

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051773.D
 Acq On : 10 Oct 2018 1:33
 Operator : MD\SY
 Sample : J5201-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-100818-C

Quant Time: Oct 10 03:38:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	711050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1023871	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	928067	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	365165	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	419555	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	
35) Dibromofluoromethane	7.59	113	385189	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
50) Toluene-d8	10.09	98	1488066	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
62) 4-Bromofluorobenzene	12.40	95	427333	40.88	ug/l	0.00
Spiked Amount			Recovery	=	81.76%	

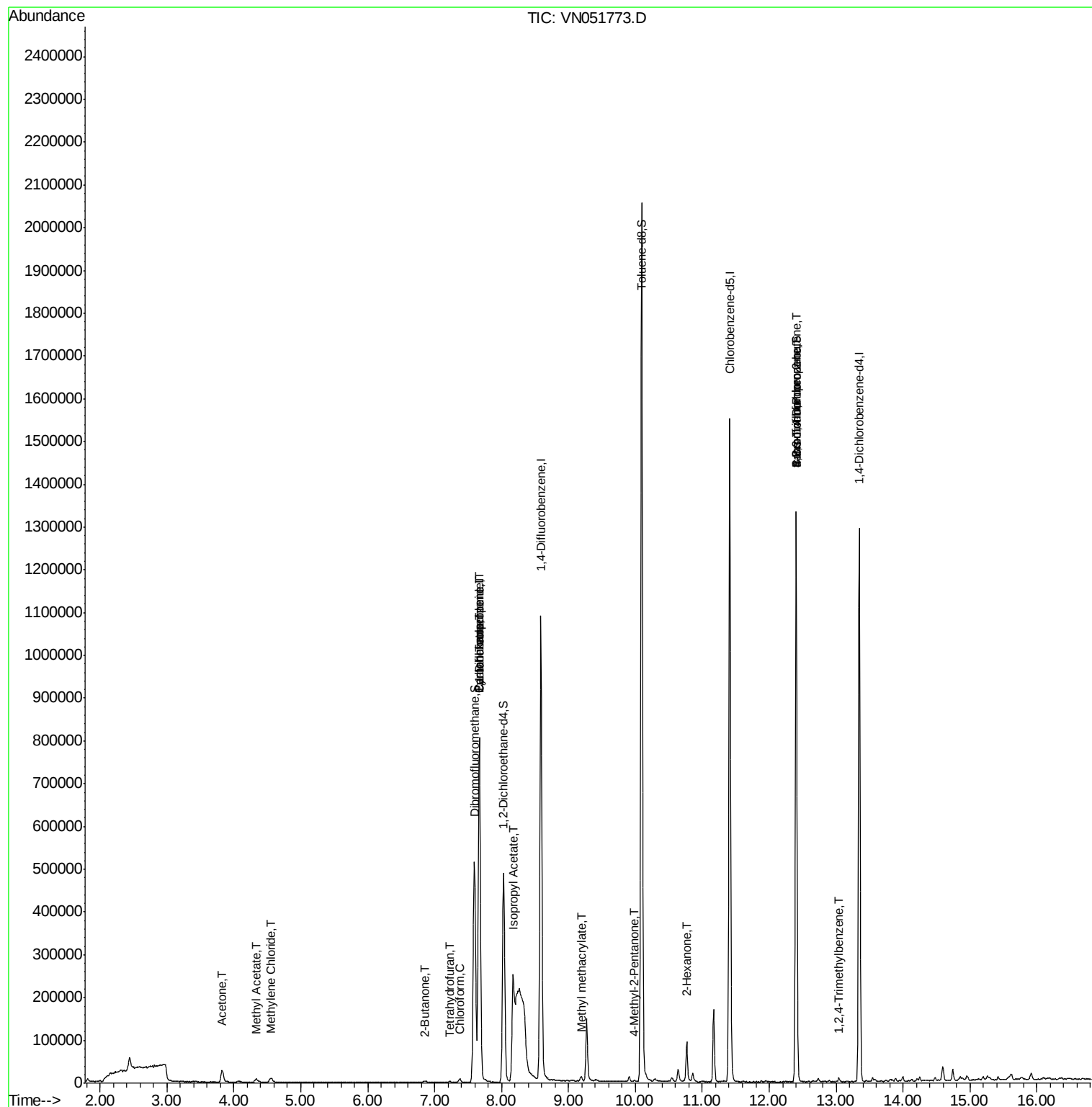
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	2.86	101	30	Below Cal	#	18
13) Acrolein	3.51	56	62	Below Cal	#	1
16) Acetone	3.82	43	47800	12.339	ug/l	100
18) Methyl Acetate	4.33	43	6616	1.276	ug/l #	37
20) Methylene Chloride	4.55	84	7724	0.999	ug/l	85
25) 2-Butanone	6.86	43	1951	0.719	ug/l	94
29) Tetrahydrofuran	7.23	42	1795	1.078	ug/l #	59
30) Chloroform	7.37	83	8468	0.541	ug/l	96
31) Cyclohexane	7.67	56	13388	1.050	ug/l #	31
36) 1,1-Dichloropropene	7.67	75	47055	4.397	ug/l #	49
38) Carbon Tetrachloride	7.67	117	63177	4.920	ug/l #	15
41) Methacrylonitrile	7.17	41	62	Below Cal	#	13
43) Isopropyl Acetate	8.17	43	308925	26.546	ug/l #	90
48) Methyl methacrylate	9.18	41	5544	1.043	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	1474	0.250	ug/l	93
59) 2-Hexanone	10.77	43	13627	3.403	ug/l #	51
71) Bromoform	12.41	173	3448	0.504	ug/l #	1
74) N-amyl acetate	12.08	43	318	Below Cal	#	41
75) 1,1,2,2-Tetrachloroethane	12.41	83	478	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	227624	50.182	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	227624	114.583	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.04	105	5739	0.218	ug/l	99

