

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102618\
 Data File : VN052037.D
 Acq On : 26 Oct 2018 19:13
 Operator : MD\SY
 Sample : J5675-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Oct 26 23:27:01 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	1185249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1751607	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1664768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	779755	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	603600	57.18	ug/l	0.00
Spiked Amount			Recovery	=	114.36%	
35) Dibromofluoromethane	7.59	113	645916	57.79	ug/l	0.00
Spiked Amount			Recovery	=	115.58%	
50) Toluene-d8	10.09	98	2372770	58.75	ug/l	0.00
Spiked Amount			Recovery	=	117.50%	
62) 4-Bromofluorobenzene	12.40	95	759223	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	

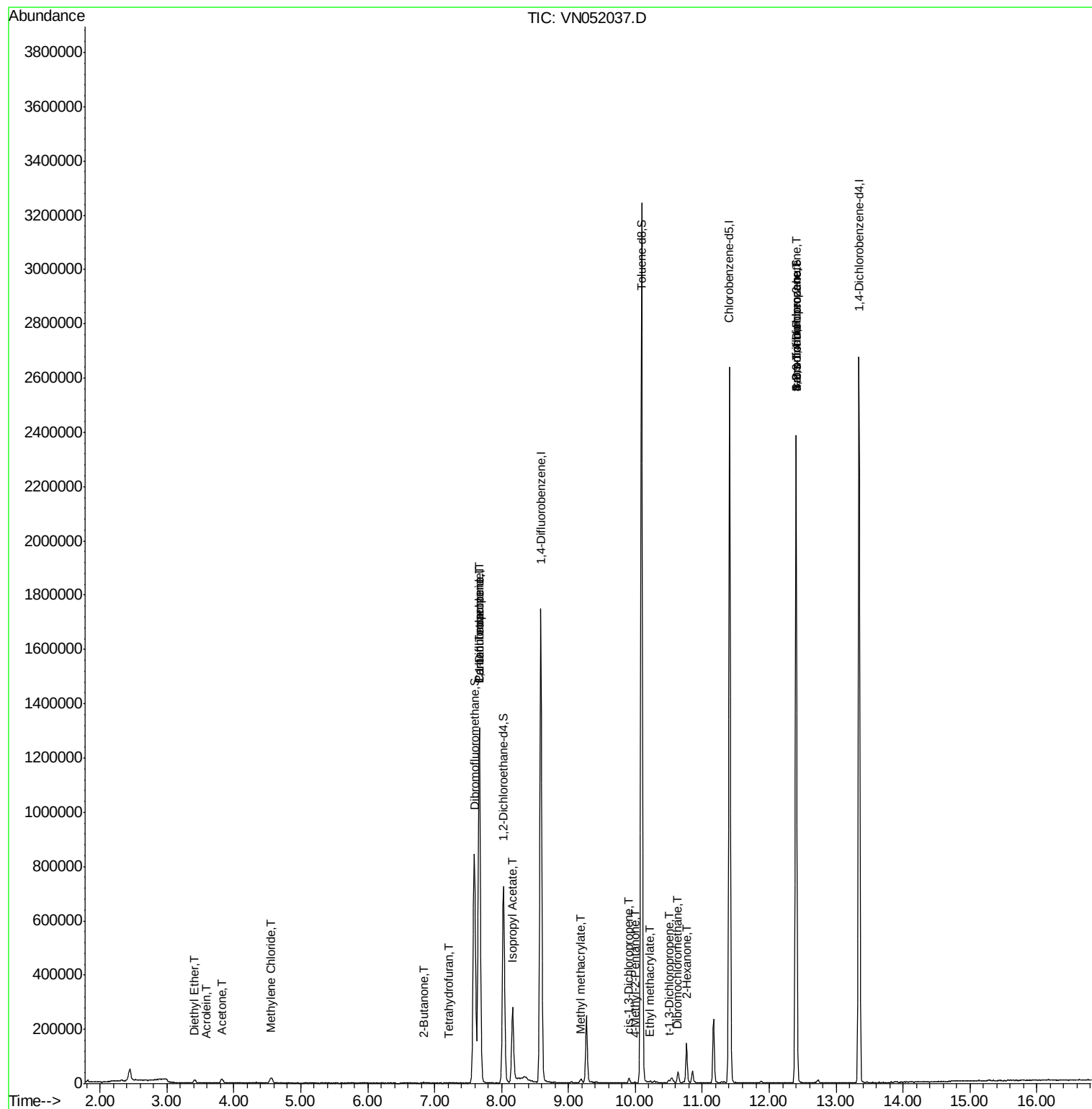
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	5924	1.232	ug/l	75
13) Acrolein	3.59	56	32	37.359	ug/l #	14
16) Acetone	3.82	43	25376	14.591	ug/l	97
18) Methyl Acetate	4.34	43	3552	Below Cal		93
20) Methylene Chloride	4.56	84	15915	1.560	ug/l #	90
25) 2-Butanone	6.84	43	536	0.216	ug/l #	39
29) Tetrahydrofuran	7.21	42	769	0.458	ug/l #	43
31) Cyclohexane	7.66	56	17722	Below Cal	#	23
36) 1,1-Dichloropropene	7.67	75	68636	5.108	ug/l #	47
37) Ethyl Acetate	6.91	43	192	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	101657	6.590	ug/l #	16
43) Isopropyl Acetate	8.17	43	314409	27.941	ug/l	97
48) Methyl methacrylate	9.18	41	7185	1.321	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	1566	0.253	ug/l #	32
53) t-1,3-Dichloropropene	10.49	75	32	1.246	ug/l #	43
54) cis-1,3-Dichloropropene	9.90	75	3550	0.247	ug/l #	72
56) Ethyl methacrylate	10.22	69	2909	0.271	ug/l	93
59) 2-Hexanone	10.77	43	18952	4.557	ug/l #	50
60) Dibromochloromethane	10.62	129	30	1.980	ug/l #	11
71) Bromoform	12.40	173	6323	4.348	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	364657	45.274	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	364657	142.482	ug/l #	12

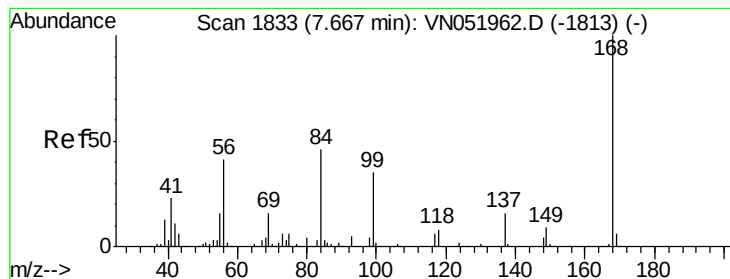
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102618\
Data File : VN052037.D
Acq On : 26 Oct 2018 19:13
Operator : MD\SY
Sample : J5675-04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
TP-5

Quant Time: Oct 26 23:27:01 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# 1833

Delta R.T. 0.00 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

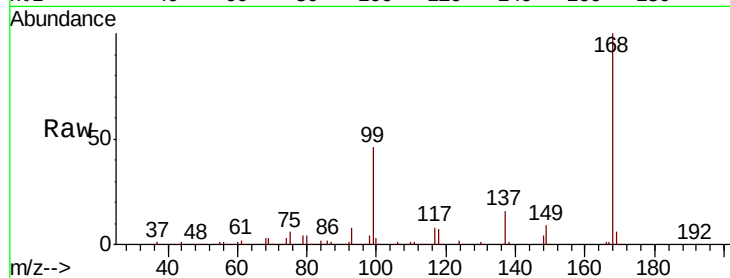
TP-5

Tot Ion:168 Resp: 1185249

Ion Ratio Lower Upper

168 100

99 45.8 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

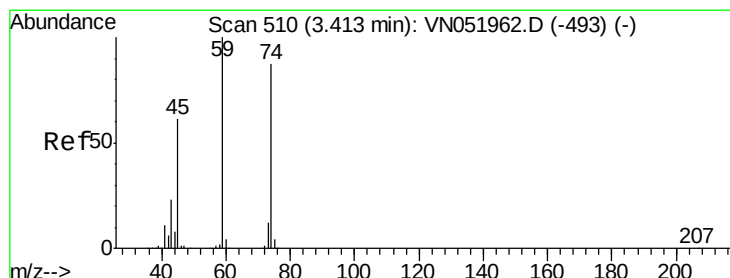
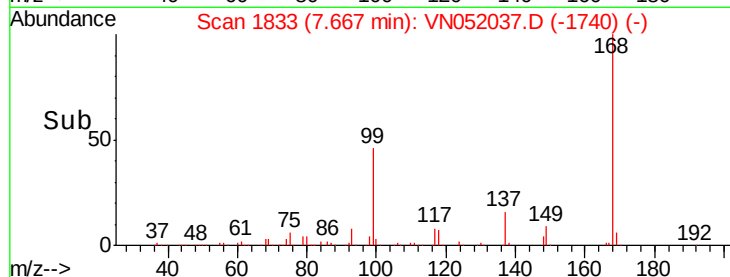
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 1.232 ug/l

