

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102618\
 Data File : VN052035.D
 Acq On : 26 Oct 2018 18:20
 Operator : MD\SY
 Sample : PB114195ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#12

Quant Time: Oct 26 23:26:33 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	1221193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1783223	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1678188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	721917	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	620940	57.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.18%	
35) Dibromofluoromethane	7.59	113	663214	58.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.56%	
50) Toluene-d8	10.09	98	2440046	59.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.68%	
62) 4-Bromofluorobenzene	12.40	95	750301	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	

Target Compounds

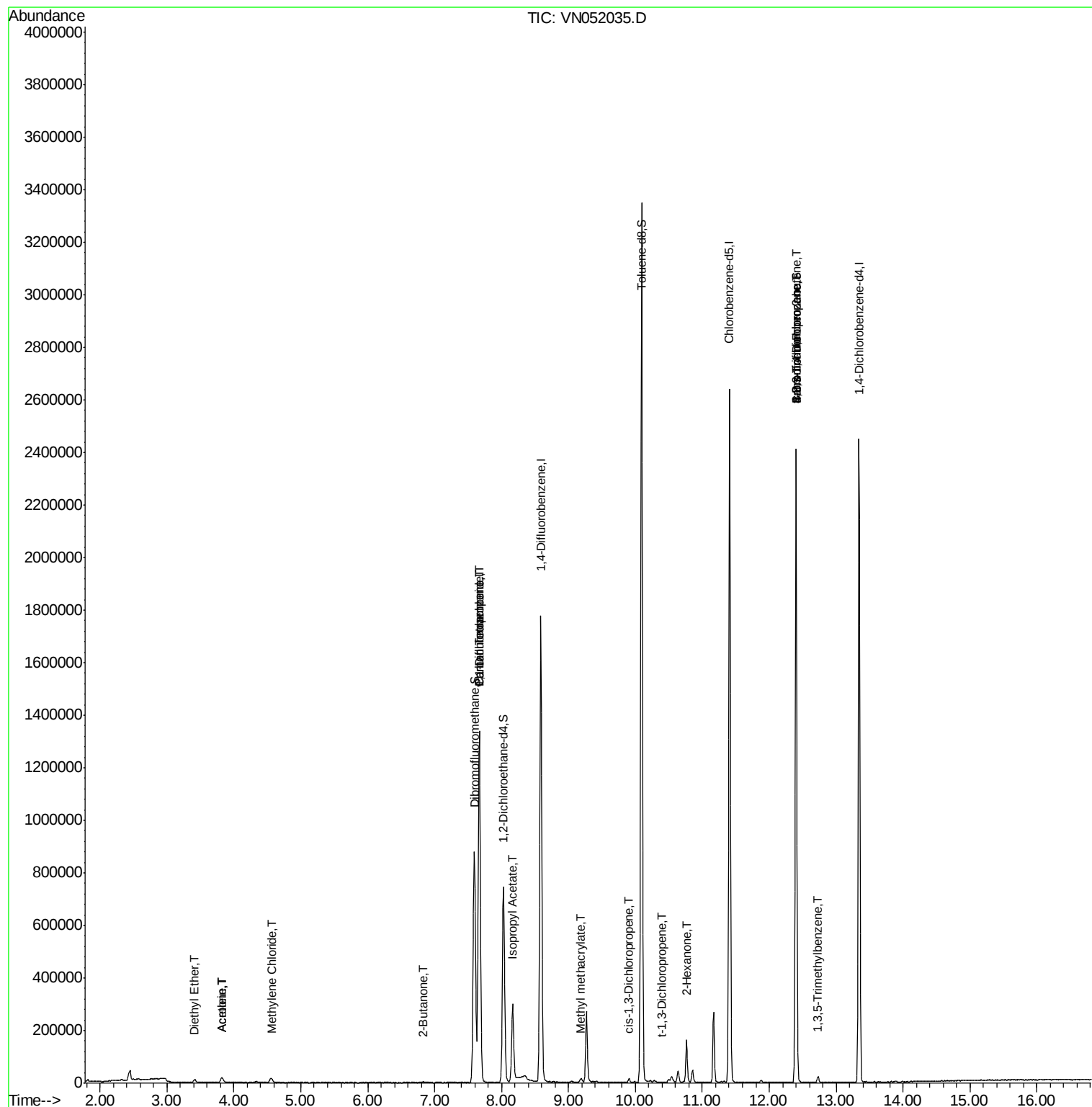
					Qvalue	
8) Diethyl Ether	3.41	74	6782	1.369	ug/l	83
13) Acrolein	3.82	56	34	37.362	ug/l #	1
16) Acetone	3.82	43	32307	18.029	ug/l	95
18) Methyl Acetate	4.32	43	2290	Below Cal		97
20) Methylene Chloride	4.56	84	13796	1.312	ug/l	92
25) 2-Butanone	6.83	43	1633	0.639	ug/l #	39
31) Cyclohexane	7.67	56	18099	Below Cal	#	14
36) 1,1-Dichloropropene	7.67	75	69909	5.111	ug/l #	47
37) Ethyl Acetate	6.93	43	54	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	102800	6.546	ug/l #	15
43) Isopropyl Acetate	8.17	43	337024	29.420	ug/l	99
48) Methyl methacrylate	9.18	41	7662	1.384	ug/l #	15
53) t-1,3-Dichloropropene	10.41	75	64	1.248	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	3249	0.222	ug/l #	70
59) 2-Hexanone	10.76	43	18584	4.389	ug/l #	52
71) Bromoform	12.40	173	7716	4.486	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	362449	48.605	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9621	0.262	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	362449	152.833	ug/l #	12

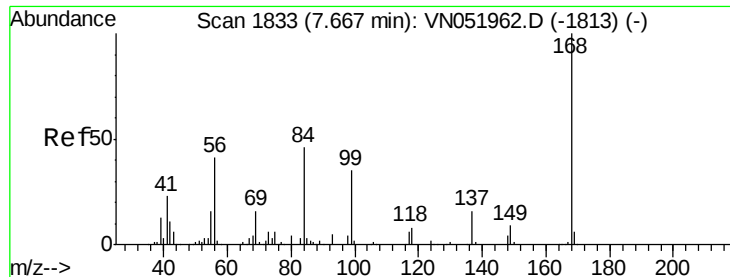
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

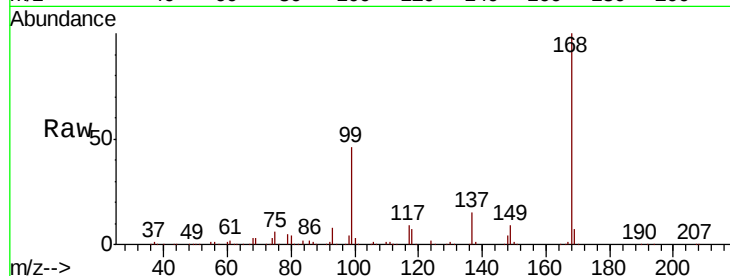
PB114195ZHE#12

Tot Ion:168 Resp: 1221193

Ion Ratio Lower Upper

168 100

99 46.1 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

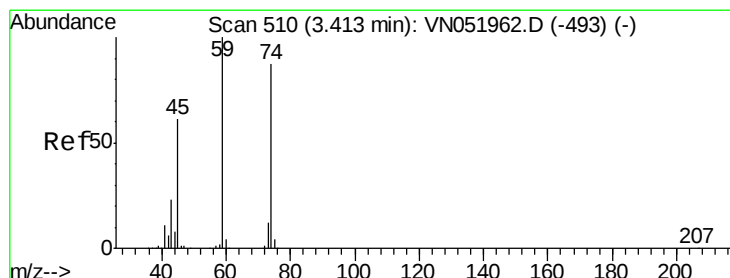
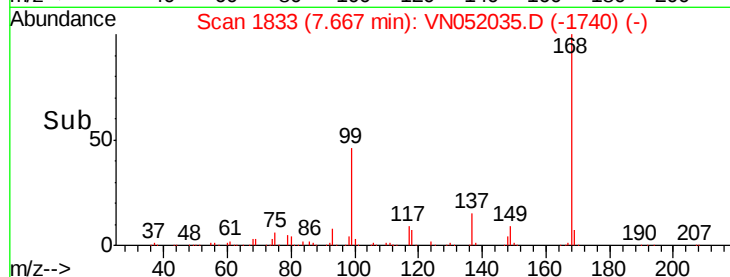
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 1.369 ug/l

RT: 3.41 min Scan# 509

Delta R.T. -0.00 min

Lab File: VN052035.D

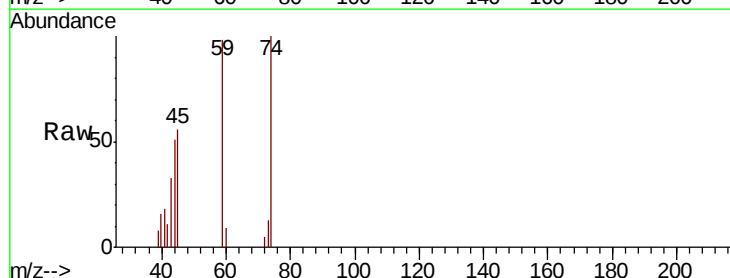
Acq: 26 Oct 2018 18:20

Tgt Ion: 74 Resp: 6782

Ion Ratio Lower Upper

74 100

45 85.4 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) (-)

