

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051855.D
 Acq On : 13 Oct 2018 1:16
 Operator : MD\SY
 Sample : J5450-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ218-210-282

Quant Time: Oct 13 02:10:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	824134	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1186467	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1037902	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	371966	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	450374	57.18	ug/l	0.00
Spiked Amount			Recovery	=	114.36%	
35) Dibromofluoromethane	7.59	113	437852	59.35	ug/l	0.00
Spiked Amount			Recovery	=	118.70%	
50) Toluene-d8	10.09	98	1639012	59.62	ug/l	0.00
Spiked Amount			Recovery	=	119.24%	
62) 4-Bromofluorobenzene	12.40	95	467246	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	

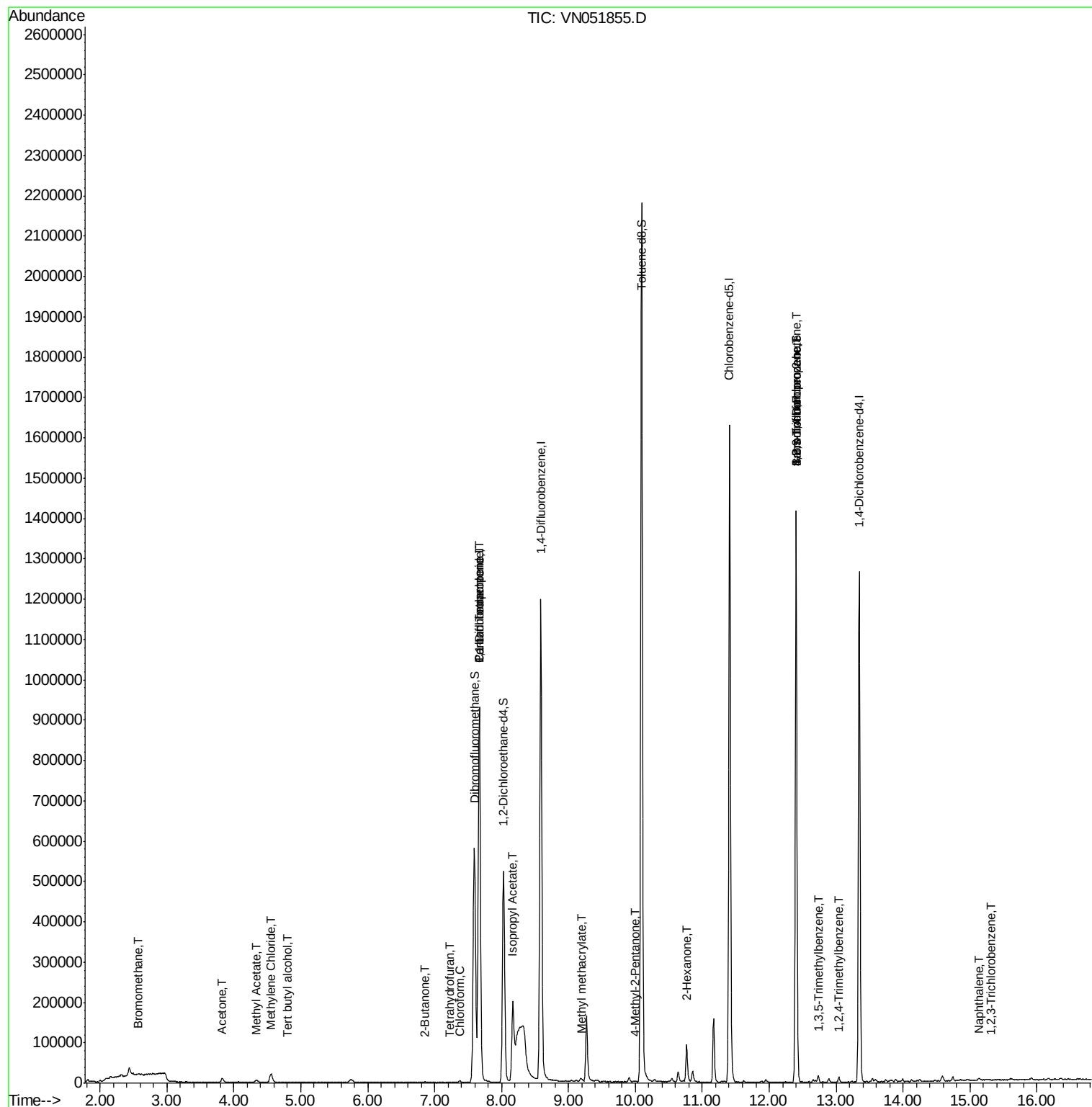
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2020	0.269	ug/l #	39
11) Tert butyl alcohol	4.80	59	313	0.540	ug/l	99
16) Acetone	3.82	43	16943	9.973	ug/l	99
18) Methyl Acetate	4.33	43	12089	1.662	ug/l	99
20) Methylene Chloride	4.55	84	16747	2.382	ug/l #	86
25) 2-Butanone	6.84	43	1079	0.449	ug/l #	72
29) Tetrahydrofuran	7.22	42	1060	0.741	ug/l #	56
30) Chloroform	7.38	83	4065	0.302	ug/l #	82
31) Cyclohexane	7.66	56	14190	Below Cal	#	18
36) 1,1-Dichloropropene	7.67	75	50480	5.255	ug/l #	51
38) Carbon Tetrachloride	7.67	117	74495	6.691	ug/l #	16
43) Isopropyl Acetate	8.17	43	246909	24.813	ug/l	95
48) Methyl methacrylate	9.18	41	4511	1.027	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2147	0.419	ug/l #	70
59) 2-Hexanone	10.76	43	12297	3.420	ug/l #	53
71) Bromoform	12.40	173	3159	4.045	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	238269	51.936	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7886	0.338	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	238269	147.509	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	8965	0.386	ug/l	96
95) Naphthalene	15.13	128	5104	4.736	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.30	180	74	2.868	ug/l #	1

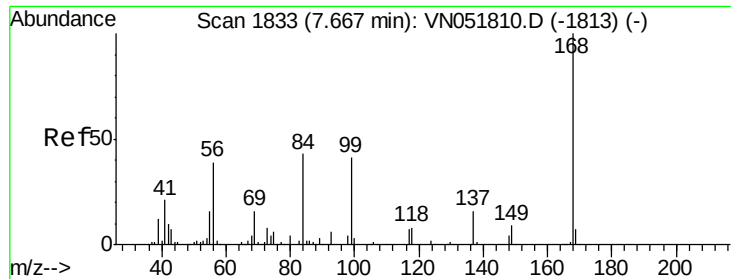
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 09:51:20 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: VN051855.D

Acq: 13 Oct 2018 1:16

Instrument :

MSVOA_N

ClientSampleId :

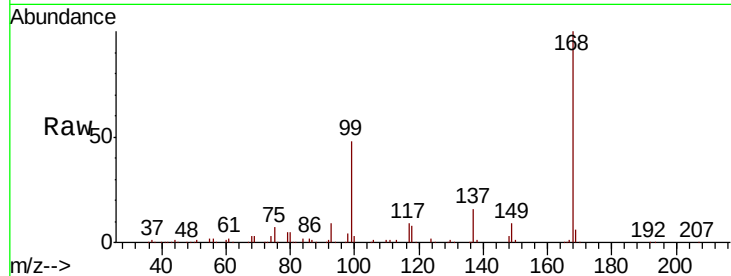
VNJ218-210-282

Tot Ion:168 Resp: 824134

Ion Ratio Lower Upper

168 100

99 48.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

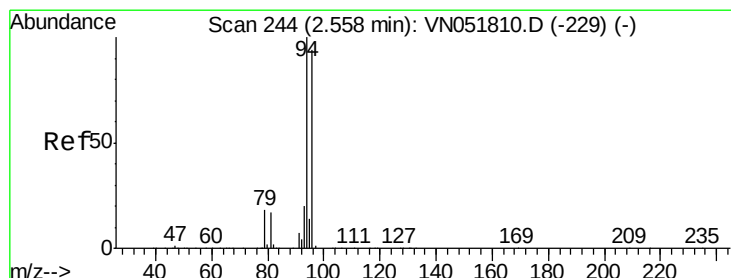
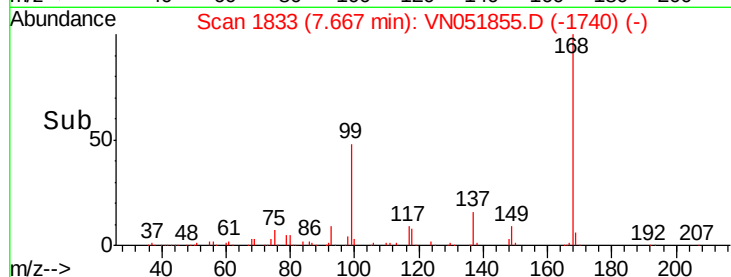
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.269 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.02 min

Lab File: VN051855.D

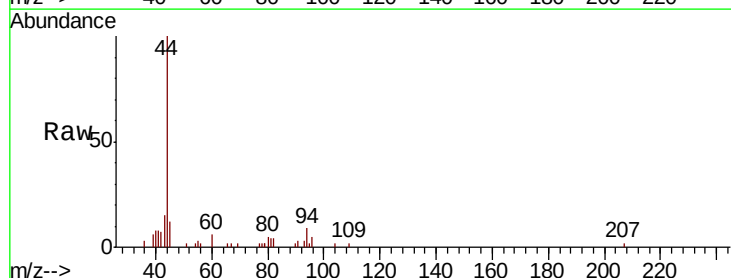
Acq: 13 Oct 2018 1:16

Tgt Ion: 94 Resp: 2020

Ion Ratio Lower Upper

94 100

96 35.6 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

1000

800

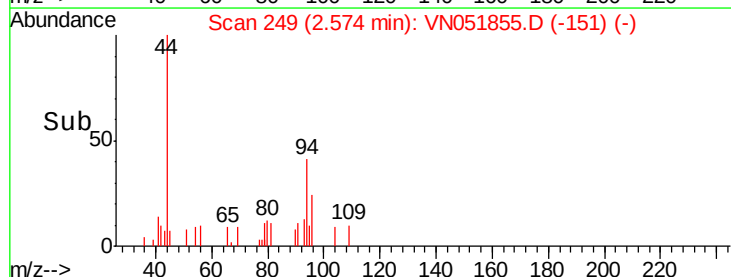
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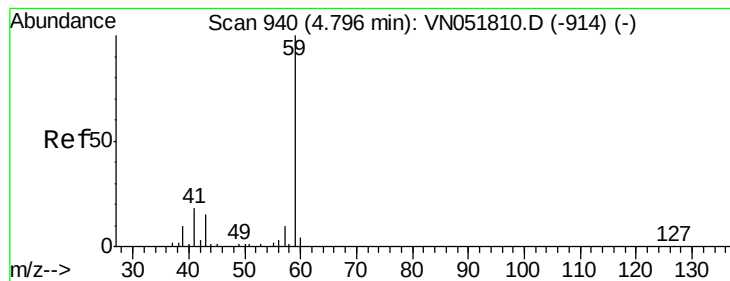
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 0.540 ug/l

