

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121118\
 Data File : VN052803.D
 Acq On : 11 Dec 2018 15:42
 Operator : MD\SY
 Sample : PB115504ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#08

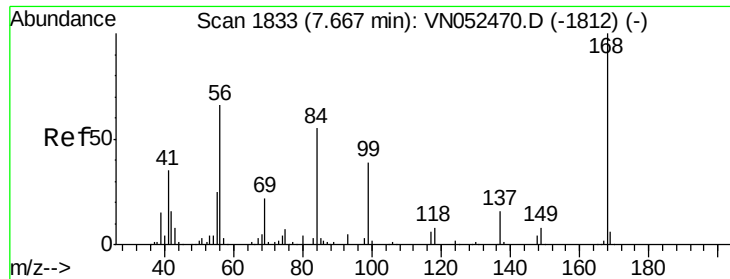
Quant Time: Dec 12 00:28:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1176474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1826150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1603925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	610490	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	616389	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
35) Dibromofluoromethane	7.59	113	512083	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
50) Toluene-d8	10.09	98	2235630	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
62) 4-Bromofluorobenzene	12.40	95	703052	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.81	43	6964	2.061	ug/l	89
18) Methyl Acetate	4.33	43	4752	0.490	ug/l #	81
20) Methylene Chloride	4.56	84	14881	1.125	ug/l	93
29) Tetrahydrofuran	7.21	42	1438	0.466	ug/l #	50
31) Cyclohexane	7.67	56	19991	0.545	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	79294	4.598	ug/l #	50
38) Carbon Tetrachloride	7.67	117	103978	6.660	ug/l #	16
43) Isopropyl Acetate	8.17	43	102006	5.727	ug/l #	70
45) 1,2-Dichloropropane	9.26	63	4025	0.295	ug/l #	43
48) Methyl methacrylate	9.18	41	18824	2.027	ug/l #	13
49) 1,4-Dioxane	9.26	88	130	1.349	ug/l #	24
51) 4-Methyl-2-Pentanone	10.02	43	23819	2.384	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	153933	8.119	ug/l #	61
56) Ethyl methacrylate	10.54	69	1951	2.817	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	29872	1.575	ug/l #	44
59) 2-Hexanone	10.76	43	408078	60.846	ug/l #	51
71) Bromoform	12.41	173	3950	0.519	ug/l #	1
74) N-amyl acetate	11.88	43	51895	4.289	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	334608	35.543	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	32955	0.863	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	334608	118.698	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.90	180	133	2.841	ug/l #	12
95) Naphthalene	15.13	128	552	3.451	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	91	2.736	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052803.D

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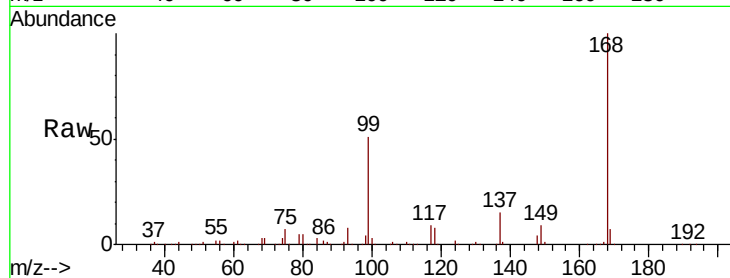
PB115504ZHE#08

Tot Ion:168 Resp: 1176474

Ion Ratio Lower Upper

168 100

99 51.0 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052470.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052470.D (-1812) (-)

7.67

500000

400000

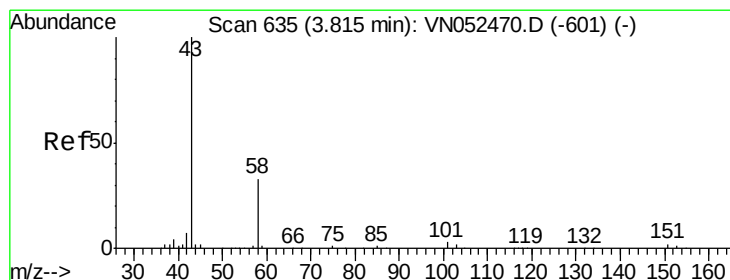
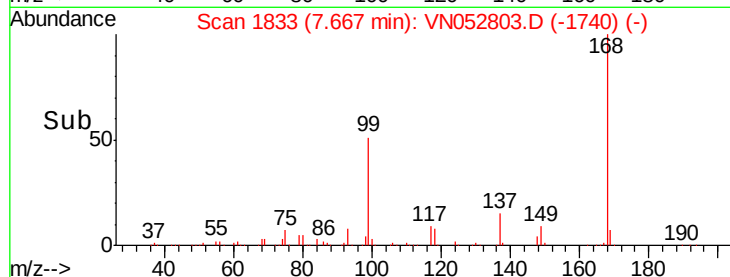
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 2.061 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN052803.D

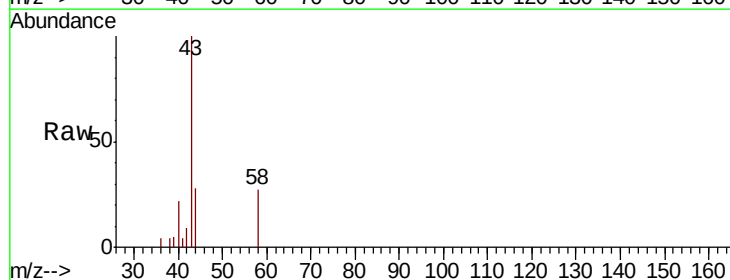
Acq: 11 Dec 2018 15:42

Tgt Ion: 43 Resp: 6964

Ion Ratio Lower Upper

43 100

58 26.6 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-601) (-)

3.81

6000

5000

4000

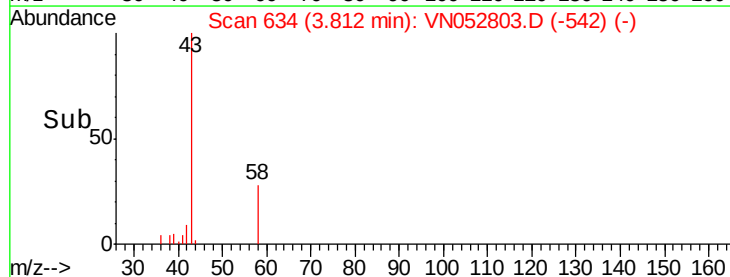
3000

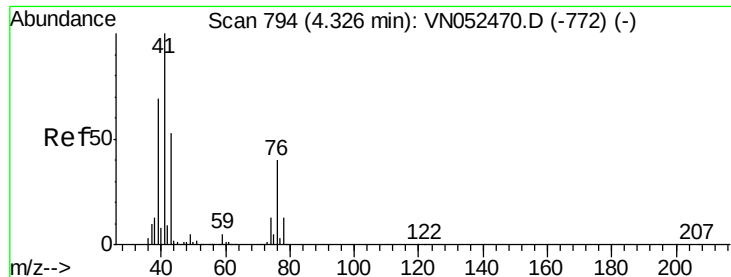
2000

1000

0

Time-->

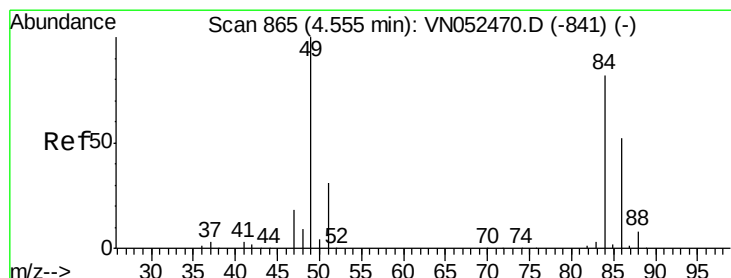
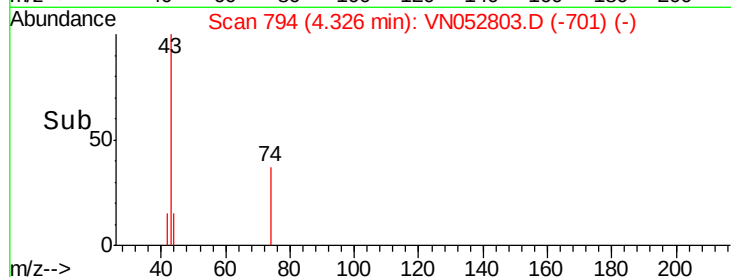
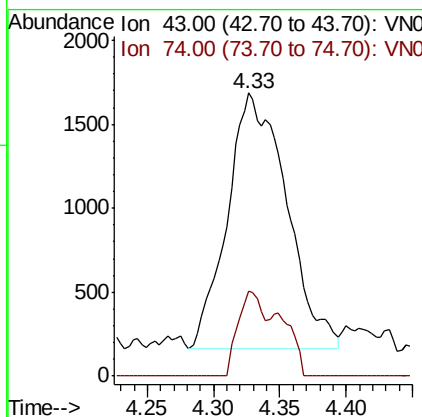
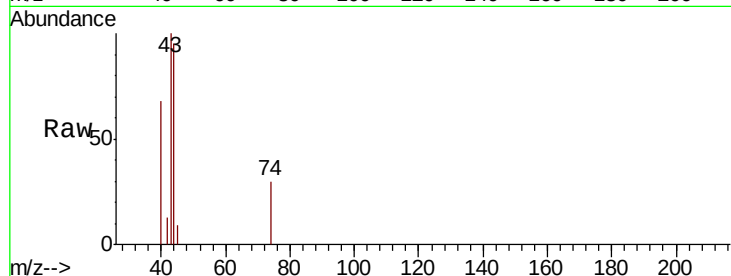




#18
Methvl Acetate
Concen: 0.490 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