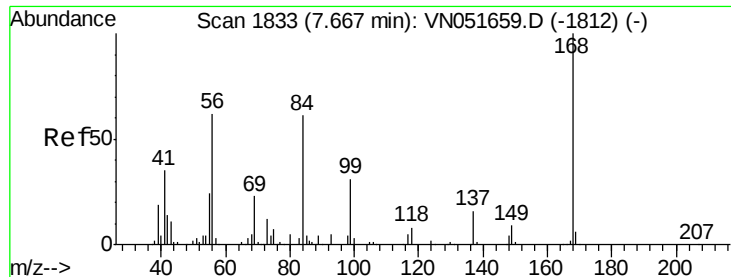
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 09 06:03:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampleId :

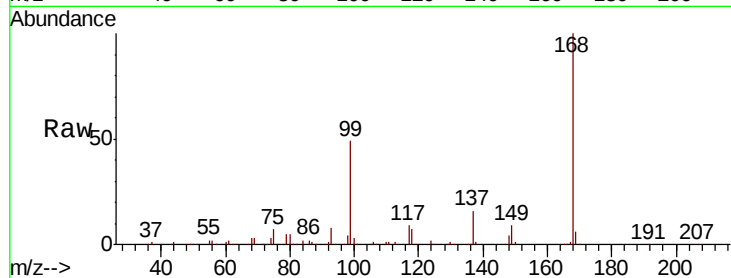
EO-02-100818-C

Tot Ion:168 Resp: 711050

Ion Ratio Lower Upper

168 100

99 48.8 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

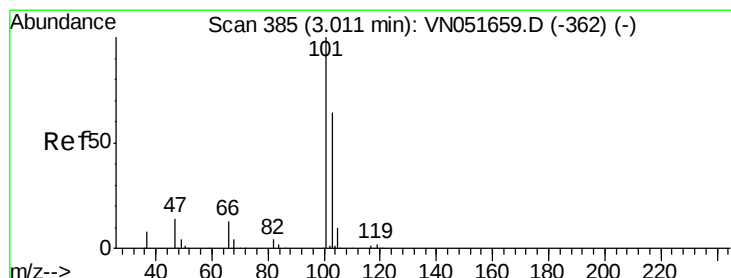
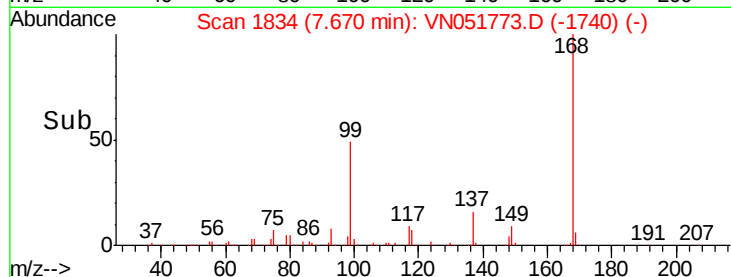
200000