3.41

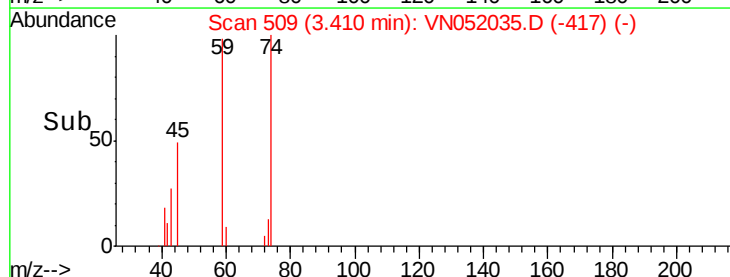
3000

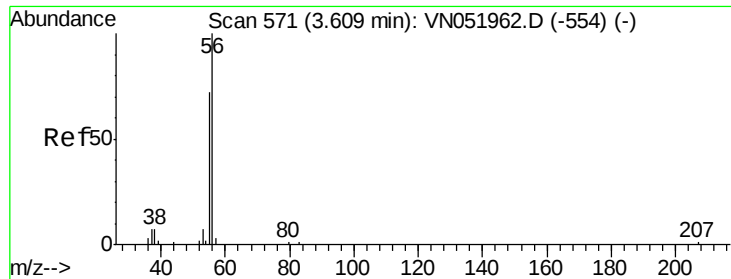
2000

1000

0

Time-->





#13

Acrolein

Concen: 37.362 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.21 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

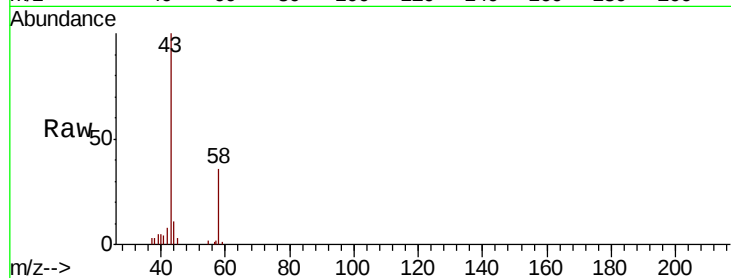
PB114195ZHE#12

Tot Ion: 56 Resp: 34

Ion Ratio Lower Upper

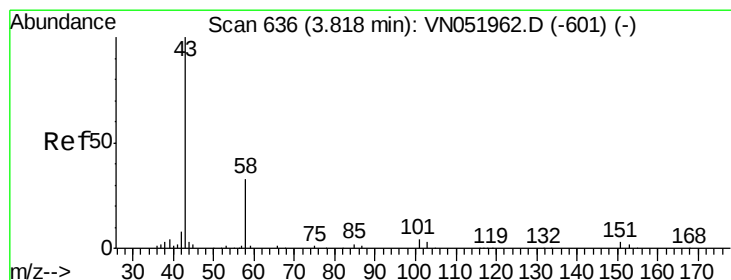
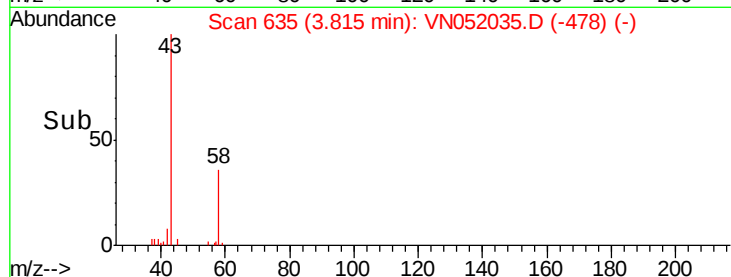
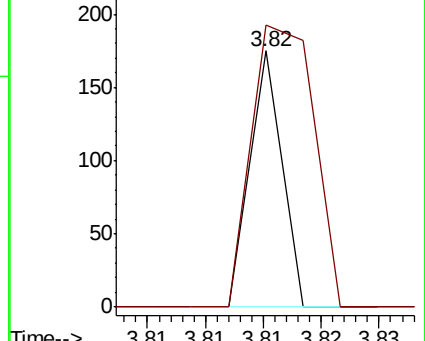
56 100

55 211.8 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: 18.029 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052035.D

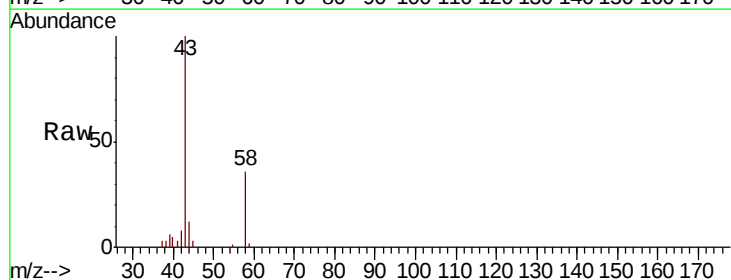
Acq: 26 Oct 2018 18:20

Tgt Ion: 43 Resp: 32307

Ion Ratio Lower Upper

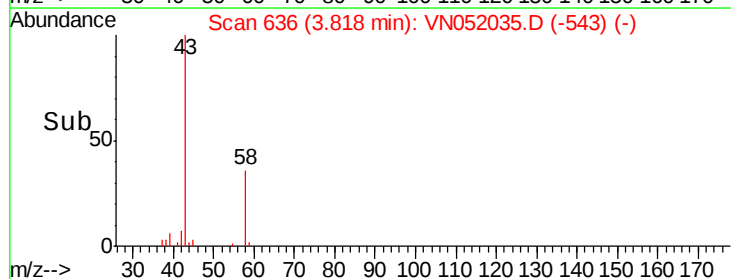
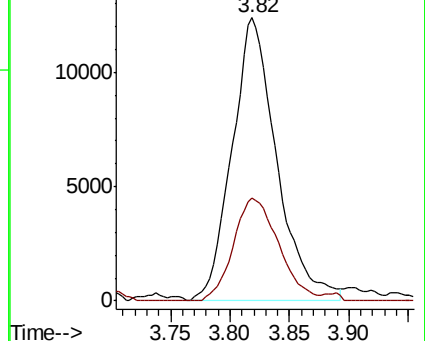
43 100

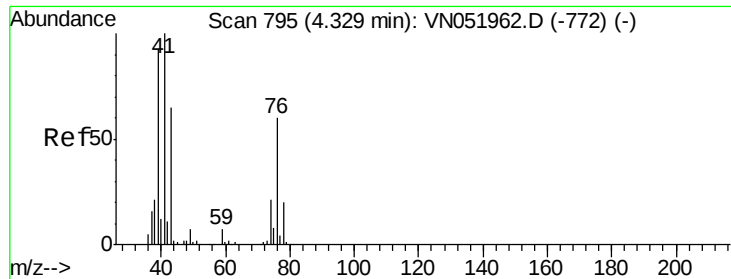
58 36.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

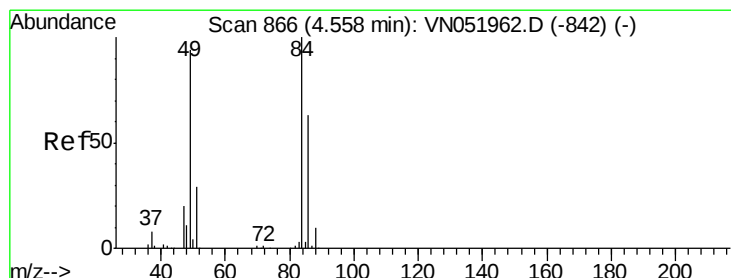
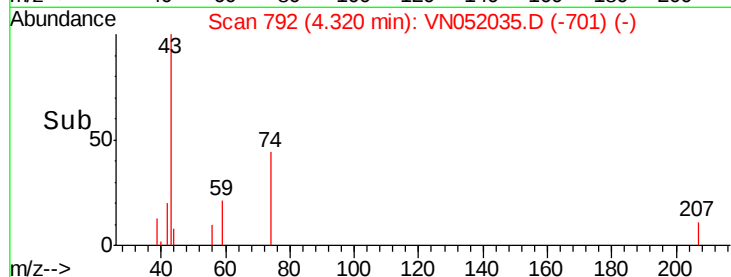
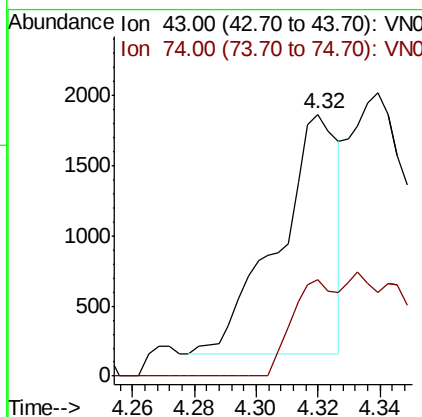
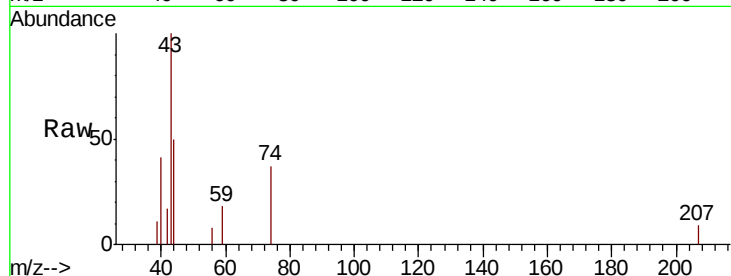




#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 792
Delta R.T. -0.01 min
Lab File: VN052035.D
Acq: 26 Oct 2018 18:20

