

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102618\
 Data File : VN052038.D
 Acq On : 26 Oct 2018 19:40
 Operator : MD\SY
 Sample : J5675-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13

Quant Time: Oct 26 23:27:16 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

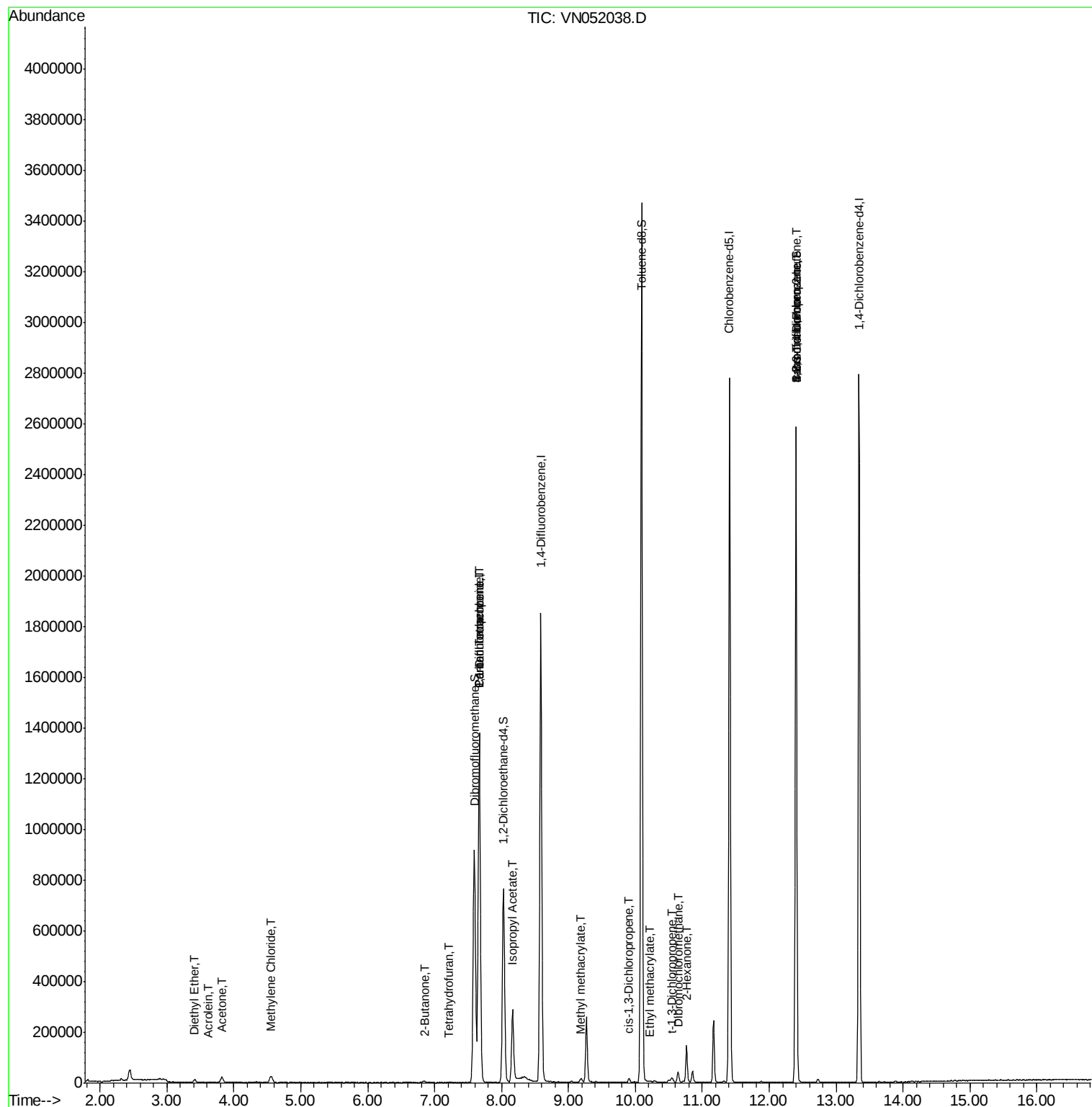
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1246203	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1842470	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1760485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	827410	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	643006	57.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.86%	
35) Dibromofluoromethane	7.59	113	686405	58.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.76%	
50) Toluene-d8	10.09	98	2507372	59.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.04%	
62) 4-Bromofluorobenzene	12.40	95	808120	55.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.68%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.42	74	6375	1.261	ug/l	74
13) Acrolein	3.62	56	95	37.517	ug/l	95
16) Acetone	3.82	43	37293	20.394	ug/l	95
18) Methyl Acetate	4.33	43	6416	Below Cal	#	87
20) Methylene Chloride	4.55	84	22253	2.074	ug/l	96
25) 2-Butanone	6.84	43	6741	2.586	ug/l	100
29) Tetrahydrofuran	7.21	42	412	0.233	ug/l #	47
31) Cyclohexane	7.66	56	19093	Below Cal	#	12
36) 1,1-Dichloropropene	7.67	75	72565	5.134	ug/l #	48
37) Ethyl Acetate	6.84	43	6741	Below Cal	#	72
38) Carbon Tetrachloride	7.67	117	107843	6.647	ug/l #	15
43) Isopropyl Acetate	8.16	43	322780	27.270	ug/l	98
48) Methyl methacrylate	9.18	41	7644	1.336	ug/l #	5
53) t-1,3-Dichloropropene	10.54	75	65	1.248	ug/l #	43
54) cis-1,3-Dichloropropene	9.90	75	3389	0.224	ug/l #	74
56) Ethyl methacrylate	10.23	69	3186	0.282	ug/l #	81
59) 2-Hexanone	10.76	43	18169	4.153	ug/l #	54
60) Dibromochloromethane	10.63	129	76	1.983	ug/l #	11
71) Bromoform	12.40	173	6687	4.348	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	389648	45.591	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	389648	143.465	ug/l #	12

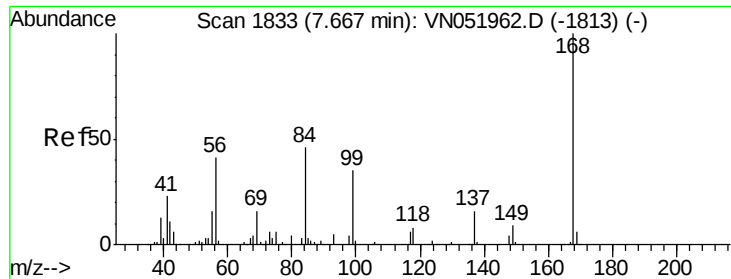
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampled :

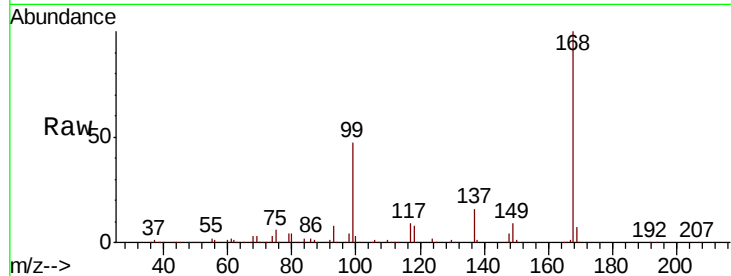
TP-13

Tot Ion:168 Resp: 1246203

Ion Ratio Lower Upper

168 100

99 46.5 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051962.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051962.D (-1813) (-)

7.67

600000

500000

400000

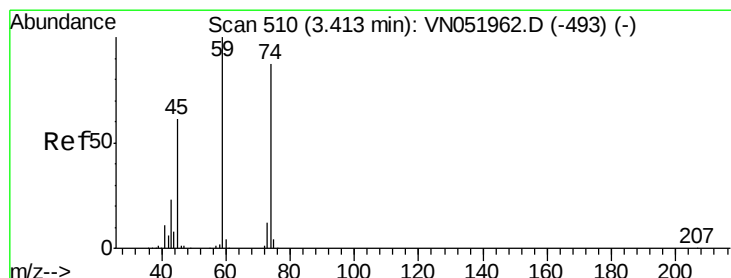
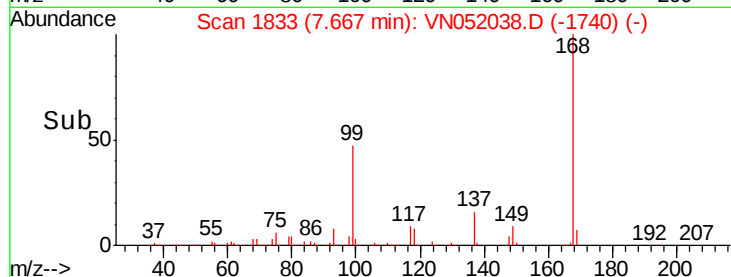
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 1.261 ug/l

RT: 3.42 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN052038.D

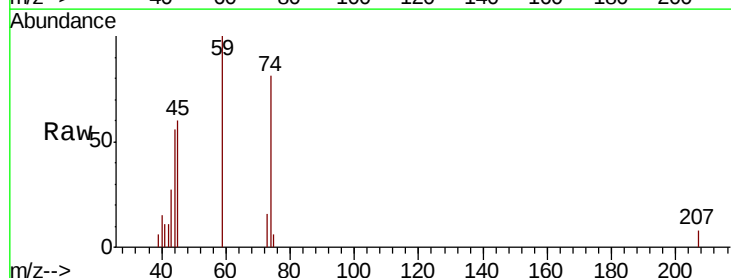
Acq: 26 Oct 2018 19:40

Tgt Ion: 74 Resp: 6375

Ion Ratio Lower Upper

74 100

45 92.4 35.5 106.5



Abundance Ion 74.00 (73.70 to 74.70): VN051962.D (-493) (-)

Ion 45.00 (44.70 to 45.70): VN051962.D (-493) (-)