RT: 4.80 min Scan# 941

Delta R.T. 0.00 min

Lab File: VN051855.D

Acq: 13 Oct 2018 1:16

Instrument :

MSVOA_N

ClientSampleId :

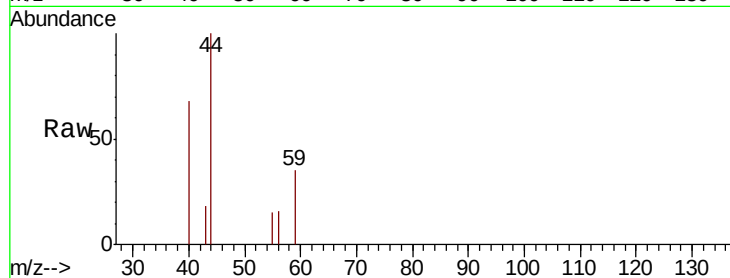
VNJ218-210-282

Tot Ion: 59 Resp: 313

Ion Ratio Lower Upper

59 100

57 9.9 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.80

300

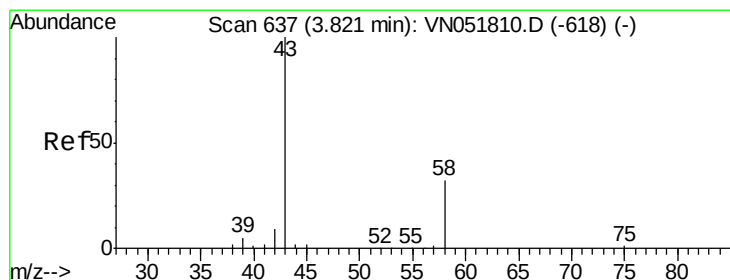
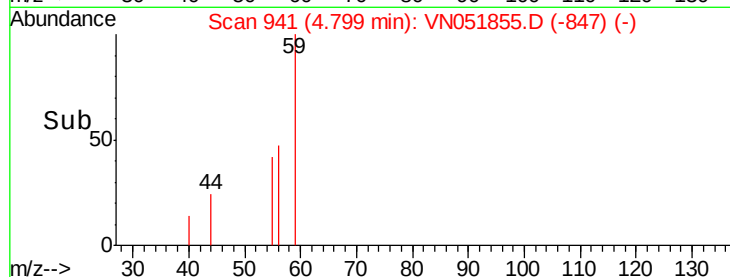
200

100

0

4.78 4.79 4.80 4.81 4.82

Time-->



#16

Acetone

Concen: 9.973 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051855.D

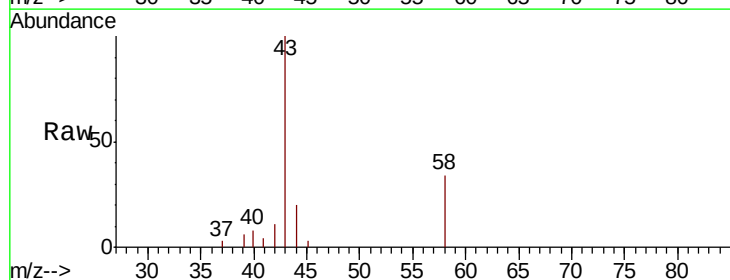
Acq: 13 Oct 2018 1:16

Tgt Ion: 43 Resp: 16943

Ion Ratio Lower Upper

43 100

58 34.3 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

6000

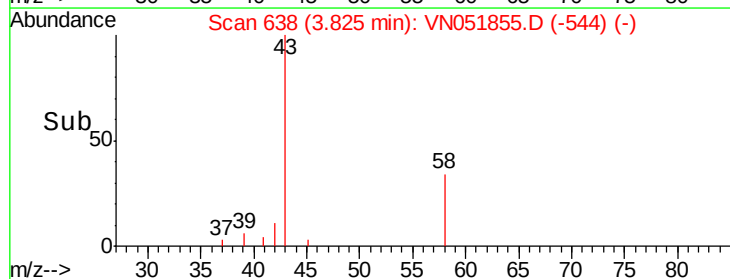
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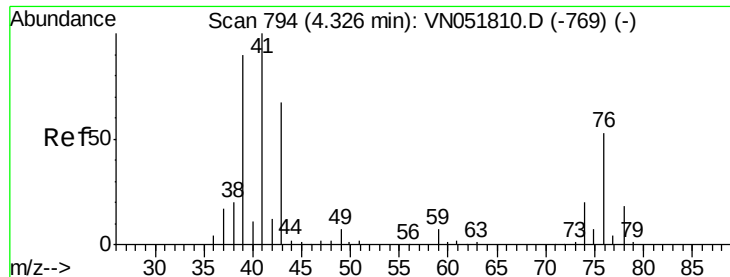
2000

0

3.70 3.80 3.90

Time-->

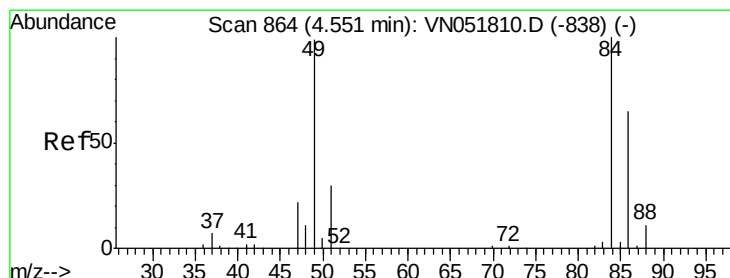
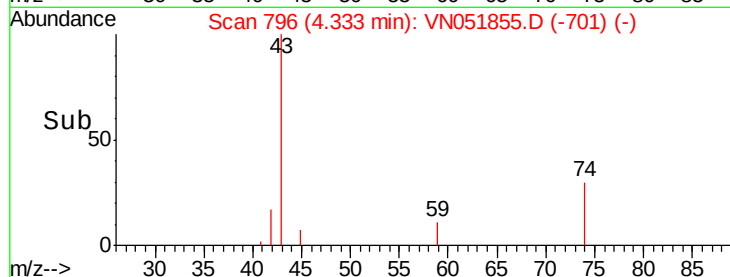
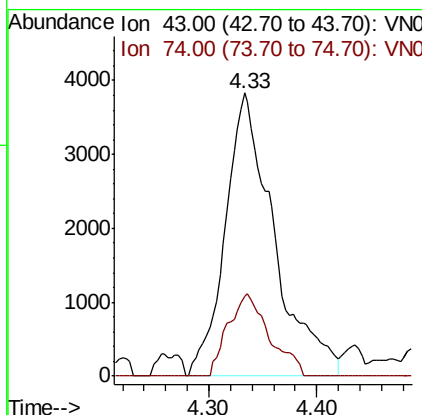
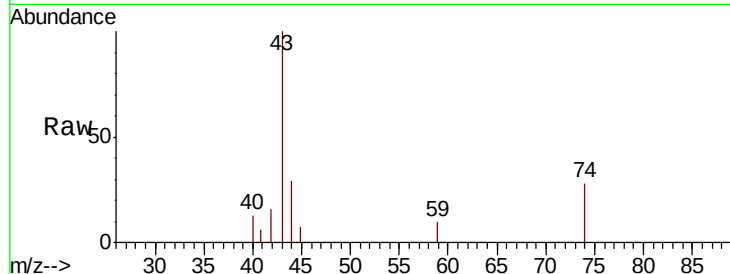




#18
Methyl Acetate
Concen: 1.662 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

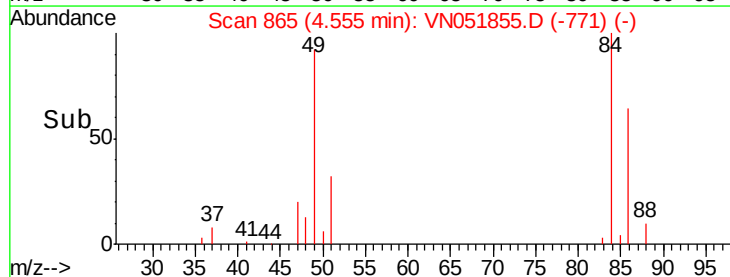
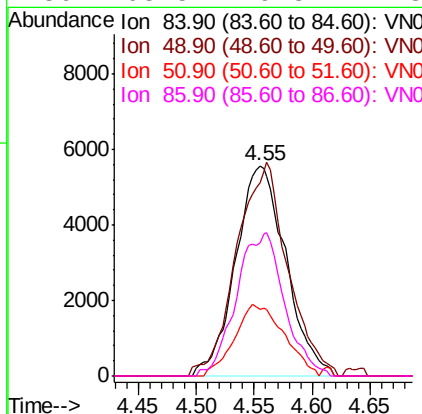
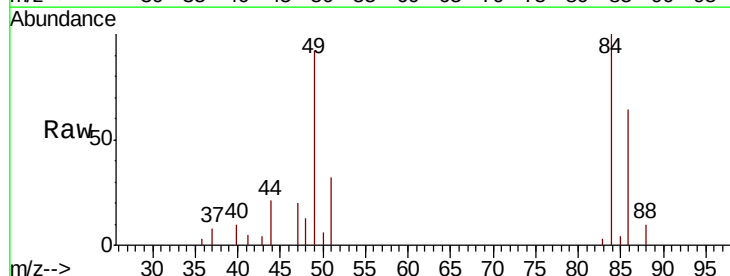
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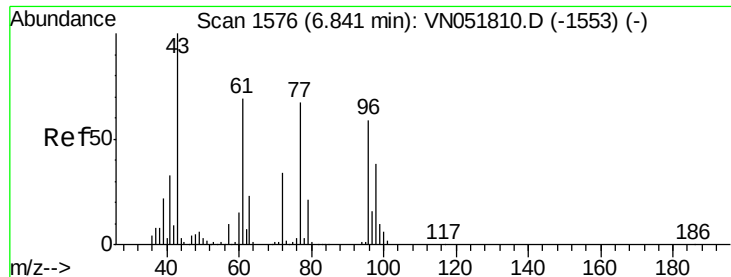
Tot Ion: 43 Resp: 12089
Ion Ratio Lower Upper
43 100
74 24.5 19.8 29.8