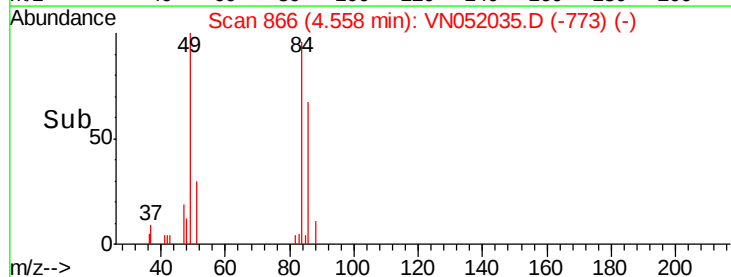
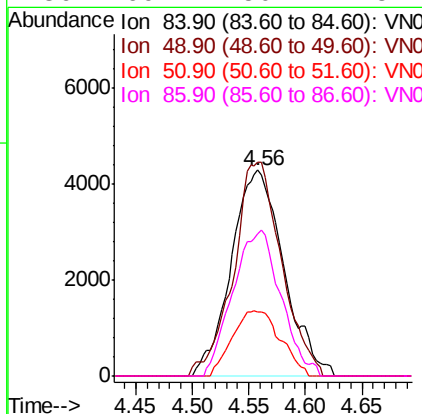
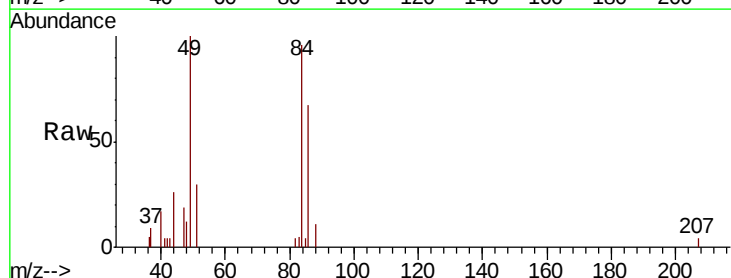
Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#12

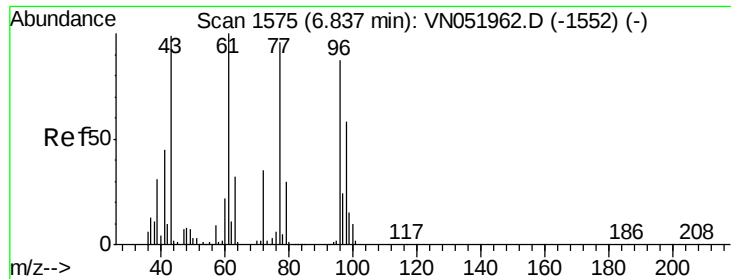
Tot Ion: 43 Resp: 2290
Ion Ratio Lower Upper
43 100
74 30.4 25.7 38.5



#20
Methylene Chloride
Concen: 1.312 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052035.D
Acq: 26 Oct 2018 18:20

Tgt Ion: 84 Resp: 13796
Ion Ratio Lower Upper
84 100
49 103.7 75.4 113.0
51 31.2 23.1 34.7
86 69.1 50.2 75.4





#25

2-Butanone

Concen: 0.639 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

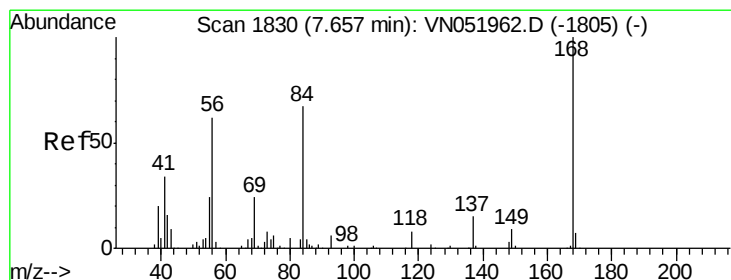
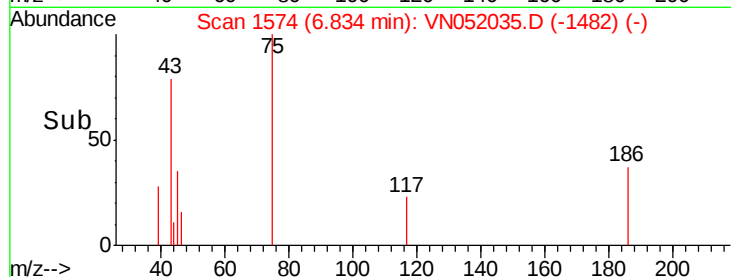
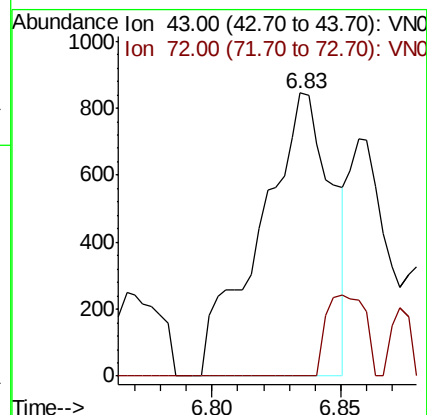
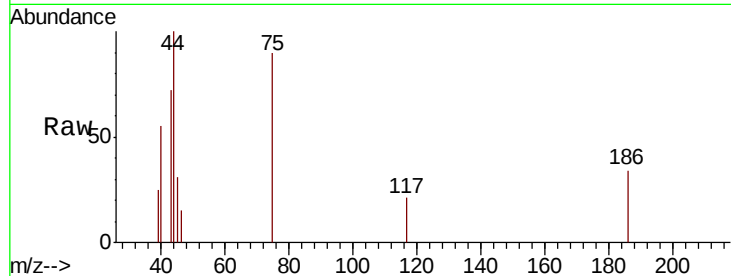
PB114195ZHE#12

Tot Ion: 43 Resp: 1633

Ion Ratio Lower Upper

43 100

72 0.0 28.5 42.7#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1835

Delta R.T. 0.02 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

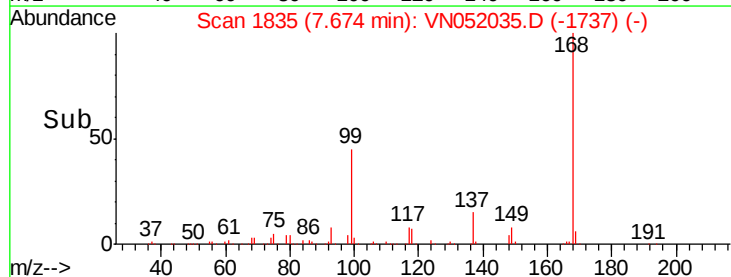
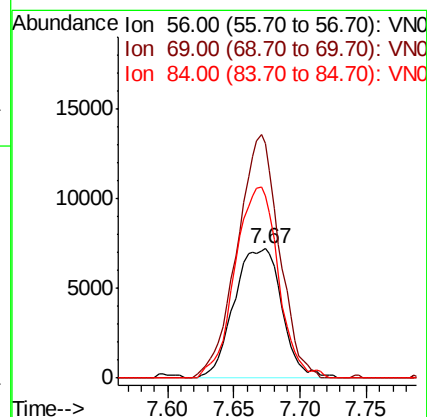
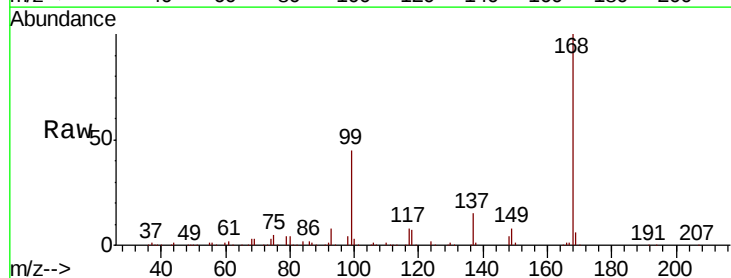
Tgt Ion: 56 Resp: 18099

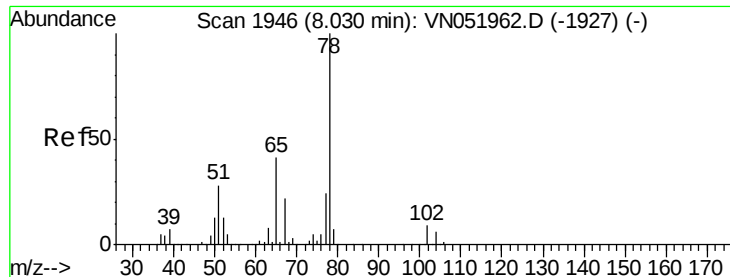
Ion Ratio Lower Upper

56 100

69 182.0 31.2 46.8#

84 141.4 86.3 129.5#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

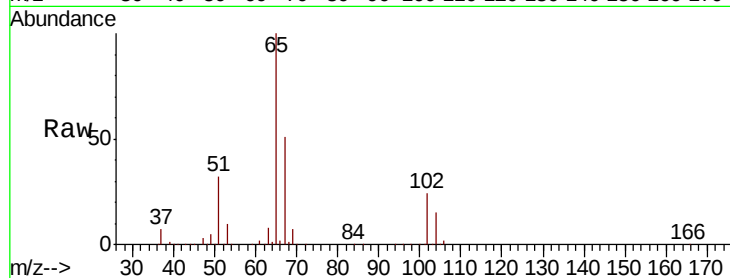
PB114195ZHE#12

Tot Ion: 65 Resp: 620940

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN051962.D (-1927) (-)