3.42

3000

2500

2000

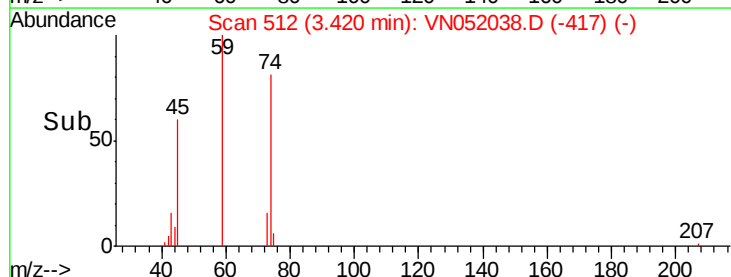
1500

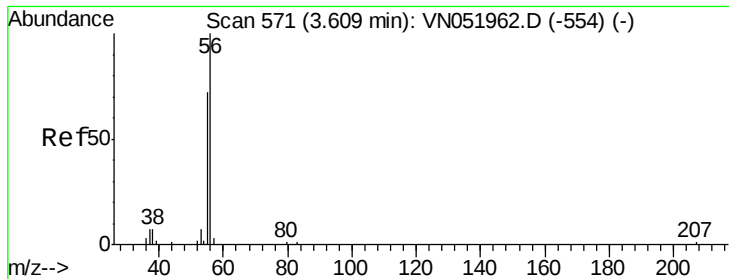
1000

500

0

Time-->





#13

Acrolein

Concen: 37.517 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampled :

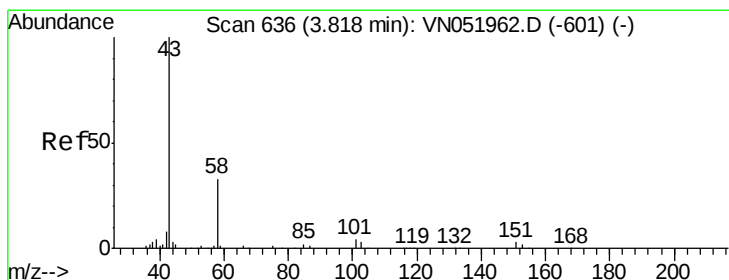
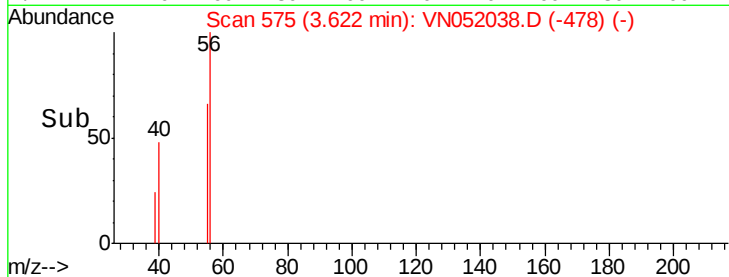
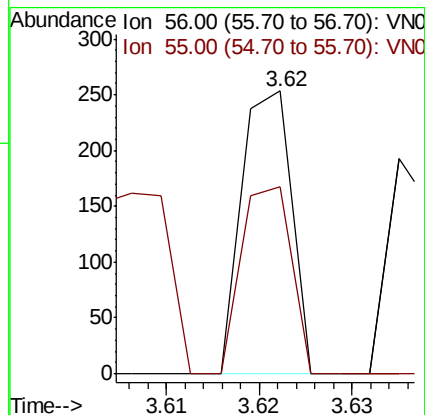
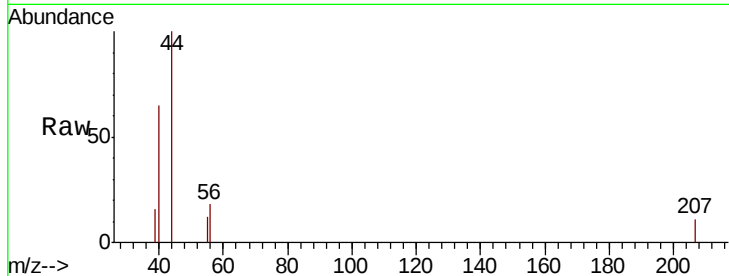
TP-13

Tot Ion: 56 Resp: 95

Ion Ratio Lower Upper

56 100

55 66.3 56.6 84.8



#16

Acetone

Concen: 20.394 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052038.D

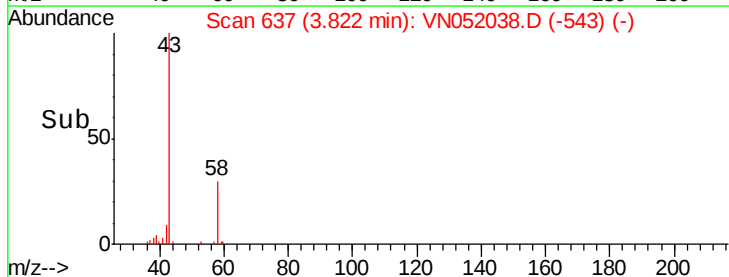
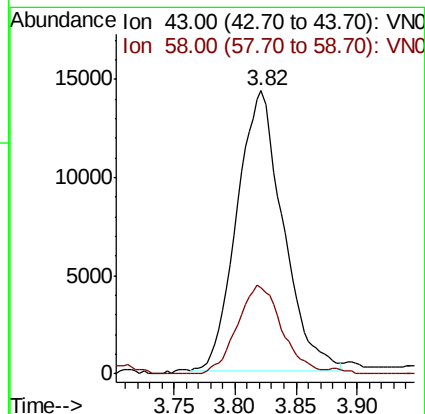
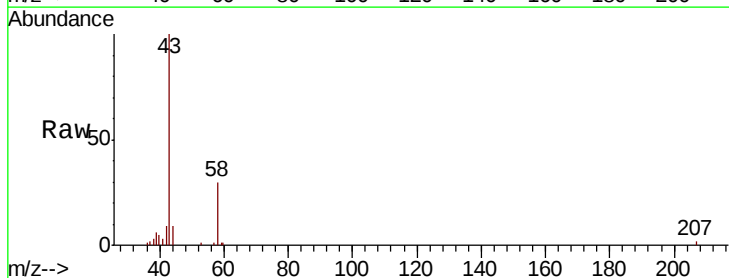
Acq: 26 Oct 2018 19:40

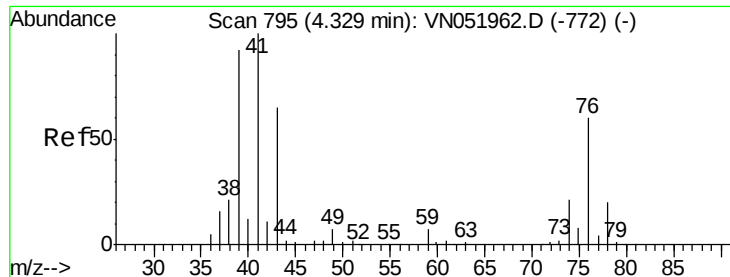
Tgt Ion: 43 Resp: 37293

Ion Ratio Lower Upper

43 100

58 30.7 26.7 40.1

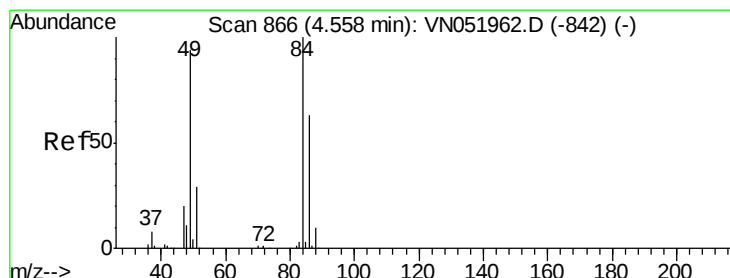
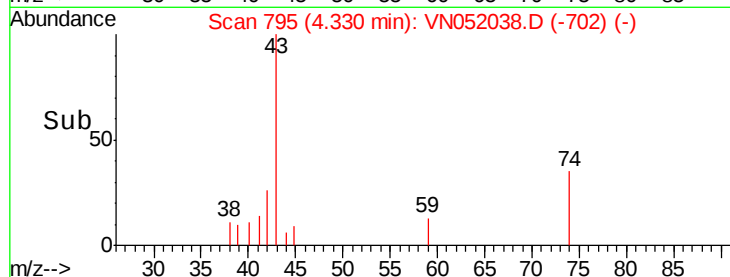
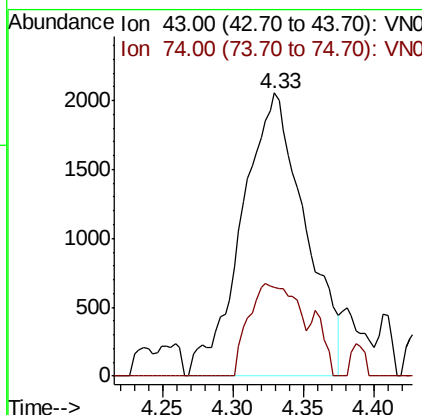
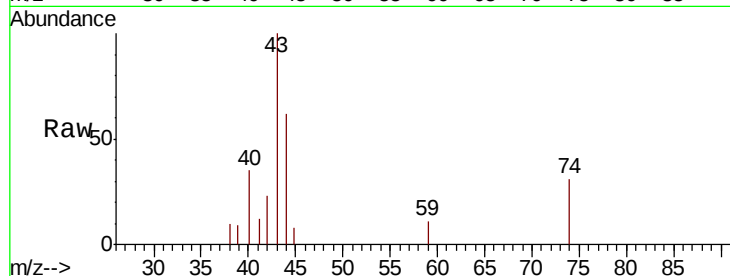




#18
Methvl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052038.D
Acq: 26 Oct 2018 19:40