#20
Methylene Chloride
Concen: 2.382 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

Tgt Ion: 84 Resp: 16747
Ion Ratio Lower Upper
84 100
49 92.1 93.2 139.8#
51 31.6 29.0 43.6
86 63.5 49.8 74.8

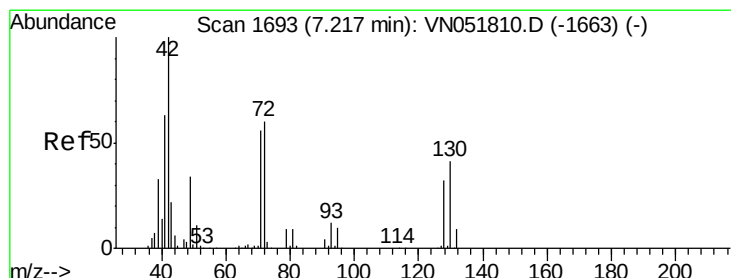
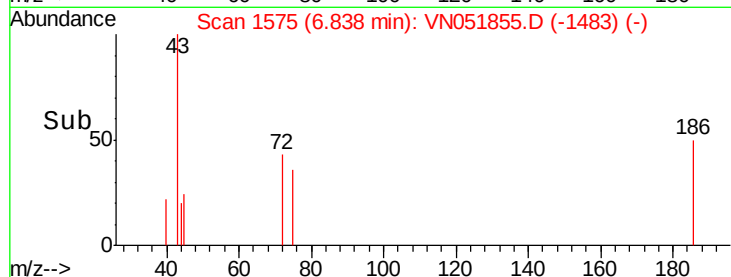
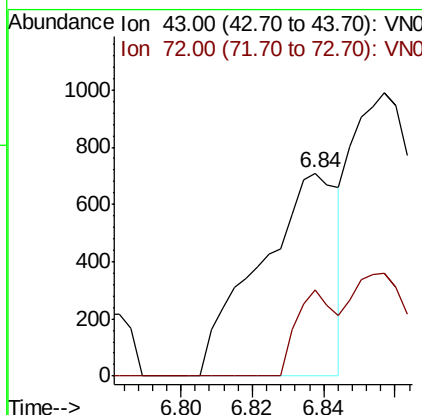
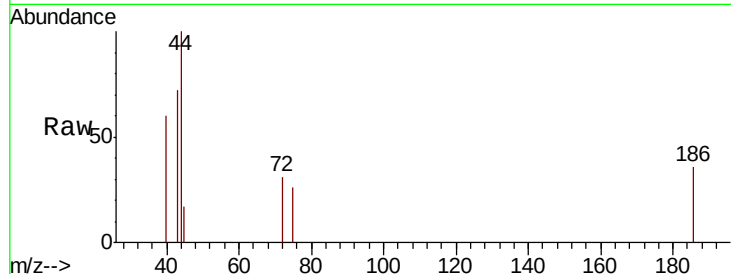




#25
 2-Butanone
 Concen: 0.449 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VN051855.D
 Acq: 13 Oct 2018 1:16

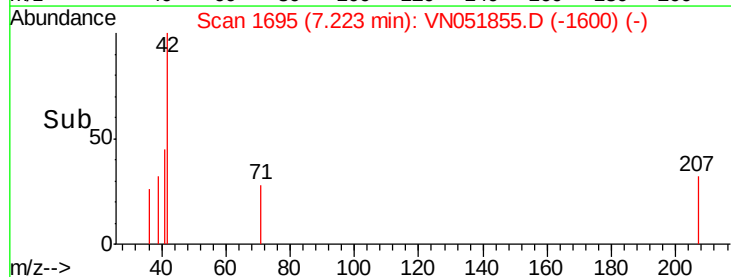
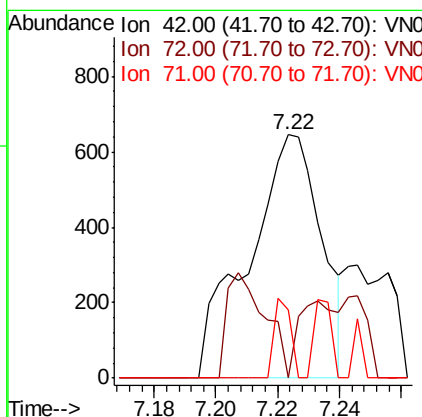
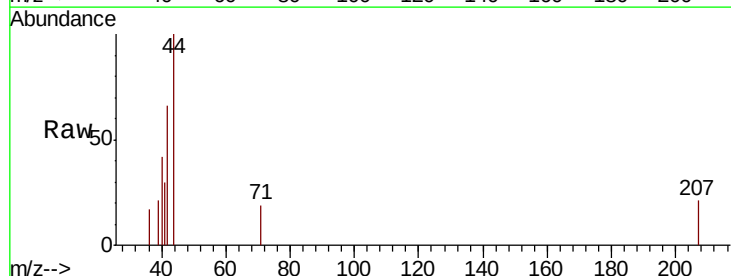
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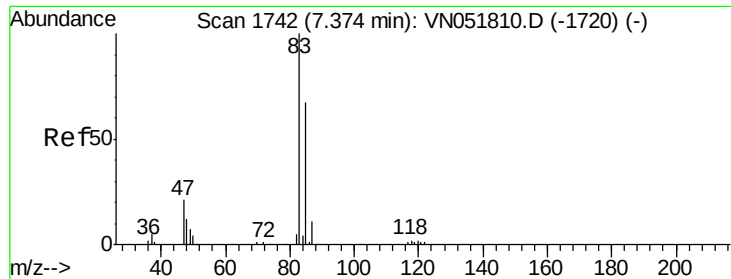
Tot Ion: 43 Resp: 1079
 Ion Ratio Lower Upper
 43 100
 72 42.6 22.3 33.5#



#29
 Tetrahydrofuran
 Concen: 0.741 ug/l
 RT: 7.22 min Scan# 1695
 Delta R.T. 0.01 min
 Lab File: VN051855.D
 Acq: 13 Oct 2018 1:16

Tgt Ion: 42 Resp: 1060
 Ion Ratio Lower Upper
 42 100
 72 22.5 35.5 53.3#
 71 7.2 33.7 50.5#

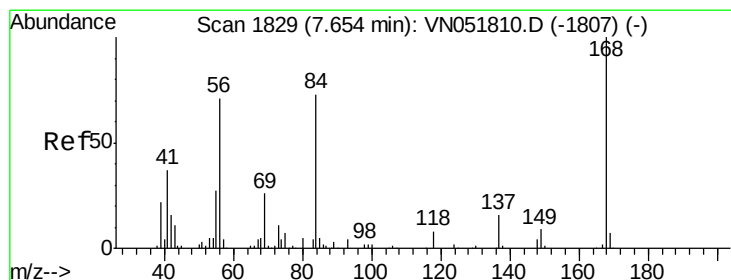
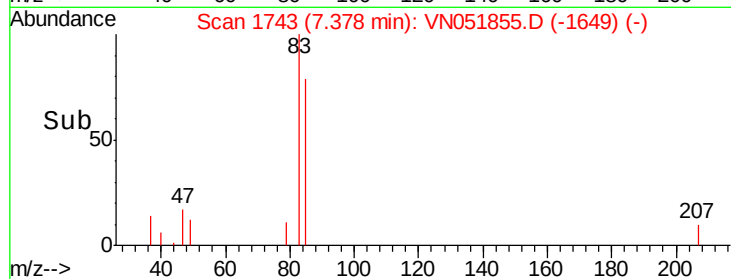
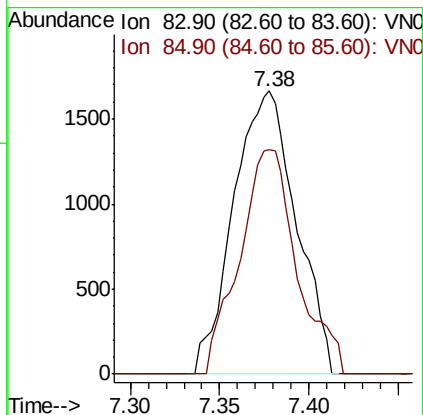
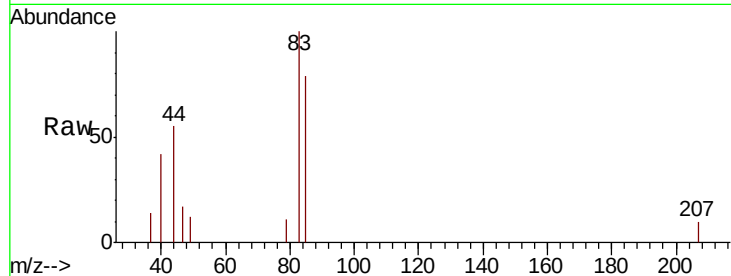




#30
Chloroform
Concen: 0.302 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

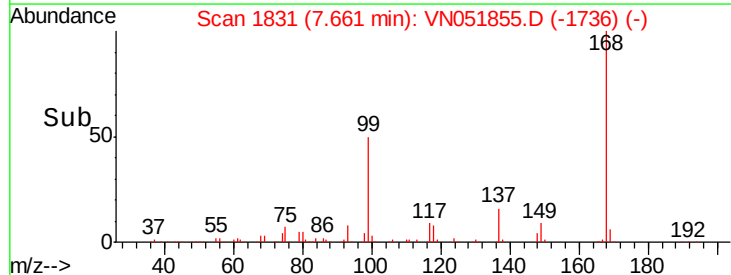
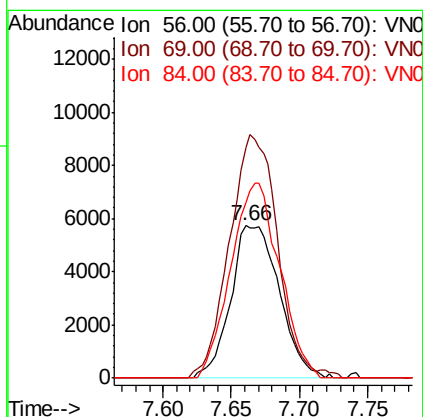
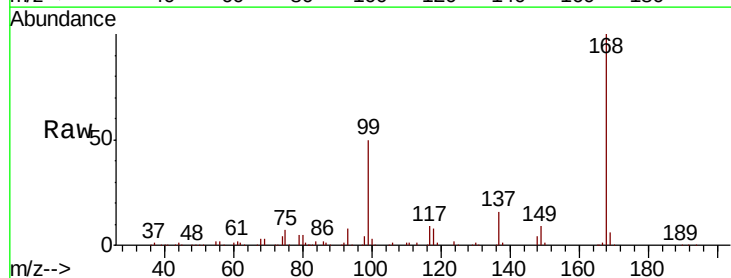
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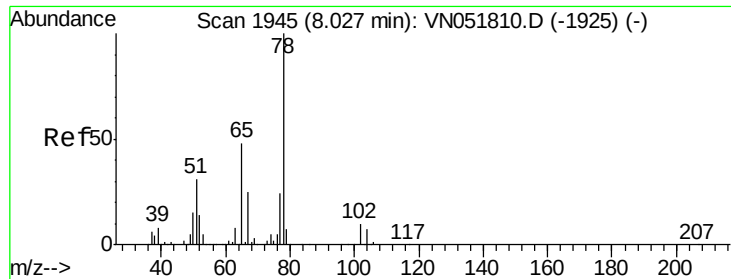
Tot Ion: 83 Resp: 4065
Ion Ratio Lower Upper
83 100
85 79.2 52.2 78.4#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