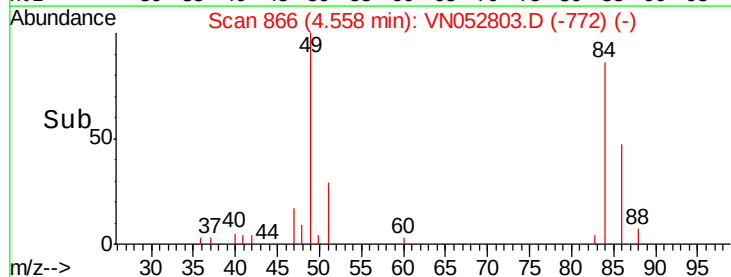
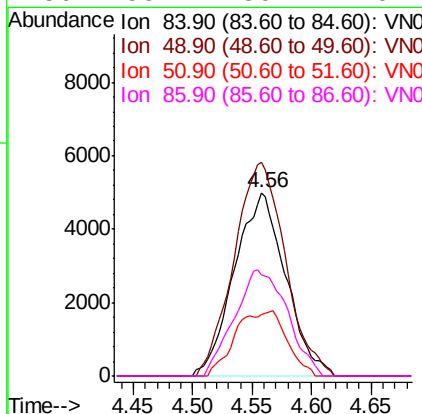
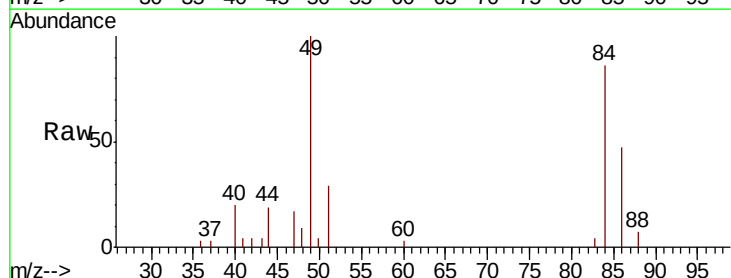
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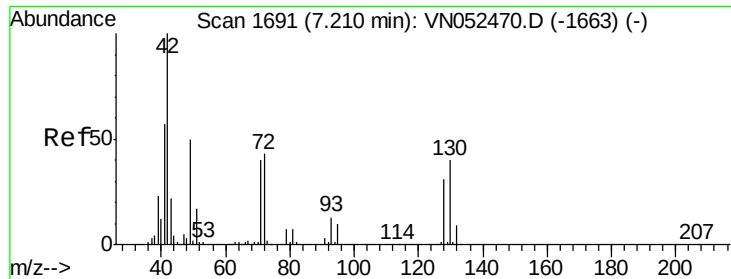
Tot Ion: 43 Resp: 4752
Ion Ratio Lower Upper
43 100
74 14.0 18.6 27.8#



#20
Methylene Chloride
Concen: 1.125 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Tgt Ion: 84 Resp: 14881
Ion Ratio Lower Upper
84 100
49 116.3 98.0 147.0
51 33.5 30.1 45.1
86 55.2 50.7 76.1





#29

Tetrahydrofuran

Concen: 0.466 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#08

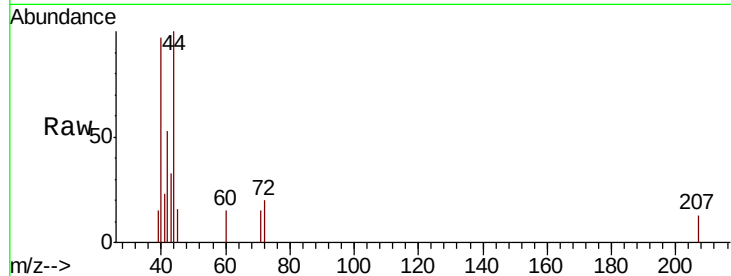
Tot Ion: 42 Resp: 1438

Ion Ratio Lower Upper

42 100

72 14.5 33.3 49.9#

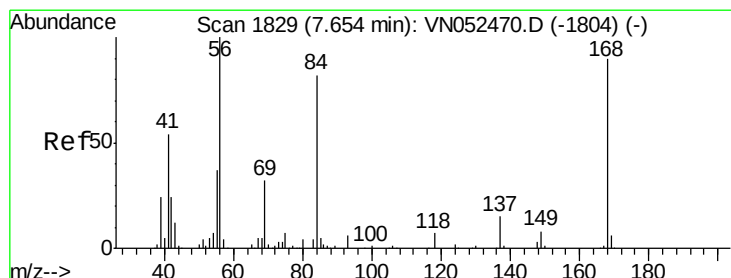
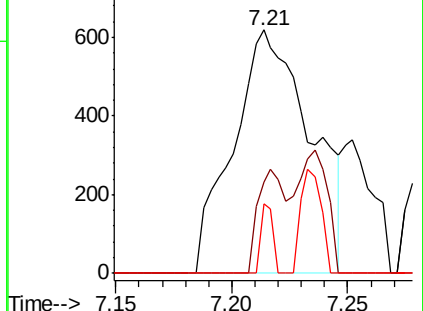
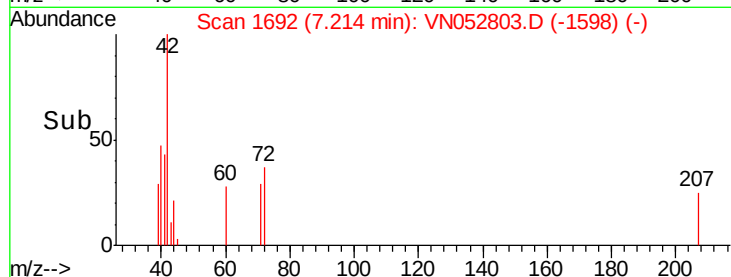
71 4.5 32.0 48.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.545 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

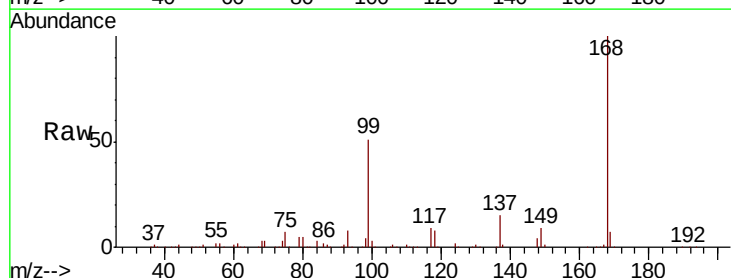
Tgt Ion: 56 Resp: 19991

Ion Ratio Lower Upper

56 100

69 181.2 25.8 38.6#

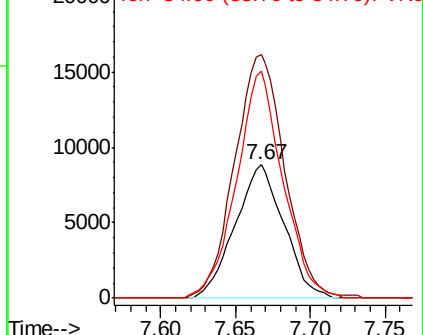
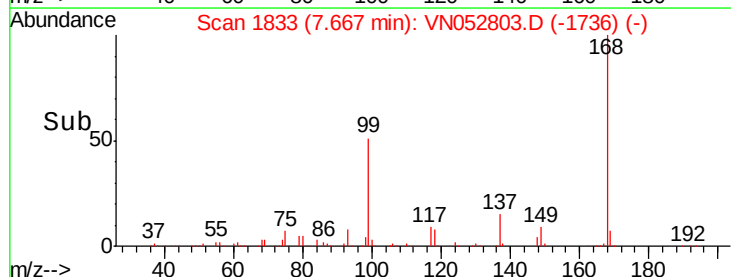
84 168.3 65.3 97.9#

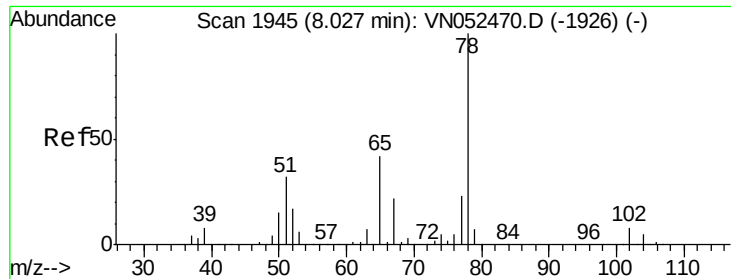


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

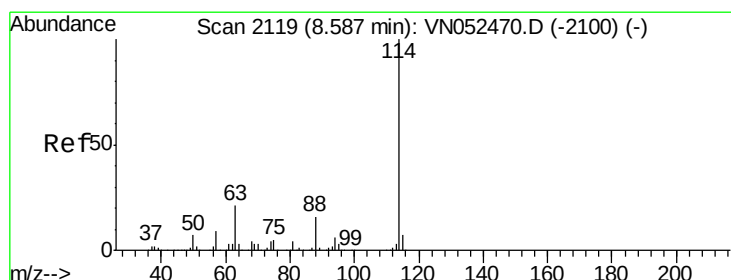
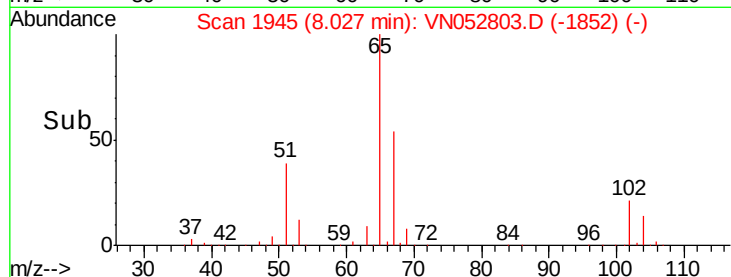
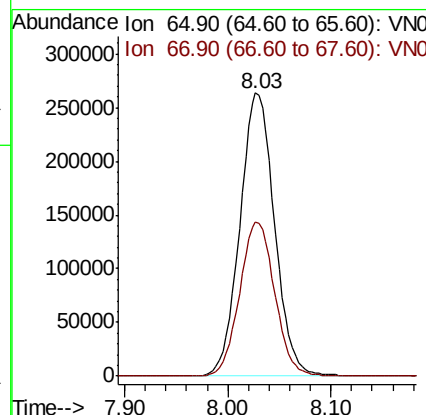
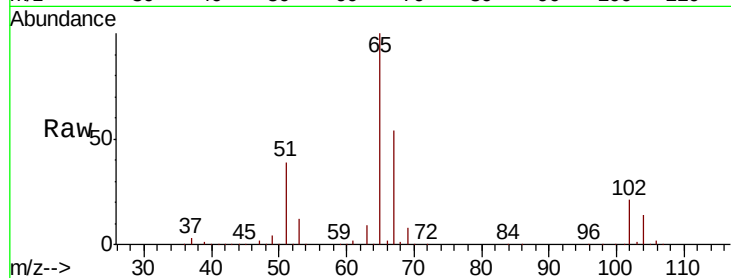




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052803.D
 Acq: 11 Dec 2018 15:42