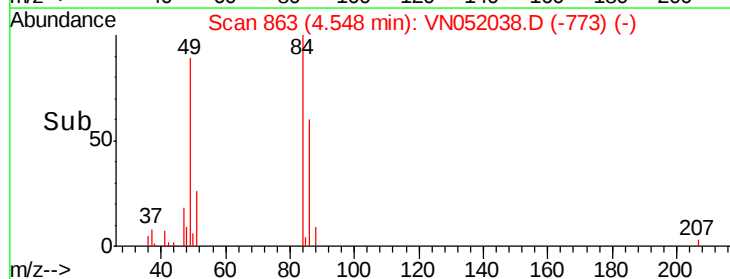
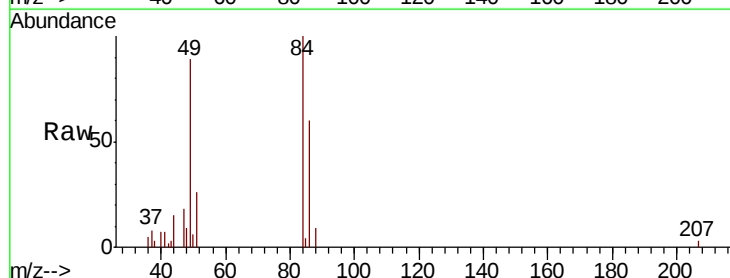
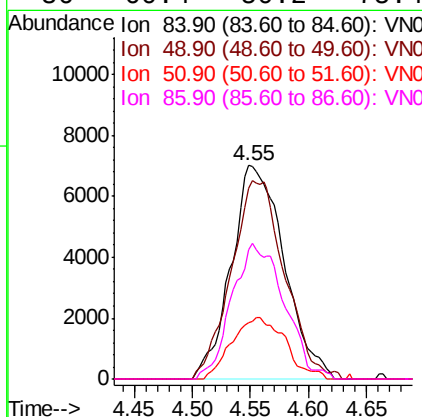
Instrument :
MSVOA_N
ClientSampled :
TP-13

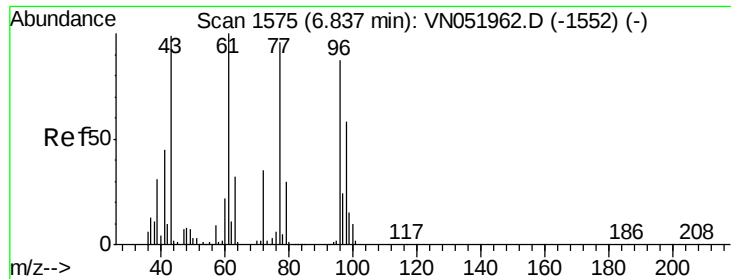
Tot Ion: 43 Resp: 6416
Ion Ratio Lower Upper
43 100
74 25.1 25.7 38.5#



#20
Methylene Chloride
Concen: 2.074 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN052038.D
Acq: 26 Oct 2018 19:40

Tgt Ion: 84 Resp: 22253
Ion Ratio Lower Upper
84 100
49 89.1 75.4 113.0
51 26.4 23.1 34.7
86 60.4 50.2 75.4

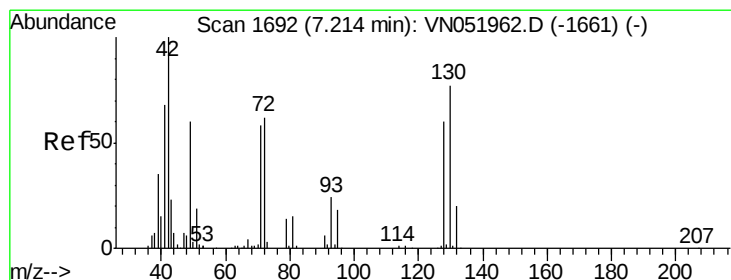
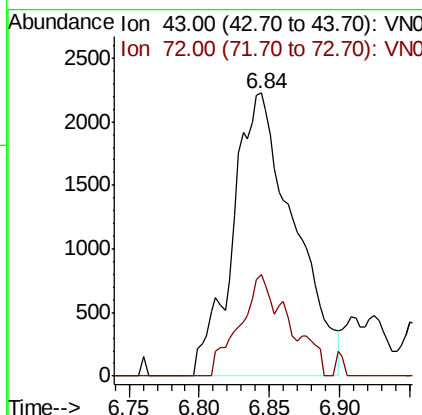
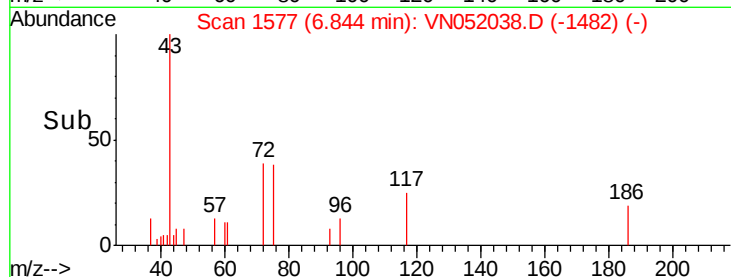
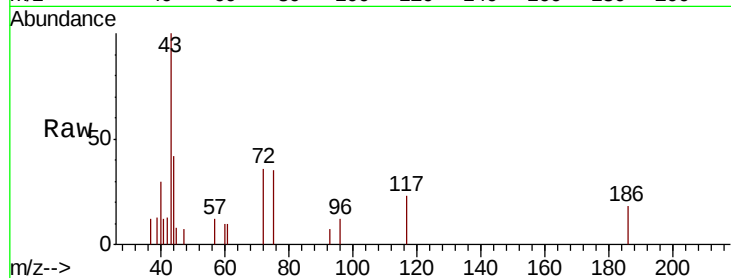




#25
2-Butanone
Concen: 2.586 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052038.D
Acq: 26 Oct 2018 19:40

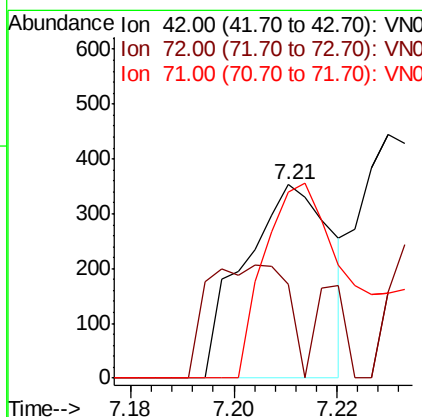
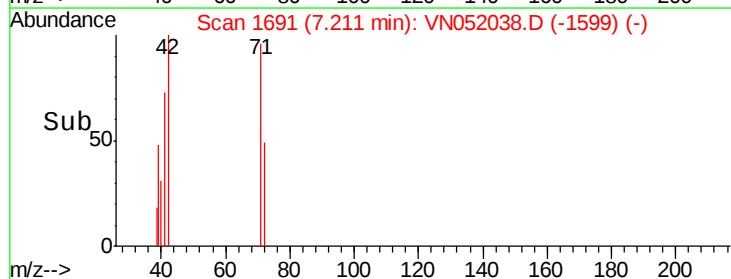
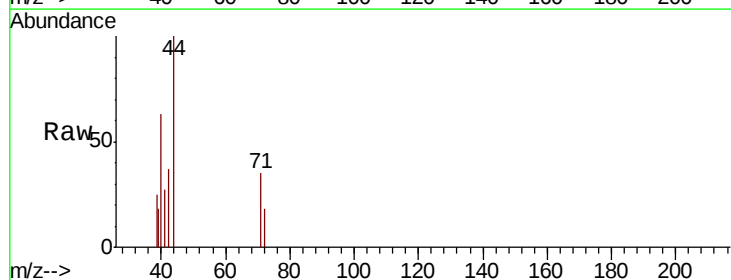
Instrument :
MSVOA_N
ClientSampled :
TP-13

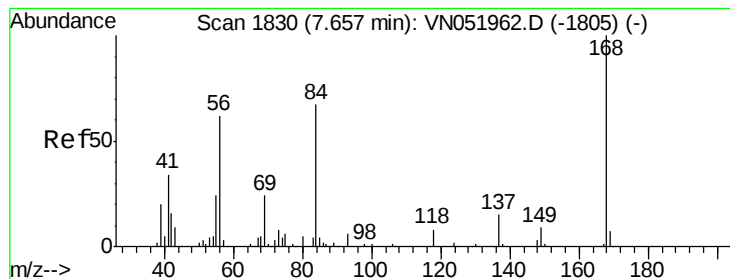
Tot Ion: 43 Resp: 6741
Ion Ratio Lower Upper
43 100
72 35.8 28.5 42.7



#29
Tetrahydrofuran
Concen: 0.233 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052038.D
Acq: 26 Oct 2018 19:40

Tgt Ion: 42 Resp: 412
Ion Ratio Lower Upper
42 100
72 15.5 47.5 71.3#
71 91.5 45.4 68.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampled :

TP-13

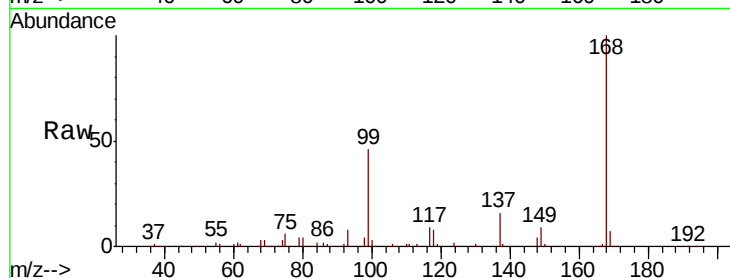
Tot Ion: 56 Resp: 19093

Ion Ratio Lower Upper

56 100

69 180.2 31.2 46.8#

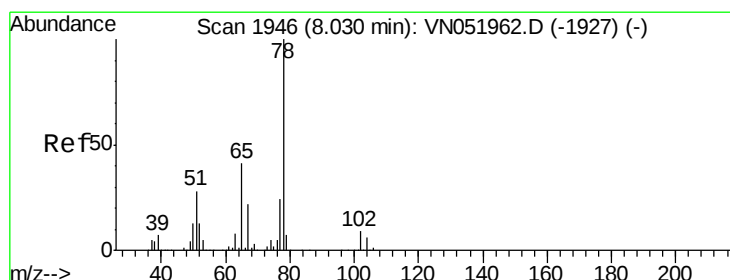
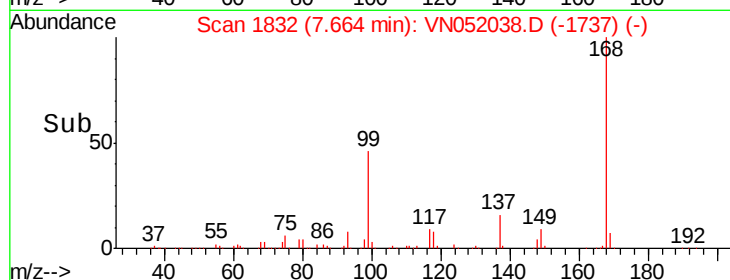
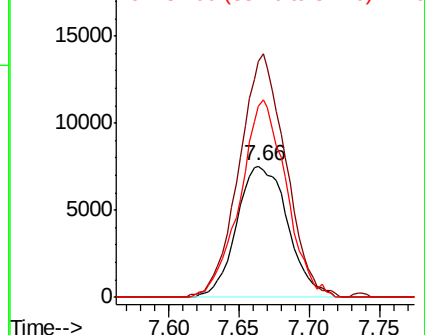
84 145.6 86.3 129.5#