Tgt Ion: 56 Resp: 14190
Ion Ratio Lower Upper
56 100
69 151.8 26.2 39.4#
84 115.5 68.3 102.5#

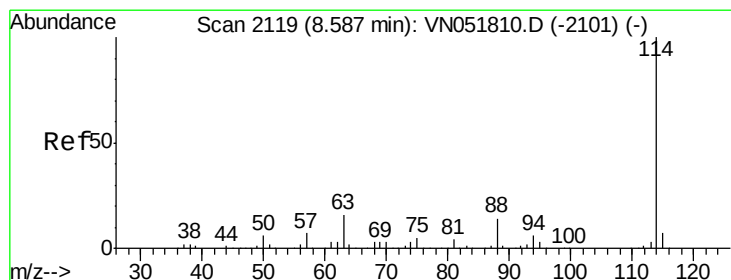
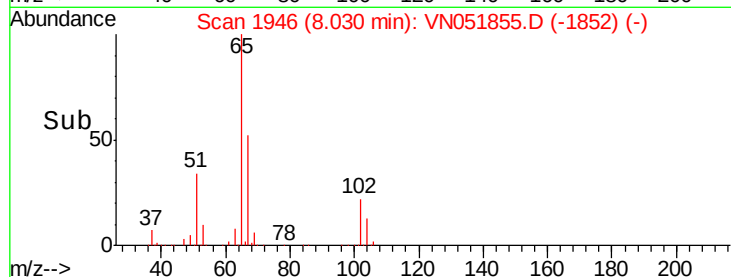
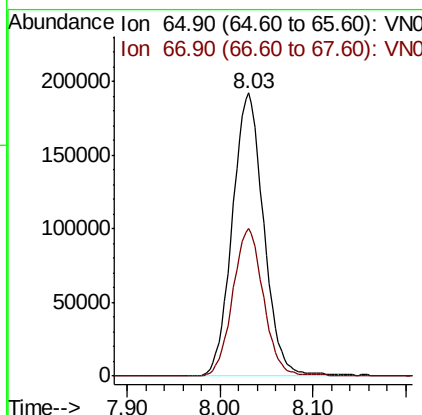
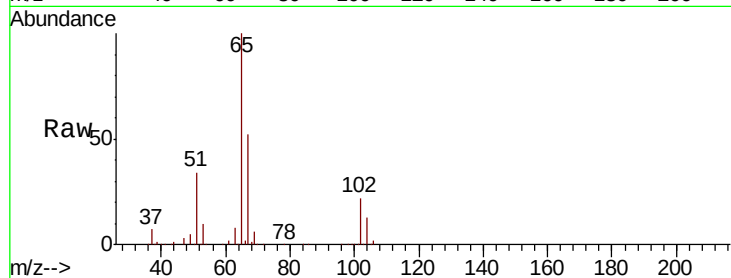




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051855.D
 Acq: 13 Oct 2018 1:16

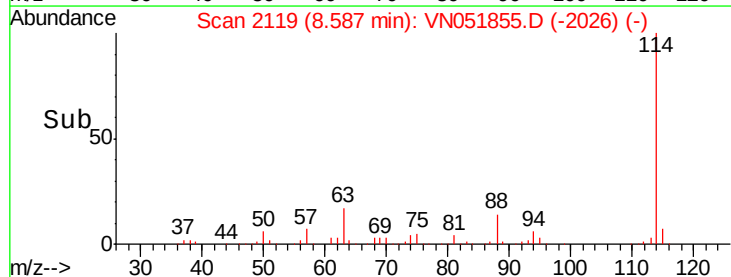
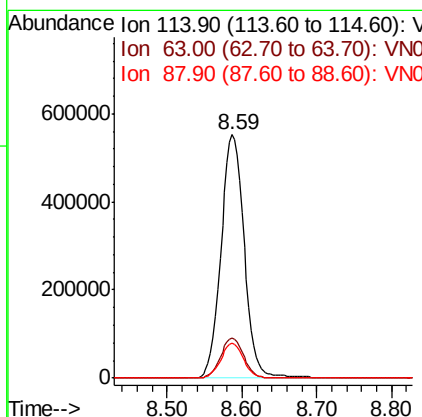
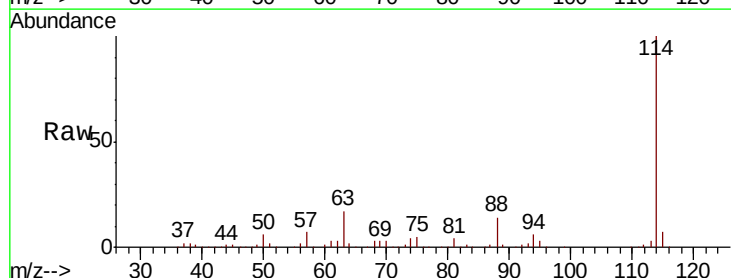
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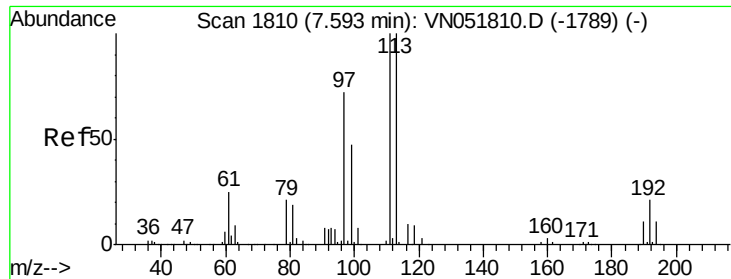
Tot Ion: 65 Resp: 450374
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051855.D
 Acq: 13 Oct 2018 1:16

Tgt Ion: 114 Resp: 1186467
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 38.6
 88 14.3 0.0 30.6

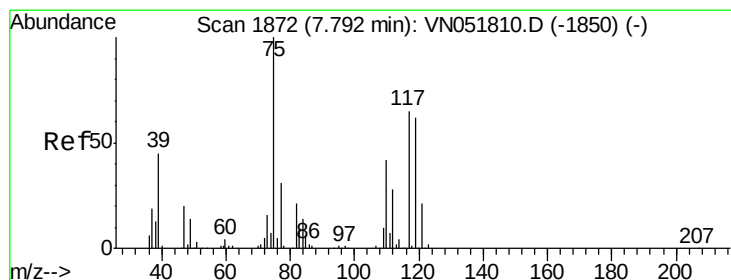
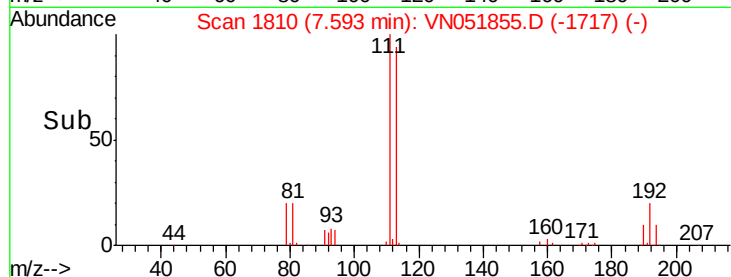
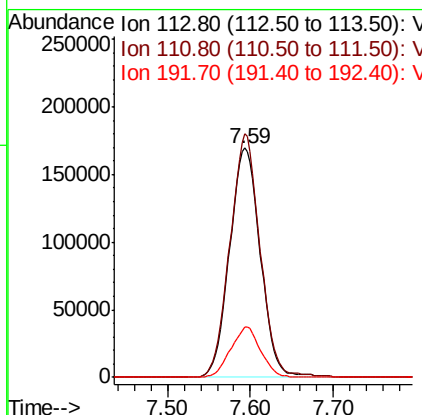
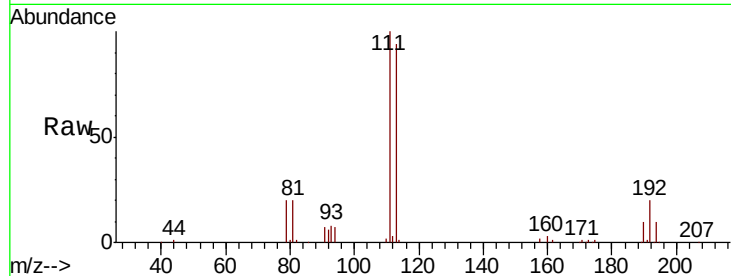




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051855.D
 Acq: 13 Oct 2018 1:16