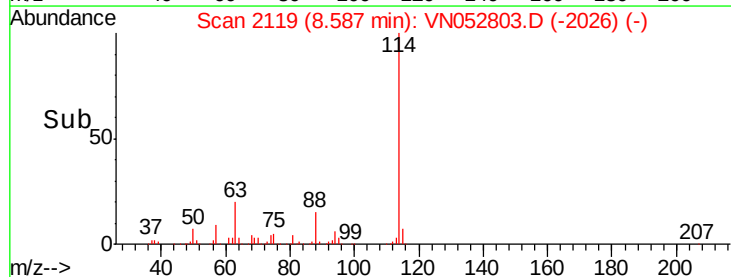
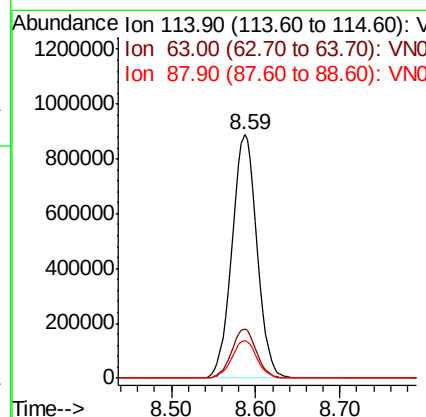
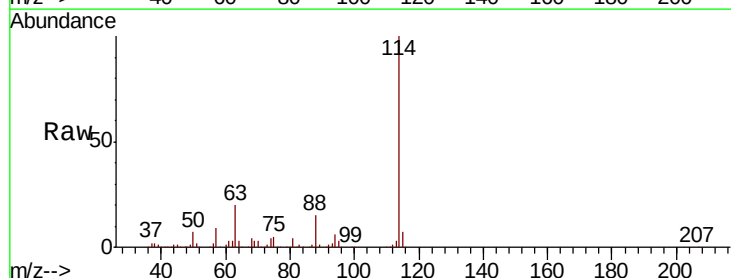
Instrument :
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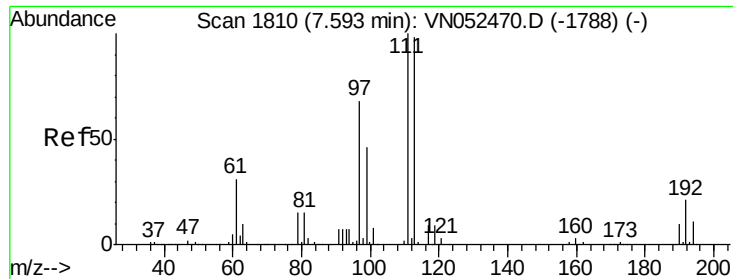
Tot Ion: 65 Resp: 616389
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052803.D
 Acq: 11 Dec 2018 15:42

Tgt Ion: 114 Resp: 1826150
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.8
 88 15.5 0.0 31.6

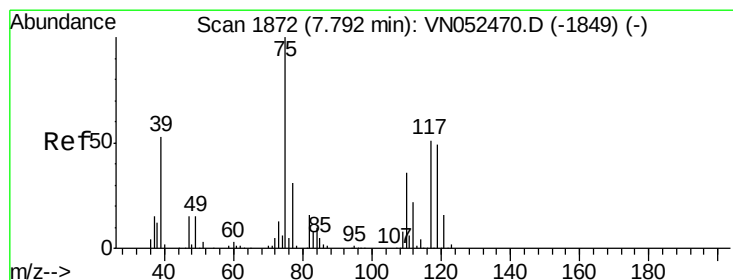
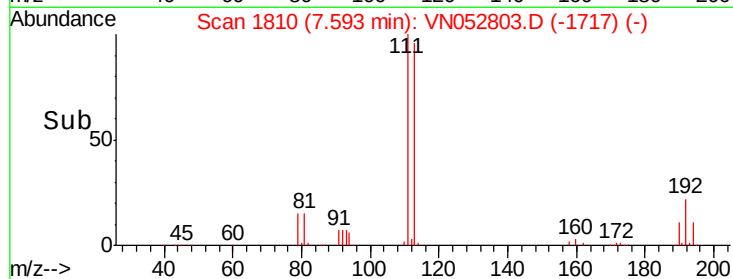
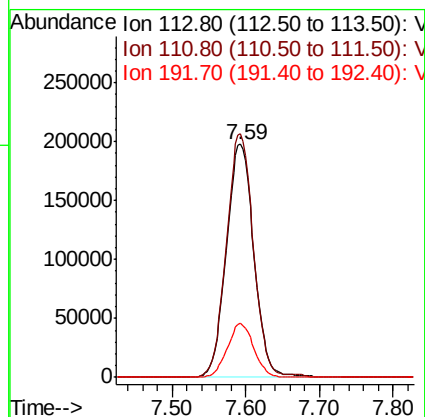
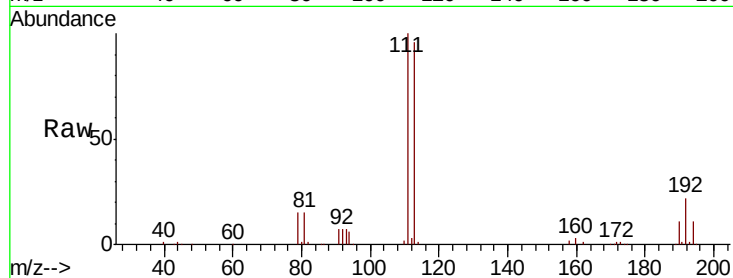




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

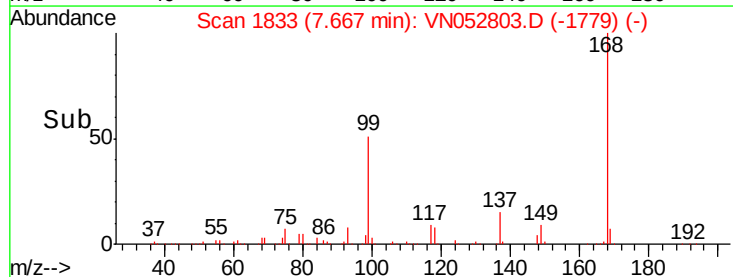
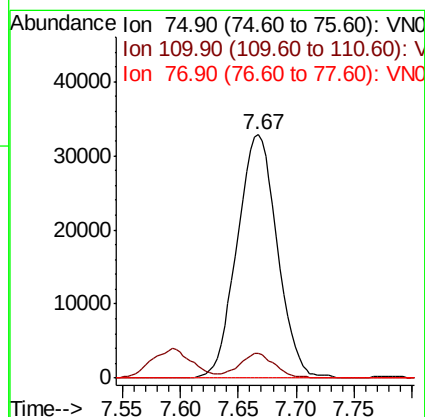
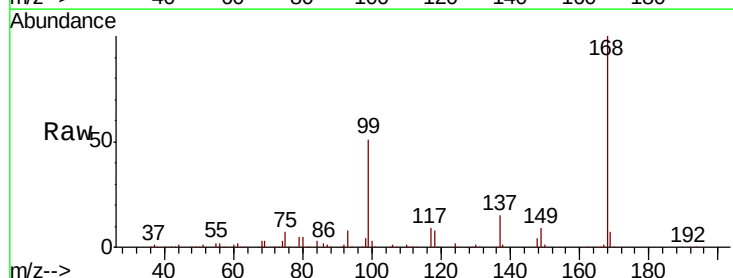
Instrument :
MSVOA_N
ClientSampleId :
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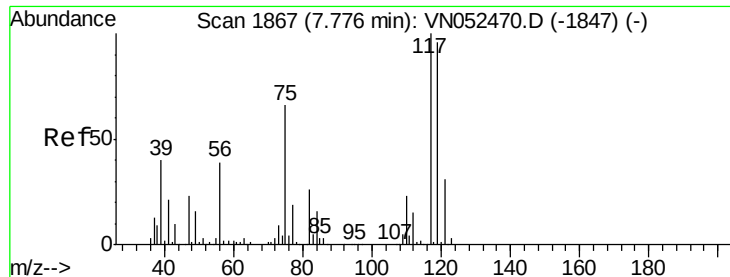
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.0	123.0
192	22.3	17.0	25.6



#36
1,1-Dichloropropene
Concen: 4.598 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.5	52.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.660 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#08

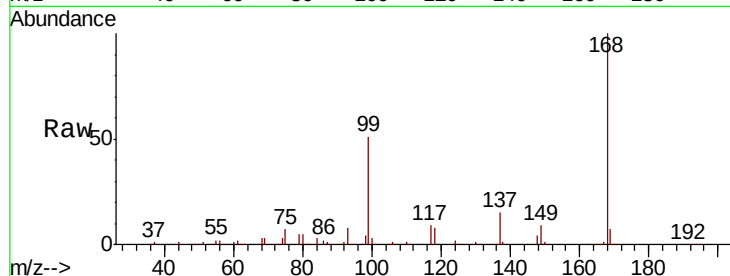
Tot Ion:117 Resp: 103978

Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

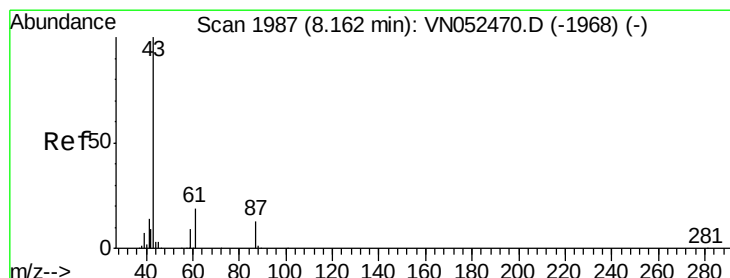
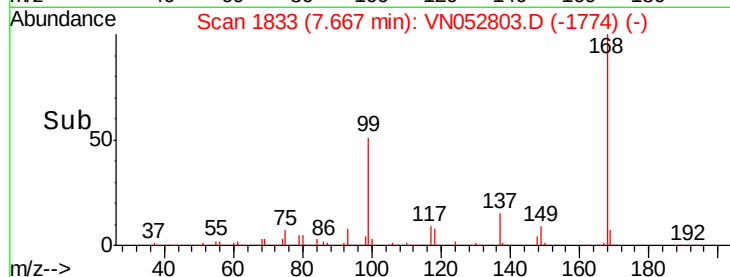
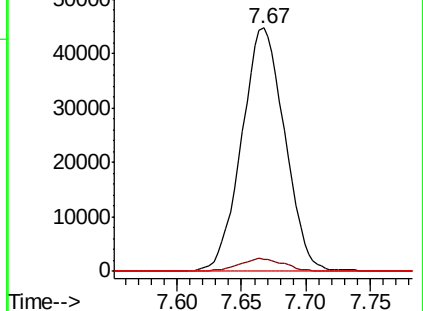
121 0.0 24.9 37.3#



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: 5.727 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

