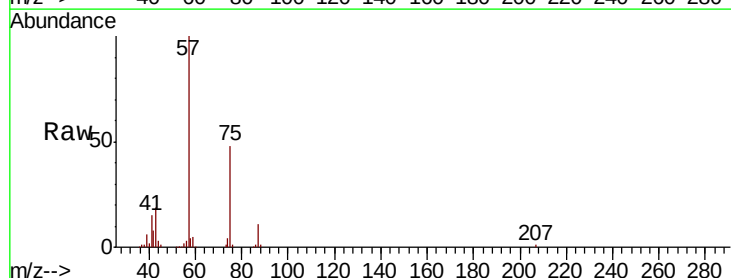
Acq: 24 Oct 2018 15:20

Tgt Ion: 43 Resp: 20112

Ion Ratio Lower Upper

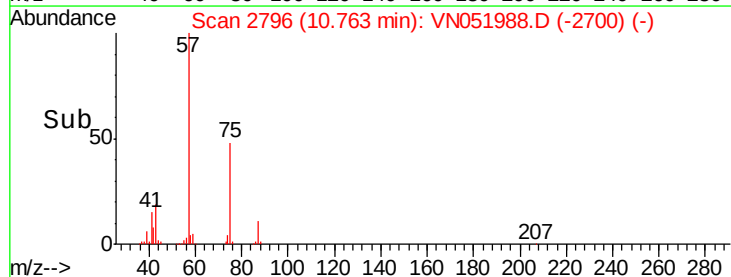
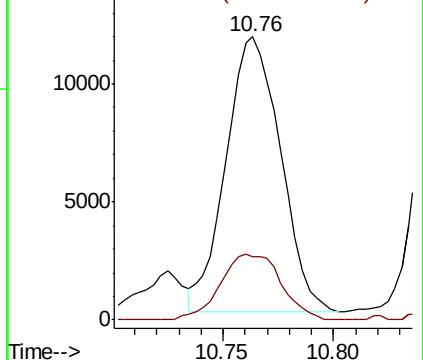
43 100

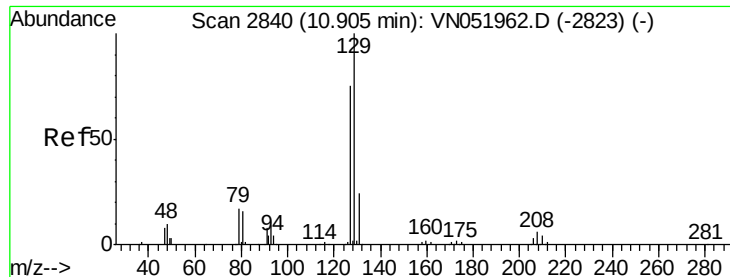
58 26.4 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-2773) (-)

Ion 58.00 (57.70 to 58.70): VN051962.D (-2773) (-)