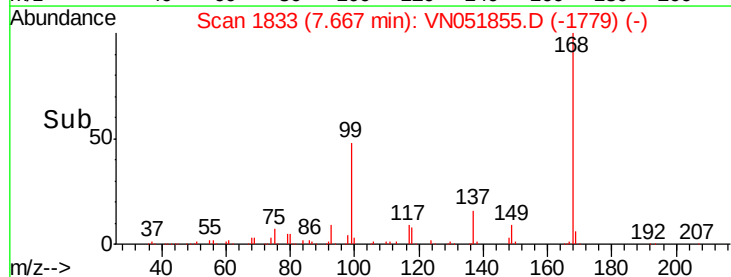
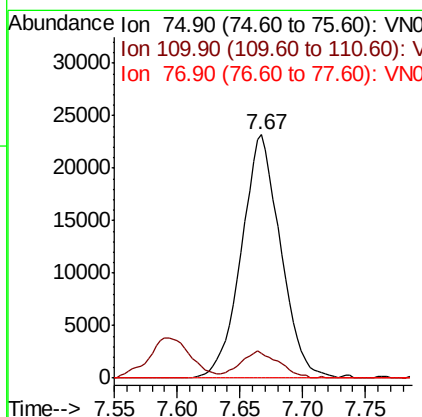
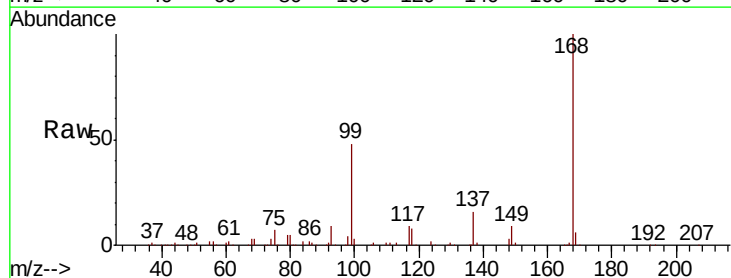
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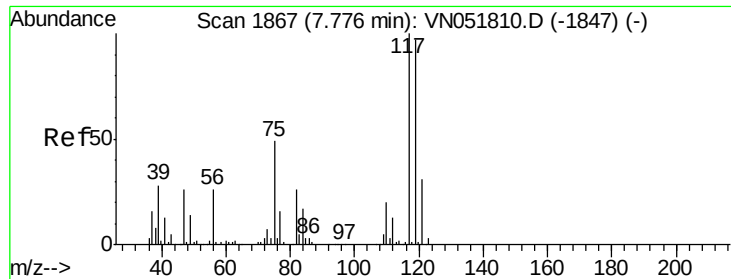
Tot Ion:113 Resp: 437852
 Ion Ratio Lower Upper
 113 100
 111 104.0 82.6 123.8
 192 21.4 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 5.255 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051855.D
 Acq: 13 Oct 2018 1:16

Tgt Ion: 75 Resp: 50480
 Ion Ratio Lower Upper
 75 100
 110 10.8 18.1 54.4#
 77 0.0 24.8 37.2#

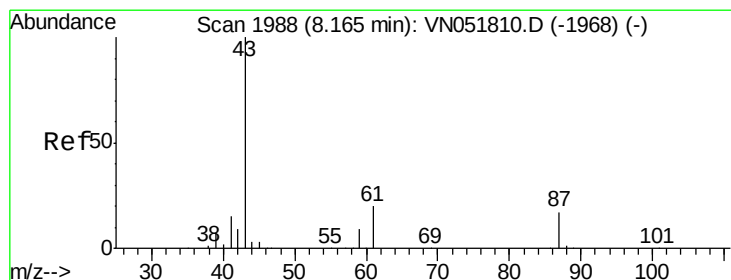
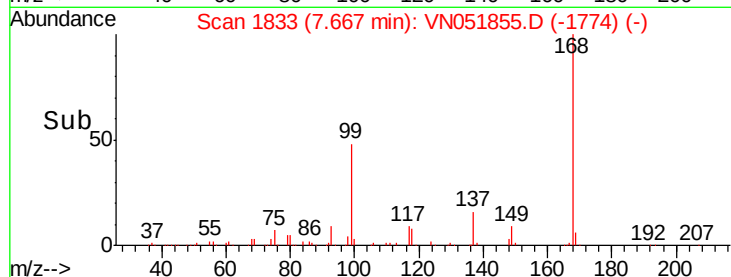
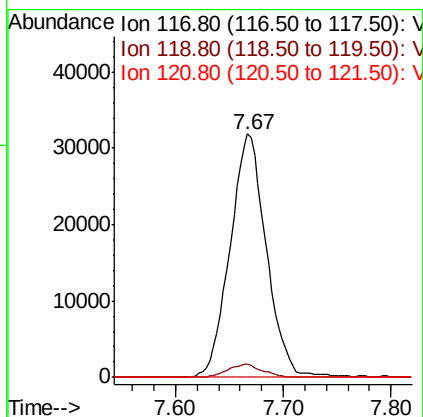
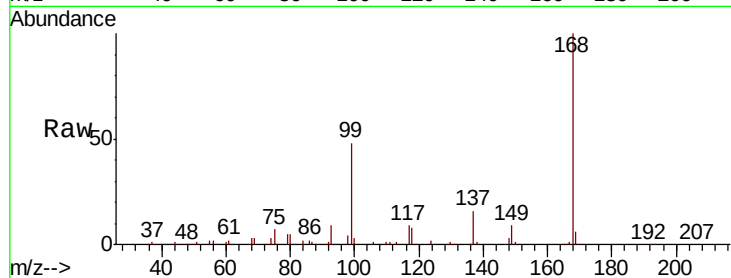




#38
Carbon Tetrachloride
Concen: 6.691 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

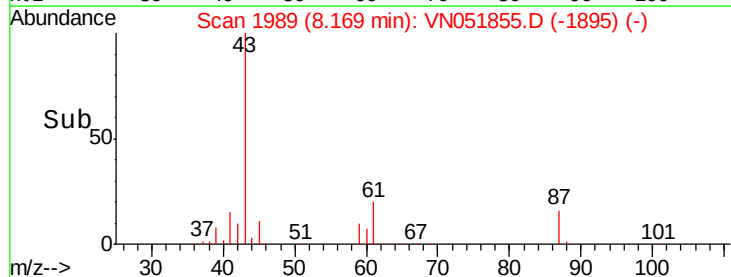
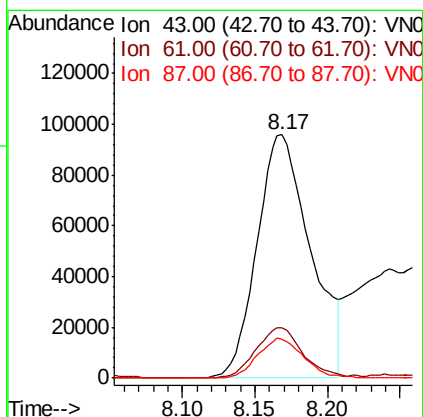
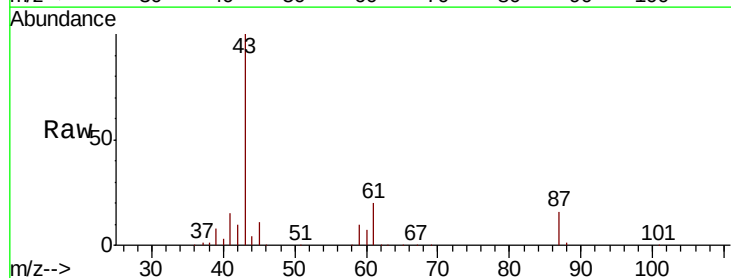
Instrument :
MSVOA_N
ClientSampleId :
VNJ218-210-282

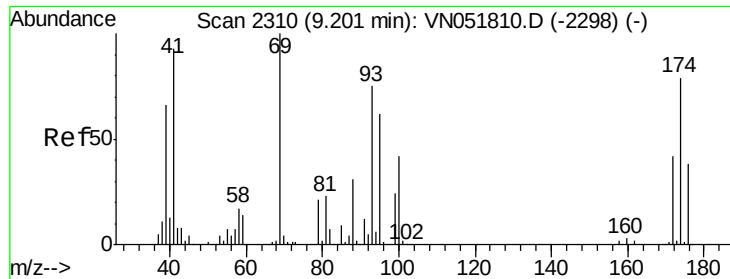
Tot Ion:117 Resp: 74495
Ion Ratio Lower Upper
117 100
119 5.2 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 24.813 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

Tgt Ion: 43 Resp: 246909
Ion Ratio Lower Upper
43 100
61 18.2 17.5 26.3
87 14.1 11.3 16.9

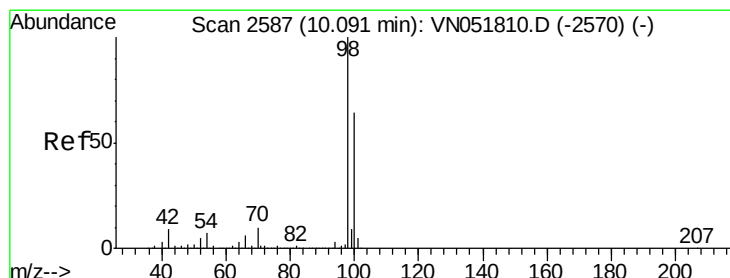
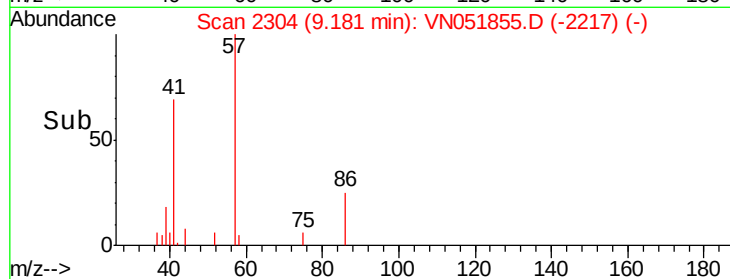
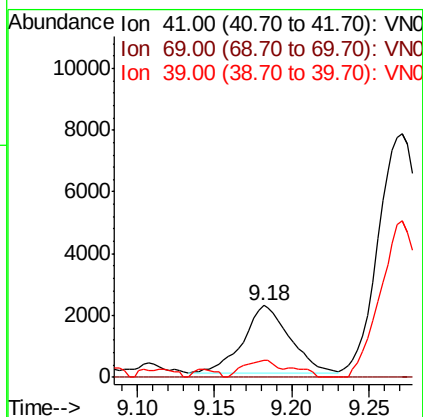
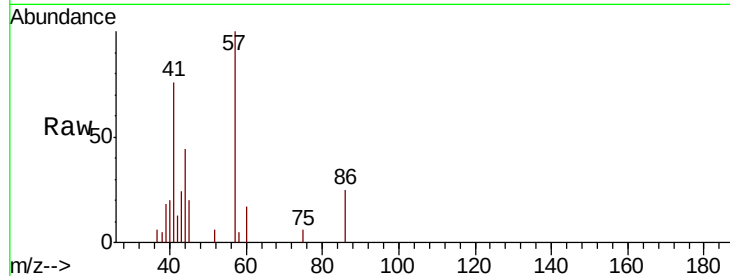




#48
Methvl methacrylate
Concen: 1.027 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