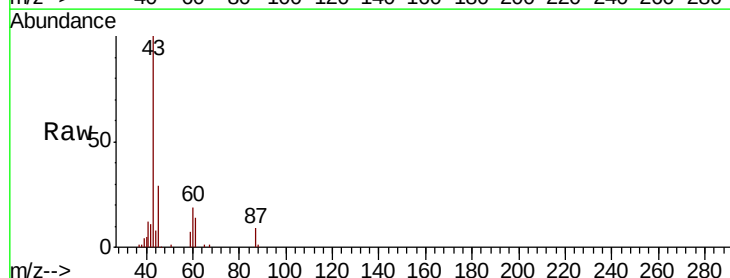
Tgt Ion: 43 Resp: 102006

Ion Ratio Lower Upper

43 100

61 10.9 24.1 36.1#

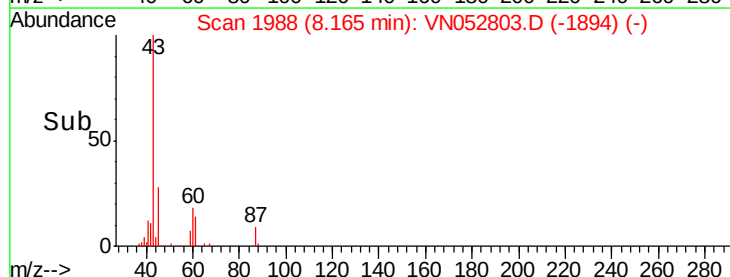
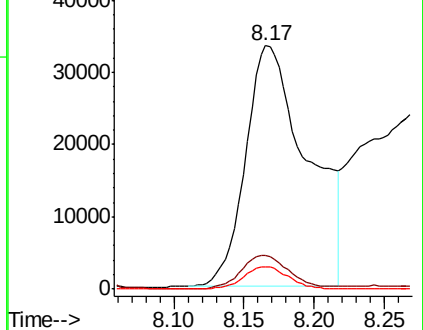
87 6.7 10.6 15.8#

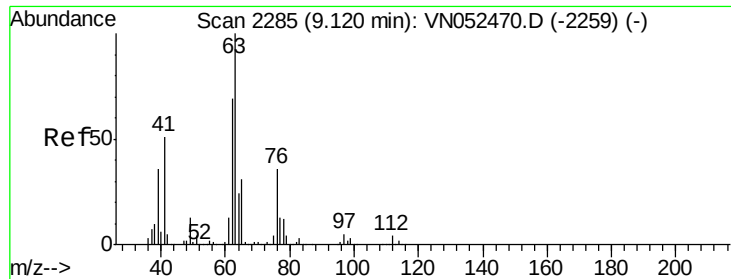


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

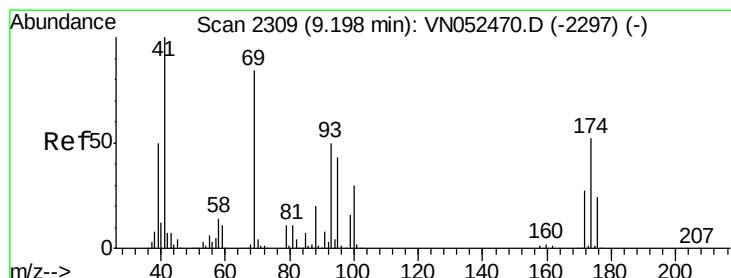
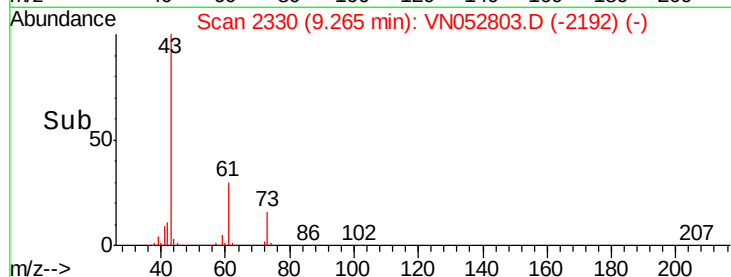
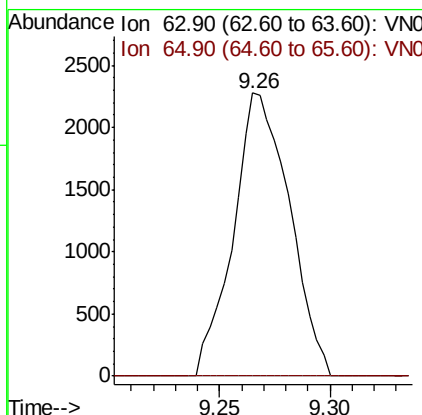
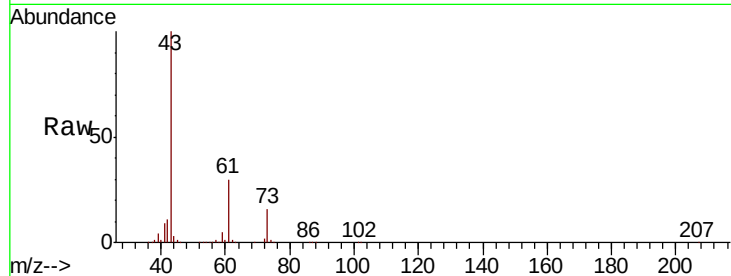




#45
 1,2-Dichloropropane
 Concen: 0.295 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN052803.D
 Acq: 11 Dec 2018 15:42

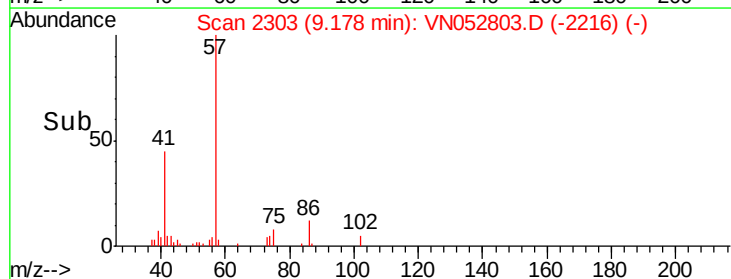
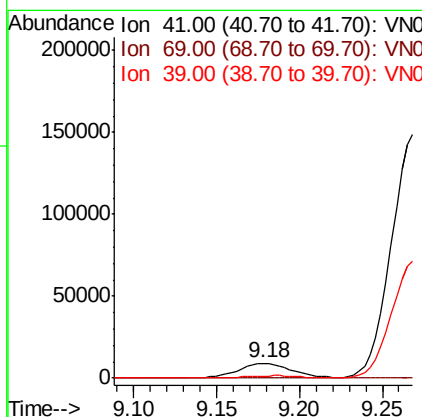
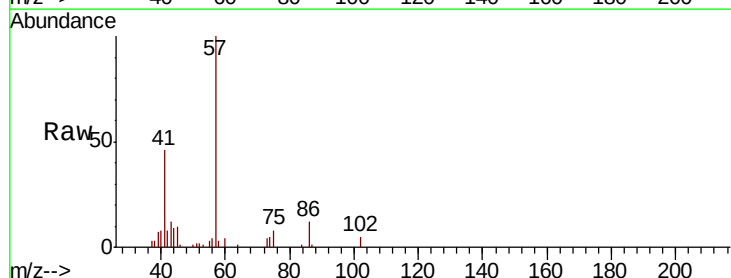
Instrument :
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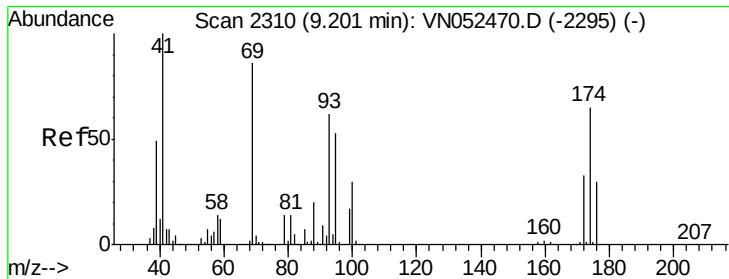
Tot Ion: 63 Resp: 4025
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 2.027 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN052803.D
 Acq: 11 Dec 2018 15:42

Tgt Ion: 41 Resp: 18824
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.0 105.0#
 39 0.0 42.6 64.0#

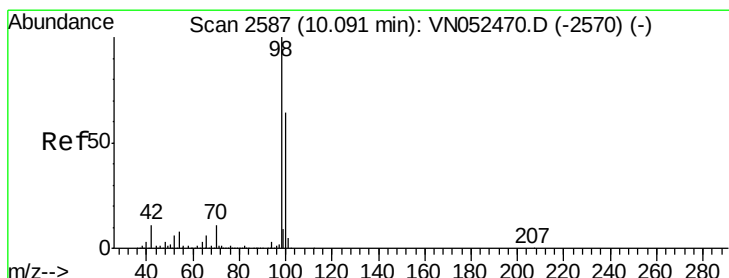
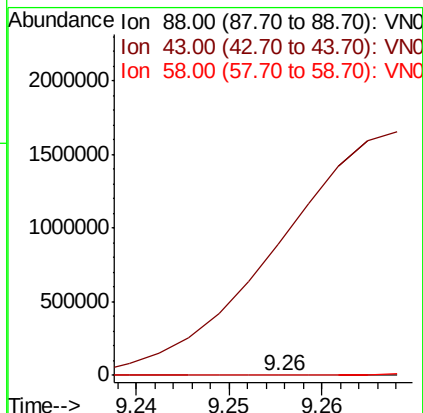
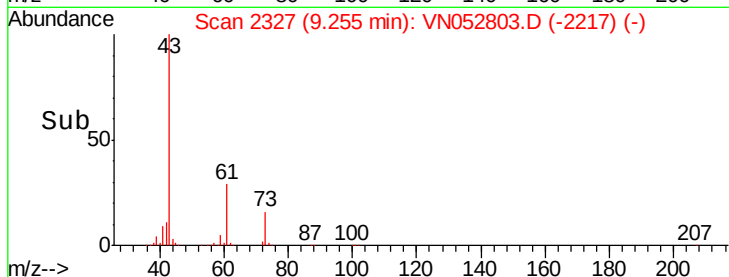
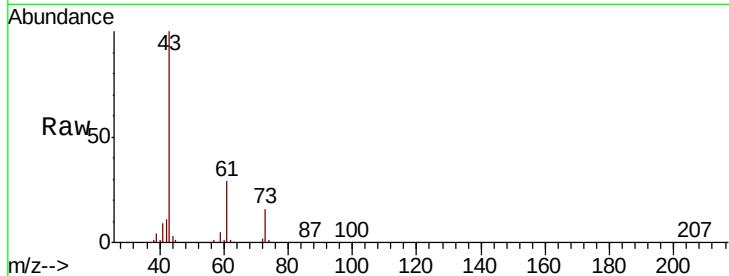




#49
1,4-Dioxane
Concen: 1.349 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.05 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