Ion 66.90 (66.60 to 67.60): VN051962.D (-1927) (-)

8.03

250000

200000

150000

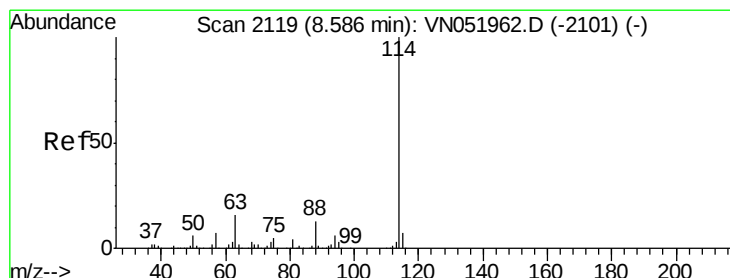
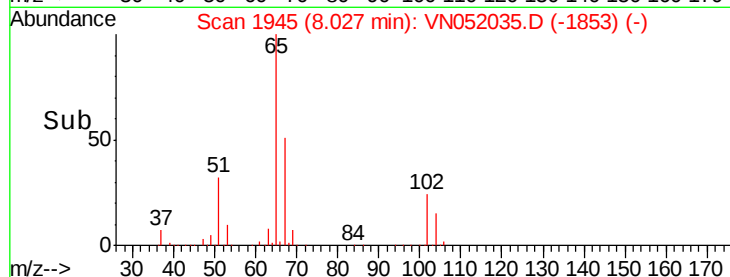
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

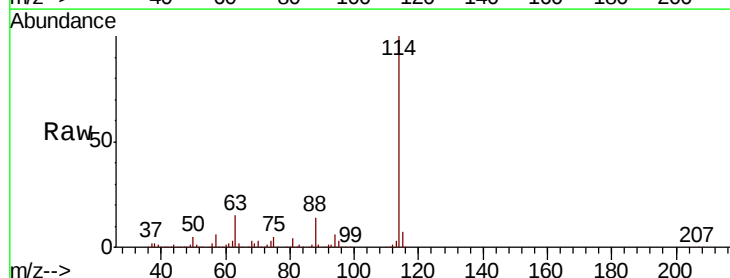
Tgt Ion: 114 Resp: 1783223

Ion Ratio Lower Upper

114 100

63 15.4 0.0 31.2

88 13.9 0.0 27.0



Abundance Ion 113.90 (113.60 to 114.60): VN051962.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051962.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN051962.D (-2101) (-)

8.59

1000000

800000

600000

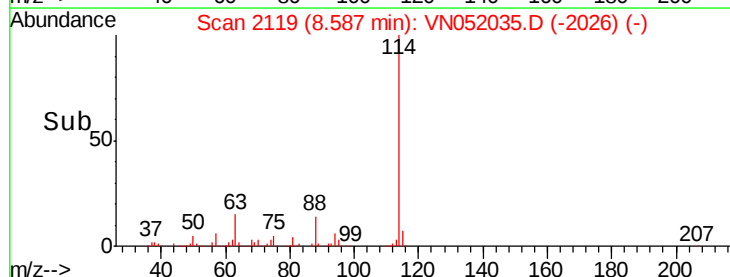
400000

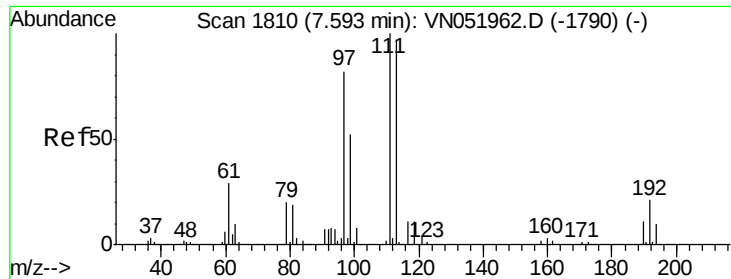
200000

0

8.50 8.60 8.70

Time-->

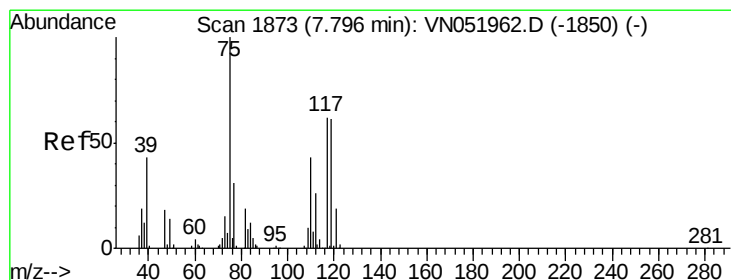
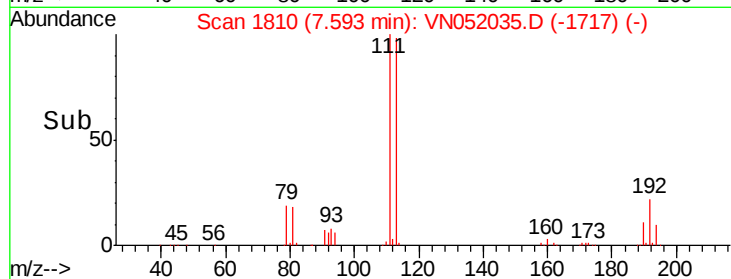
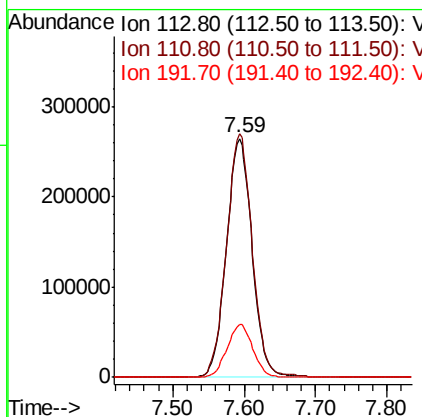
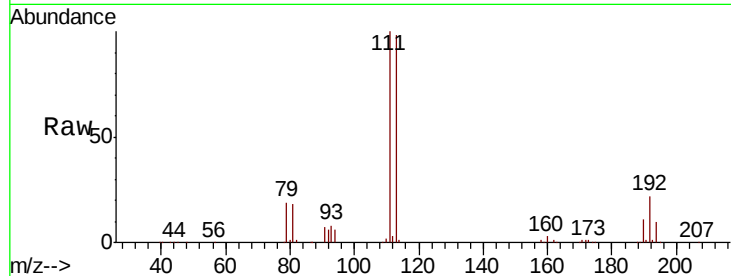




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052035.D
 Acq: 26 Oct 2018 18:20

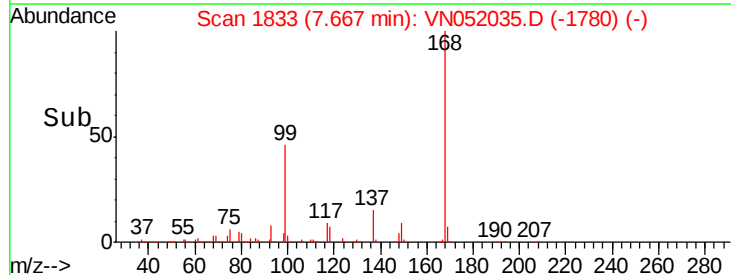
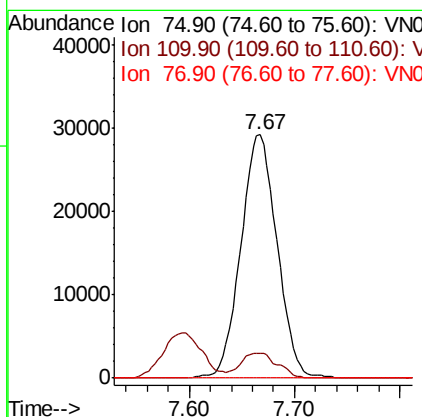
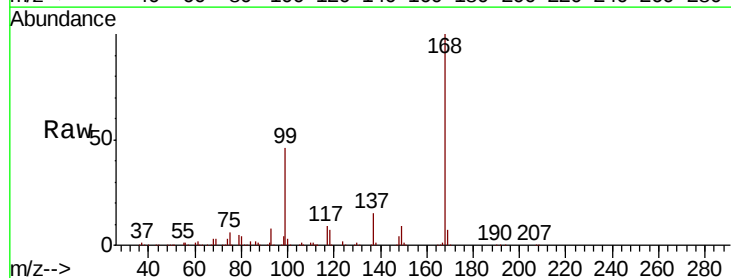
Instrument :
 MSVOA_N
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 PB114195ZHE#12

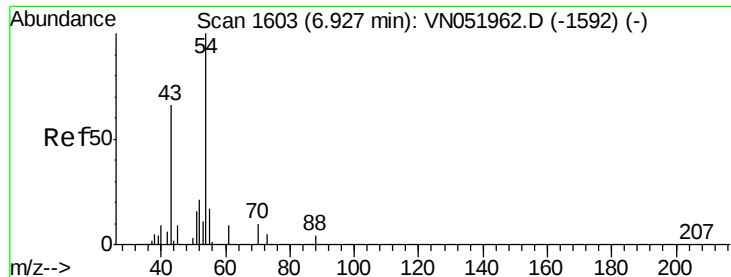
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.7	121.1
192	22.2	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.111 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052035.D
 Acq: 26 Oct 2018 18:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	20.9	62.8#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.93 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