RT: 3.41 min Scan# 508

Delta R.T. -0.01 min

Lab File: VN052037.D

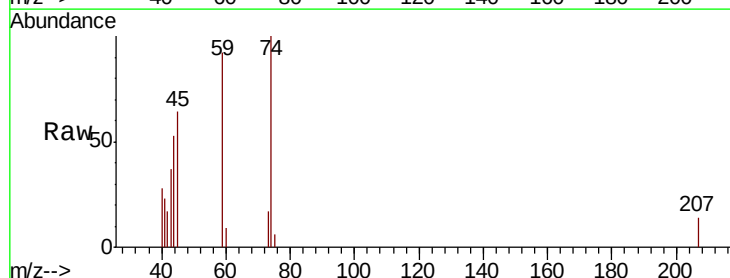
Acq: 26 Oct 2018 19:13

Tgt Ion: 74 Resp: 5924

Ion Ratio Lower Upper

74 100

45 92.0 35.5 106.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

3000

2500

2000

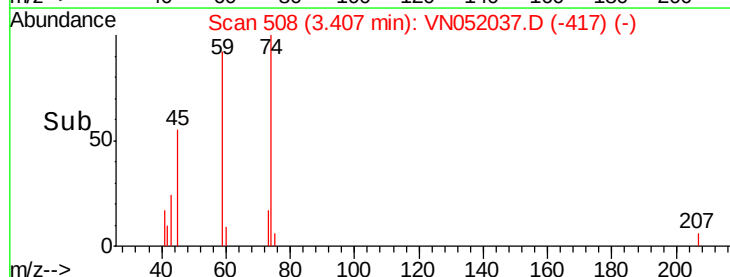
1500

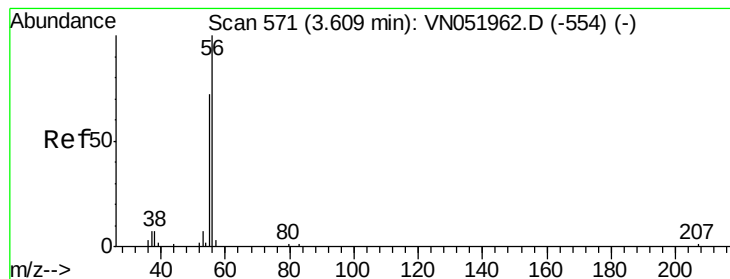
1000

500

0

Time-->





#13

Acrolein

Concen: 37.359 ug/l

RT: 3.59 min Scan# 565

Delta R.T. -0.02 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

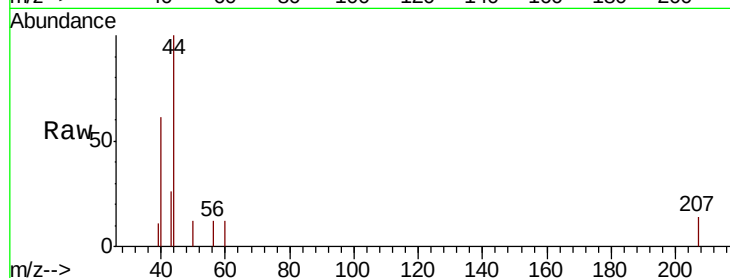
TP-5

Tot Ion: 56 Resp: 32

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN051962.D (-554) (-)

Ion 55.00 (54.70 to 55.70): VN051962.D (-554) (-)

3.59

150

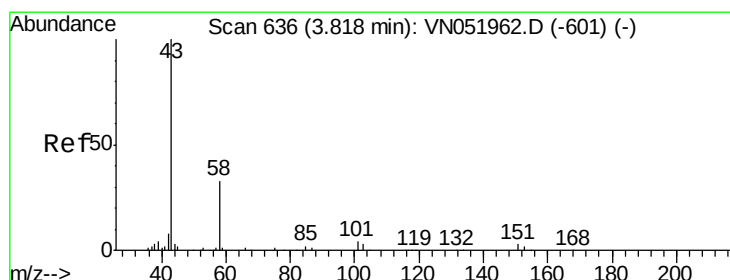
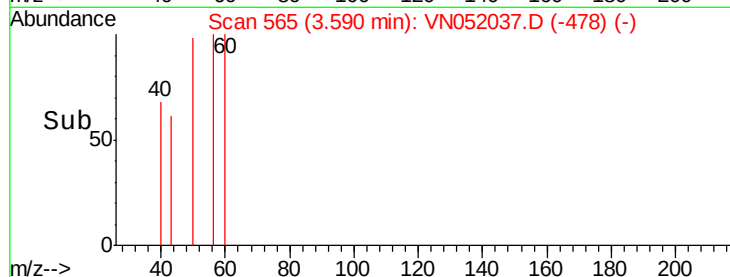
100

50

0

3.58 3.59 3.59 3.60 3.60

Time-->



#16

Acetone

Concen: 14.591 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052037.D

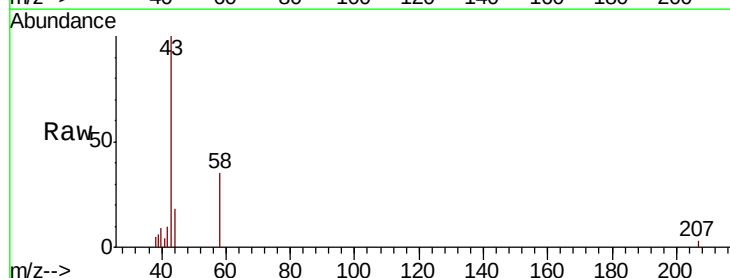
Acq: 26 Oct 2018 19:13

Tgt Ion: 43 Resp: 25376

Ion Ratio Lower Upper

43 100

58 34.9 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN051962.D (-601) (-)

3.82

10000

8000

6000

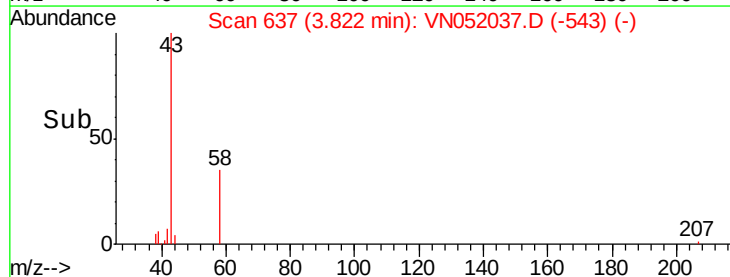
4000

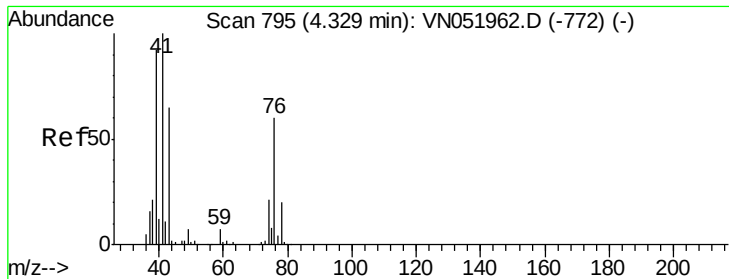
2000

0

3.75 3.80 3.82 3.85 3.90

Time-->

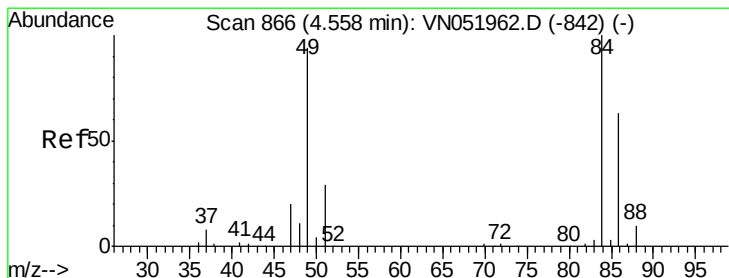
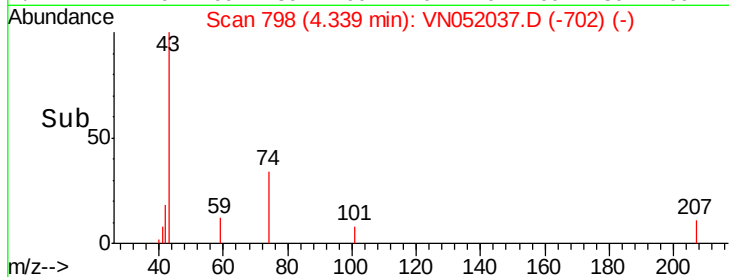
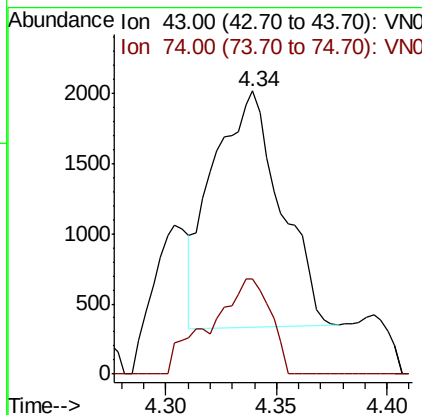
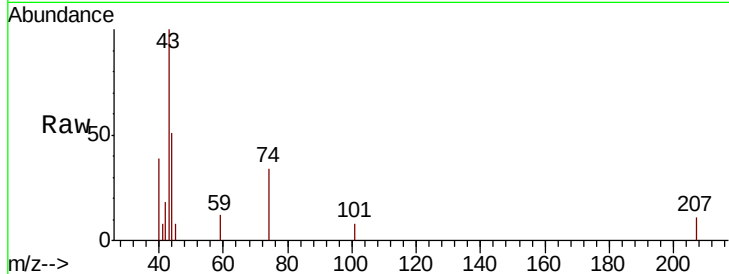




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

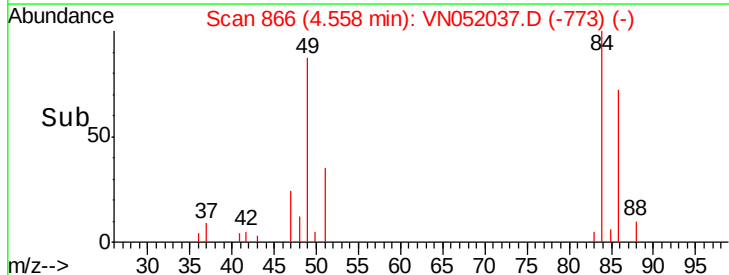
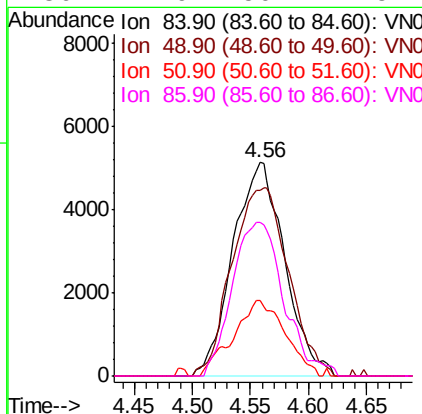
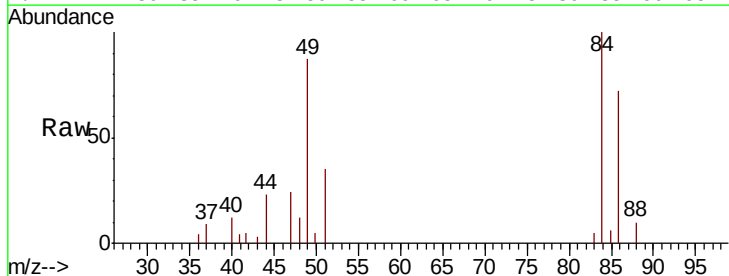
Instrument :
MSVOA_N
ClientSampleId :
TP-5