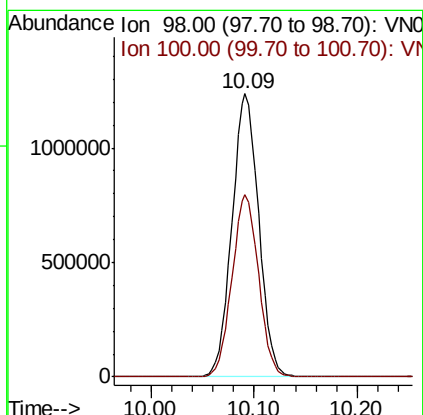
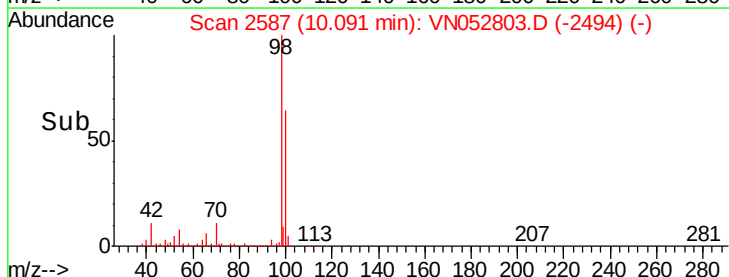
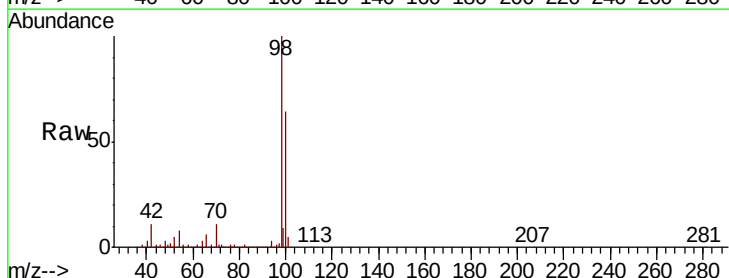
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#08

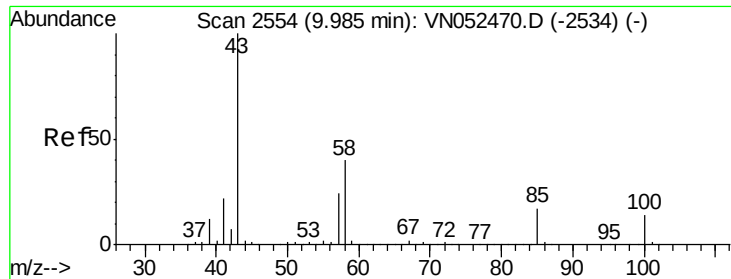
Tot Ion: 88 Resp: 130
Ion Ratio Lower Upper
88 100
43 0.0 26.4 39.6#
58 0.0 55.4 83.0#



#50
Toluene-d8
Concen: 1.349 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Tgt Ion: 98 Resp: 2235630
Ion Ratio Lower Upper
98 100
100 63.9 51.3 76.9





#51

4-Methyl-2-Pentanone

Concen: 2.384 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

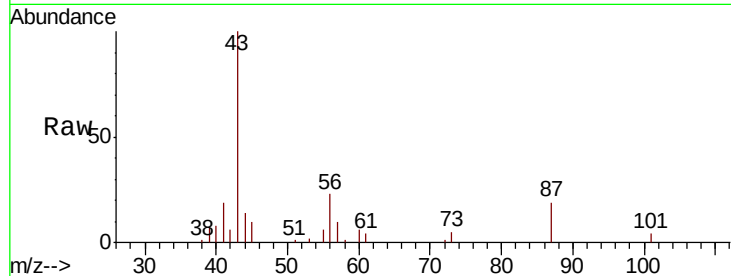
PB115504ZHE#08

Tot Ion: 43 Resp: 23819

Ion Ratio Lower Upper

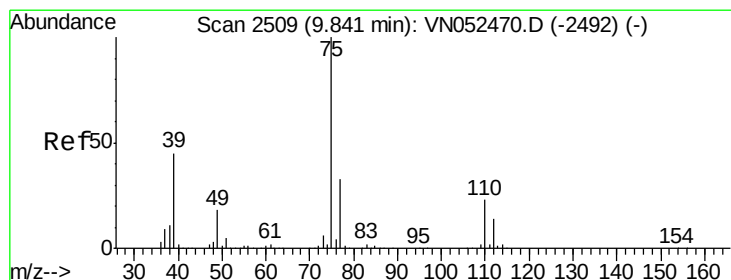
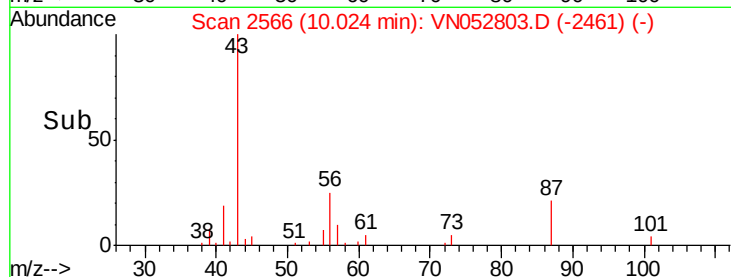
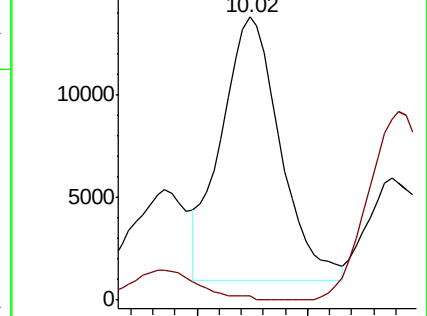
43 100

58 0.0 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 8.119 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

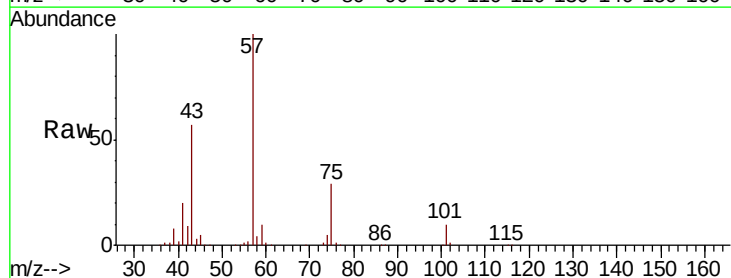
Tgt Ion: 75 Resp: 153933

Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.2#

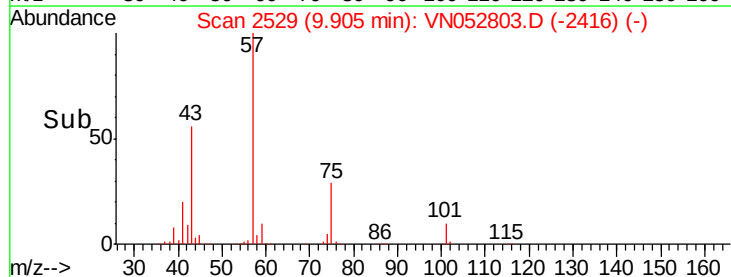
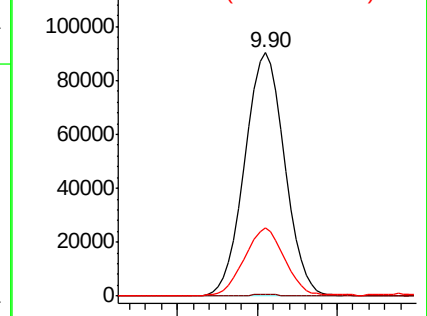
39 27.6 36.0 54.0#

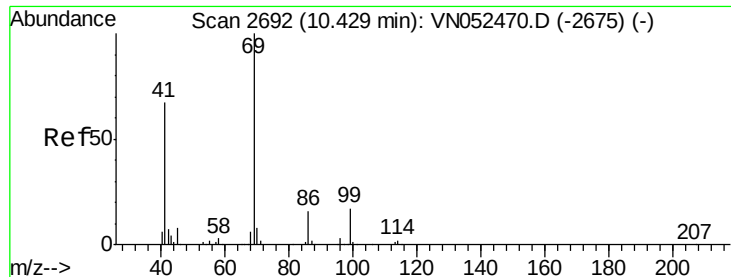


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 2.817 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#08

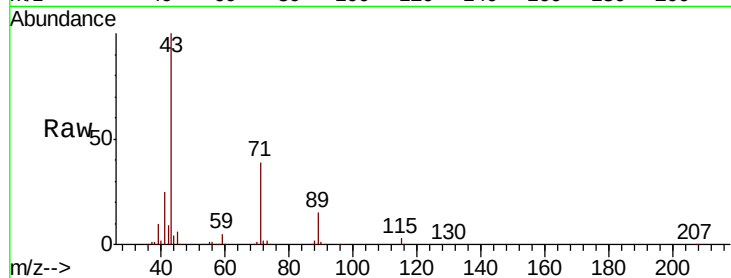
Tot Ion: 69 Resp: 1951

Ion Ratio Lower Upper

69 100

41 6246.1 52.6 79.0#

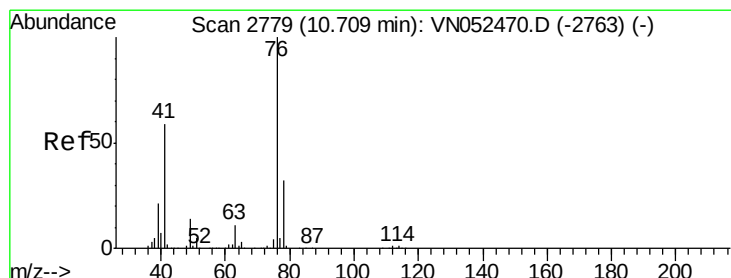
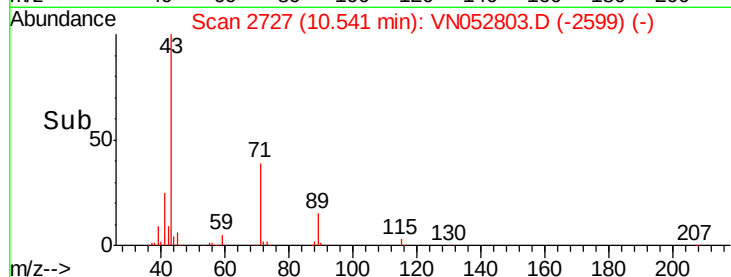
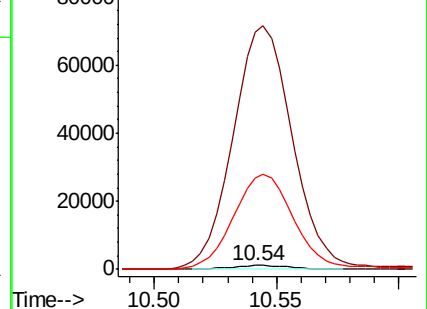
39 2481.0 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VN052470.D (-2675) (-)