100000

0

7.60 7.70 7.80

Time-->



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.86 min Scan# 337

Delta R.T. -0.15 min

Lab File: VN051773.D

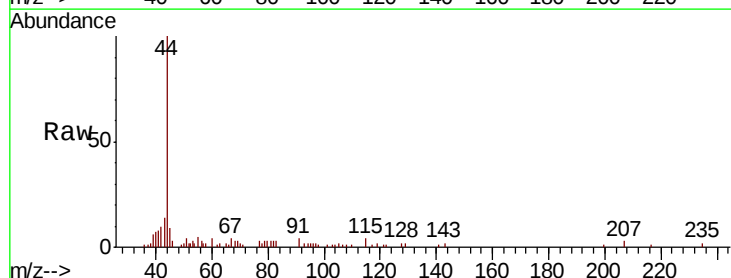
Acq: 10 Oct 2018 1:33

Tgt Ion:101 Resp: 30

Ion Ratio Lower Upper

101 100

103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

300

250

200

150

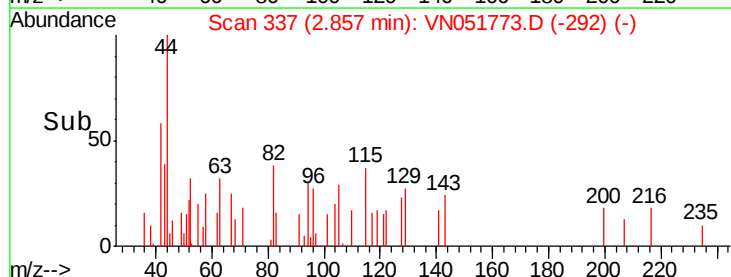
100

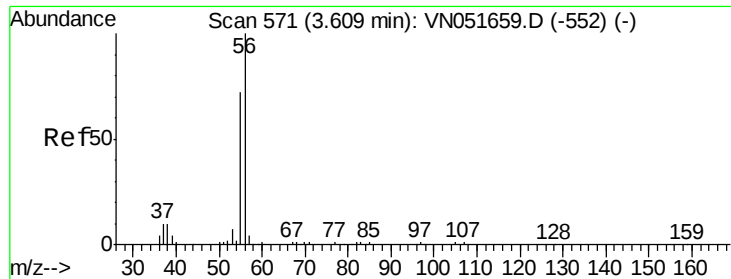
50

0

2.85 2.86 2.87

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.51 min Scan# 541

Delta R.T. -0.10 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampleId :

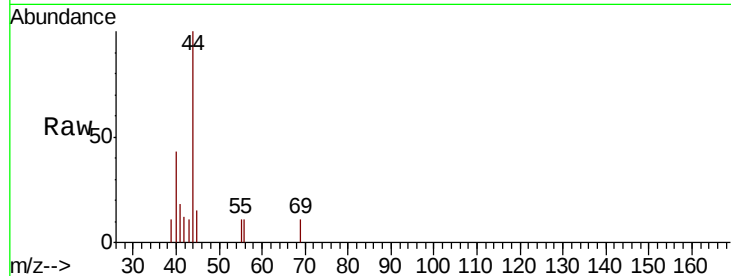
EO-02-100818-C

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 232.3 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