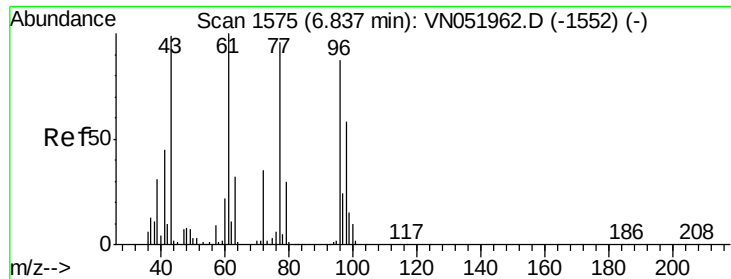
Tot Ion: 43 Resp: 3552
Ion Ratio Lower Upper
43 100
74 36.1 25.7 38.5



#20
Methylene Chloride
Concen: 1.560 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

Tgt Ion: 84 Resp: 15915
Ion Ratio Lower Upper
84 100
49 87.0 75.4 113.0
51 35.4 23.1 34.7#
86 71.9 50.2 75.4





#25

2-Butanone

Concen: 0.216 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

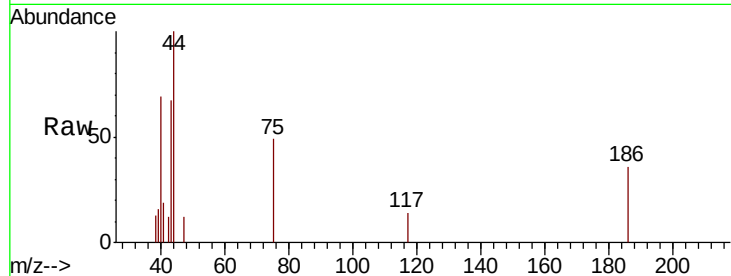
Instrument :
MSVOA_N
ClientSampled :
TP-5

Tot Ion: 43 Resp: 536

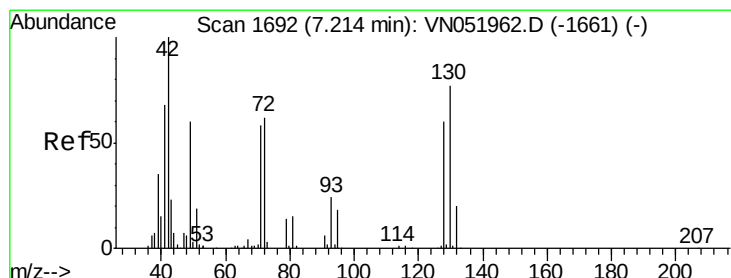
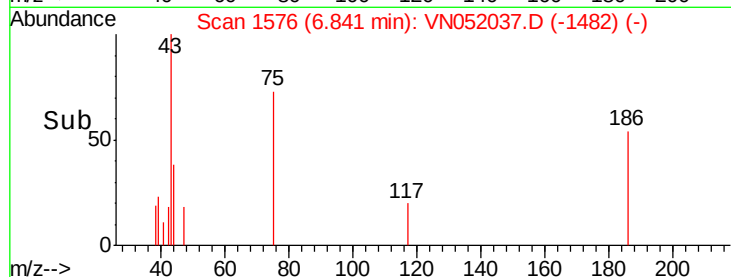
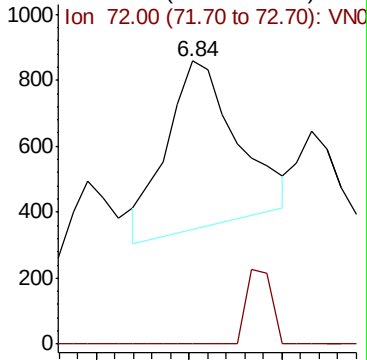
Ion Ratio Lower Upper

43 100

72 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0



#29

Tetrahydrofuran

Concen: 0.458 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

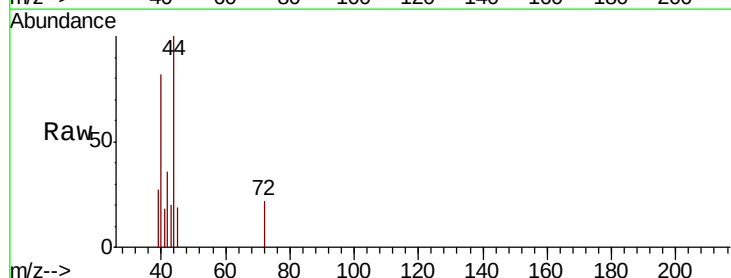
Tgt Ion: 42 Resp: 769

Ion Ratio Lower Upper

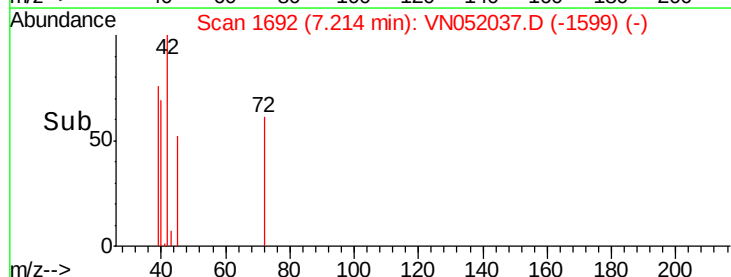
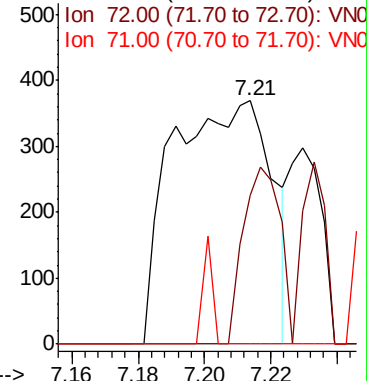
42 100

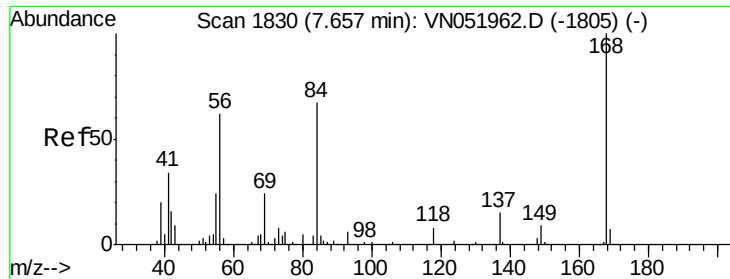
72 27.2 47.5 71.3#

71 4.2 45.4 68.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

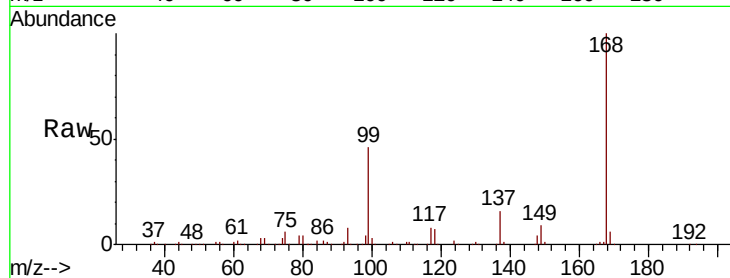




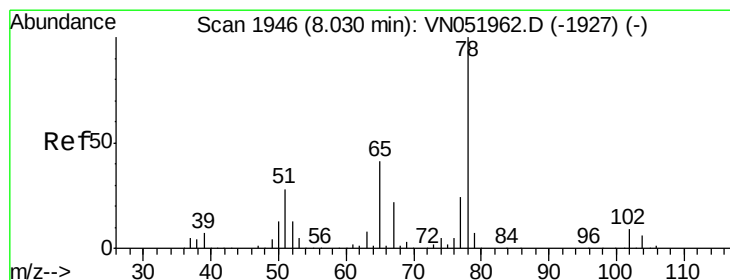
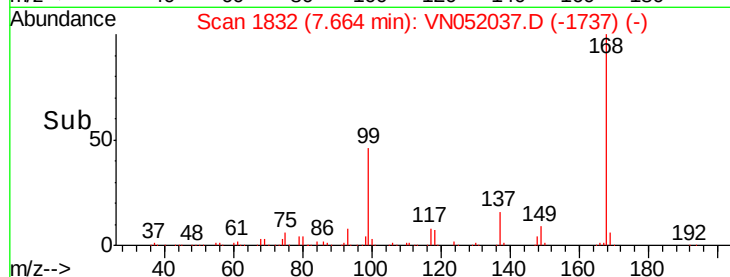
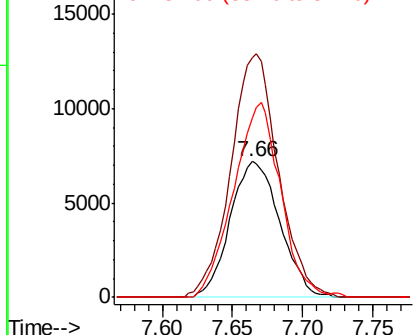
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

Instrument :
MSVOA_N
ClientSampled :
TP-5

Tot Ion: 56 Resp: 17722
Ion Ratio Lower Upper
56 100
69 176.8 31.2 46.8#
84 132.0 86.3 129.5#

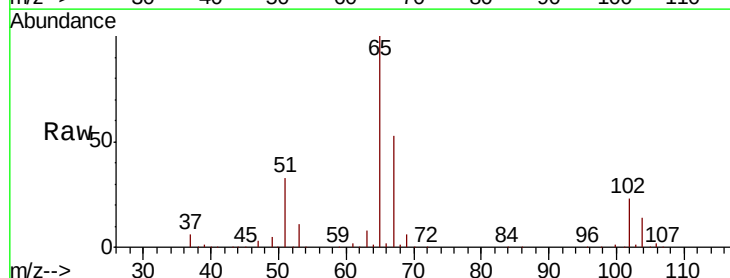


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

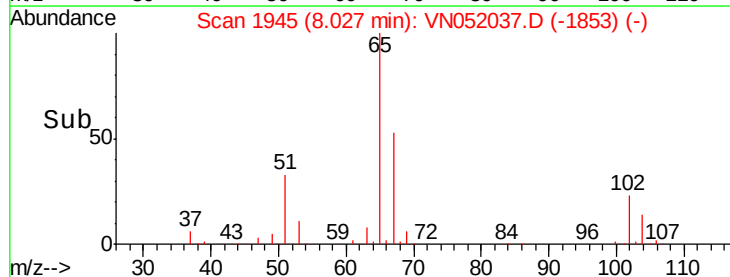
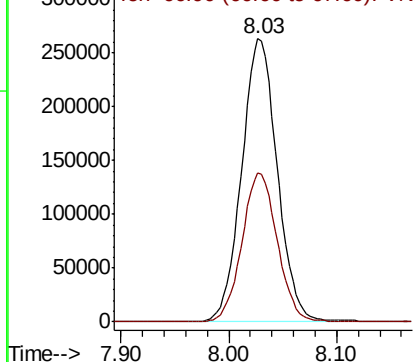