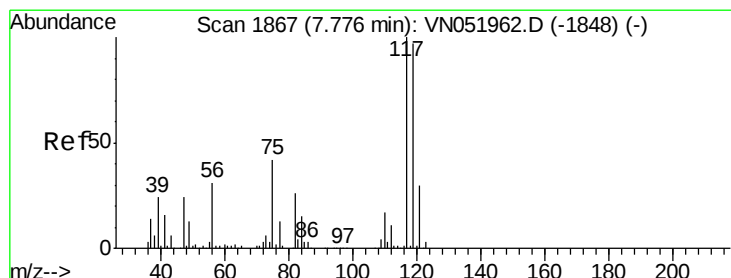
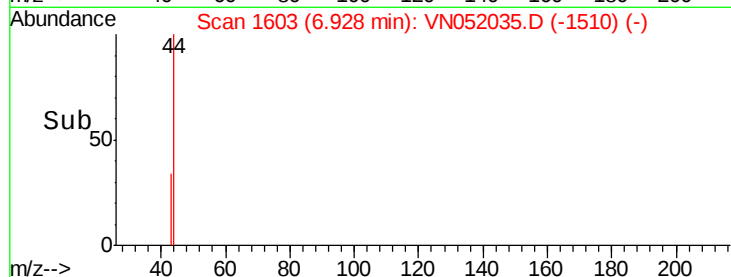
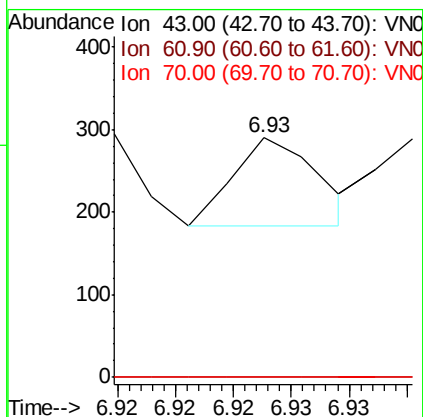
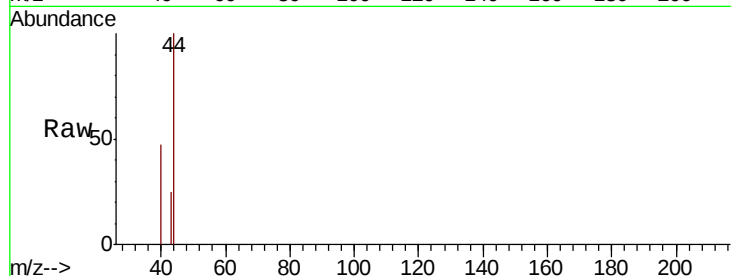
MSVOA_N

ClientSampleId :

PB114195ZHE#12

Tot Ion: 43 Resp: 54

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



#38

Carbon Tetrachloride

Concen: 6.546 ug/l

RT: 7.67 min Scan# 1833

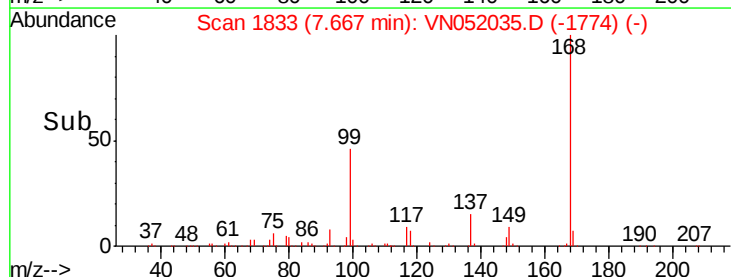
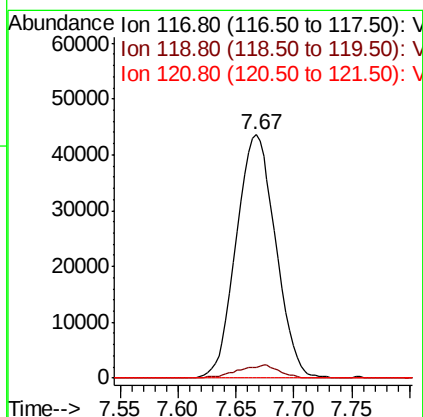
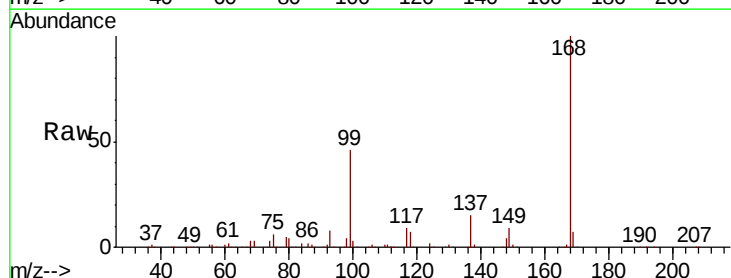
Delta R.T. -0.11 min

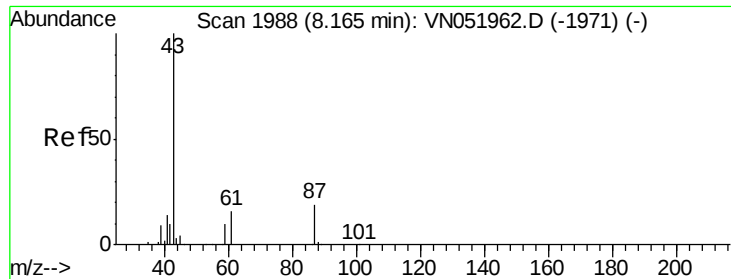
Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Tgt Ion: 117 Resp: 102800

Ion	Ratio	Lower	Upper
117	100		
119	4.4	77.4	116.0#
121	0.0	24.2	36.4#



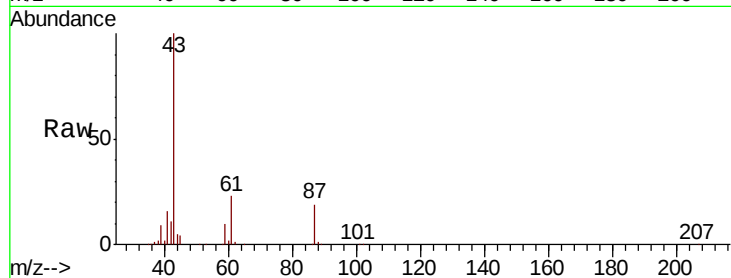


#43

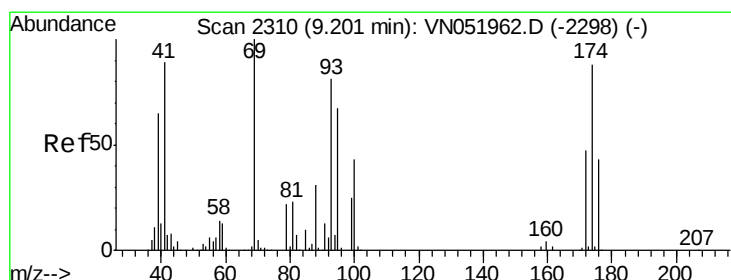
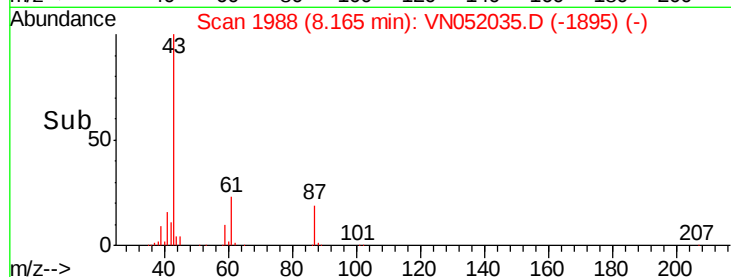
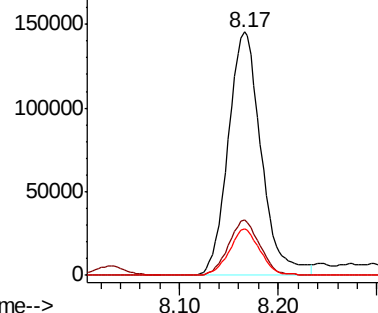
Isopropyl Acetate
 Concen: 29.420 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN052035.D
 Acq: 26 Oct 2018 18:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#12

Tot Ion: 43 Resp: 337024
 Ion Ratio Lower Upper
 43 100
 61 21.5 17.2 25.8
 87 17.8 15.2 22.8



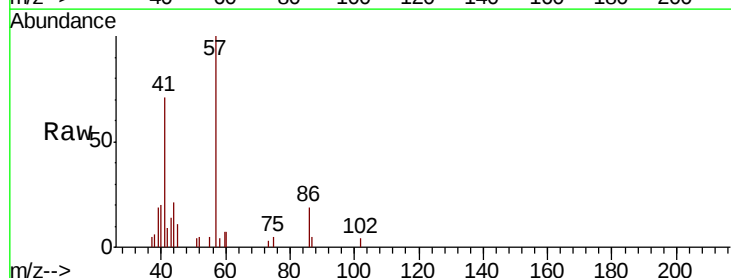
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