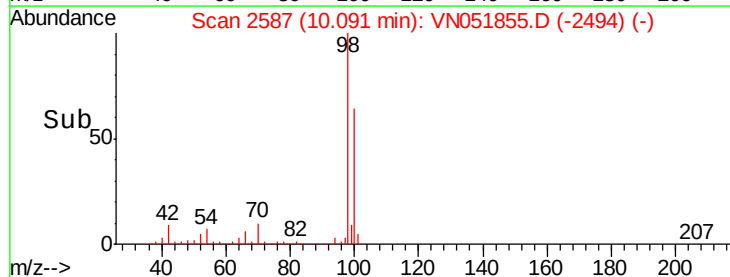
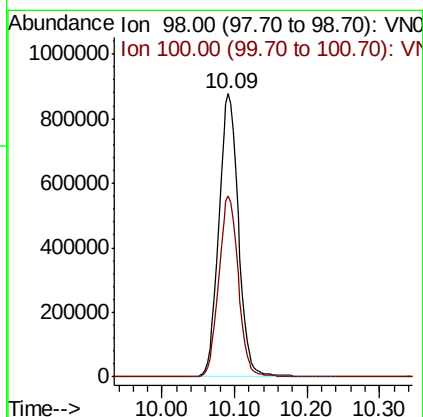
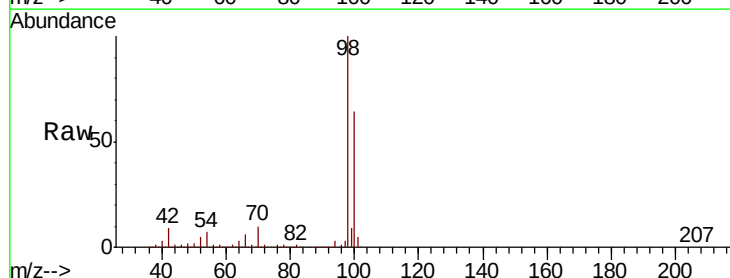
Instrument :
MSVOA_N
ClientSampleId :
VNJ218-210-282

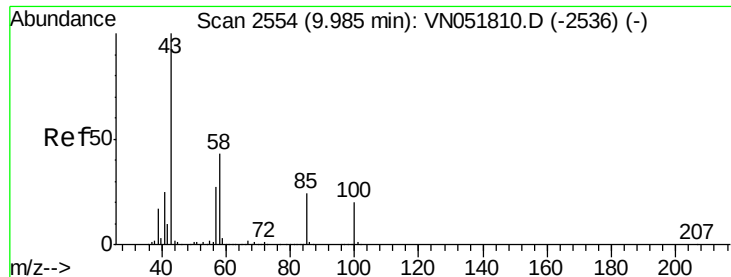
Tot Ion: 41 Resp: 4511
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 18.8 42.2 63.2#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

Tgt Ion: 98 Resp: 1639012
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 0.419 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051855.D

Acq: 13 Oct 2018 1:16

Instrument :

MSVOA_N

ClientSampleId :

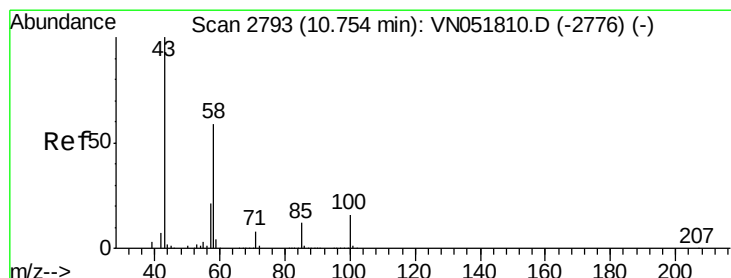
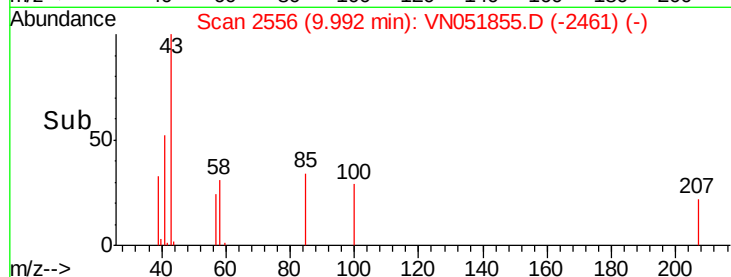
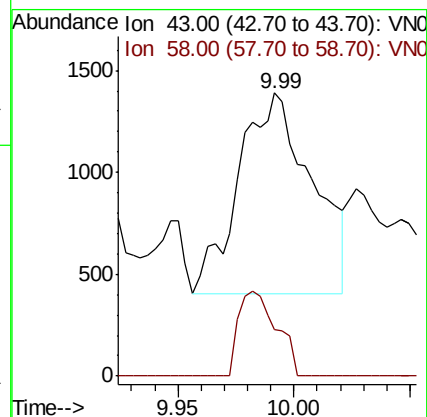
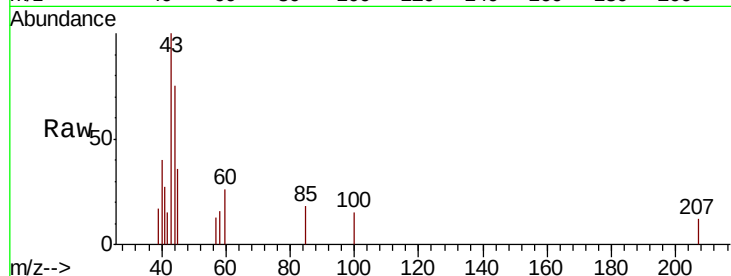
VNJ218-210-282

Tot Ion: 43 Resp: 2147

Ion Ratio Lower Upper

43 100

58 21.8 32.4 48.6#



#59

2-Hexanone

Concen: 3.420 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051855.D

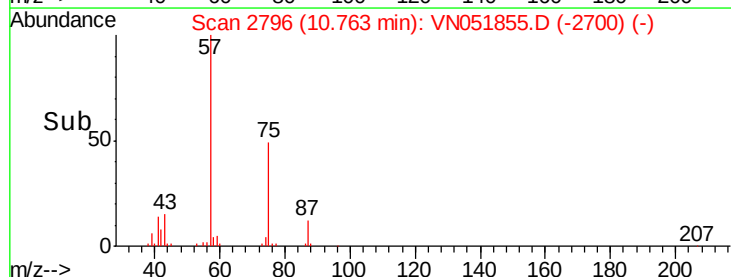
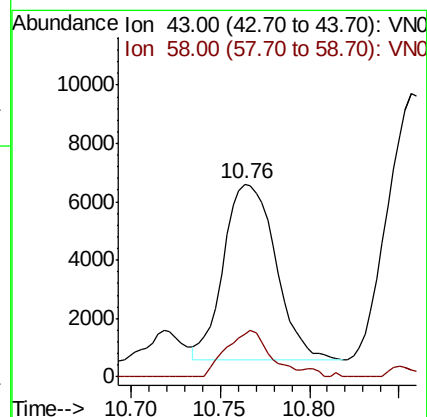
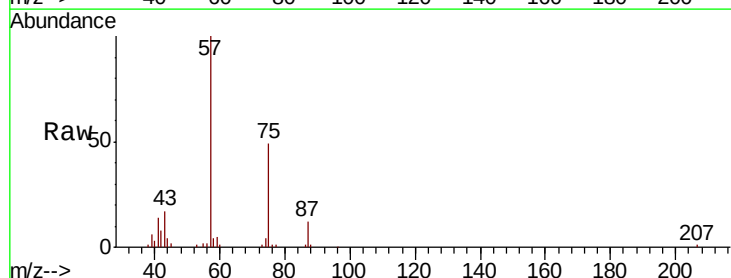
Acq: 13 Oct 2018 1:16

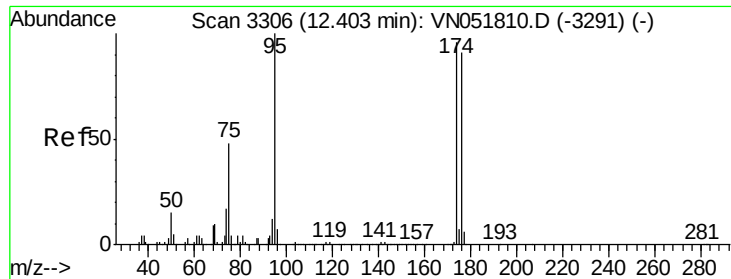
Tgt Ion: 43 Resp: 12297

Ion Ratio Lower Upper

43 100

58 22.2 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051855.D

Acq: 13 Oct 2018 1:16

Instrument :

MSVOA_N

ClientSampleId :

VNJ218-210-282

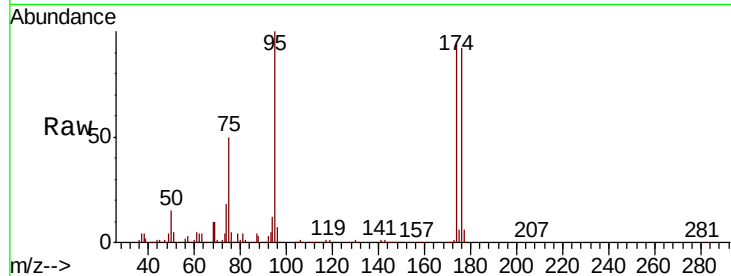
Tot Ion: 95 Resp: 467246

Ion Ratio Lower Upper

95 100

174 95.1 0.0 183.0

176 91.6 0.0 178.8

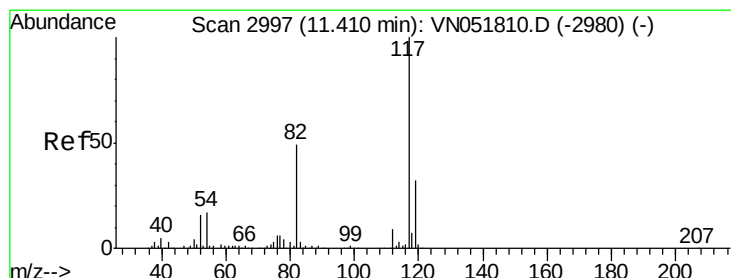
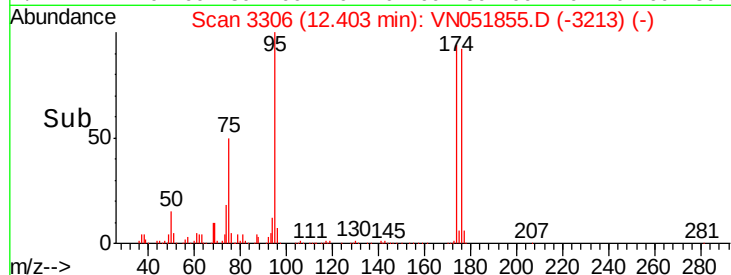