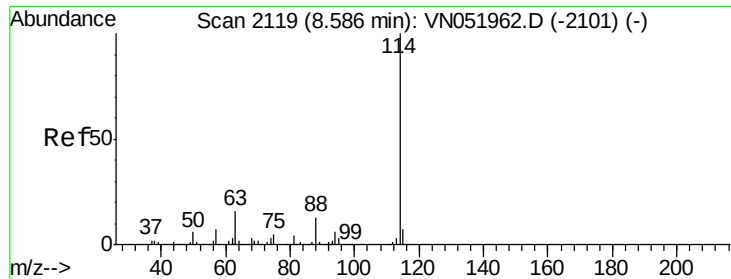
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

Tgt Ion: 65 Resp: 603600
Ion Ratio Lower Upper
65 100
67 52.2 0.0 105.8



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



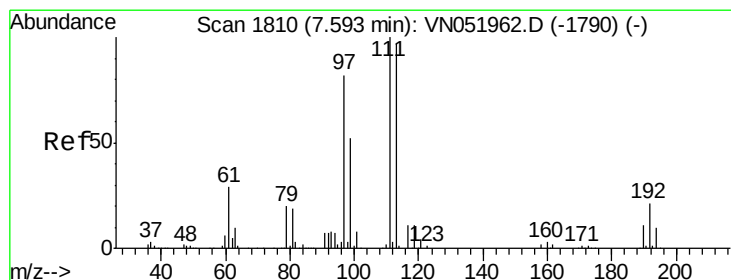
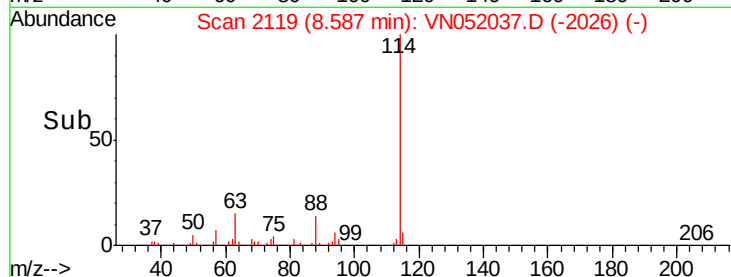
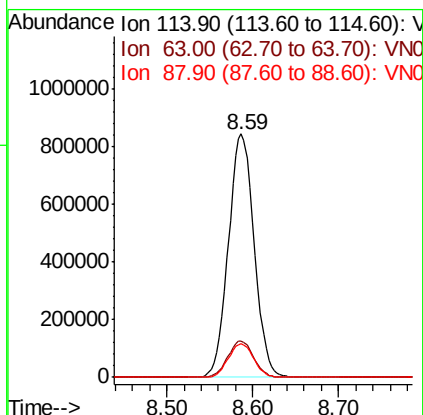
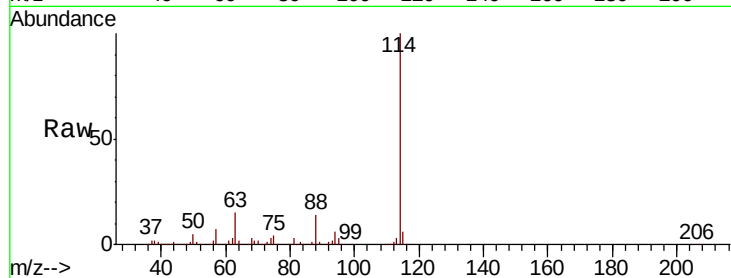


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052037.D
 Acq: 26 Oct 2018 19:13

Instrument :
 MSVOA_N
 ClientSampled :
 TP-5

Tot Ion:114 Resp: 1751607

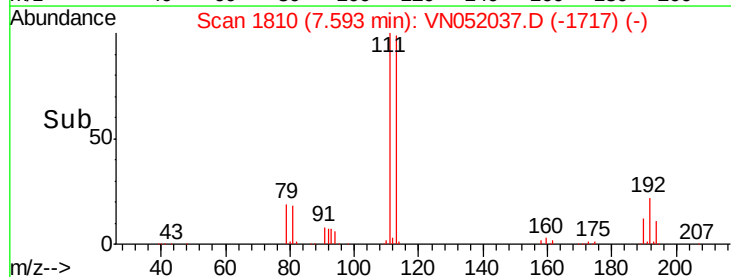
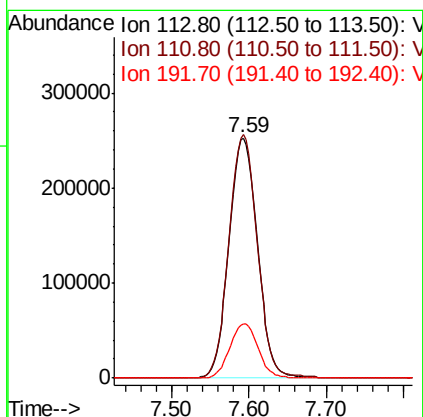
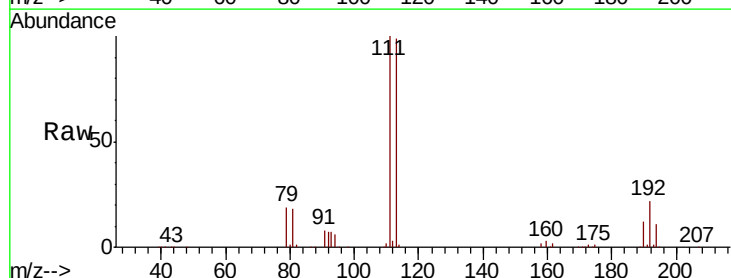
Ion	Ratio	Lower	Upper
114	100		
63	15.1	0.0	31.2
88	13.6	0.0	27.0

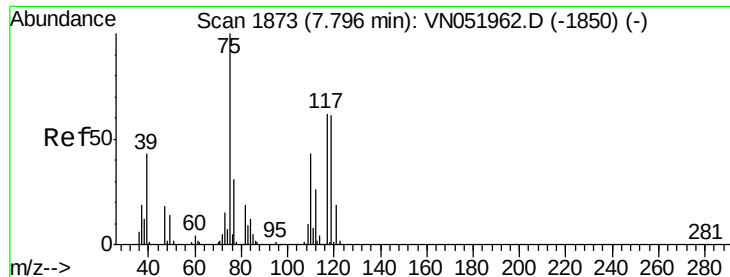


#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052037.D
 Acq: 26 Oct 2018 19:13

Tgt Ion:113 Resp: 645916

Ion	Ratio	Lower	Upper
113	100		
111	100.8	80.7	121.1
192	22.3	17.2	25.8





#36

1,1-Dichloropropene

Concen: 5.108 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :
MSVOA_N
ClientSampled :
TP-5

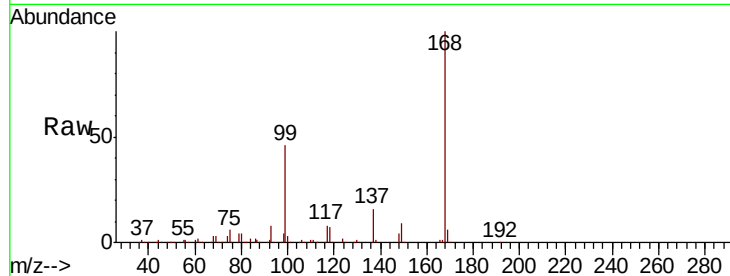
Tot Ion: 75 Resp: 68636

Ion Ratio Lower Upper

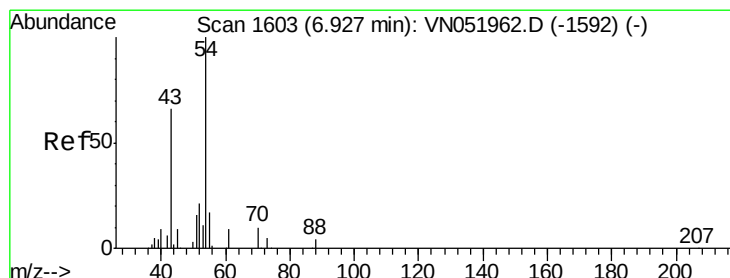
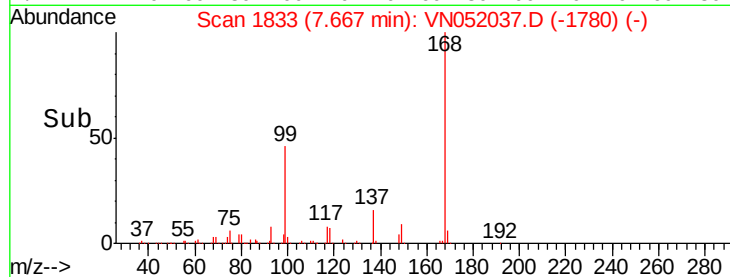
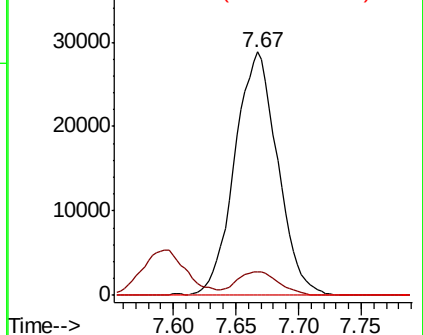
75 100

110 9.6 20.9 62.8#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): VN0
Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.91 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

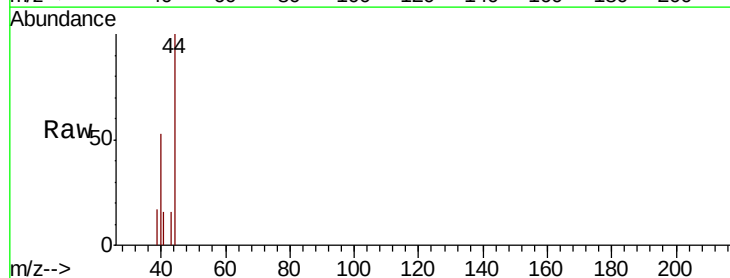
Tgt Ion: 43 Resp: 192

Ion Ratio Lower Upper

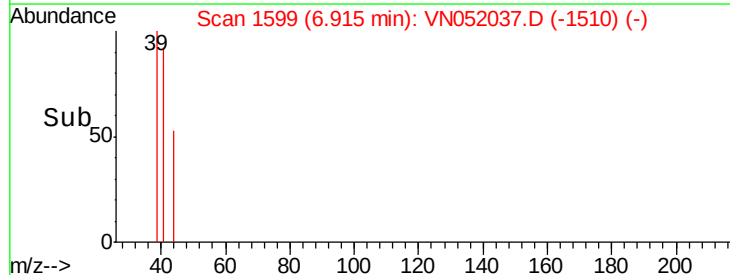
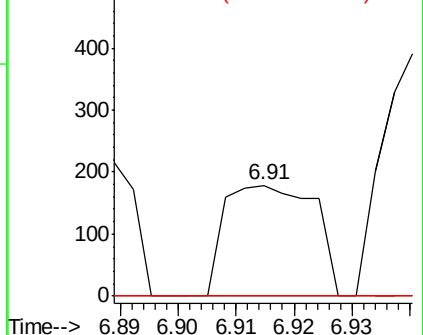
43 100