Ion 41.00 (40.70 to 41.70): VN052470.D (-2675) (-)

Ion 39.00 (38.70 to 39.70): VN052470.D (-2675) (-)



#57

1,3-Dichloropropane

Concen: 1.575 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052803.D

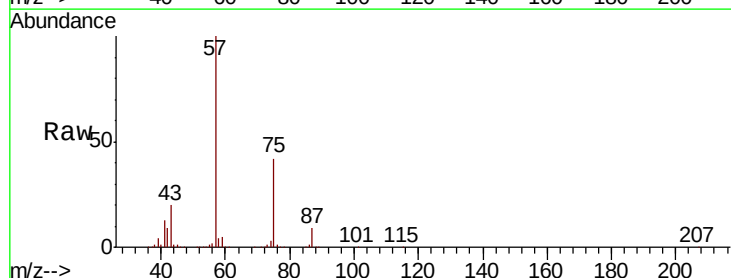
Acq: 11 Dec 2018 15:42

Tgt Ion: 76 Resp: 29872

Ion Ratio Lower Upper

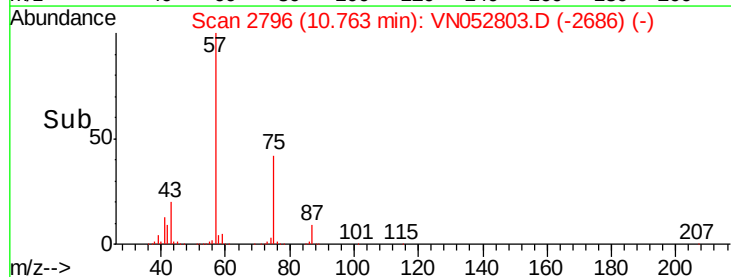
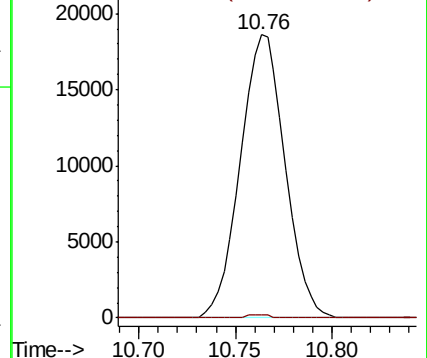
76 100

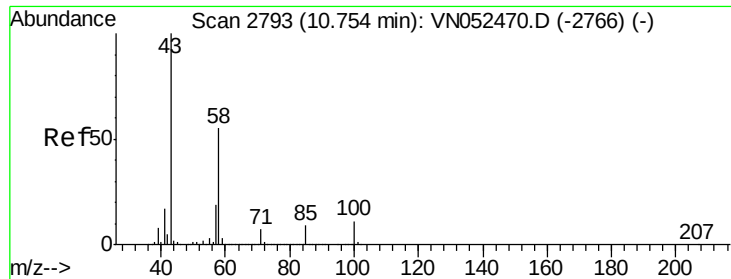
78 0.5 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN052470.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN052470.D (-2763) (-)

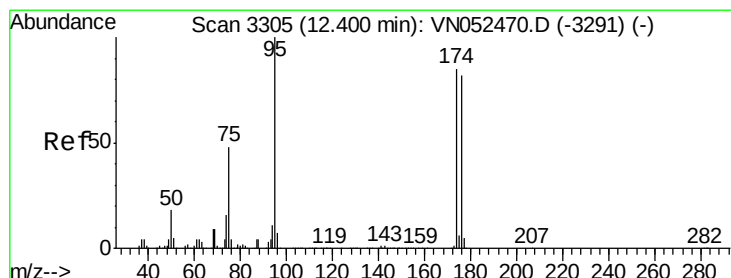
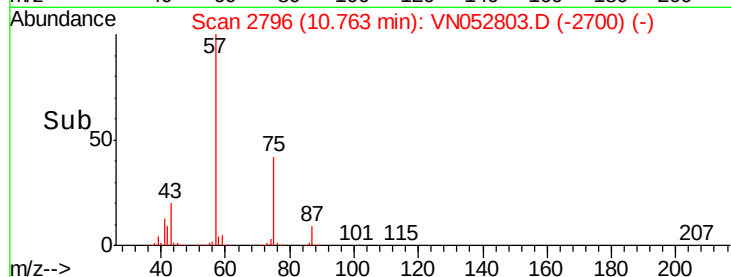
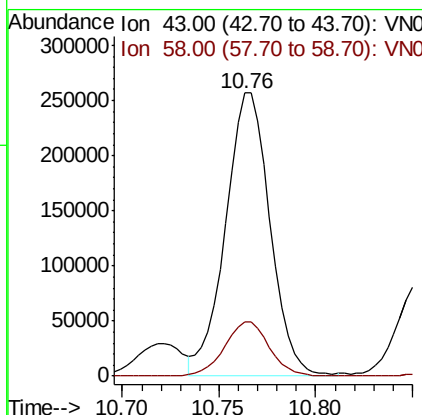
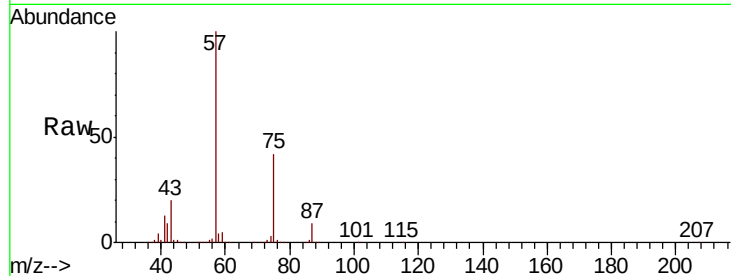




#59
2-Hexanone
Concen: 60.846 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

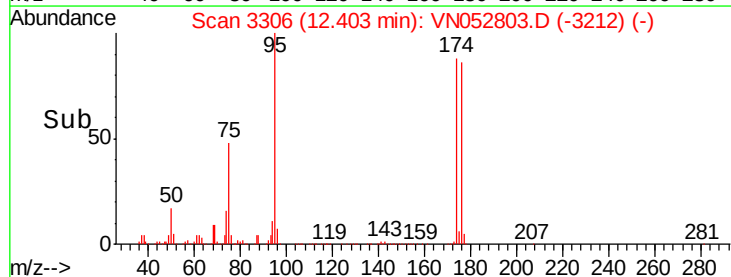
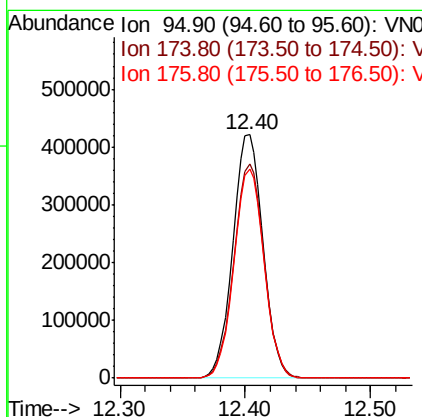
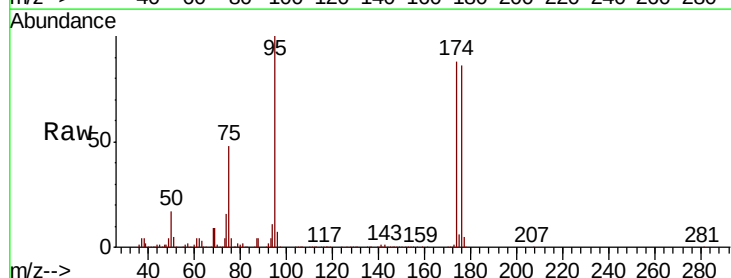
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#08

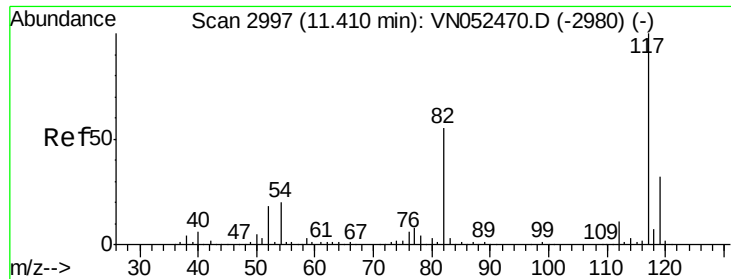
Tot Ion: 43 Resp: 408078
Ion Ratio Lower Upper
43 100
58 19.4 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Tgt Ion: 95 Resp: 703052
Ion Ratio Lower Upper
95 100
174 88.0 0.0 173.0
176 85.8 0.0 166.2

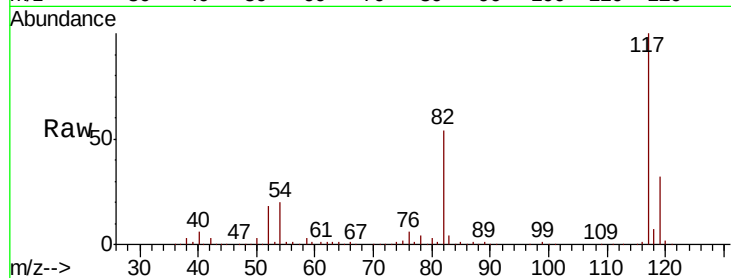




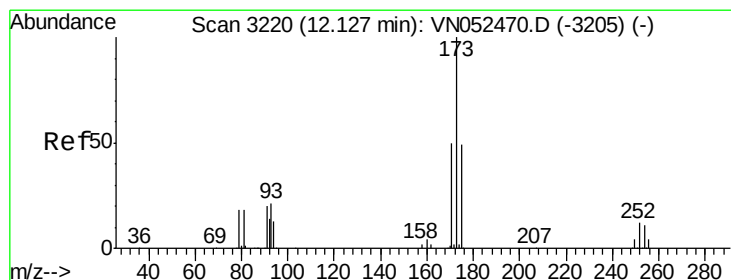
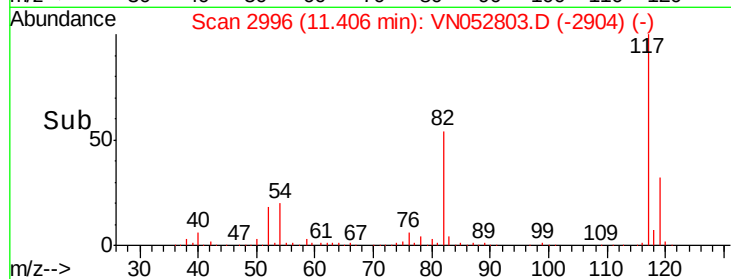
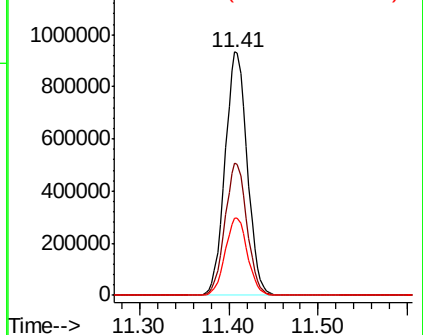
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#08