250

200

150

100

50

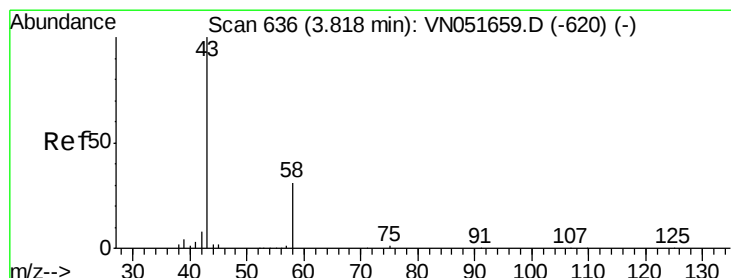
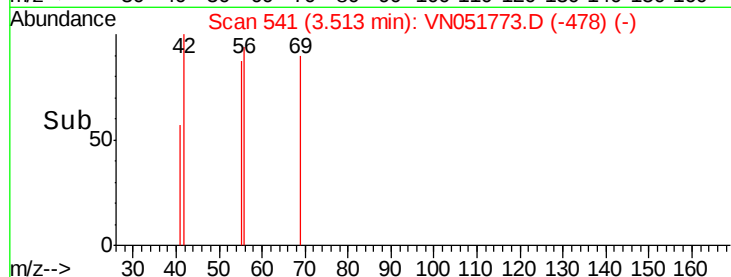
0

3.50

3.51

3.52

Time-->



#16

Acetone

Concen: 12.339 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051773.D

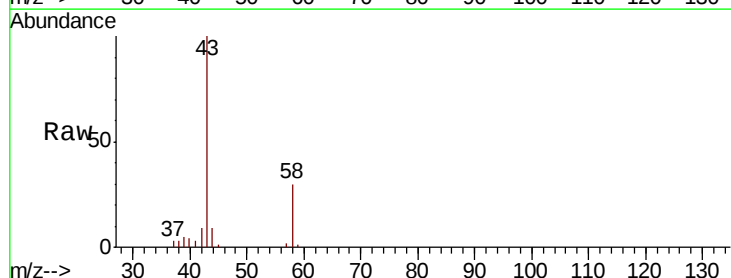
Acq: 10 Oct 2018 1:33

Tgt Ion: 43 Resp: 47800

Ion Ratio Lower Upper

43 100

58 30.3 24.3 36.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

20000

15000

10000

5000

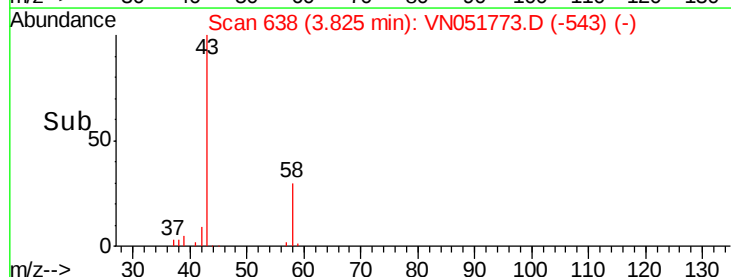
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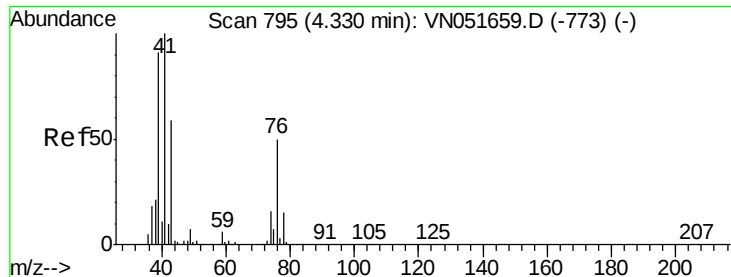
3.80