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: VN052038.D

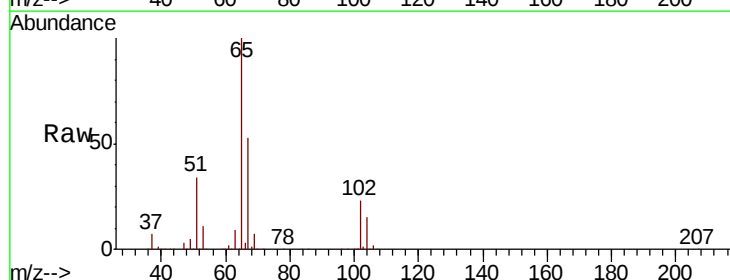
Acq: 26 Oct 2018 19:40

Tgt Ion: 65 Resp: 643006

Ion Ratio Lower Upper

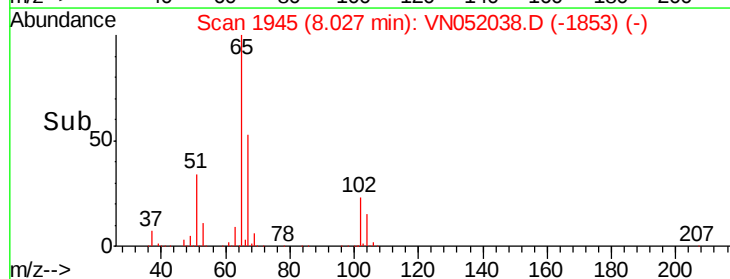
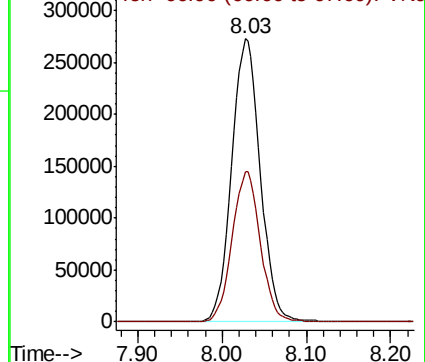
65 100

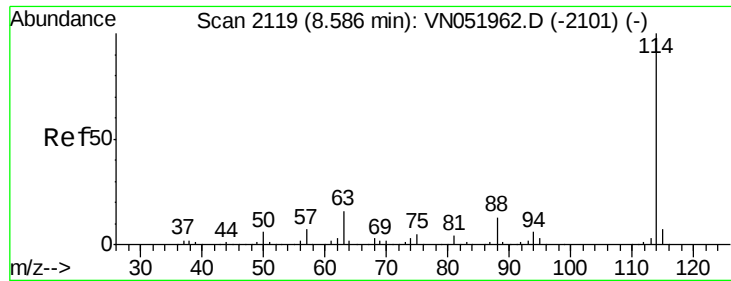
67 52.5 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

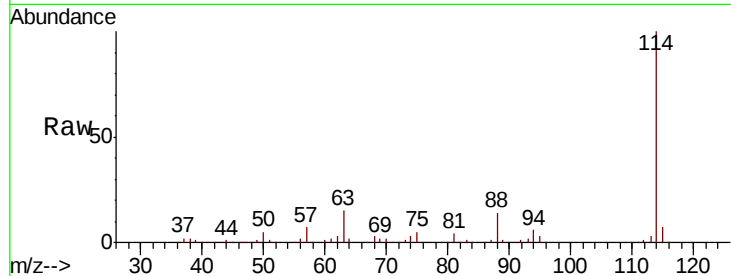




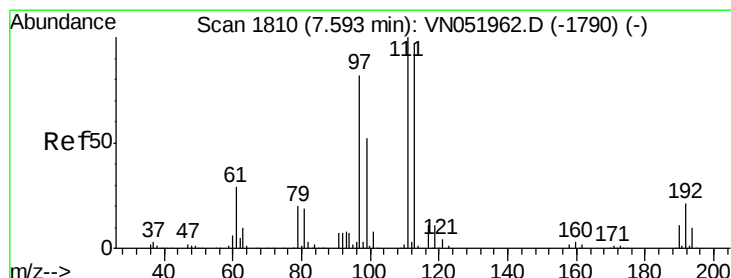
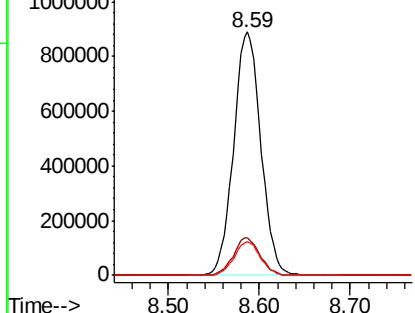
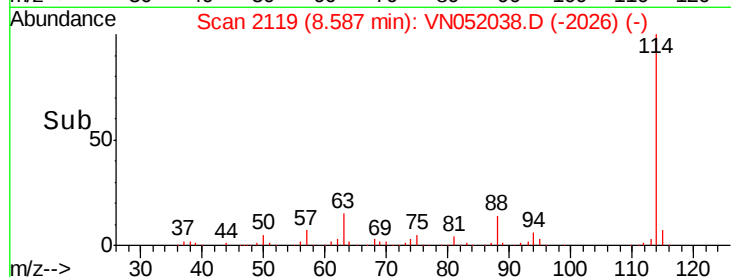
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052038.D
 Acq: 26 Oct 2018 19:40

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13

Tot Ion:114 Resp: 1842470
 Ion Ratio Lower Upper
 114 100
 63 15.3 0.0 31.2
 88 13.7 0.0 27.0

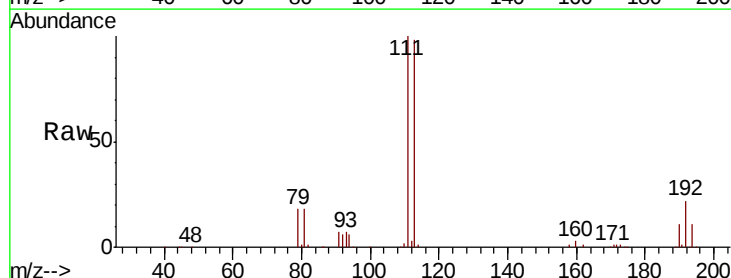


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

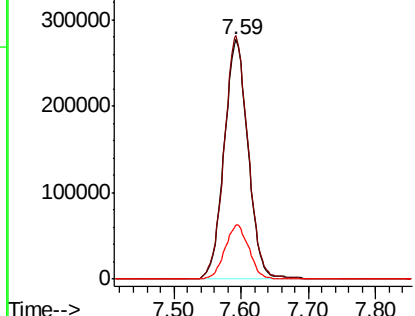
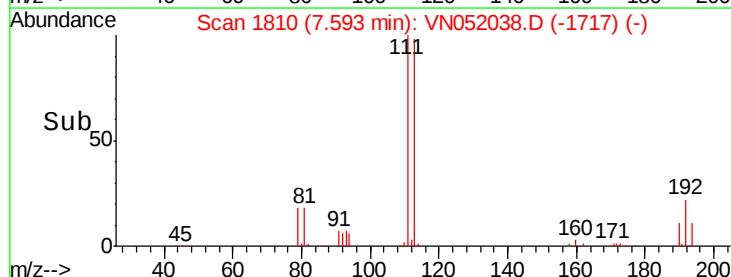


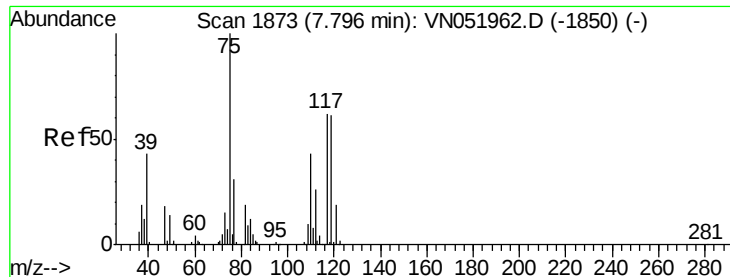
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052038.D
 Acq: 26 Oct 2018 19:40

Tgt Ion:113 Resp: 686405
 Ion Ratio Lower Upper
 113 100
 111 101.1 80.7 121.1
 192 22.6 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