#60

Dibromochloromethane

Concen: 1.980 ug/l

RT: 10.64 min Scan# 2758

Delta R.T. -0.26 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

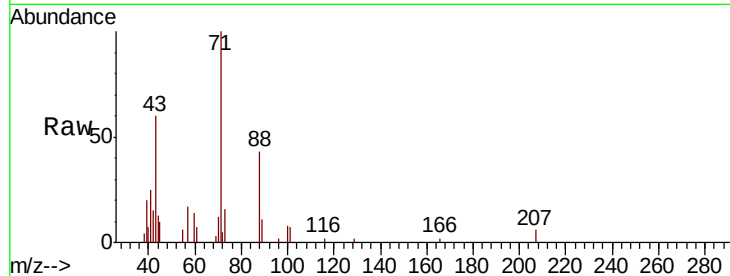
PB114120ZHE#04

Tot Ion:129 Resp: 33

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.64

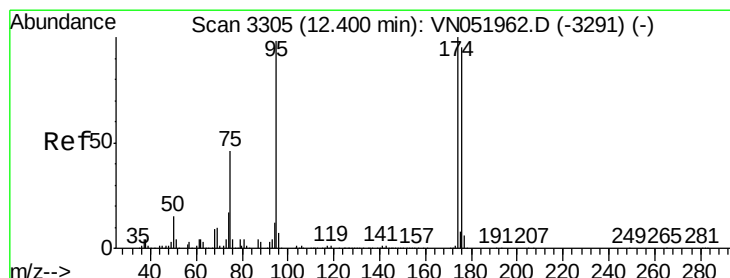
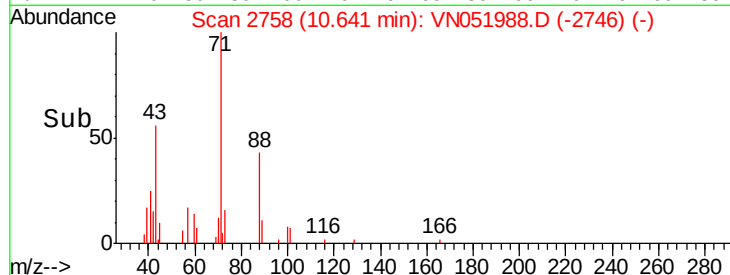
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