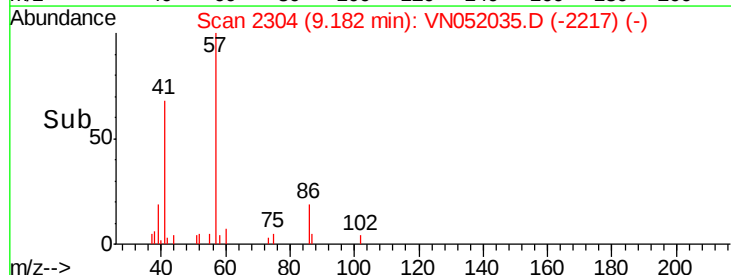
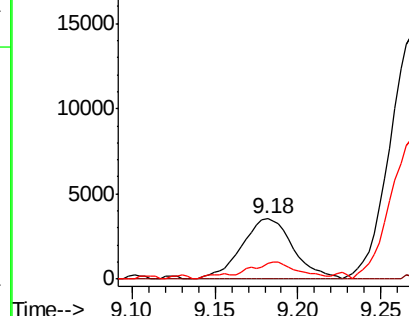
#48

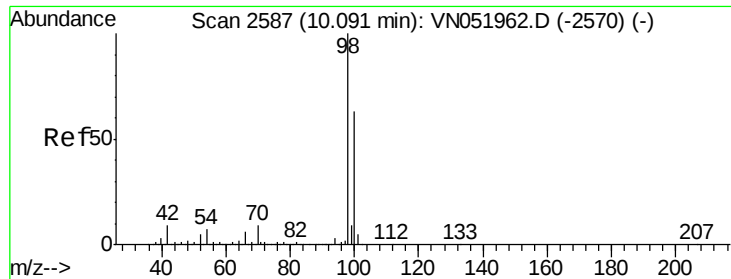
Methyl methacrylate
 Concen: 1.384 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN052035.D
 Acq: 26 Oct 2018 18:20

Tgt Ion: 41 Resp: 7662
 Ion Ratio Lower Upper
 41 100
 69 0.0 92.2 138.4#
 39 29.5 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: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

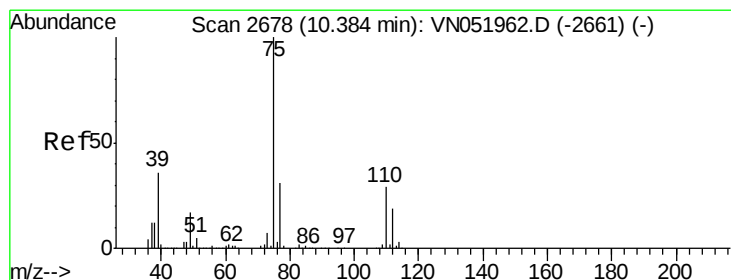
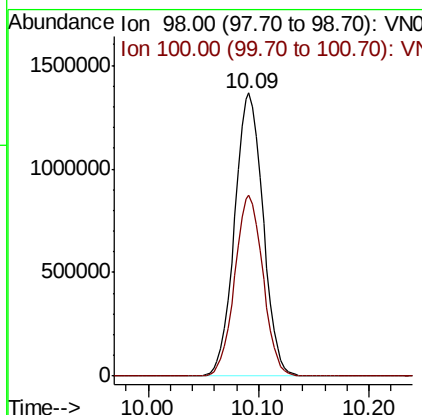
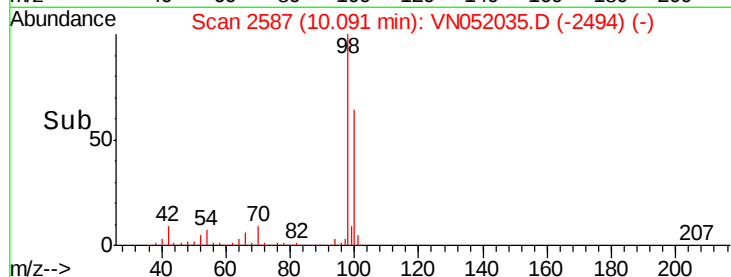
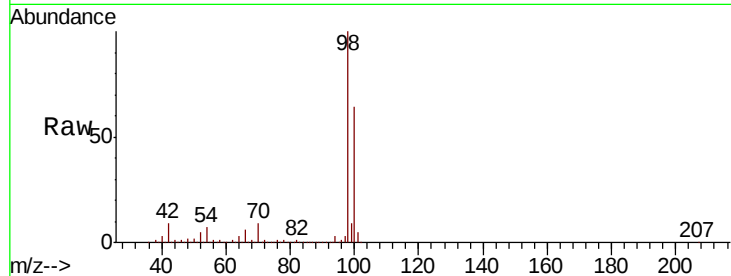
PB114195ZHE#12

Tot Ion: 98 Resp: 2440046

Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1



#53

t-1,3-Dichloropropene

Concen: 1.248 ug/l

RT: 10.41 min Scan# 2686

Delta R.T. 0.03 min

Lab File: VN052035.D

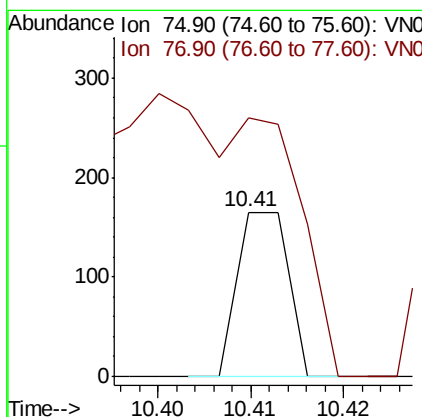
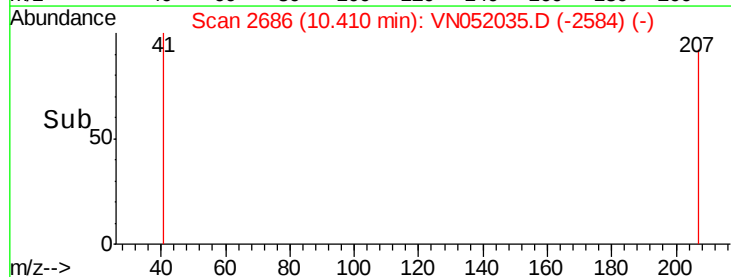
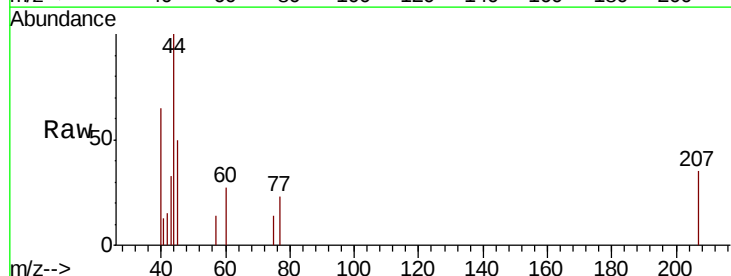
Acq: 26 Oct 2018 18:20

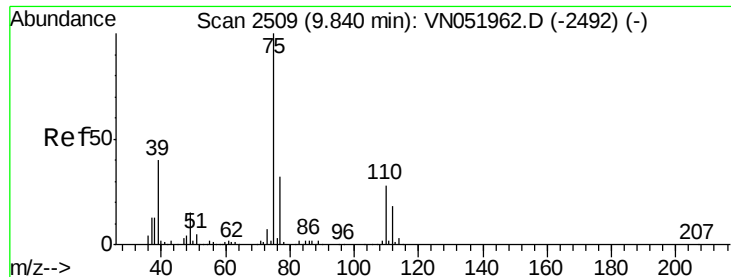
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 157.6 25.0 37.4#





#54

cis-1,3-Dichloropropene

Concen: 0.222 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#12

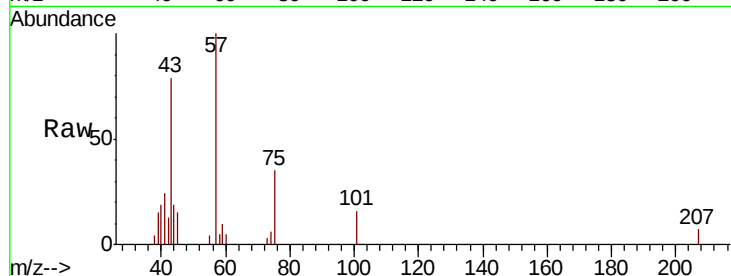
Tot Ion: 75 Resp: 3249

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

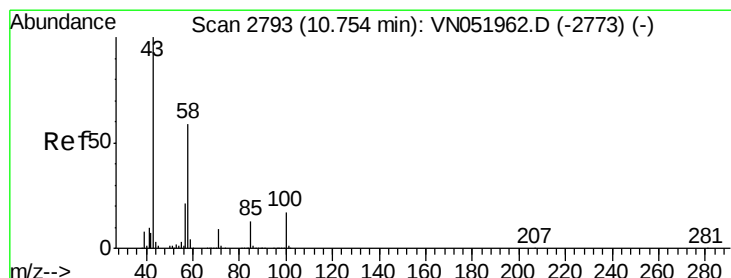
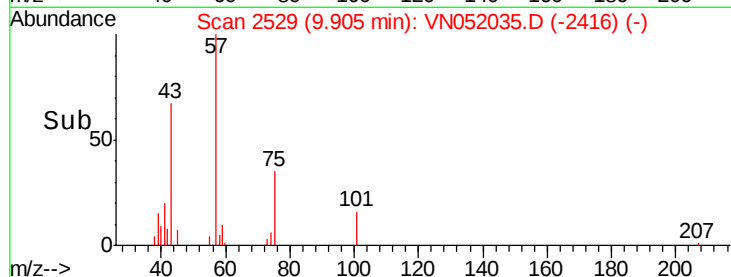
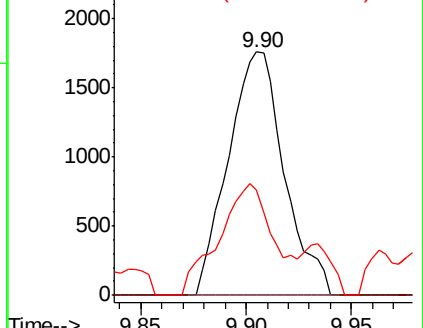
39 35.0 32.0 48.0