Tot Ion:117 Resp: 1603925
Ion Ratio Lower Upper
117 100
82 54.3 43.6 65.4
119 31.8 25.4 38.2

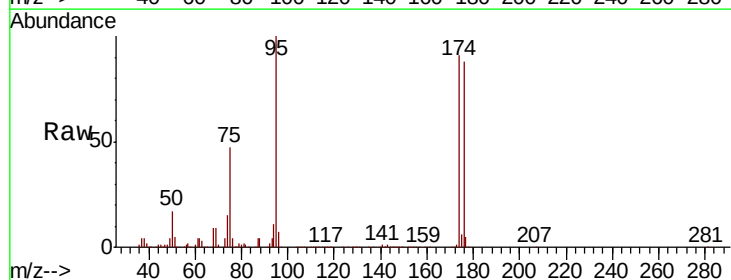


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

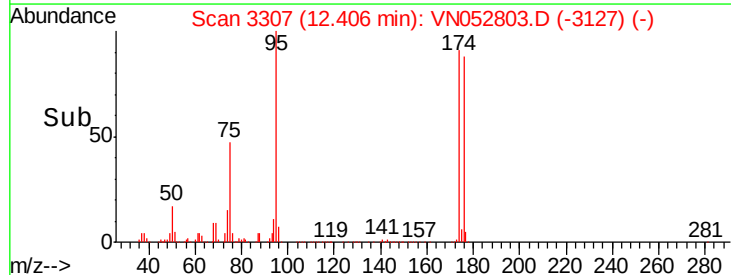
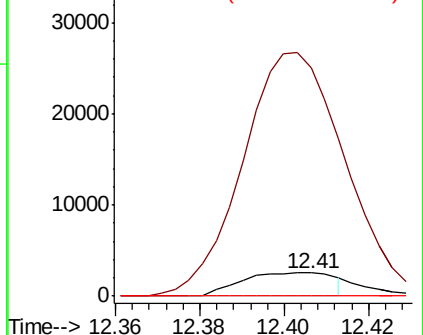


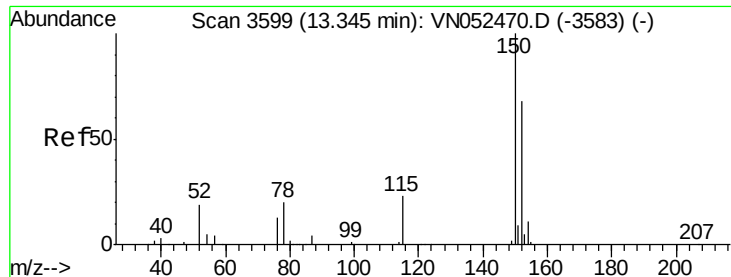
#71
Bromoform
Concen: 0.519 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Tgt Ion:173 Resp: 3950
Ion Ratio Lower Upper
173 100
175 974.4 24.4 73.2#
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



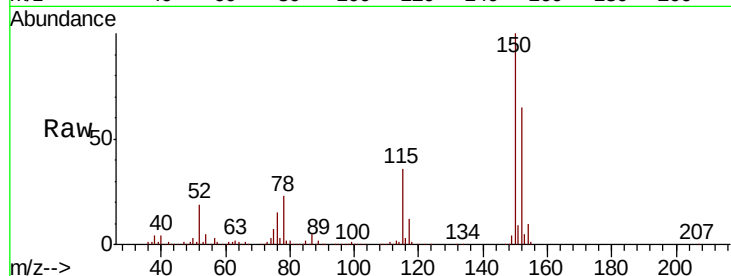


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#08

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.4	85.2
150	156.0	0.0	346.0

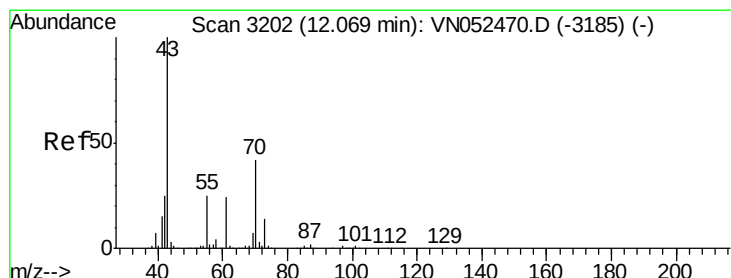
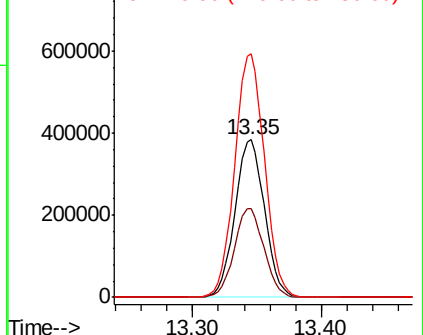
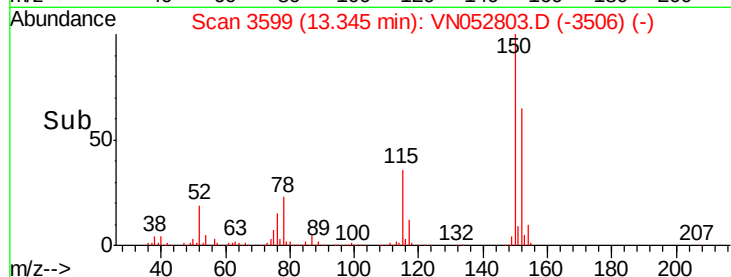


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

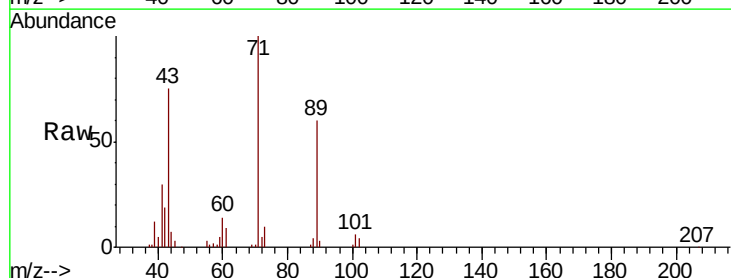
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 4.289 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN052803.D
Acq: 11 Dec 2018 15:42

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.0	33.8	50.8#
55	4.2	20.0	30.0#
61	11.3	19.7	29.5#



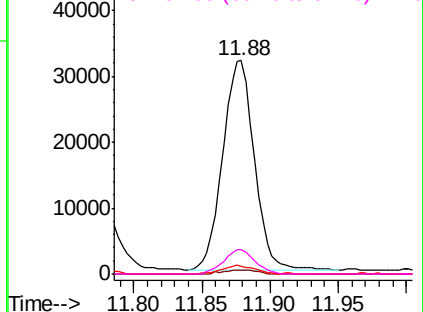
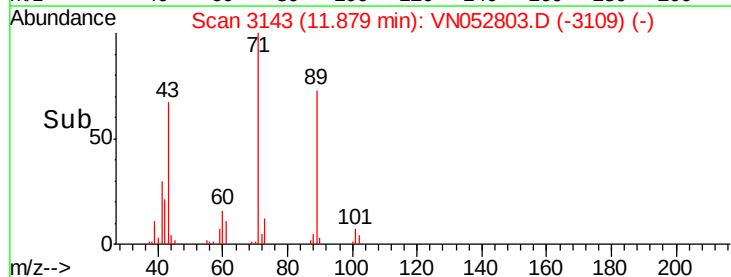
Abundance

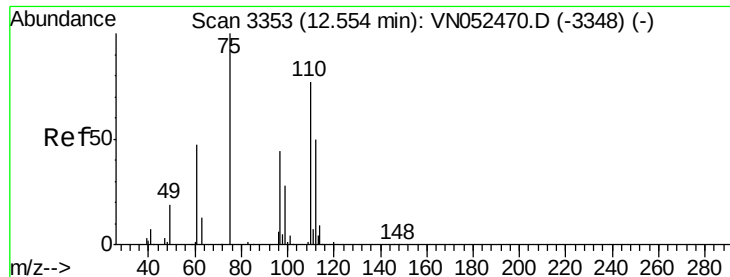
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 35.543 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

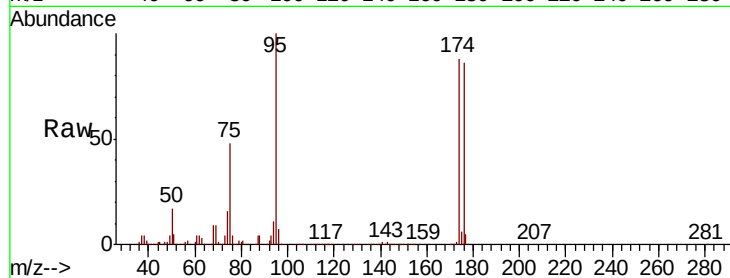
PB115504ZHE#08

Tot Ion: 75 Resp: 334608

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052470.D (-3348) (-)

12.40

200000

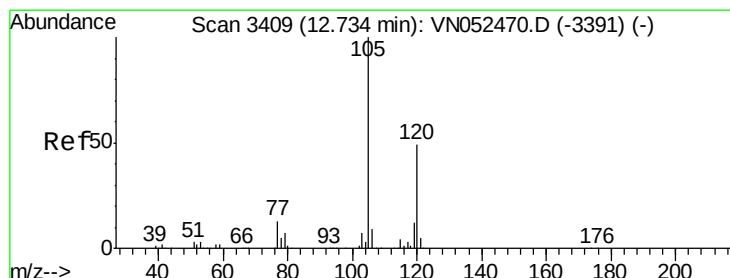
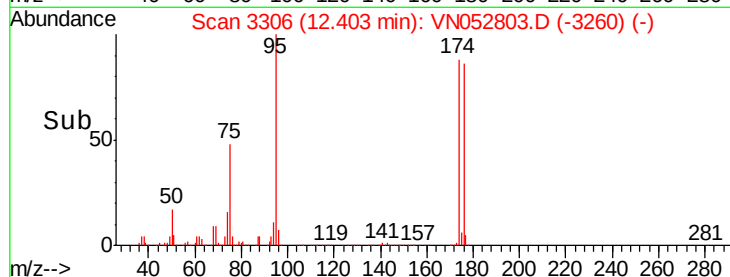
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.863 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052803.D