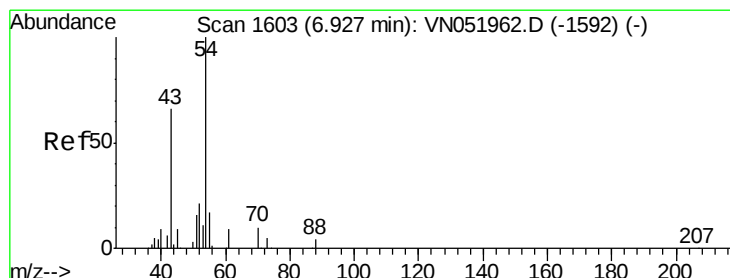
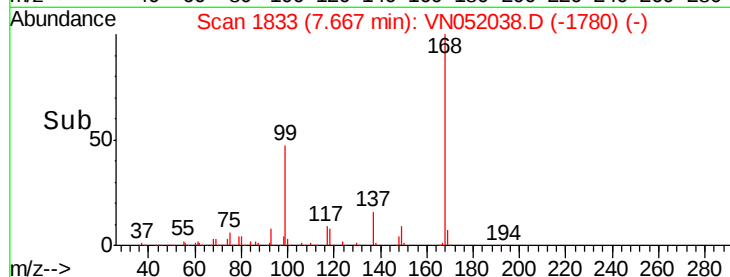
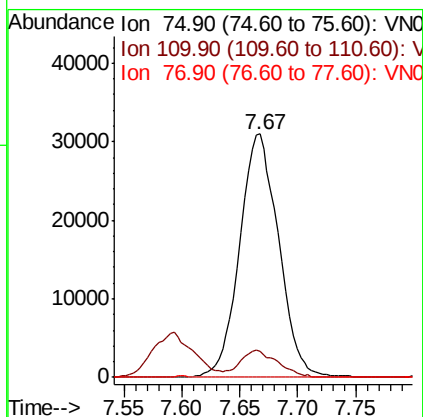
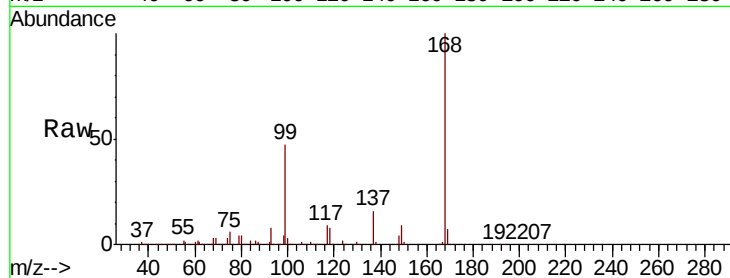




#36
 1,1-Dichloropropene
 Concen: 5.134 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052038.D
 Acq: 26 Oct 2018 19:40

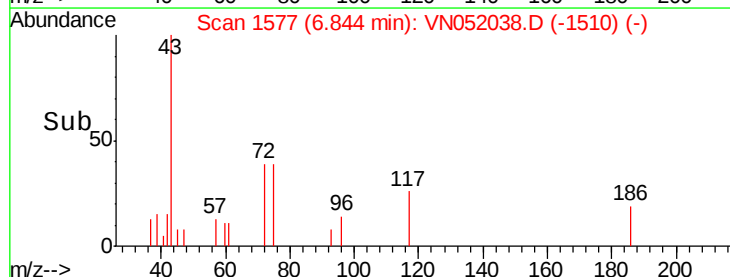
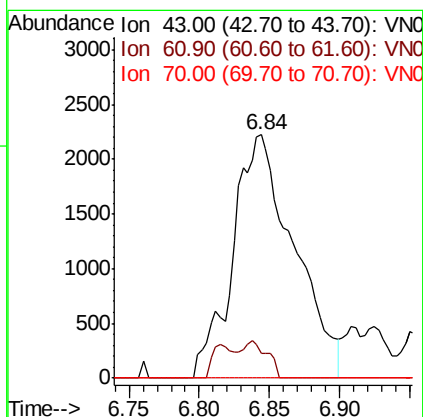
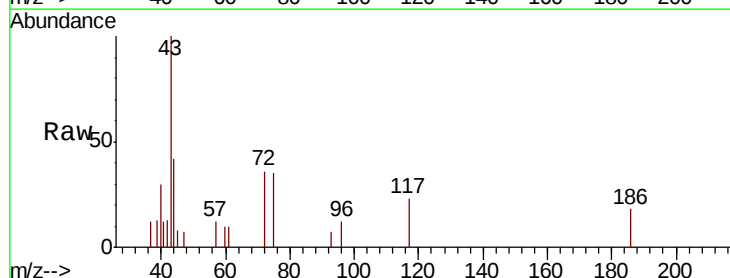
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13

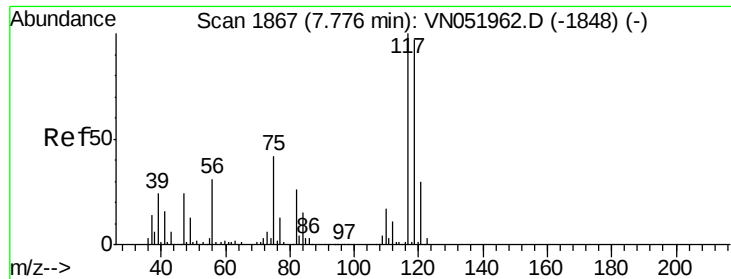
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.9	62.8#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.84 min Scan# 1577
 Delta R.T. -0.08 min
 Lab File: VN052038.D
 Acq: 26 Oct 2018 19:40

Tgt Ion	Ratio	Lower	Upper
43	100		
61	5.9	13.5	20.3#
70	0.0	9.8	14.6#





#38

Carbon Tetrachloride

Concen: 6.647 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

TP-13

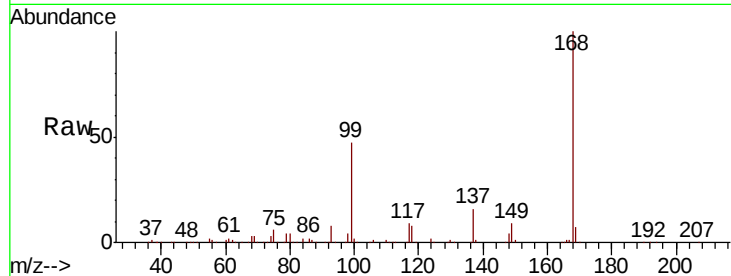
Tot Ion:117 Resp: 107843

Ion Ratio Lower Upper

117 100

119 4.7 77.4 116.0#

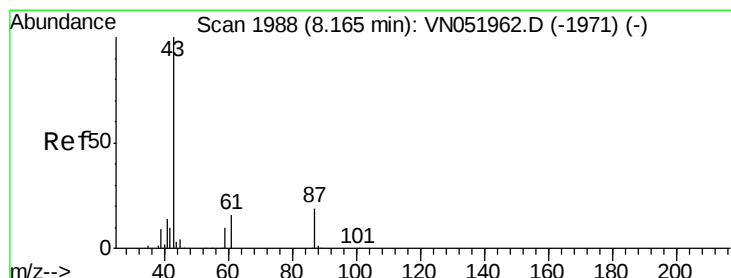
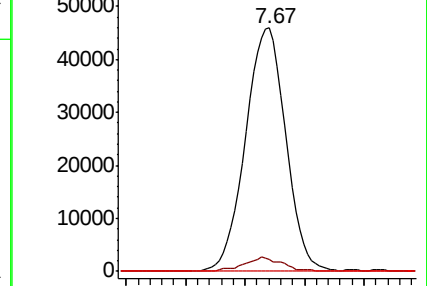
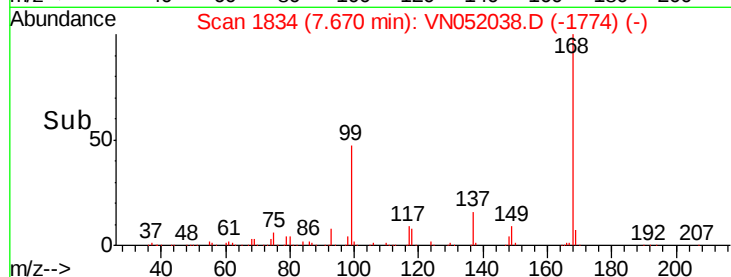
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 27.270 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

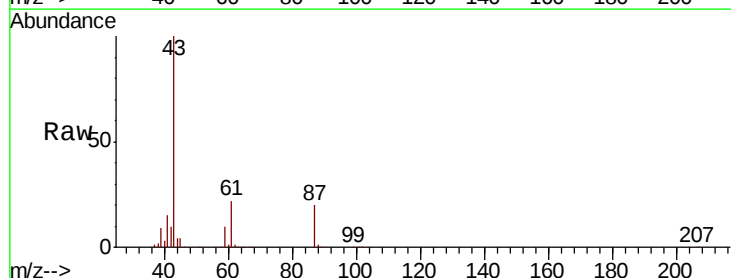
Tgt Ion: 43 Resp: 322780

Ion Ratio Lower Upper

43 100

61 20.8 17.2 25.8

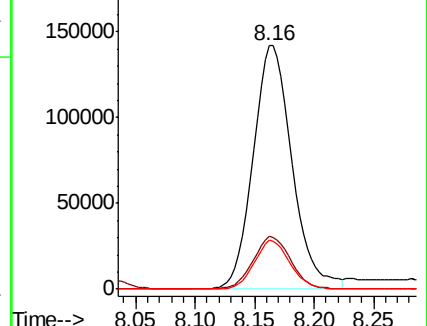
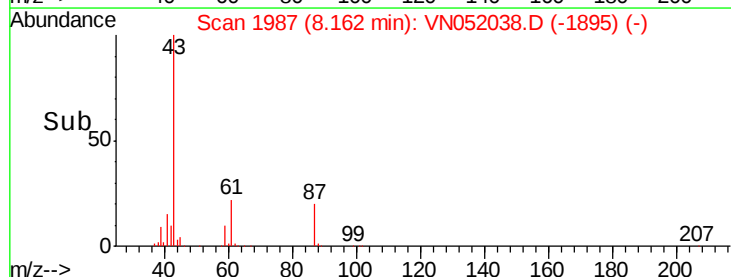
87 18.2 15.2 22.8