Abundance Ion 94.90 (94.60 to 95.60): VN051810.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051810.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051810.D (-3291) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051855.D

Acq: 13 Oct 2018 1:16

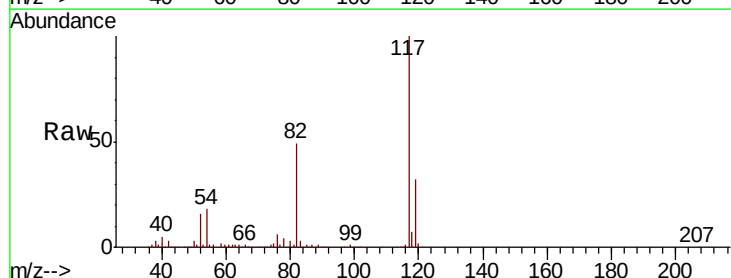
Tgt Ion: 117 Resp: 1037902

Ion Ratio Lower Upper

117 100

82 49.1 42.6 64.0

119 32.0 25.8 38.6

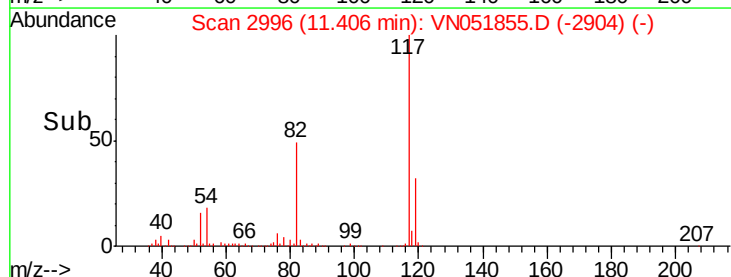


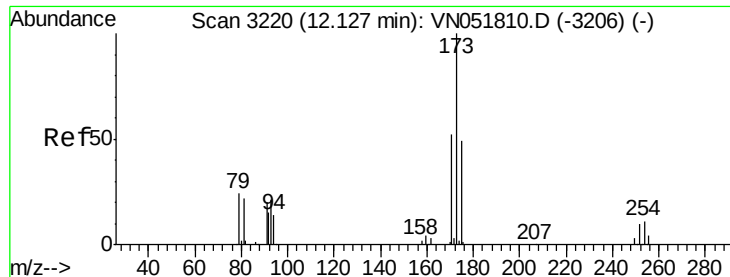
Abundance Ion 116.90 (116.60 to 117.60): VN051810.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051810.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051810.D (-2980) (-)

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 4.045 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051855.D

Acq: 13 Oct 2018 1:16

Instrument :

MSVOA_N

ClientSampleId :

VNJ218-210-282

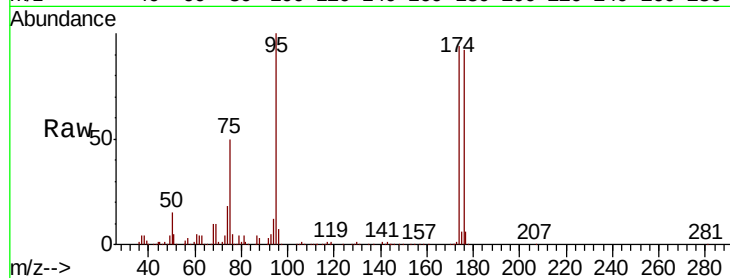
Tot Ion:173 Resp: 3159

Ion Ratio Lower Upper

173 100

175 847.4 24.4 73.4#

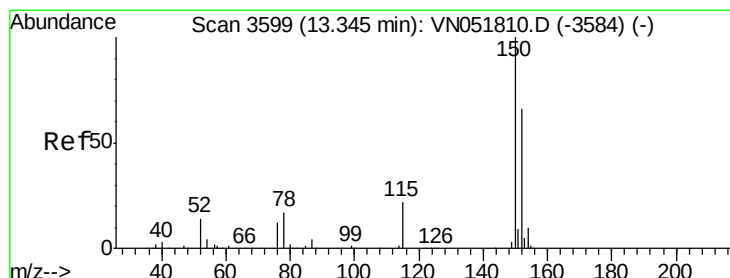
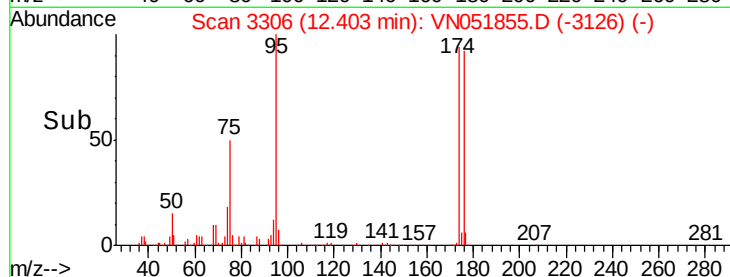
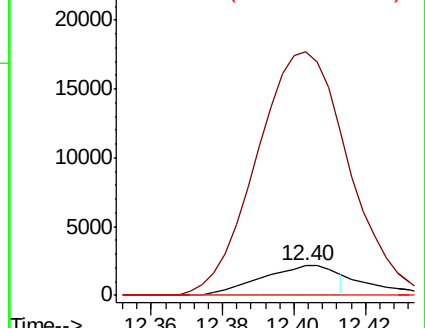
254 0.0 0.1 0.1#



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: VN051855.D

Acq: 13 Oct 2018 1:16

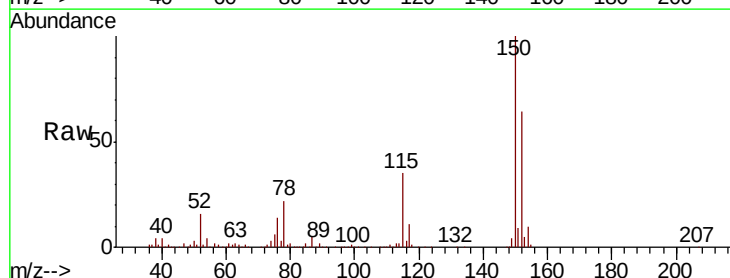
Tgt Ion:152 Resp: 371966

Ion Ratio Lower Upper

152 100

115 54.9 27.8 83.4

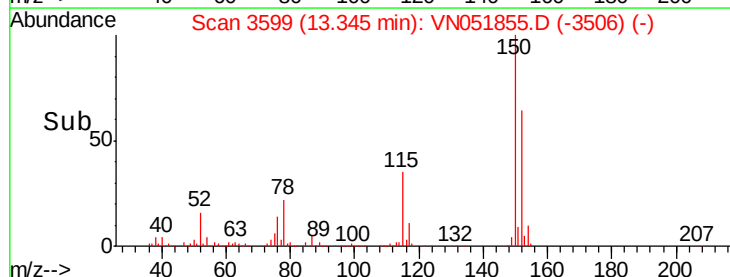
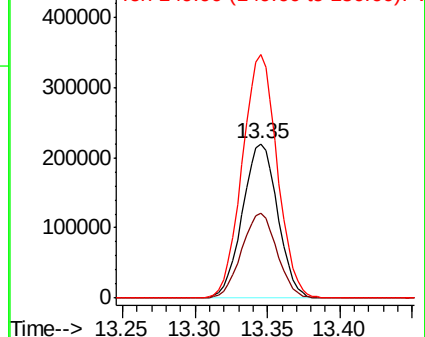
150 156.7 0.0 351.4

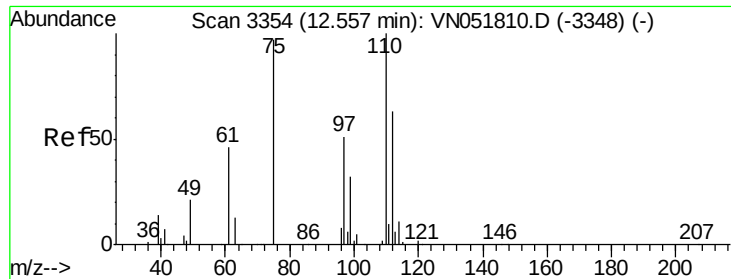


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 51.936 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.16 min

Lab File: VN051855.D

Acq: 13 Oct 2018 1:16

Instrument :

MSVOA_N

ClientSampleId :

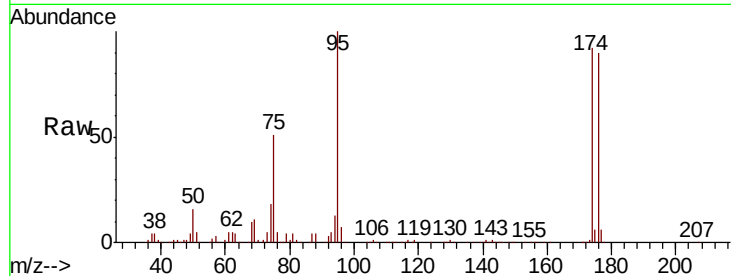
VNJ218-210-282

Tot Ion: 75 Resp: 238269

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

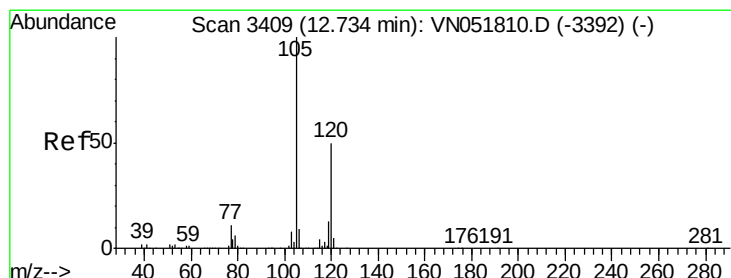
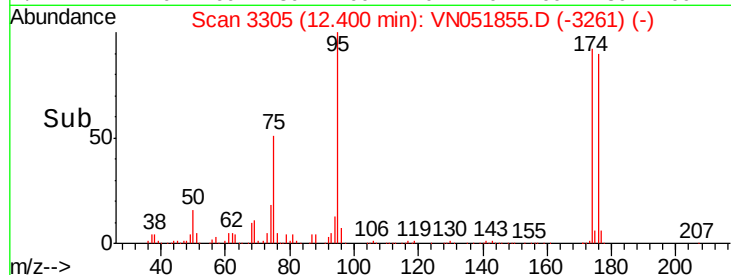
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.338 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051855.D