3.82

3.90

Time-->

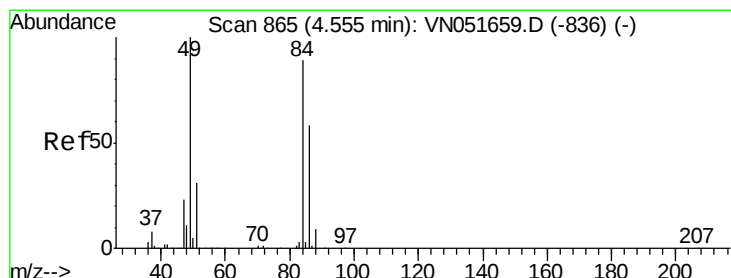
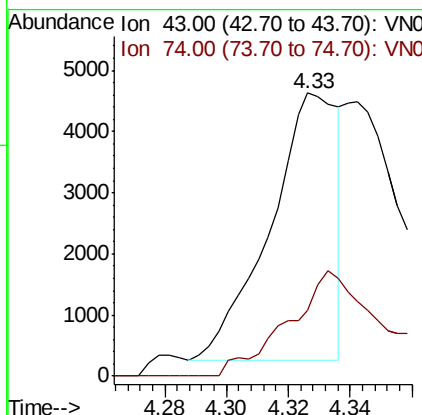
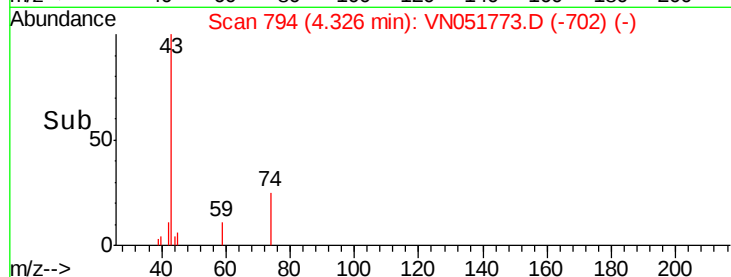
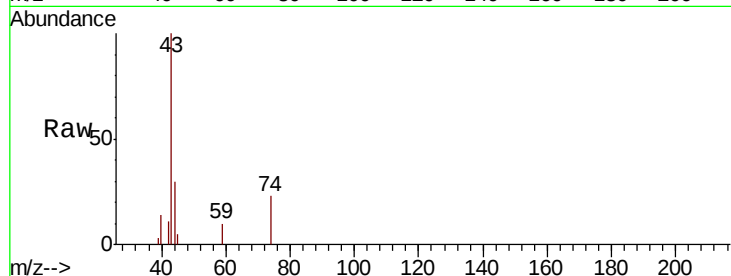




#18
Methvl Acetate
Concen: 1.276 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

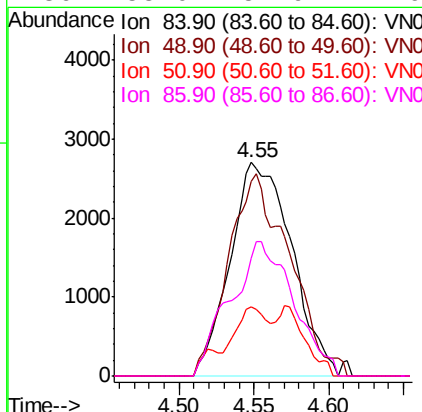
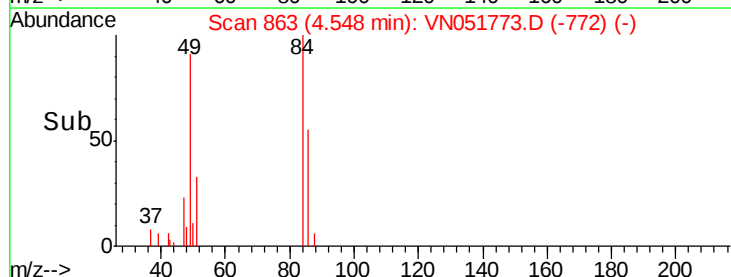
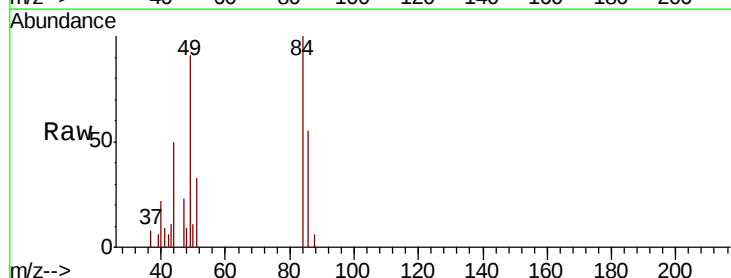
Instrument :
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EO-02-100818-C