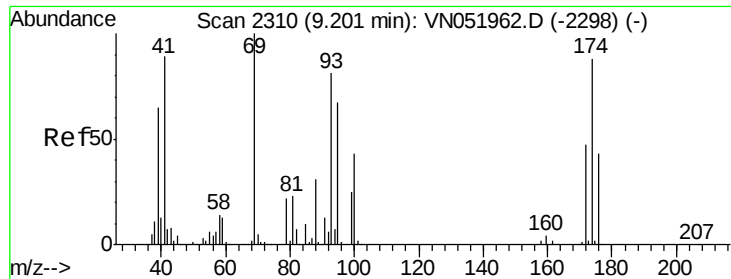


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

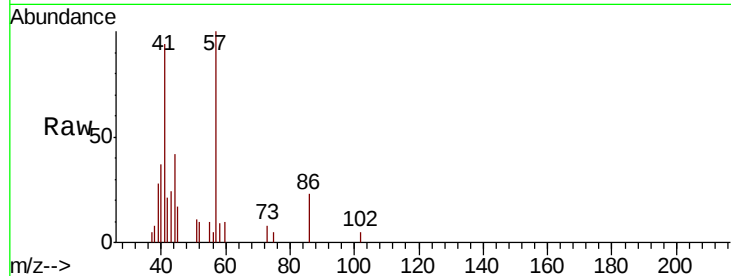




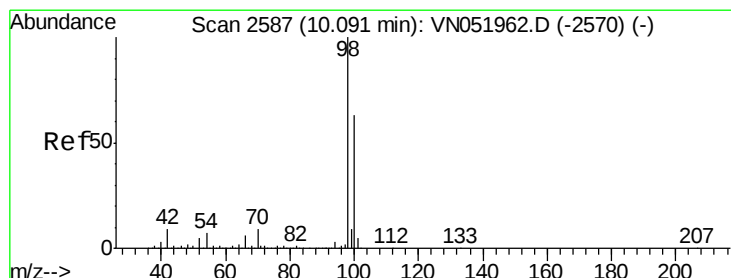
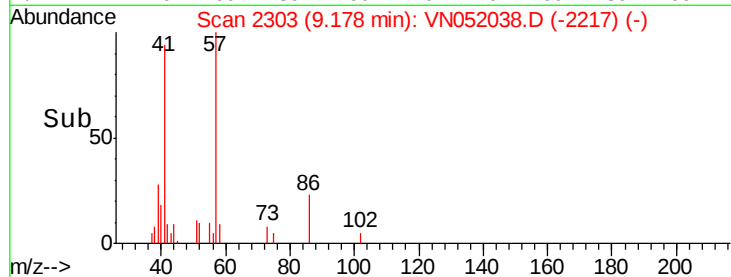
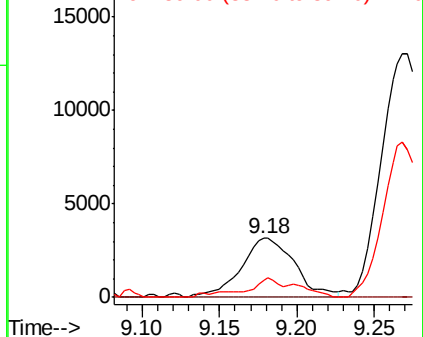
#48
Methvl methacrylate
Concen: 1.336 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052038.D
Acq: 26 Oct 2018 19:40

Instrument :
MSVOA_N
ClientSampleId :
TP-13

Tot Ion: 41 Resp: 7644
Ion Ratio Lower Upper
41 100
69 0.0 92.2 138.4#
39 8.3 60.2 90.4#

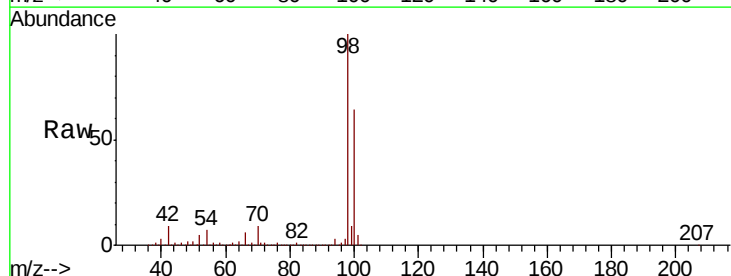


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

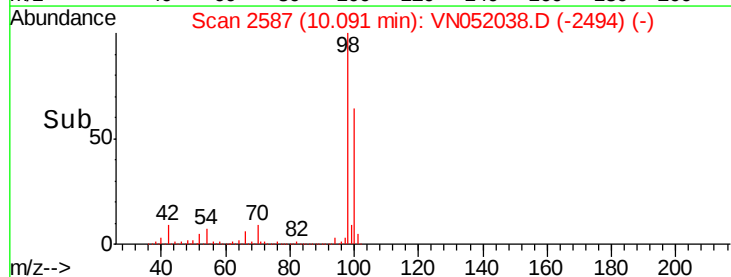
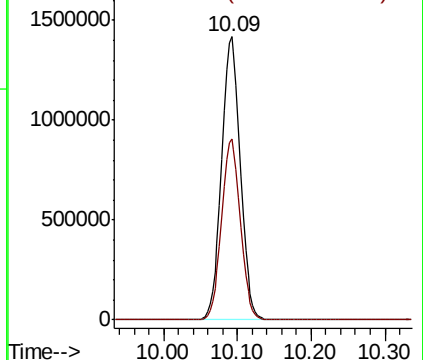


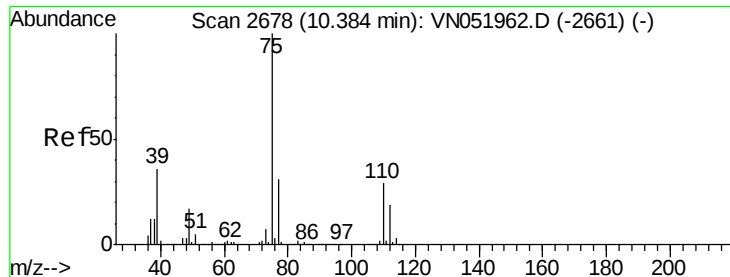
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052038.D
Acq: 26 Oct 2018 19:40

Tgt Ion: 98 Resp: 2507372
Ion Ratio Lower Upper
98 100
100 64.0 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: 1.248 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.16 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampled :

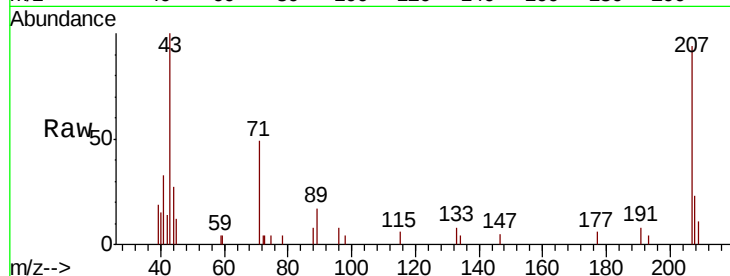
TP-13

Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.54

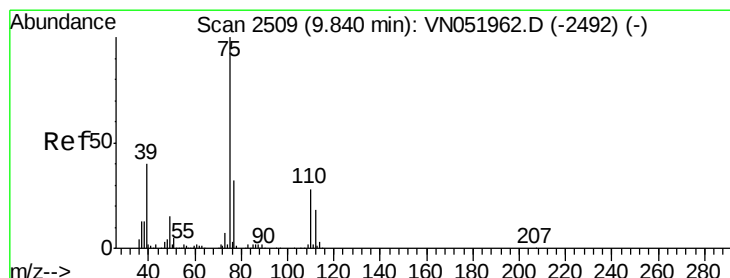
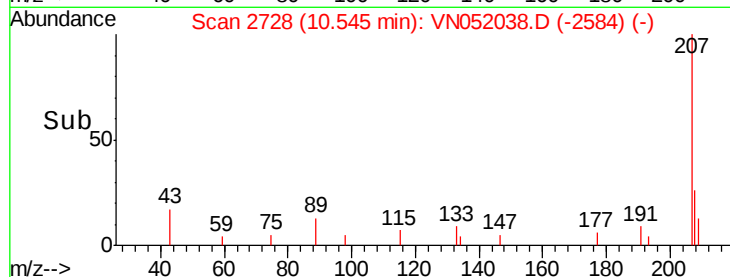
150

100

50

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.224 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