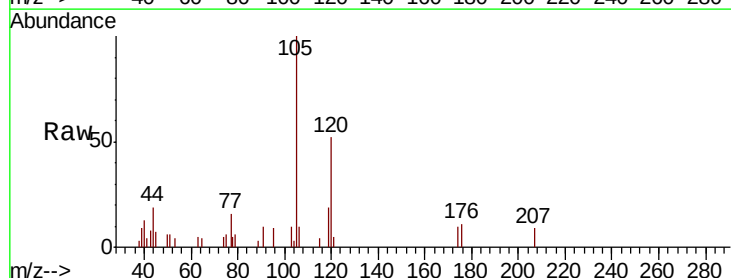
Acq: 13 Oct 2018 1:16

Tgt Ion:105 Resp: 7886

Ion Ratio Lower Upper

105 100

120 48.5 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

5000

4000

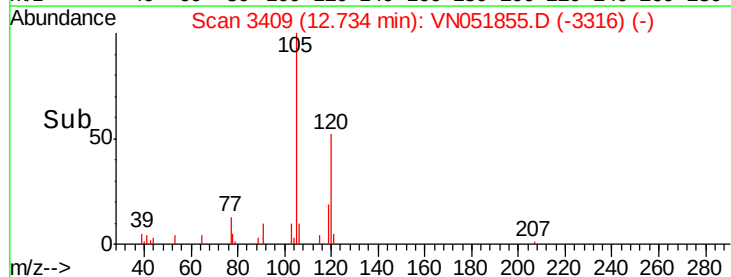
3000

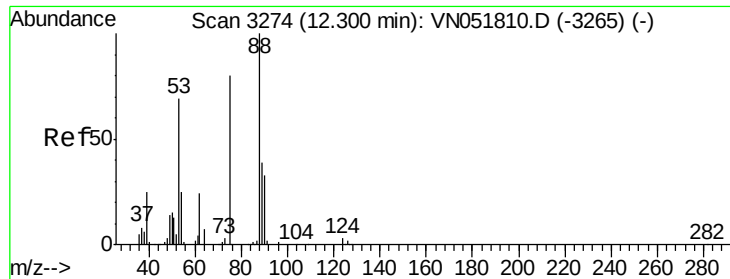
2000

1000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 147.509 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051855.D

Acq: 13 Oct 2018 1:16

Instrument :

MSVOA_N

ClientSampleId :

VNJ218-210-282

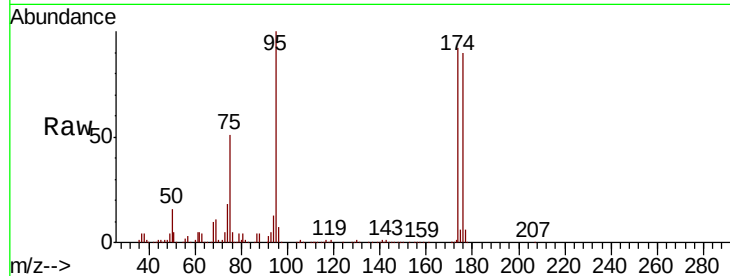
Tot Ion: 75 Resp: 238269

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

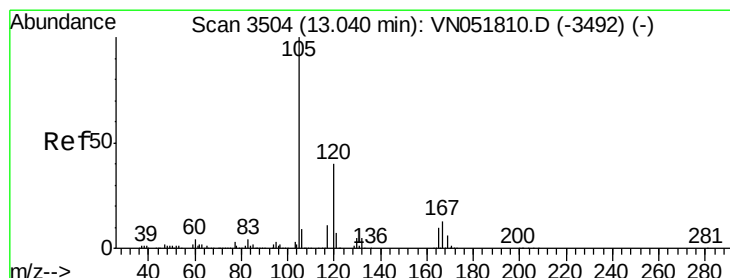
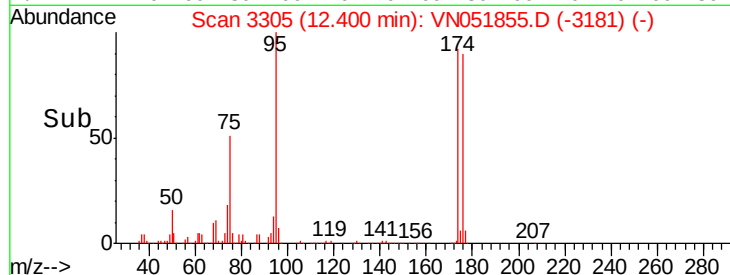
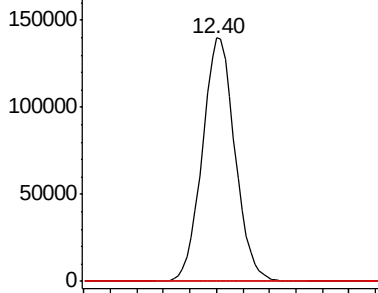
89 0.0 36.1 54.1#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.386 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN051855.D

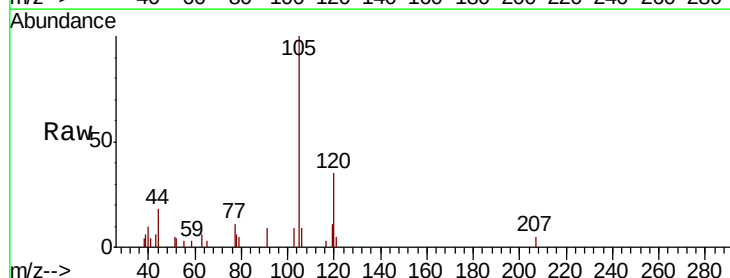
Acq: 13 Oct 2018 1:16

Tgt Ion: 105 Resp: 8965

Ion Ratio Lower Upper

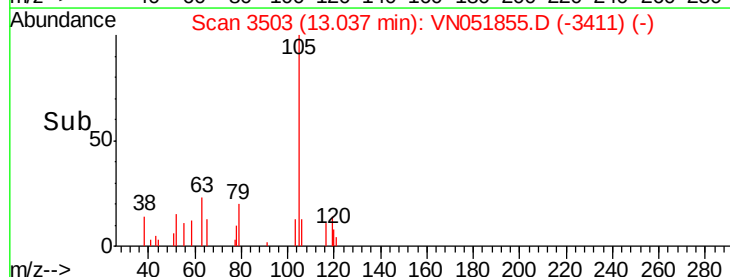
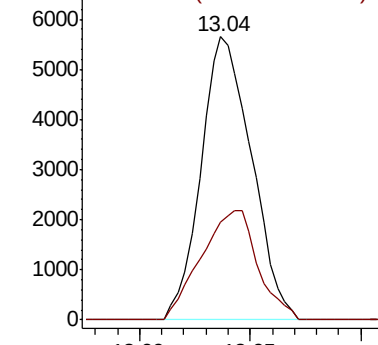
105 100

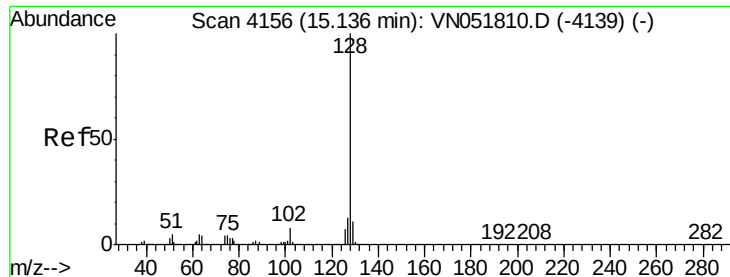
120 43.3 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

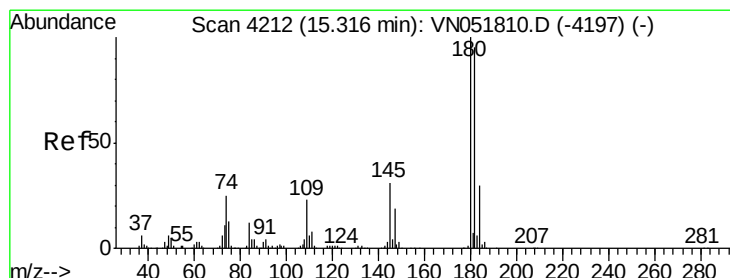
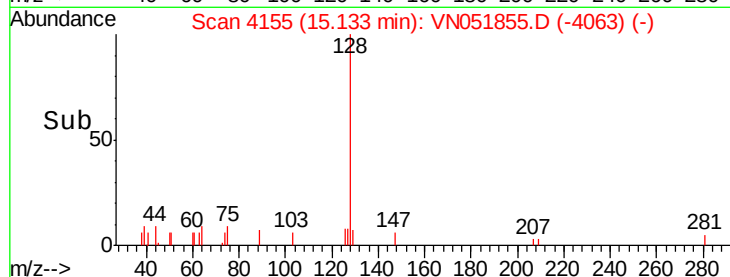
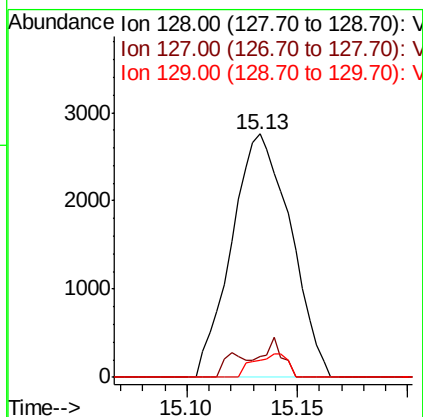
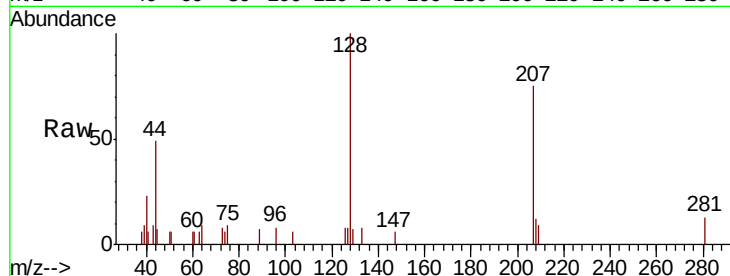




#95
Naphthalene
Concen: 4.736 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

Instrument :
MSVOA_N
ClientSampleId :
VNJ218-210-282

Tot Ion:128 Resp: 5104
Ion Ratio Lower Upper
128 100
127 5.1 10.5 15.7#
129 5.5 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.868 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. -0.01 min
Lab File: VN051855.D
Acq: 13 Oct 2018 1:16

Tgt Ion:180 Resp: 74
Ion Ratio Lower Upper
180 100
182 0.0 48.0 144.2#
145 86.5 15.2 45.6#