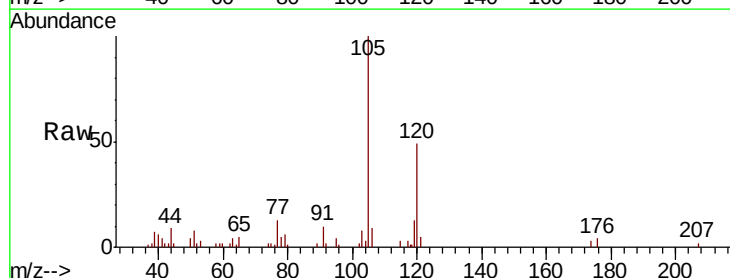
Acq: 11 Dec 2018 15:42

Tgt Ion: 105 Resp: 32955

Ion Ratio Lower Upper

105 100

120 49.2 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052470.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052470.D (-3391) (-)

12.73

20000

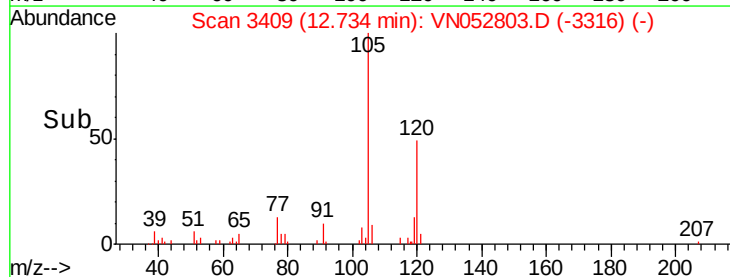
15000

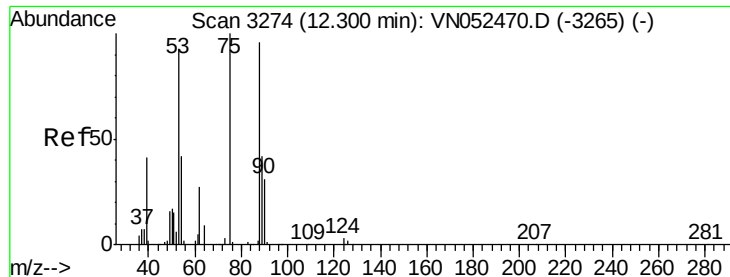
10000

5000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 118.698 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#08

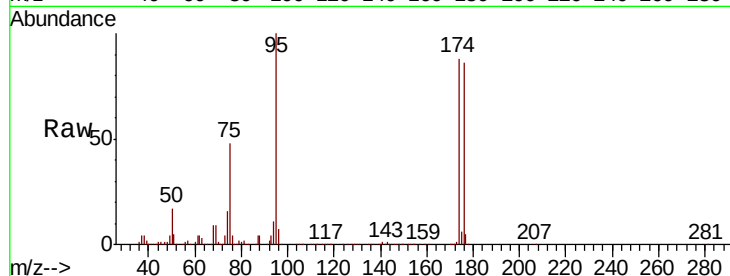
Tot Ion: 75 Resp: 334608

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

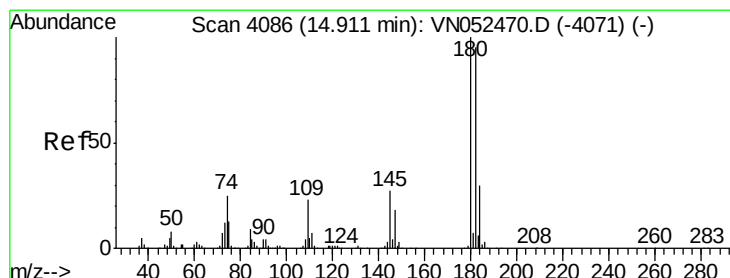
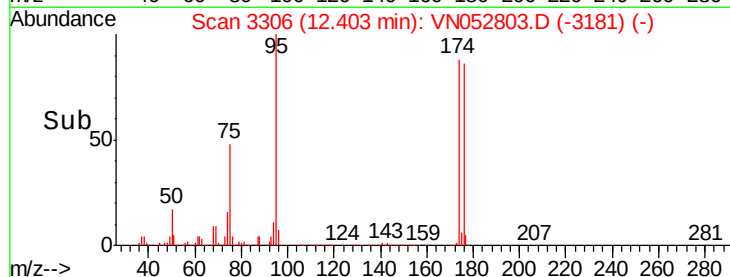
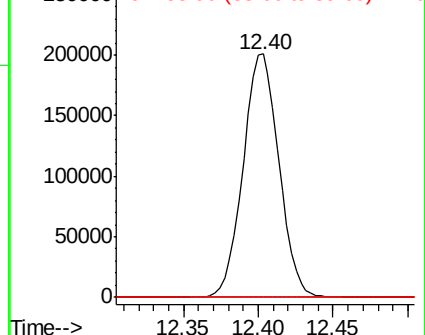


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 2.841 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.01 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

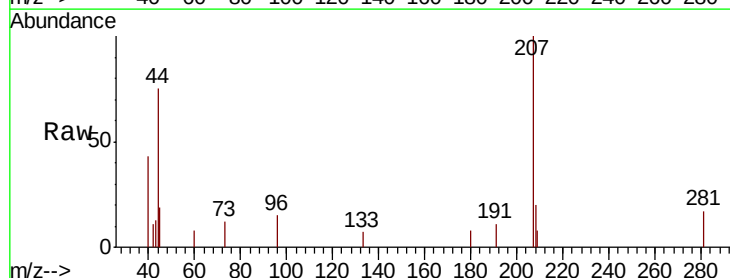
Tgt Ion: 180 Resp: 133

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.4#

145 0.0 14.1 42.3#

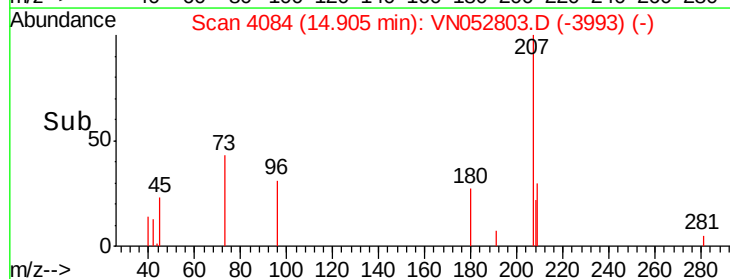
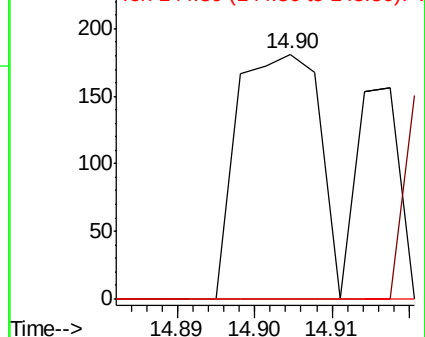


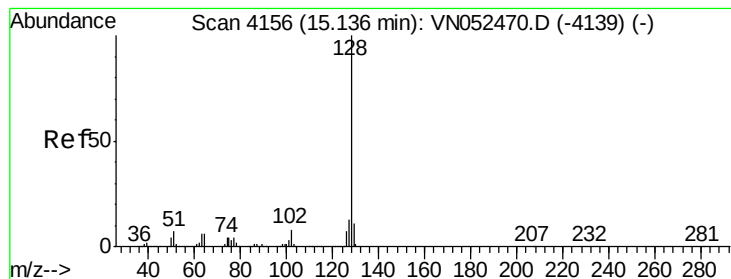
Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.451 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.01 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#08

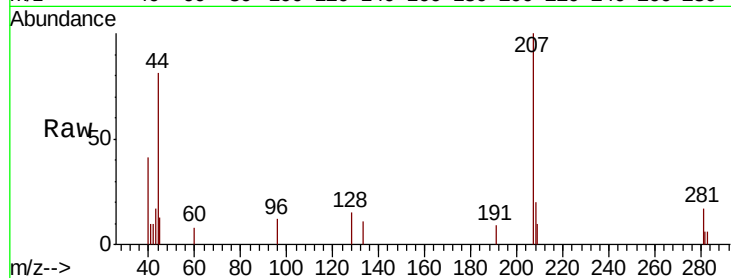
Tot Ion:128 Resp: 552

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

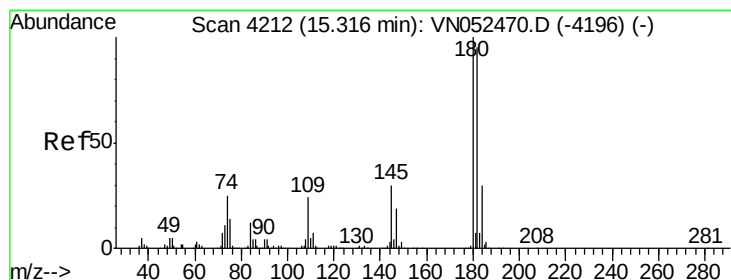
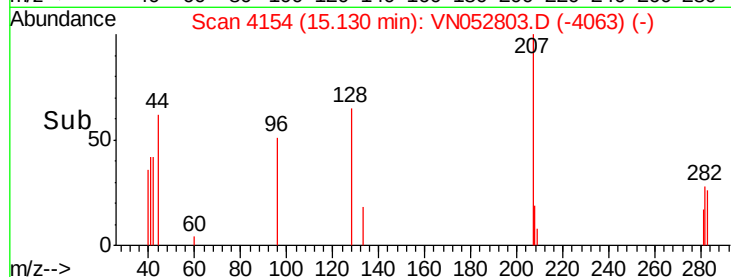
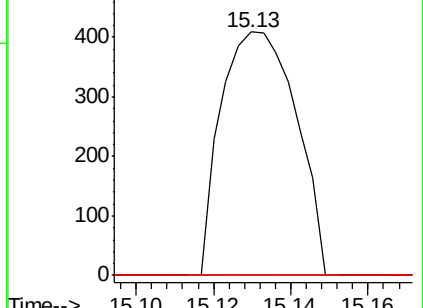
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.736 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052803.D

Acq: 11 Dec 2018 15:42

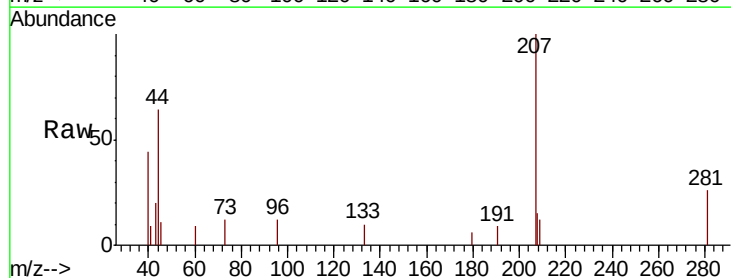
Tgt Ion:180 Resp: 91

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

145 0.0 15.2 45.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