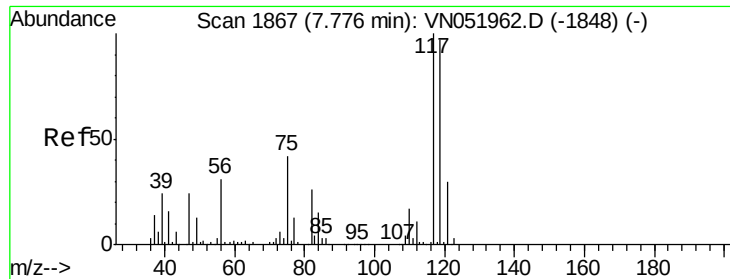
61 0.0 13.5 20.3#

70 0.0 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.590 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

TP-5

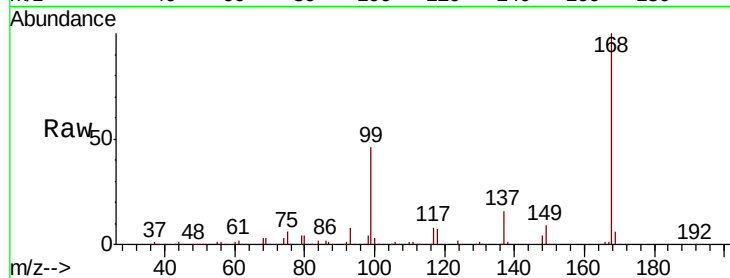
Tot Ion:117 Resp: 101657

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

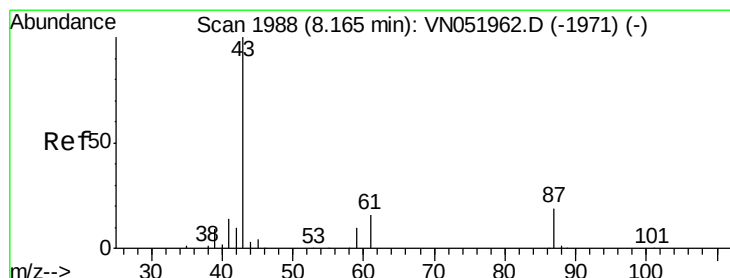
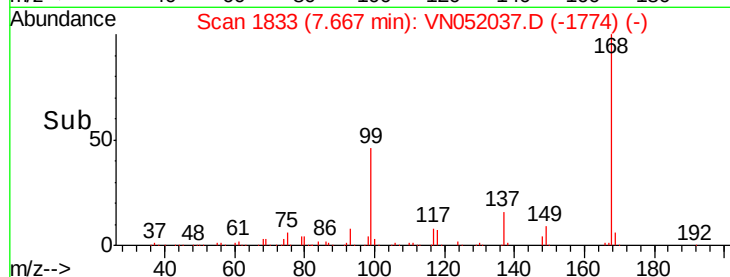
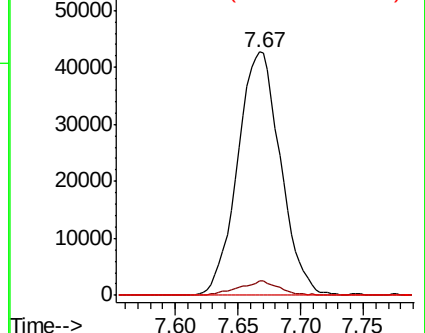
121 0.0 24.2 36.4#



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: 27.941 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

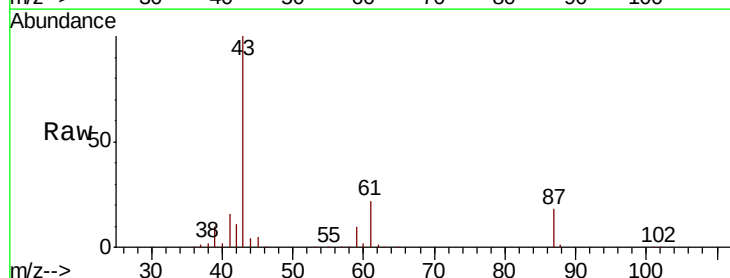
Tgt Ion: 43 Resp: 314409

Ion Ratio Lower Upper

43 100

61 20.5 17.2 25.8

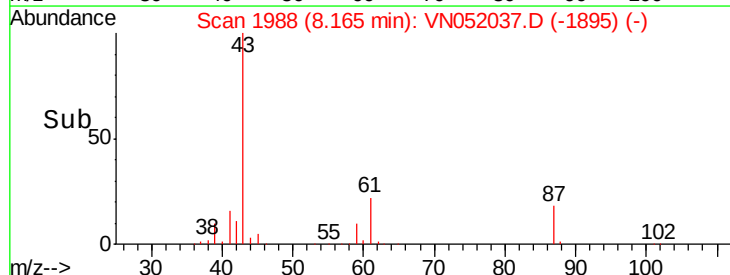
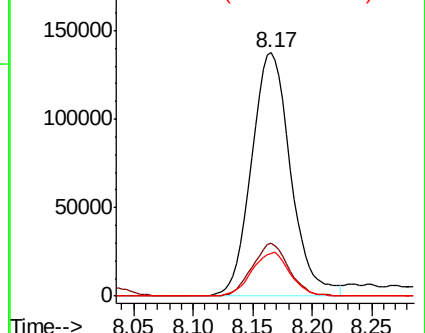
87 17.4 15.2 22.8

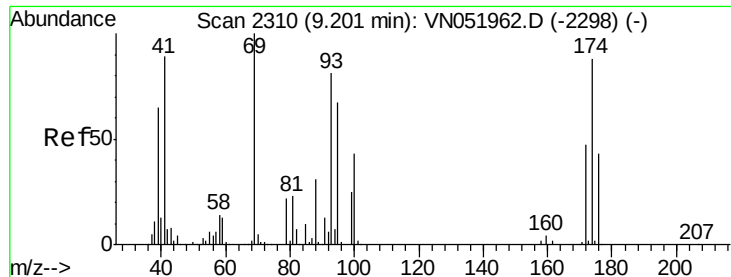


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

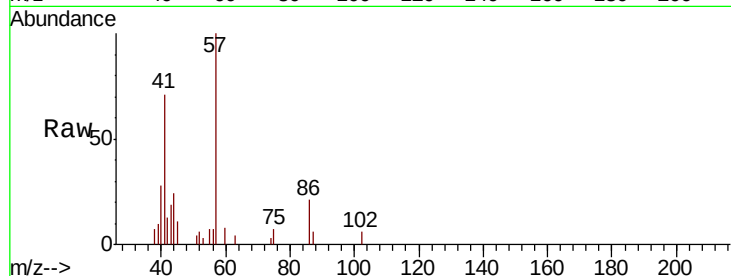




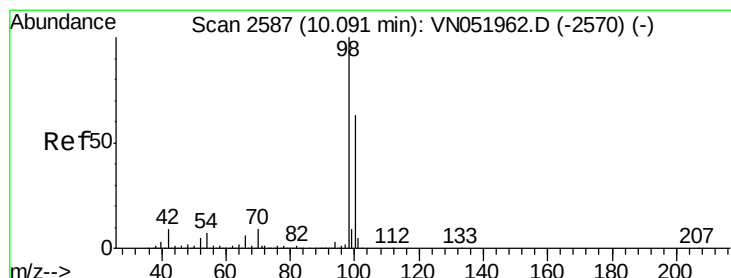
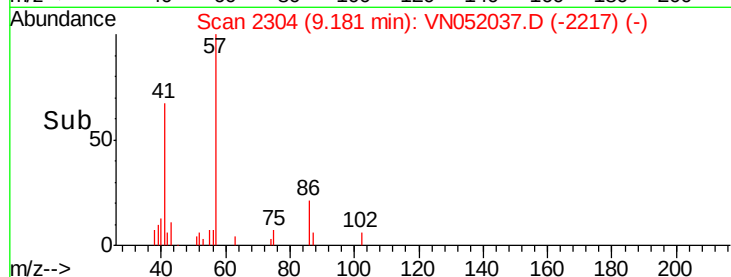
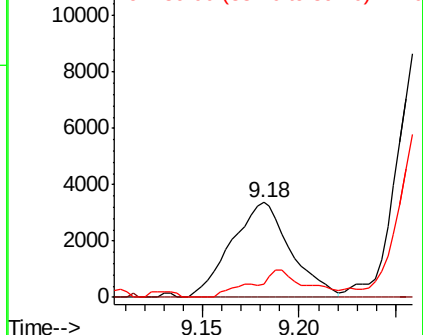
#48
Methvl methacrylate
Concen: 1.321 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

Instrument :
MSVOA_N
ClientSampleId :
TP-5

Tot Ion: 41 Resp: 7185
Ion Ratio Lower Upper
41 100
69 0.0 92.2 138.4#
39 25.5 60.2 90.4#

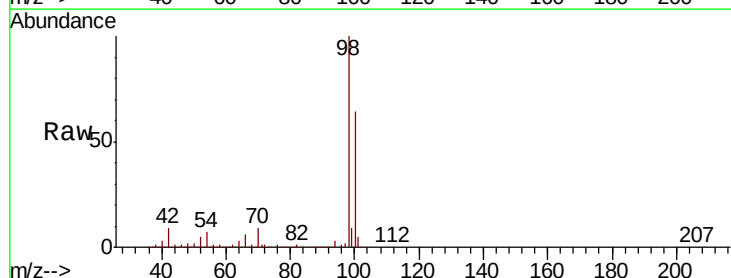


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

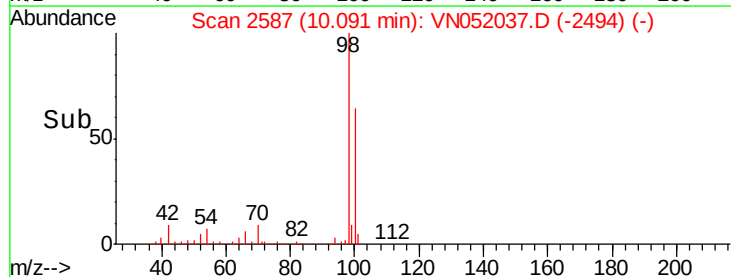
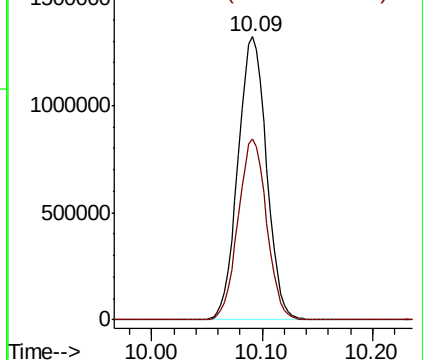