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



#59

2-Hexanone

Concen: 4.389 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052035.D

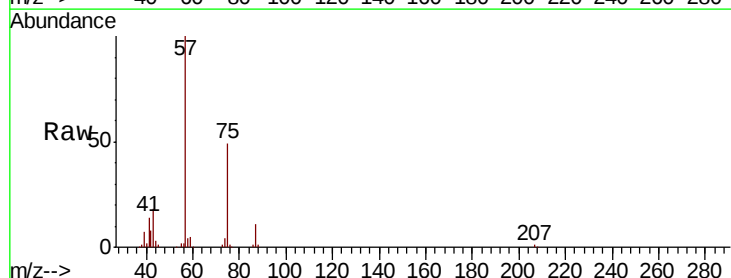
Acq: 26 Oct 2018 18:20

Tgt Ion: 43 Resp: 18584

Ion Ratio Lower Upper

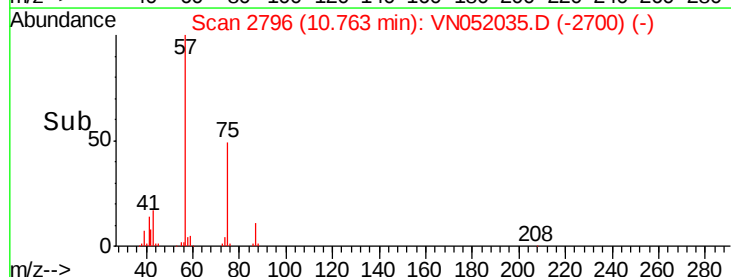
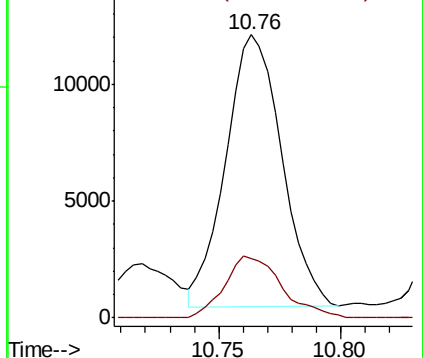
43 100

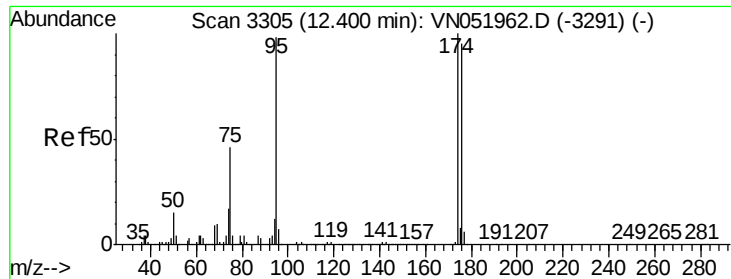
58 23.3 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#12

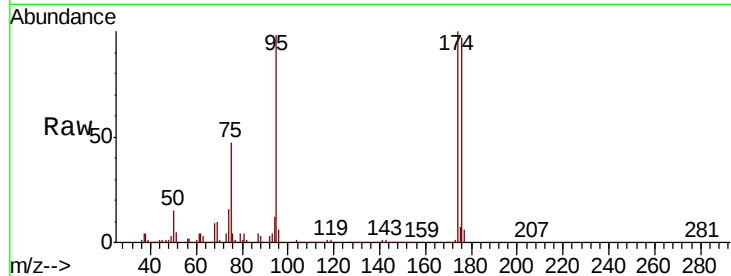
Tot Ion: 95 Resp: 750301

Ion Ratio Lower Upper

95 100

174 103.8 0.0 206.0

176 100.5 0.0 198.0

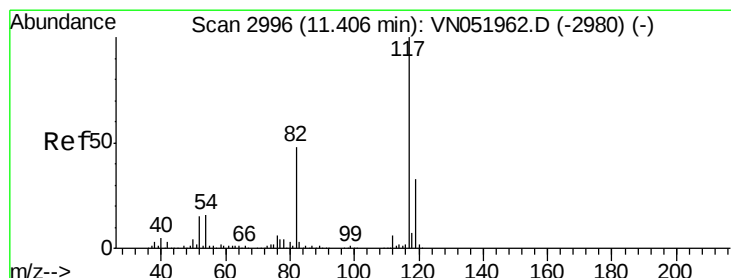
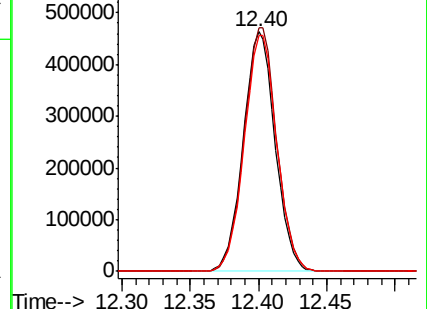
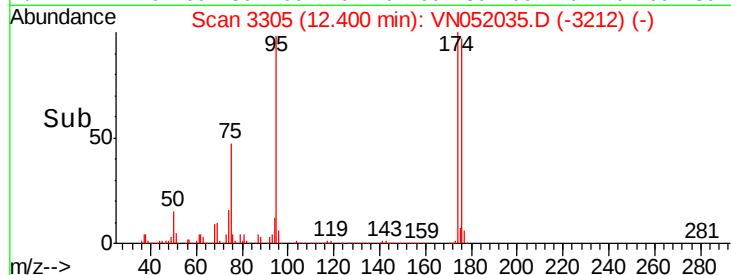


Abundance Ion 94.90 (94.60 to 95.60): VN051962.D (-3291) (-)

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: VN052035.D

Acq: 26 Oct 2018 18:20

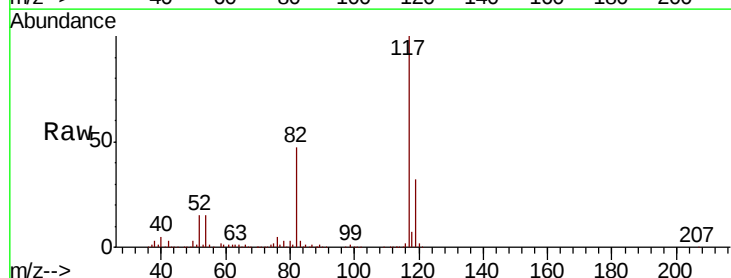
Tgt Ion: 117 Resp: 1678188

Ion Ratio Lower Upper

117 100

82 46.6 38.1 57.1

119 31.8 26.4 39.6

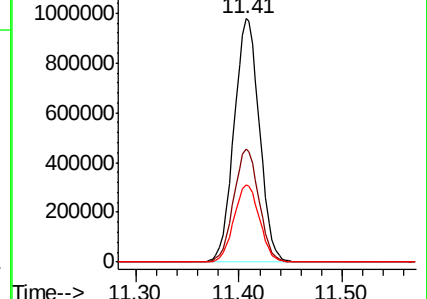
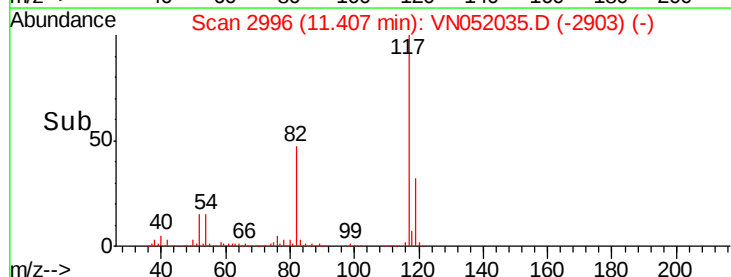


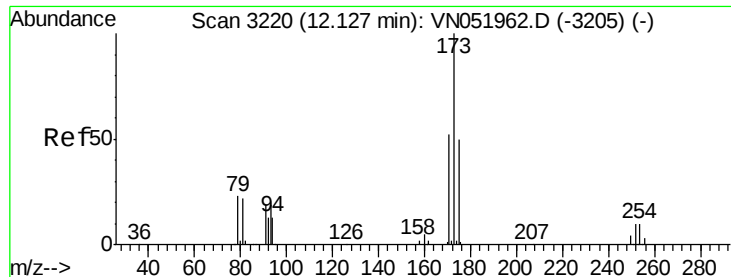
Abundance Ion 116.90 (116.60 to 117.60): VN051962.D (-2980) (-)

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: 4.486 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#12