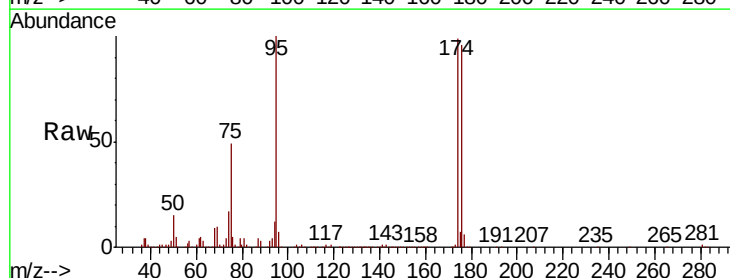
Tgt Ion: 95 Resp: 665857

Ion Ratio Lower Upper

95 100

174 100.3 0.0 206.0

176 96.4 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

500000

400000

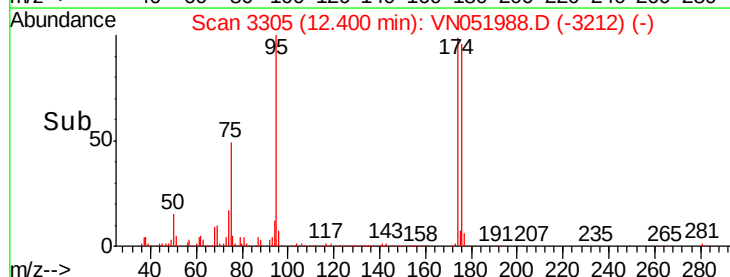
300000

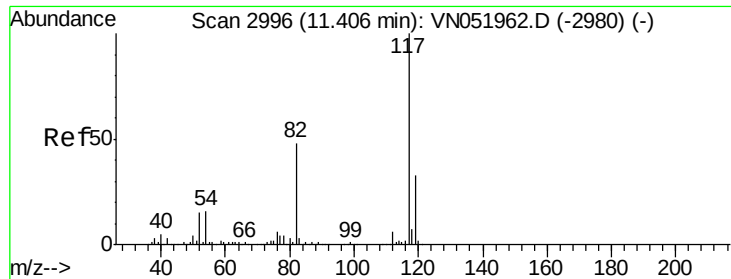
200000

100000

0

Time-->

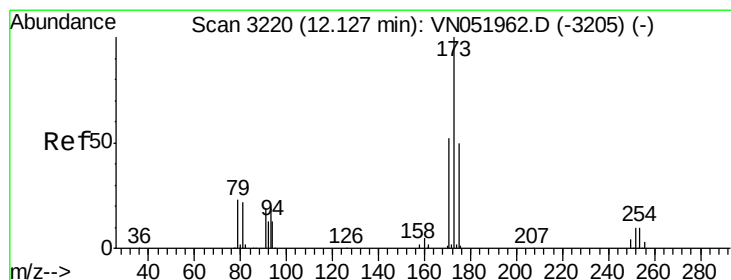
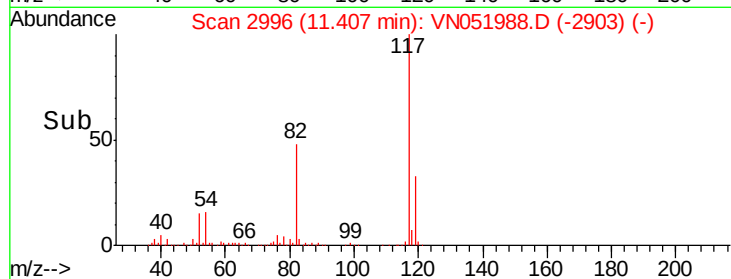
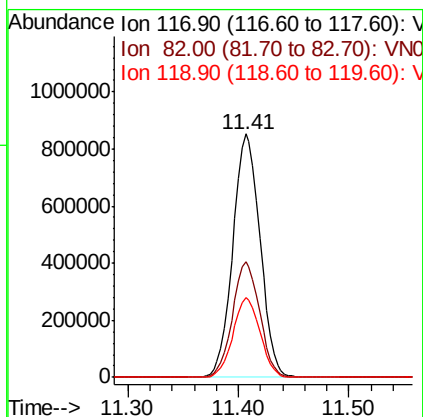
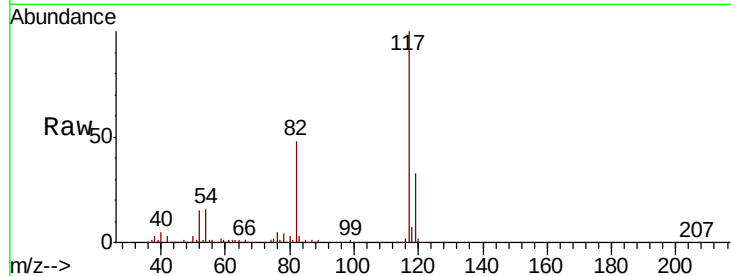




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

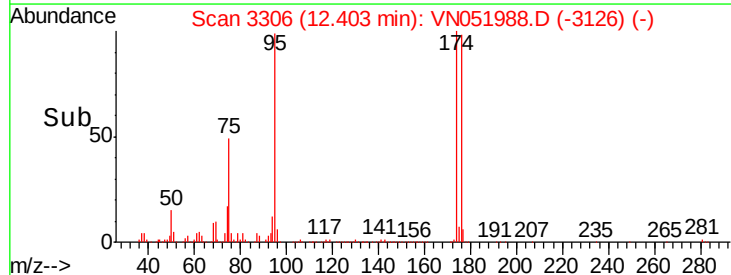
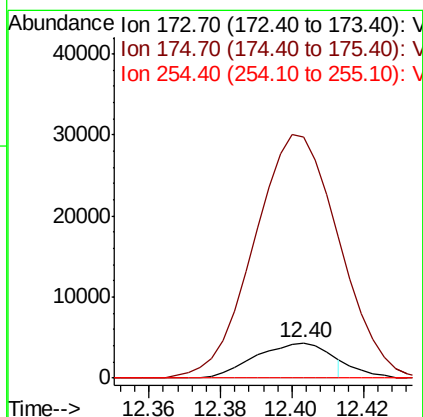
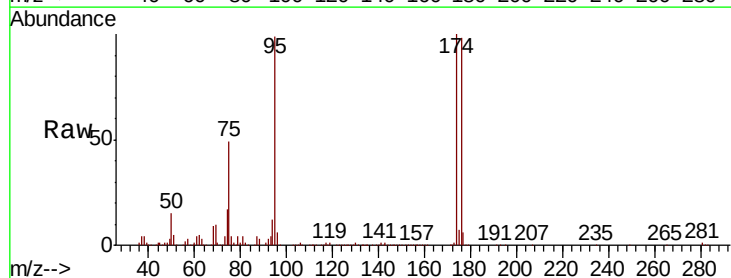
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#04