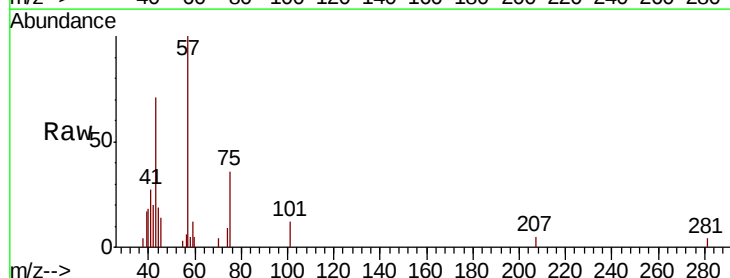
Tgt Ion: 75 Resp: 3389

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 39.3 32.0 48.0



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

2500

2000

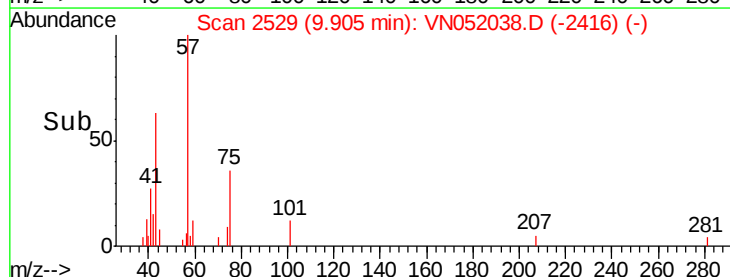
1500

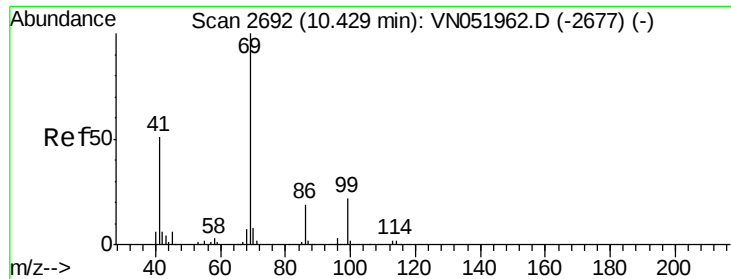
1000

500

0

Time-->





#56

Ethyl methacrylate

Concen: 0.282 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

TP-13

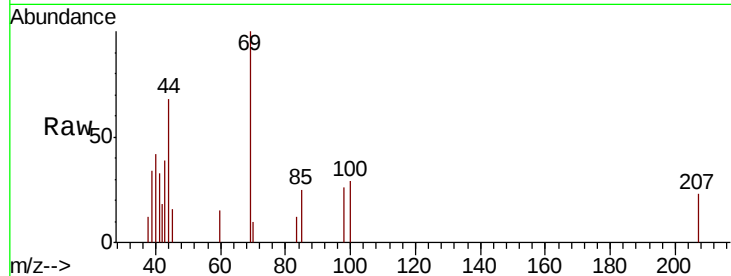
Tot Ion: 69 Resp: 3186

Ion Ratio Lower Upper

69 100

41 41.8 40.7 61.1

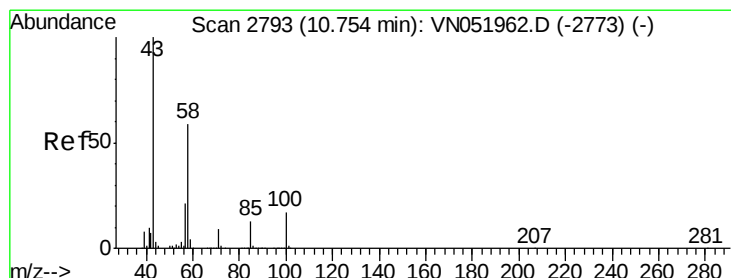
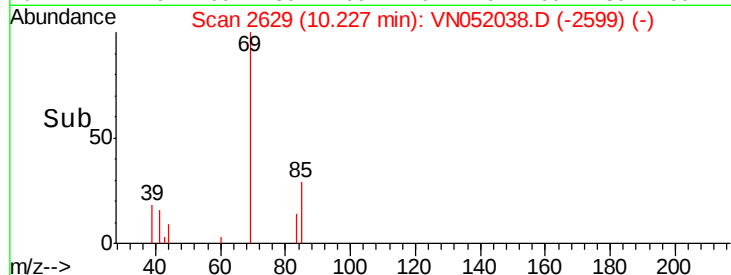
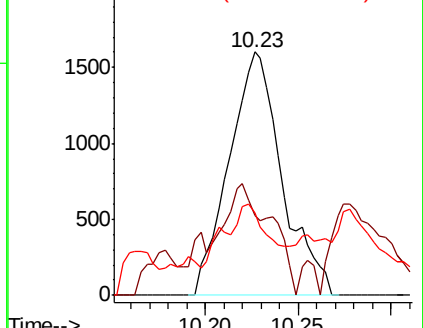
39 20.7 29.3 43.9#



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



#59

2-Hexanone

Concen: 4.153 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052038.D

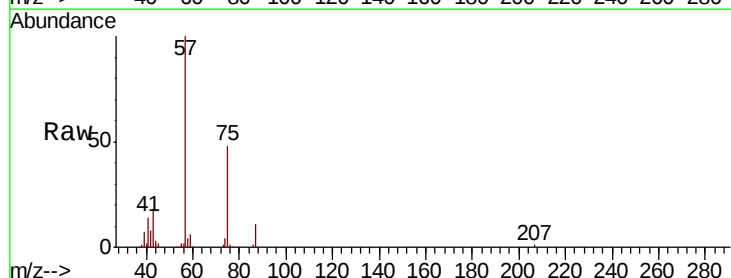
Acq: 26 Oct 2018 19:40

Tgt Ion: 43 Resp: 18169

Ion Ratio Lower Upper

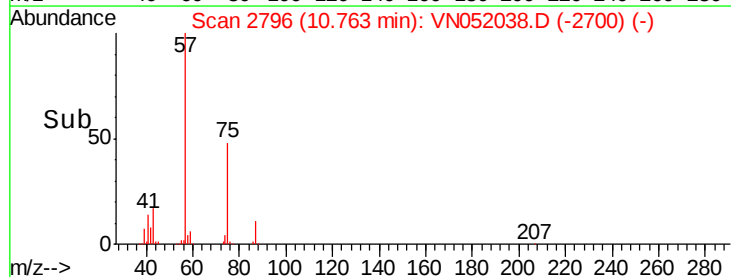
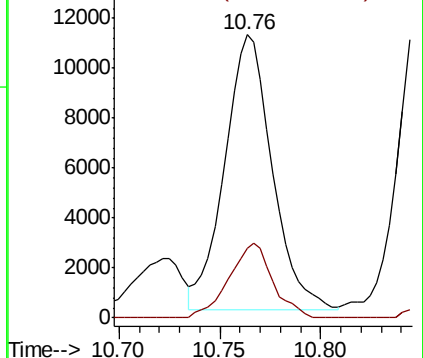
43 100

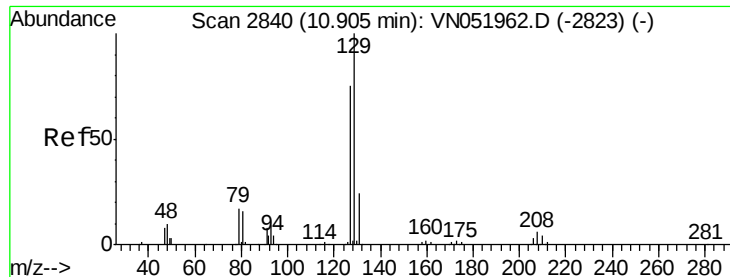
58 25.0 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#60

Dibromochloromethane

Concen: 1.983 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

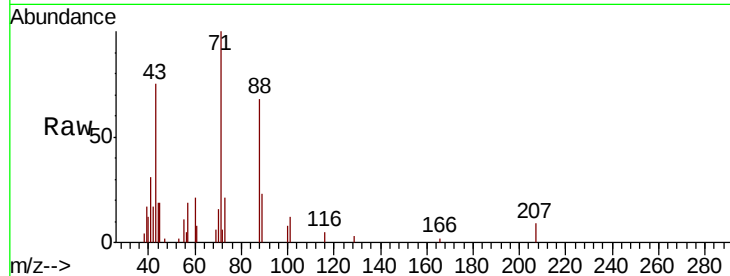
TP-13

Tot Ion:129 Resp: 76

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

10.63

200

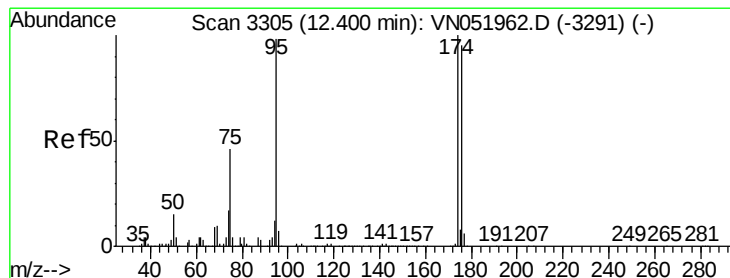
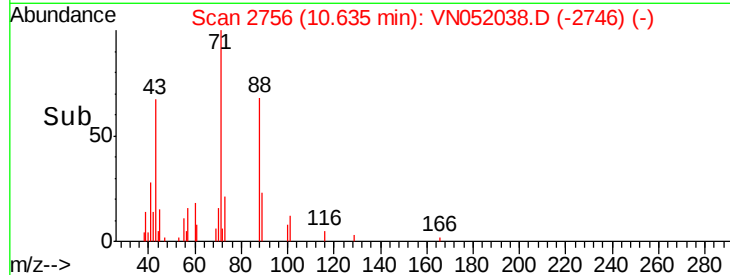
150