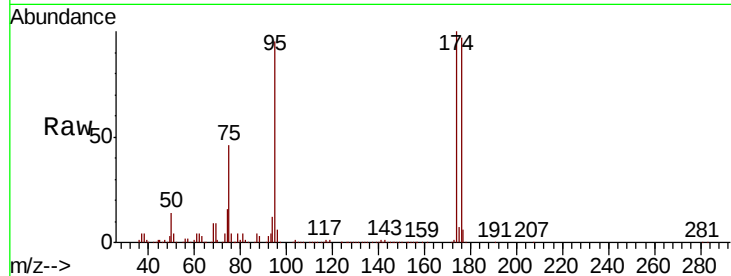
Tot Ion:173 Resp: 7716

Ion Ratio Lower Upper

173 100

175 649.5 24.6 74.0#

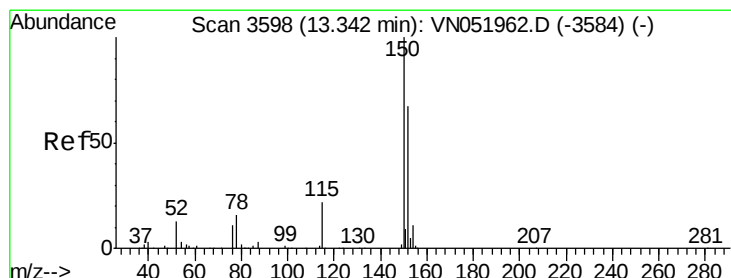
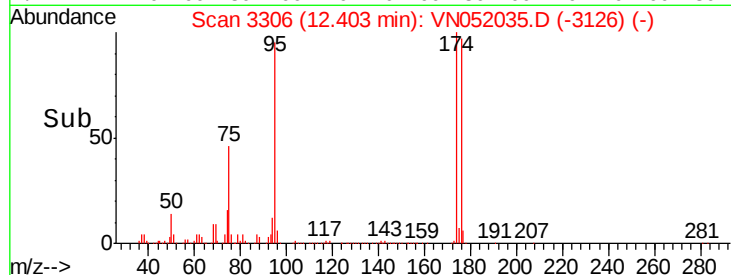
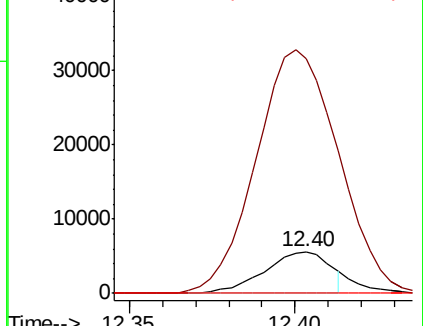
254 0.0 0.1 0.1#



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: VN052035.D

Acq: 26 Oct 2018 18:20

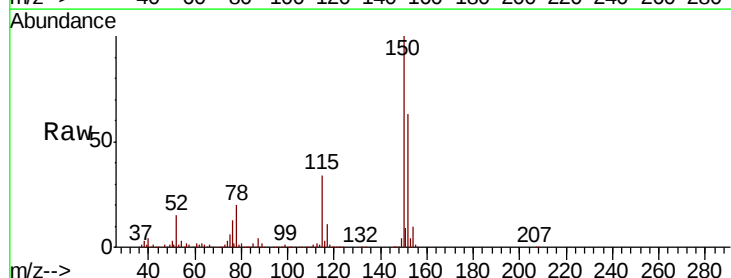
Tgt Ion:152 Resp: 721917

Ion Ratio Lower Upper

152 100

115 52.6 25.8 77.3

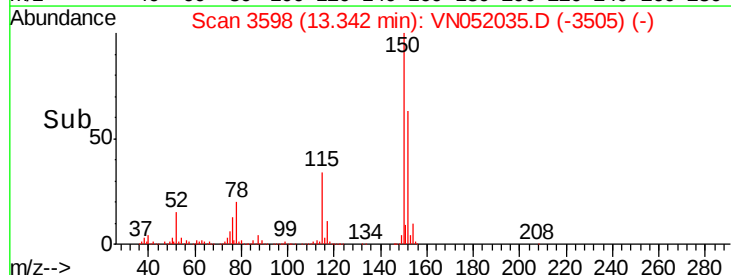
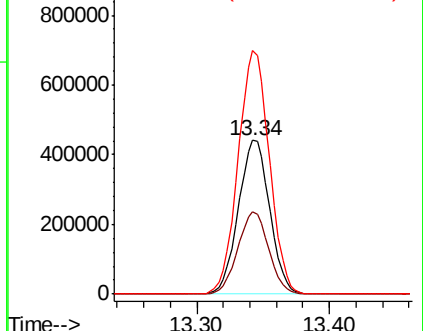
150 158.4 0.0 344.4

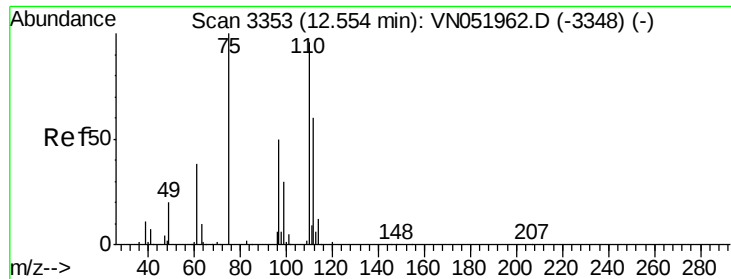


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 48.605 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

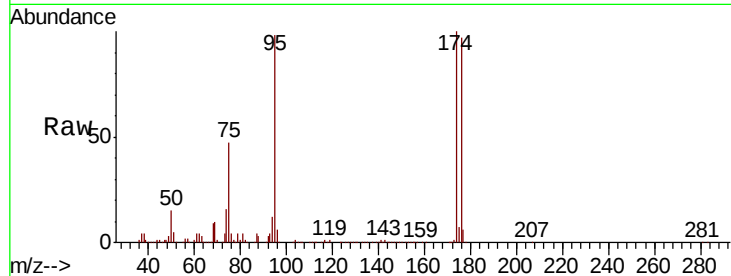
PB114195ZHE#12

Tot Ion: 75 Resp: 362449

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051962.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051962.D (-3348) (-)

12.40

250000

200000

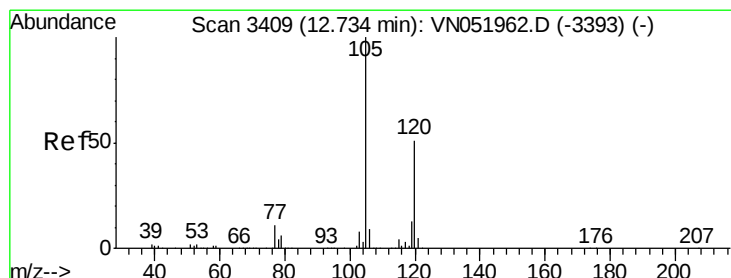
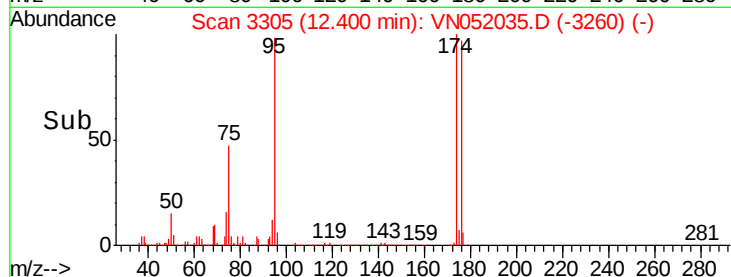
150000

100000

50000

0

Time--> 12.30 12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.262 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052035.D

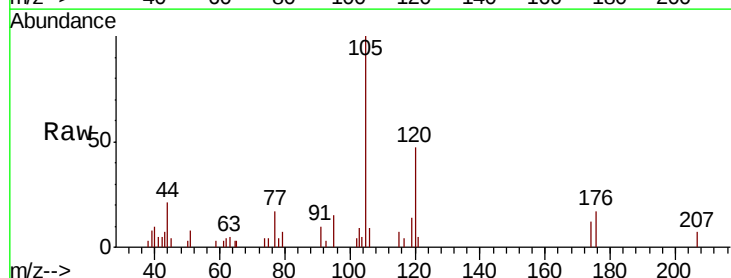
Acq: 26 Oct 2018 18:20

Tgt Ion: 105 Resp: 9621

Ion Ratio Lower Upper

105 100

120 47.2 25.7 77.1



Abundance Ion 105.00 (104.70 to 105.70): VN051962.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN051962.D (-3393) (-)

12.73

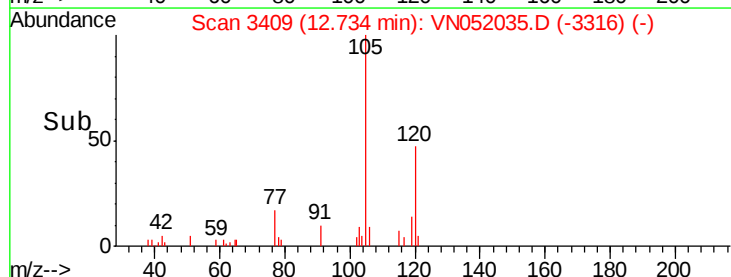
6000

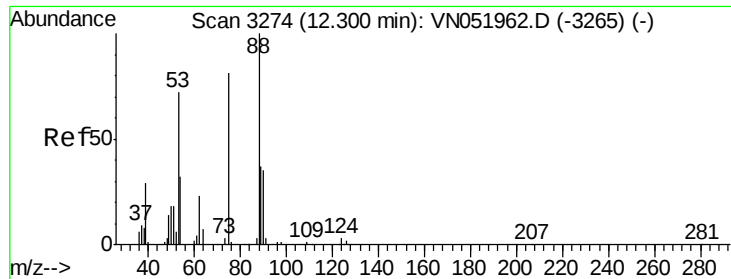
4000

2000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 152.833 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052035.D

Acq: 26 Oct 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#12

Tot Ion: 75 Resp: 362449

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#