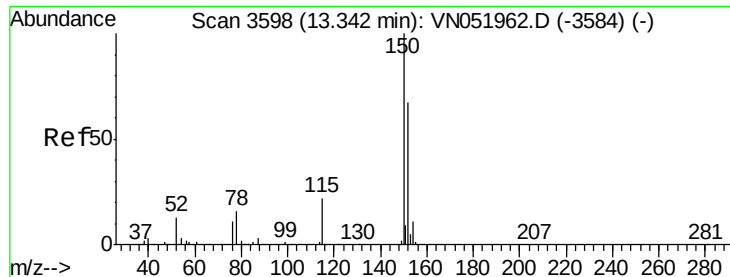
Tot Ion:117 Resp: 1460436
Ion Ratio Lower Upper
117 100
82 47.6 38.1 57.1
119 32.8 26.4 39.6



#71
Bromoform
Concen: 4.429 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051988.D
Acq: 24 Oct 2018 15:20

Tgt Ion:173 Resp: 6234
Ion Ratio Lower Upper
173 100
175 704.1 24.6 74.0#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#04

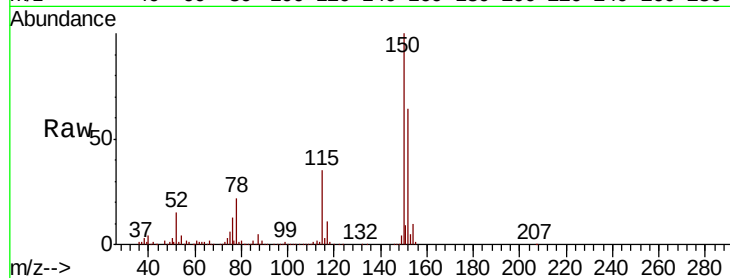
Tot Ion:152 Resp: 642371

Ion Ratio Lower Upper

152 100

115 53.8 25.8 77.3

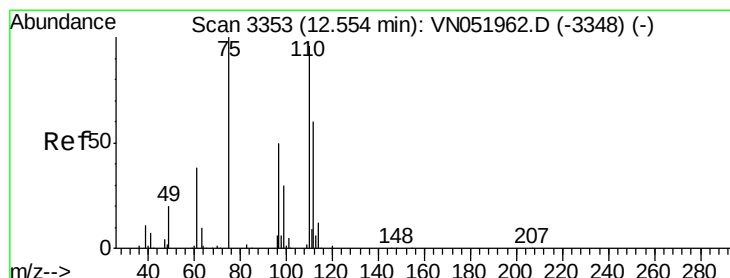
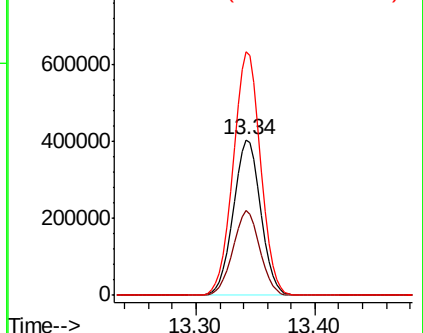
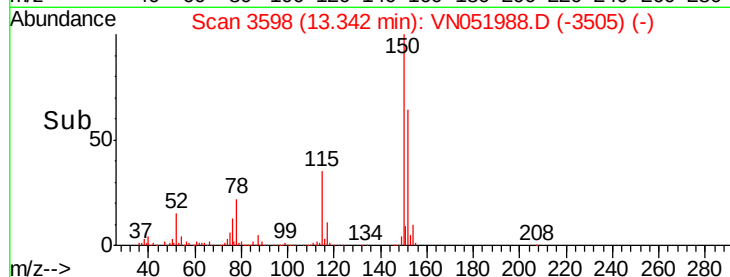
150 156.5 0.0 344.4