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: VN052038.D

Acq: 26 Oct 2018 19:40

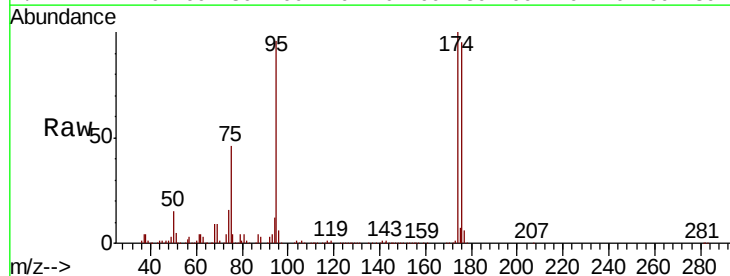
Tgt Ion: 95 Resp: 808120

Ion Ratio Lower Upper

95 100

174 103.8 0.0 206.0

176 100.3 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

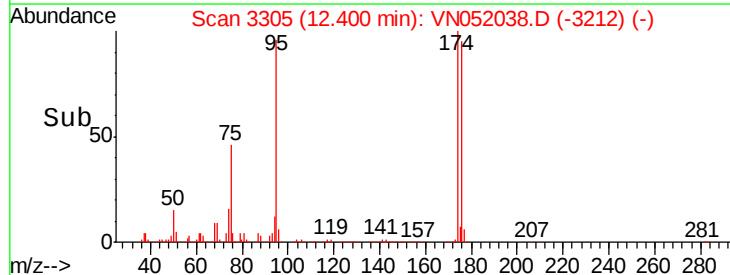
600000

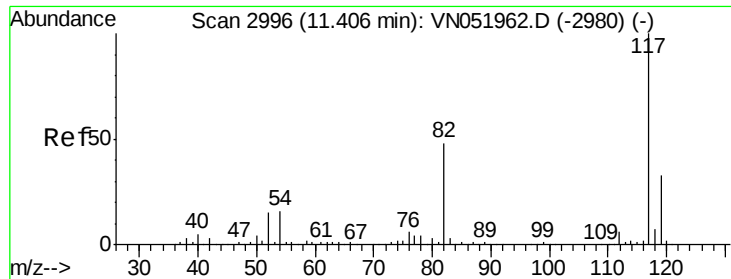
400000

200000

0

Time-->

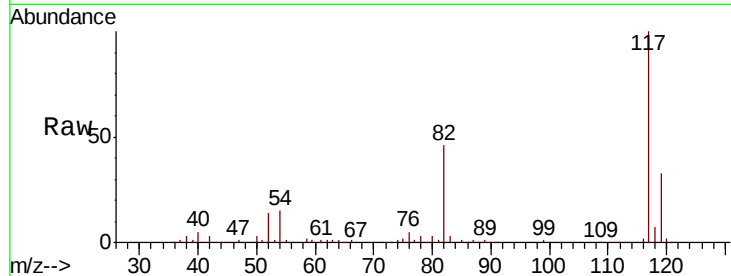




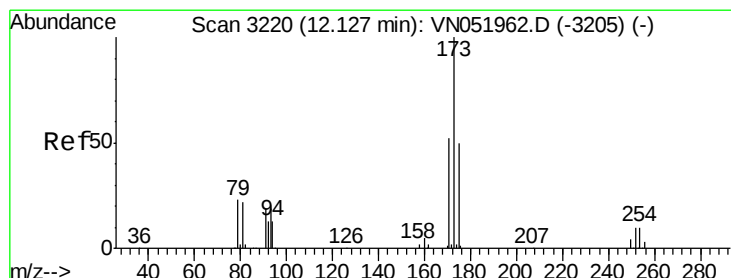
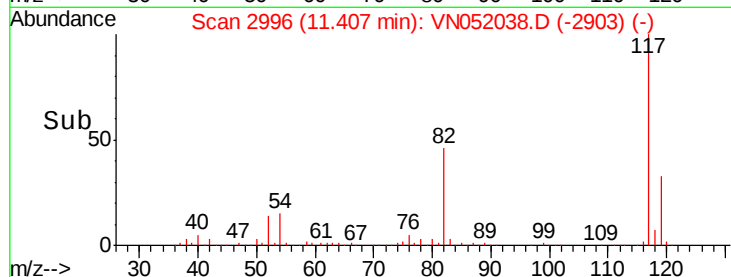
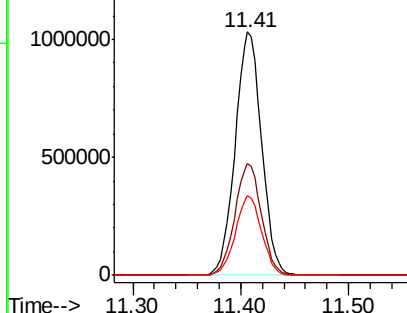
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN052038.D
 Acq: 26 Oct 2018 19:40

Instrument :
 MSVOA_N
 ClientSampled :
 TP-13

Tot Ion:117 Resp: 1760485
 Ion Ratio Lower Upper
 117 100
 82 45.9 38.1 57.1
 119 32.7 26.4 39.6

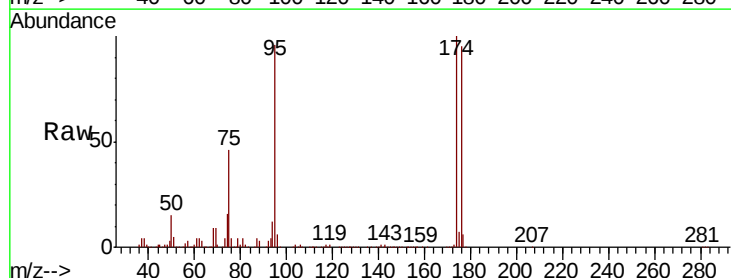


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

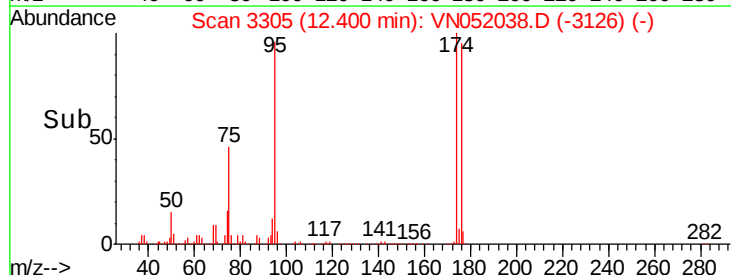
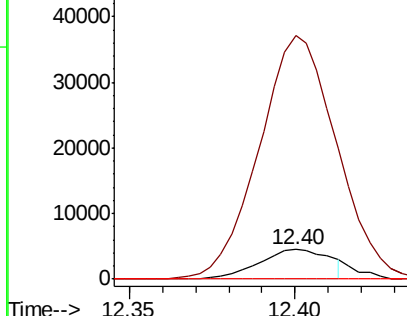


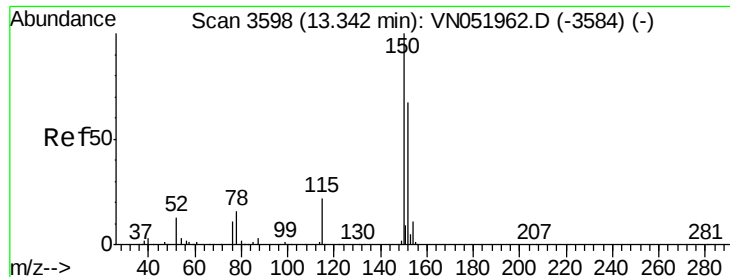
#71
 Bromoform
 Concen: 4.348 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.27 min
 Lab File: VN052038.D
 Acq: 26 Oct 2018 19:40

Tgt Ion:173 Resp: 6687
 Ion Ratio Lower Upper
 173 100
 175 804.8 24.6 74.0#
 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: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampled :

TP-13

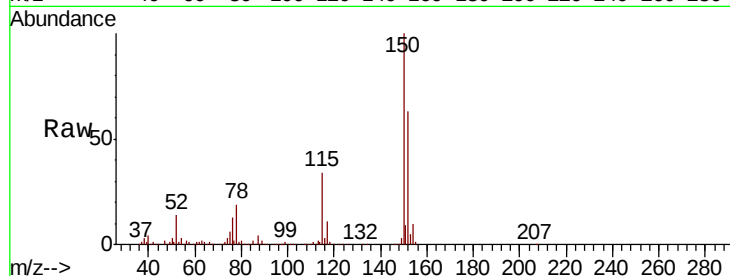
Tot Ion:152 Resp: 827410

Ion Ratio Lower Upper

152 100

115 52.6 25.8 77.3

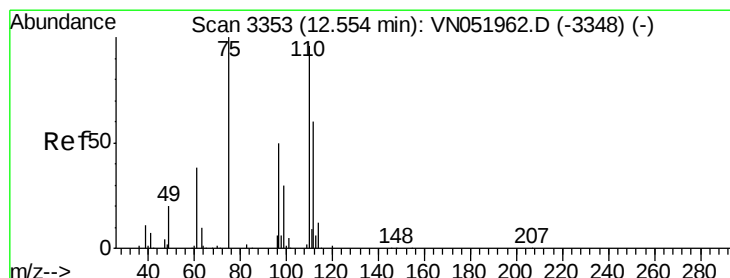
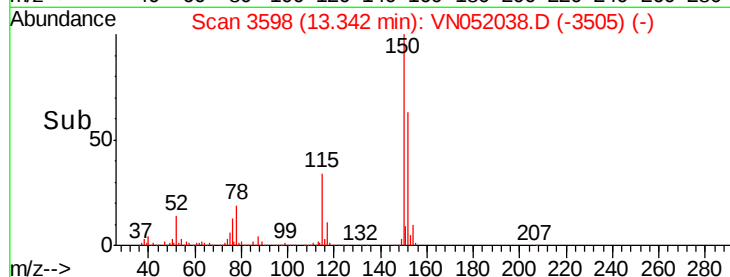
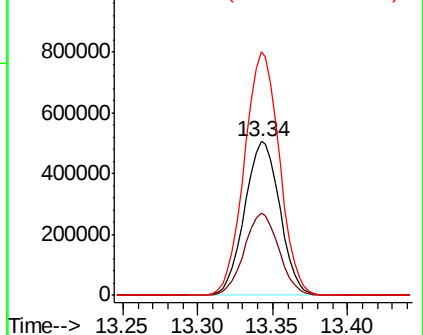
150 157.9 0.0 344.4



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: 45.591 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052038.D

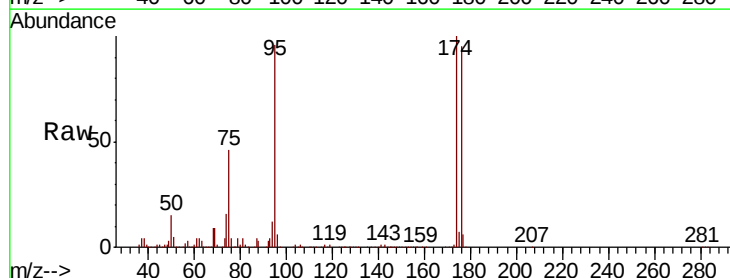
Acq: 26 Oct 2018 19:40

Tgt Ion: 75 Resp: 389648

Ion Ratio Lower Upper

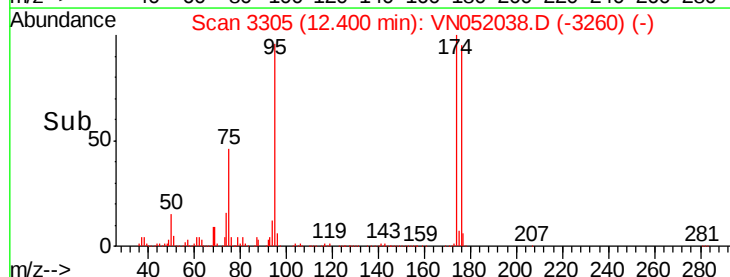
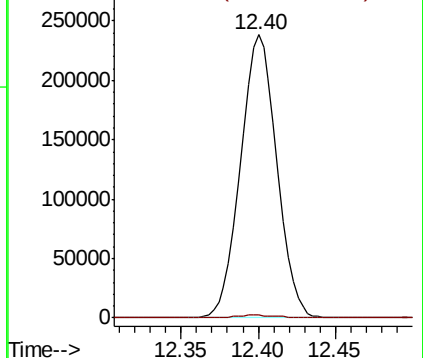
75 100

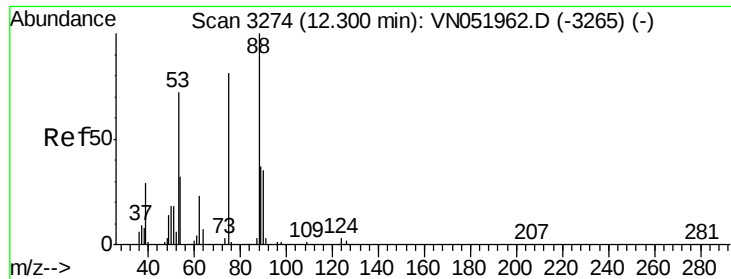
77 1.1 0.0 0.0#



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: 143.465 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052038.D

Acq: 26 Oct 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

TP-13

Tot Ion: 75 Resp: 389648

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#