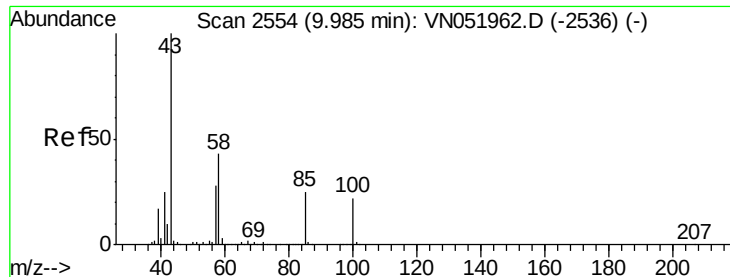
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

Tgt Ion: 98 Resp: 2372770
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1



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





#51

4-Methyl-2-Pentanone

Concen: 0.253 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

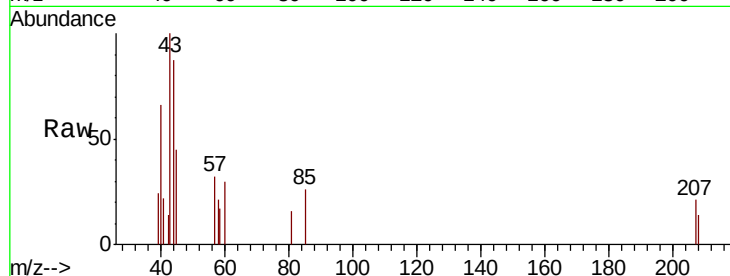
TP-5

Tot Ion: 43 Resp: 1566

Ion Ratio Lower Upper

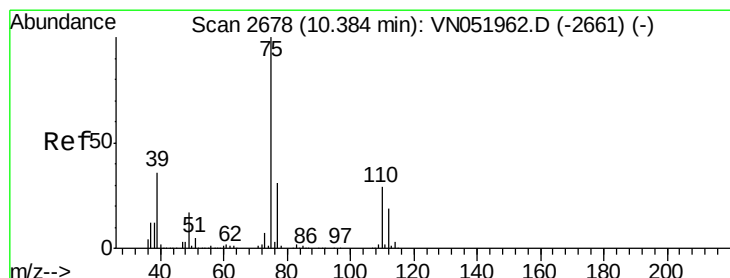
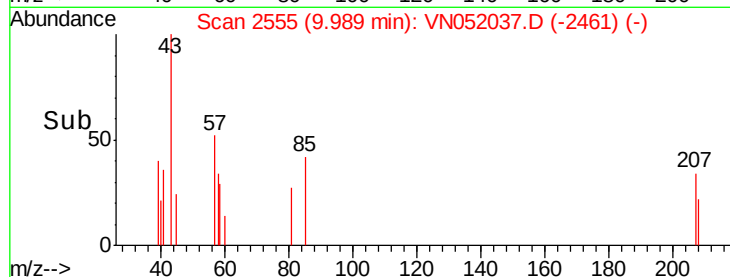
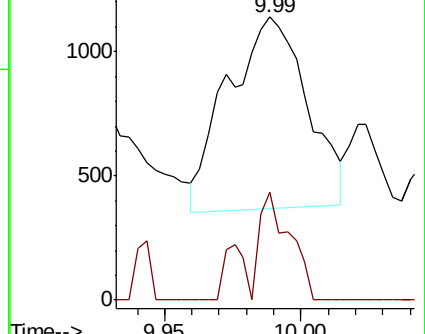
43 100

58 0.0 34.8 52.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 1.246 ug/l

RT: 10.49 min Scan# 2712

Delta R.T. 0.11 min

Lab File: VN052037.D

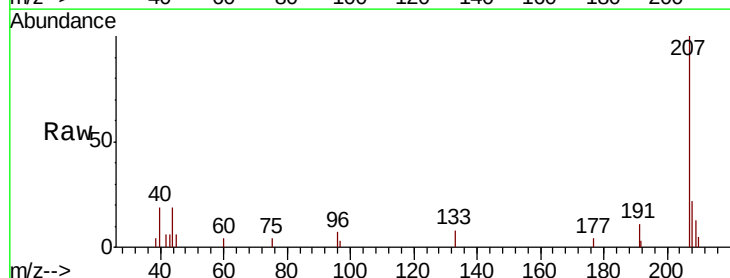
Acq: 26 Oct 2018 19:13

Tgt Ion: 75 Resp: 32

Ion Ratio Lower Upper

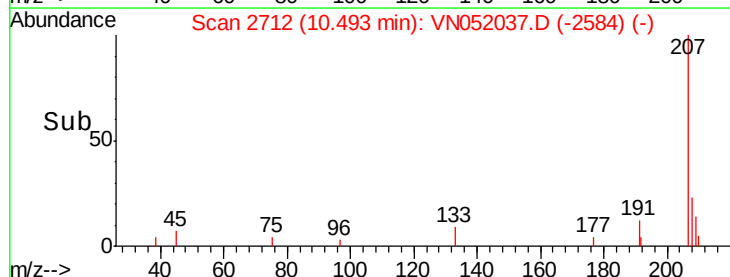
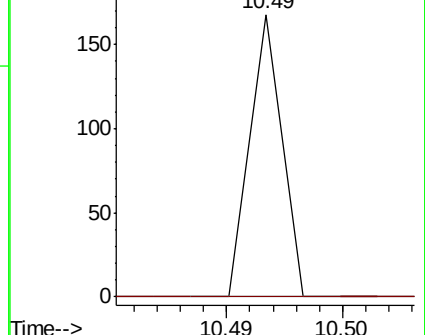
75 100

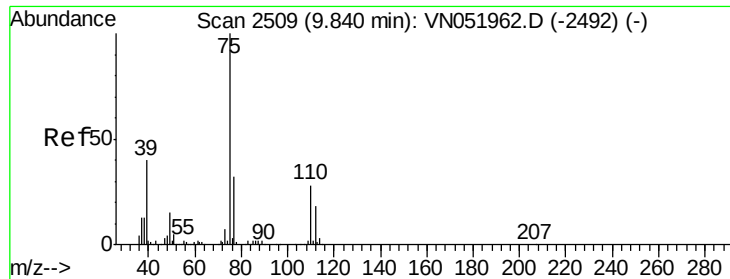
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#54

cis-1,3-Dichloropropene

Concen: 0.247 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

TP-5

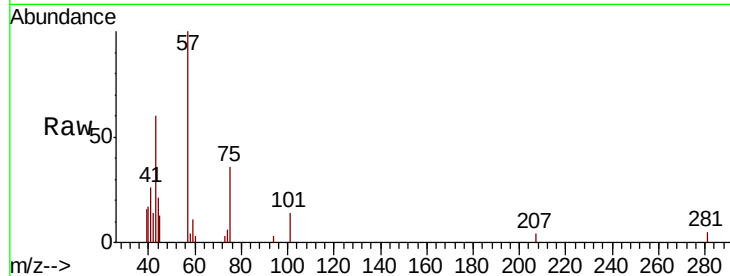
Tot Ion: 75 Resp: 3550

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

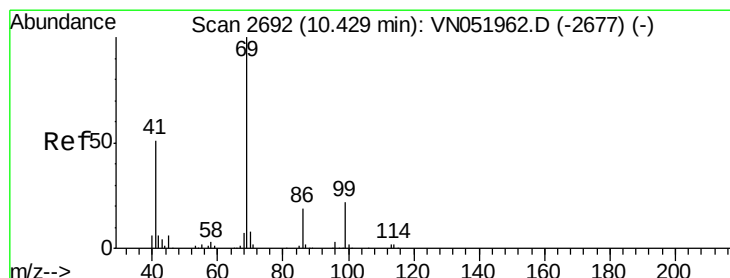
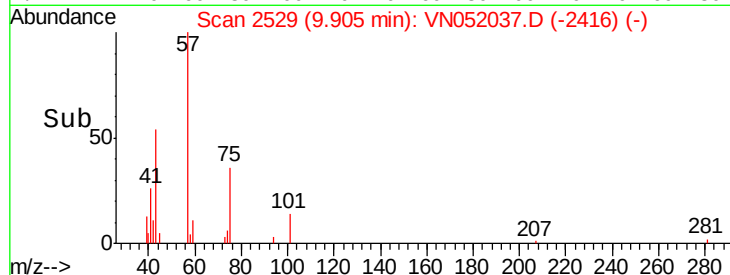
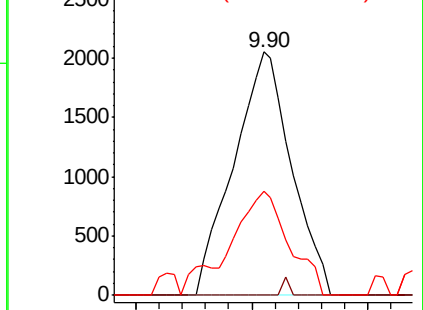
39 43.0 32.0 48.0