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



#76

1,2,3-Trichloropropane

Concen: 49.060 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051988.D

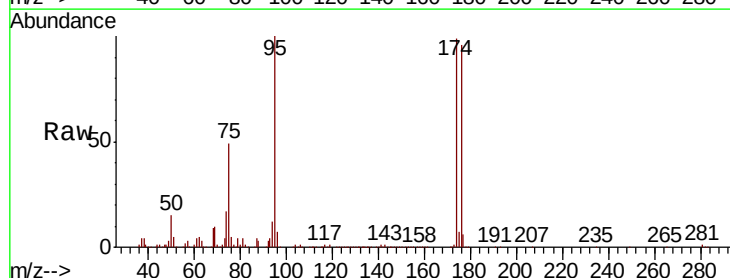
Acq: 24 Oct 2018 15:20

Tgt Ion: 75 Resp: 325531

Ion Ratio Lower Upper

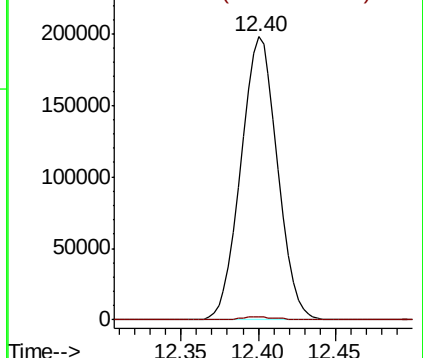
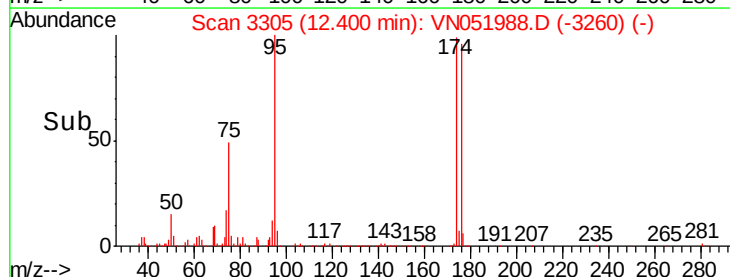
75 100

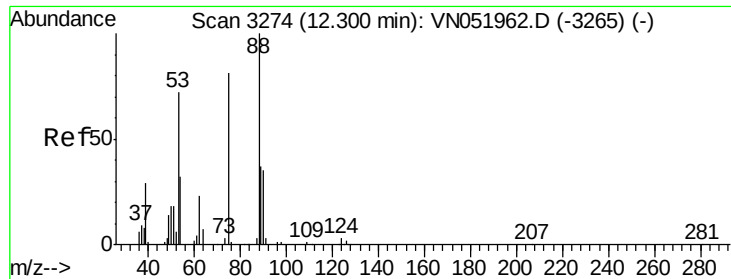
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 154.247 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051988.D

Acq: 24 Oct 2018 15:20

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#04

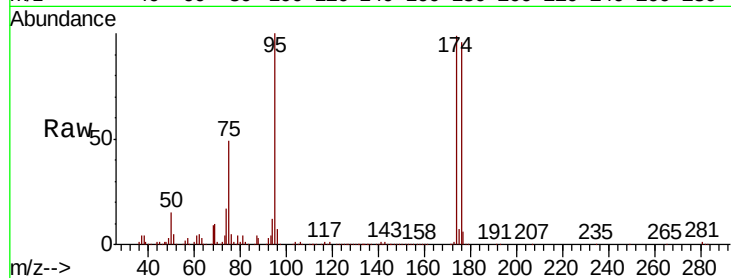
Tot Ion: 75 Resp: 325531

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



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