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



#56

Ethyl methacrylate

Concen: 0.271 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

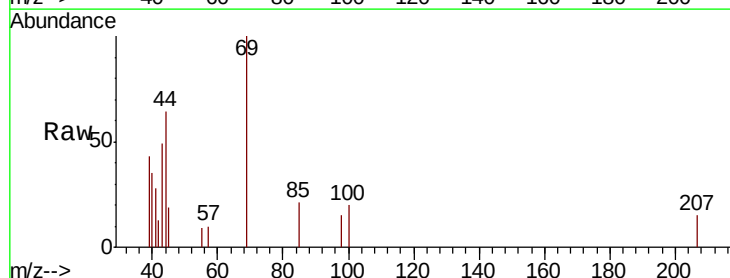
Tgt Ion: 69 Resp: 2909

Ion Ratio Lower Upper

69 100

41 44.1 40.7 61.1

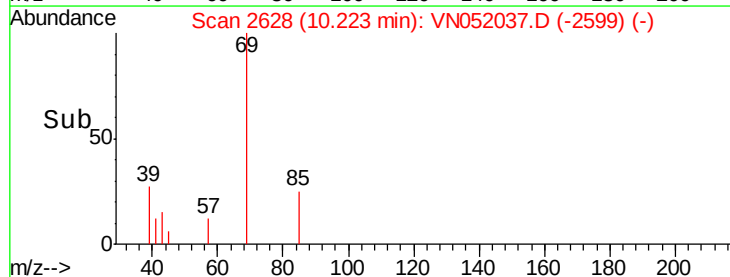
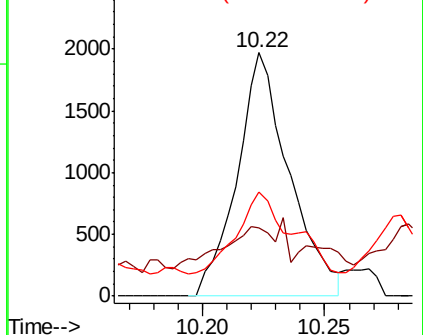
39 34.6 29.3 43.9

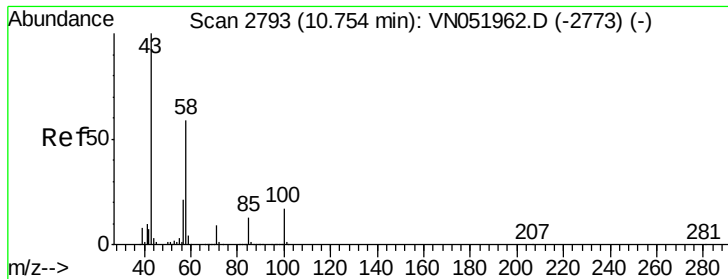


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

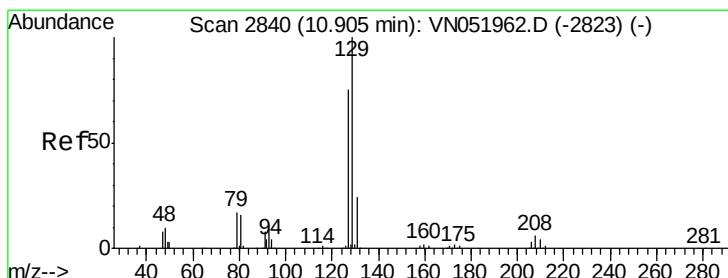
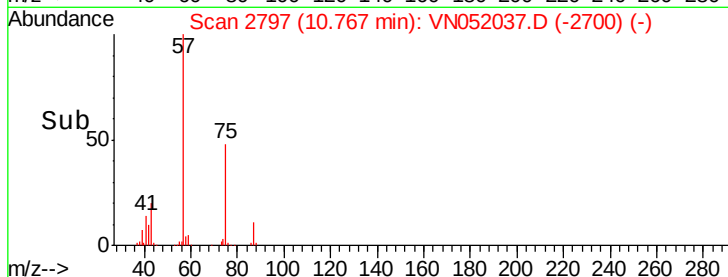
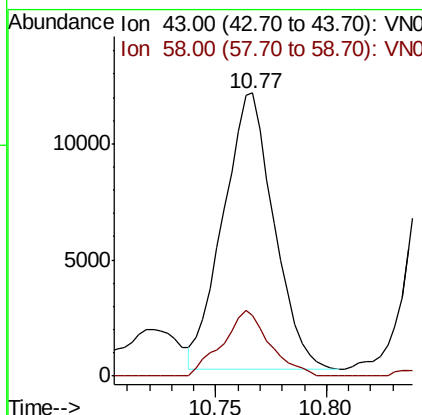
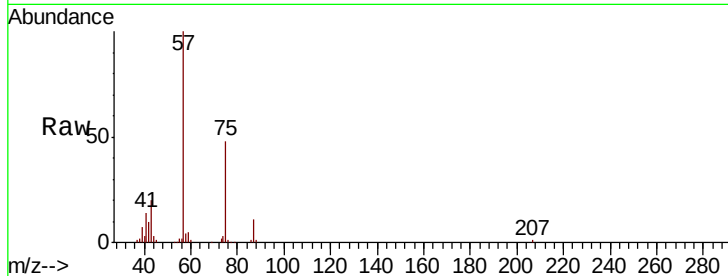




#59
2-Hexanone
Concen: 4.557 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

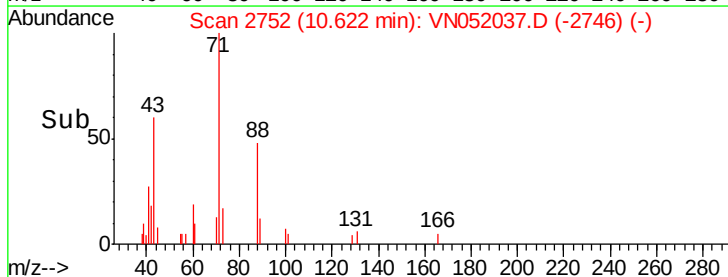
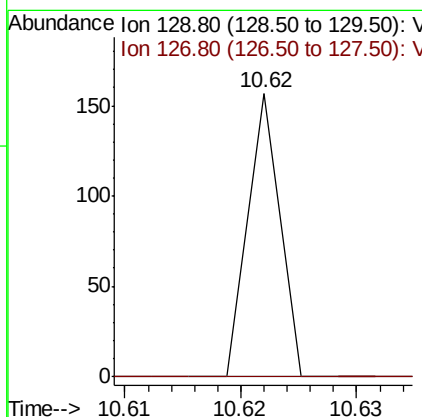
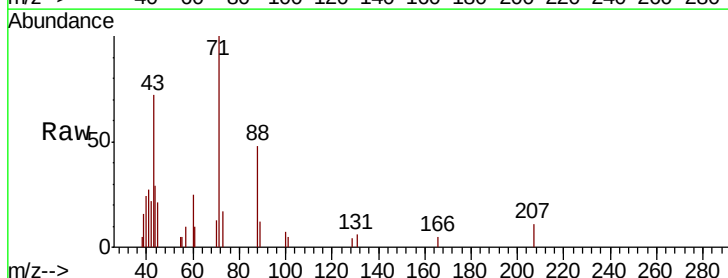
Instrument :
MSVOA_N
ClientSampled :
TP-5

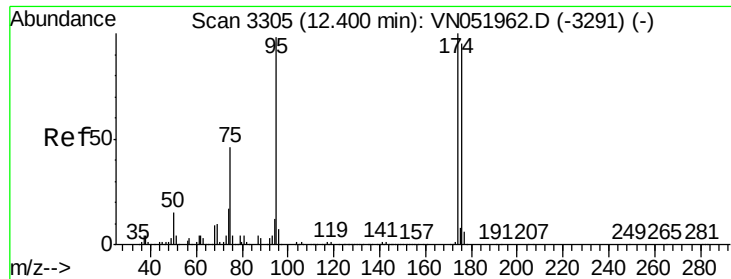
Tot Ion: 43 Resp: 18952
Ion Ratio Lower Upper
43 100
58 22.0 29.9 89.8#



#60
Dibromochloromethane
Concen: 1.980 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.28 min
Lab File: VN052037.D
Acq: 26 Oct 2018 19:13

Tgt Ion: 129 Resp: 30
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

TP-5

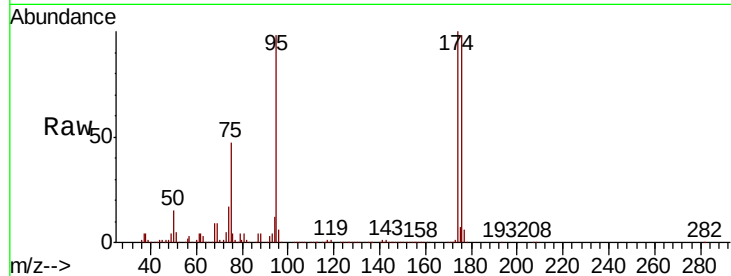
Tot Ion: 95 Resp: 759223

Ion Ratio Lower Upper

95 100

174 103.4 0.0 206.0

176 101.2 0.0 198.0

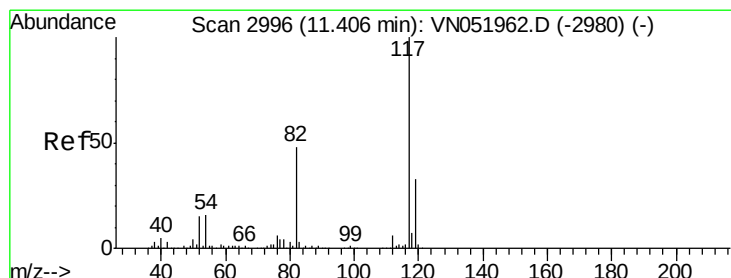
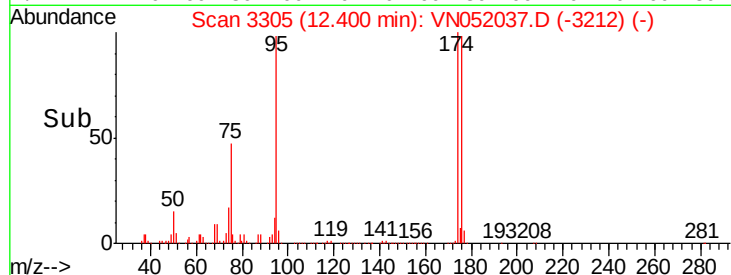
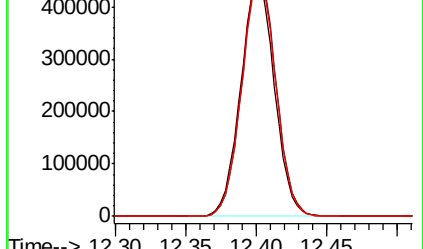


Abundance Ion 94.90 (94.60 to 95.60): VN051962.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051962.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051962.D (-3291) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

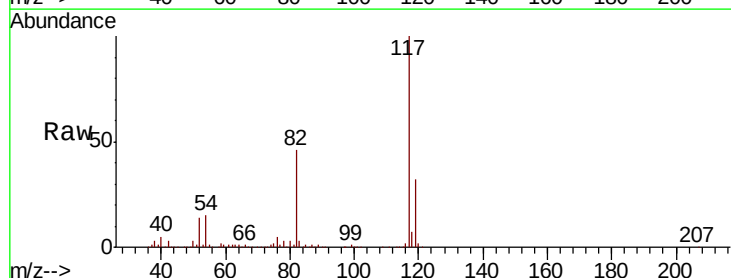
Tgt Ion: 117 Resp: 1664768

Ion Ratio Lower Upper

117 100

82 46.2 38.1 57.1

119 32.1 26.4 39.6

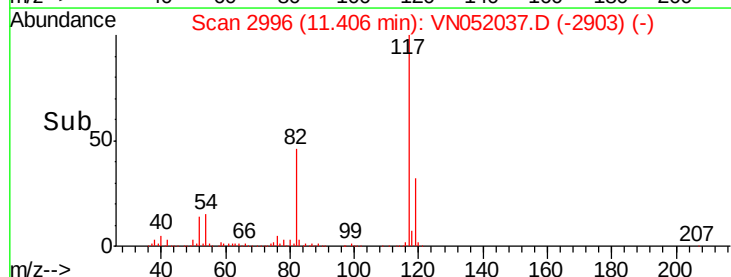
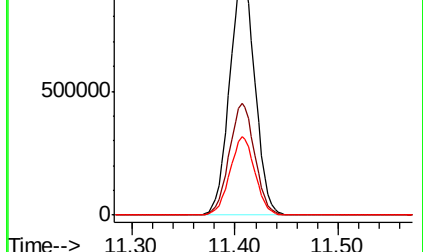


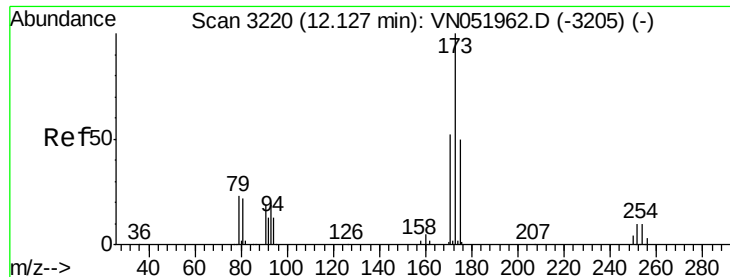
Abundance Ion 116.90 (116.60 to 117.60): VN051962.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051962.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051962.D (-2980) (-)

11.41





#71

Bromoform

Concen: 4.348 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

TP-5

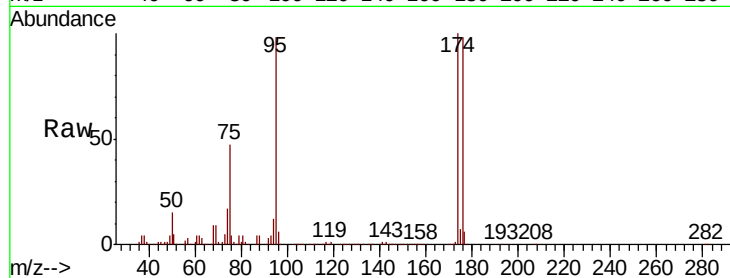
Tot Ion:173 Resp: 6323

Ion Ratio Lower Upper

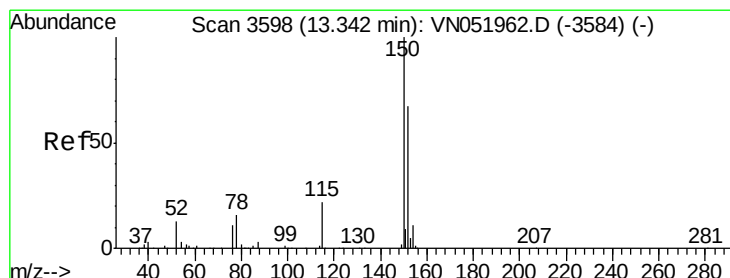
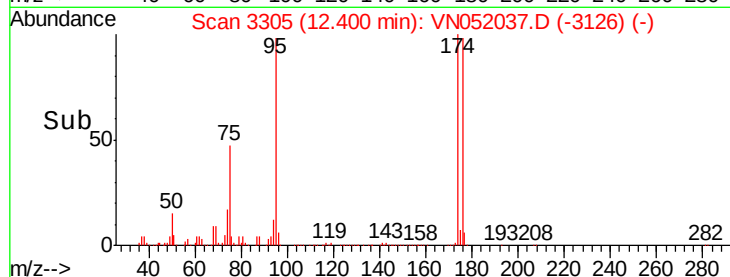
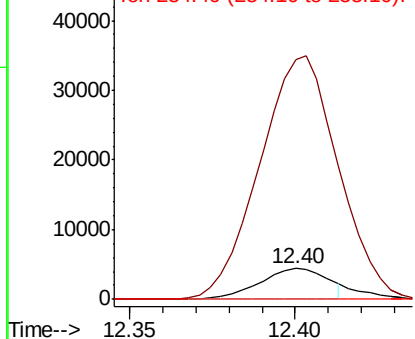
173 100

175 810.1 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: VN052037.D

Acq: 26 Oct 2018 19:13

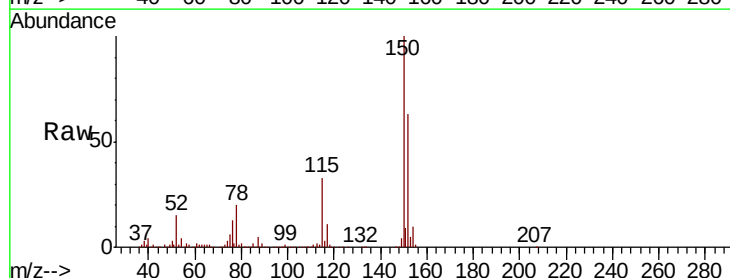
Tgt Ion:152 Resp: 779755

Ion Ratio Lower Upper

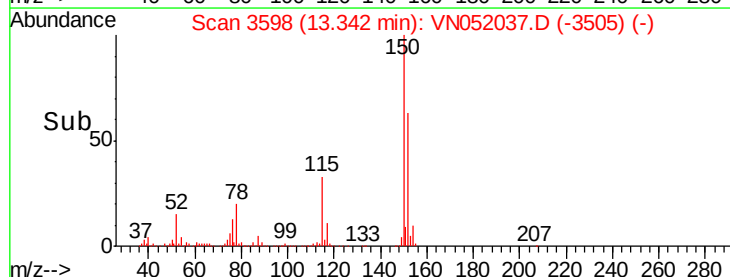
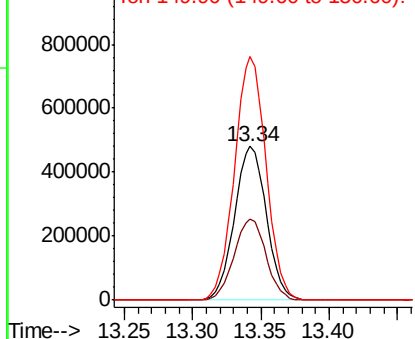
152 100

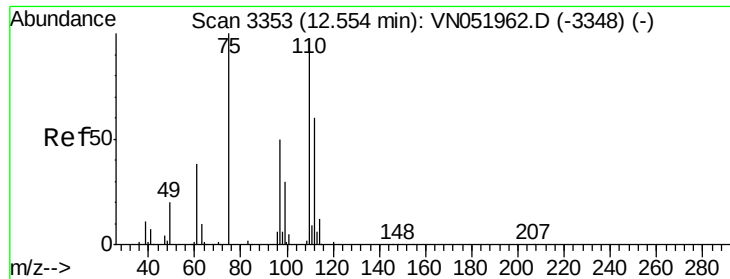
115 52.9 25.8 77.3

150 156.6 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: 45.274 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

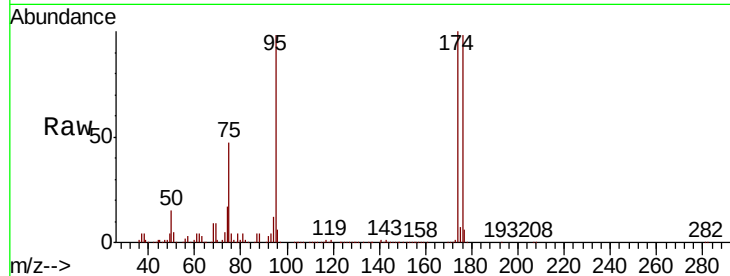
TP-5

Tot Ion: 75 Resp: 364657

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

250000

200000

150000

100000

50000

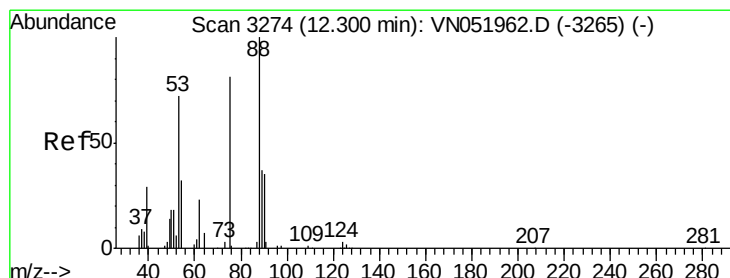
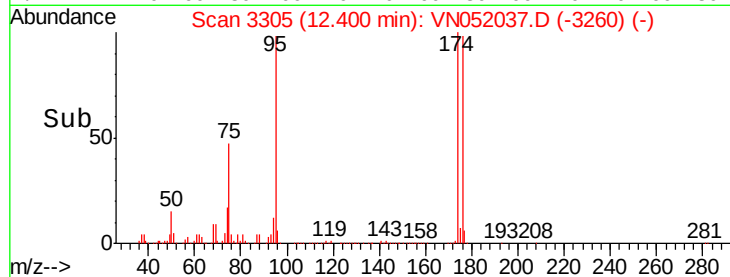
0

12.30

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 142.482 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052037.D

Acq: 26 Oct 2018 19:13

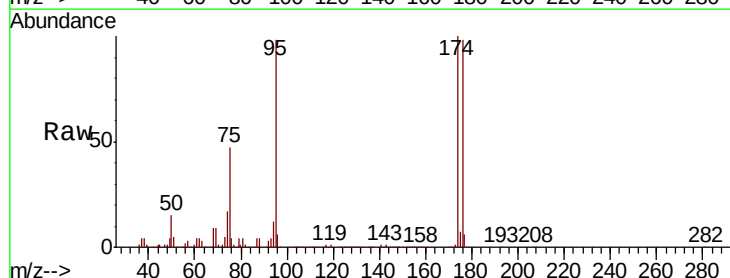
Tgt Ion: 75 Resp: 364657

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

300000

250000

200000

150000

100000

50000

0

12.30

12.40

12.50

Time-->