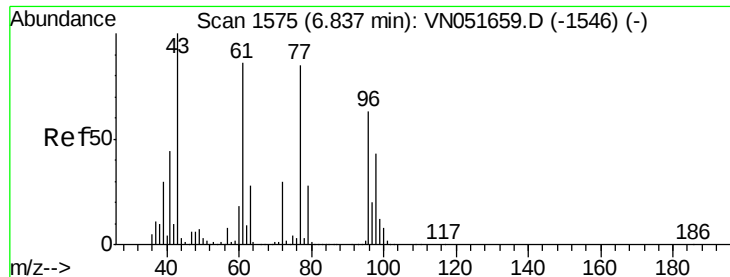
Tot Ion: 43 Resp: 6616
Ion Ratio Lower Upper
43 100
74 59.6 21.5 32.3#



#20
Methylene Chloride
Concen: 0.999 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

Tgt Ion: 84 Resp: 7724
Ion Ratio Lower Upper
84 100
49 90.9 89.5 134.3
51 32.7 27.4 41.0
86 55.0 51.9 77.9

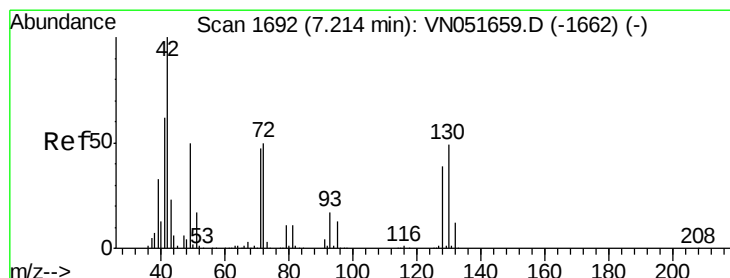
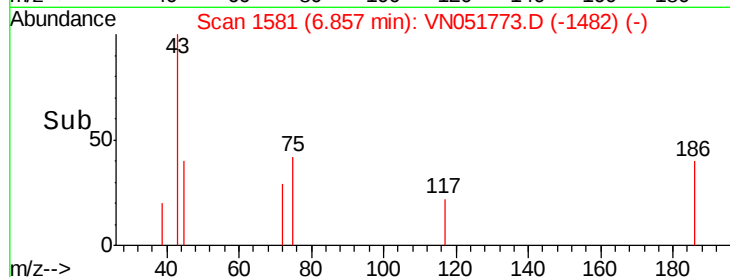
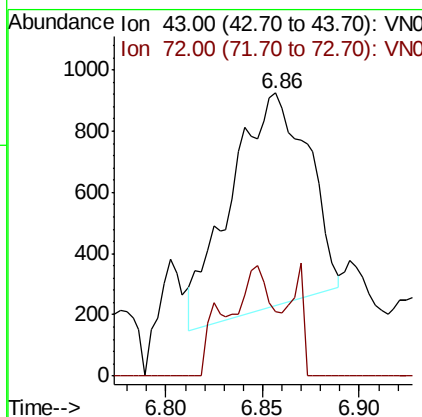
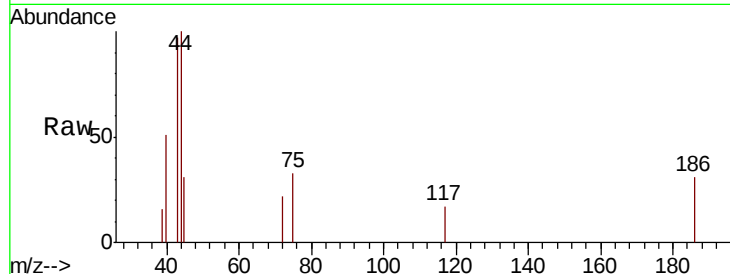




#25
2-Butanone
Concen: 0.719 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

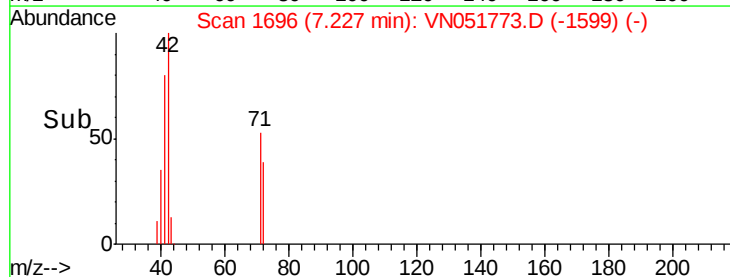
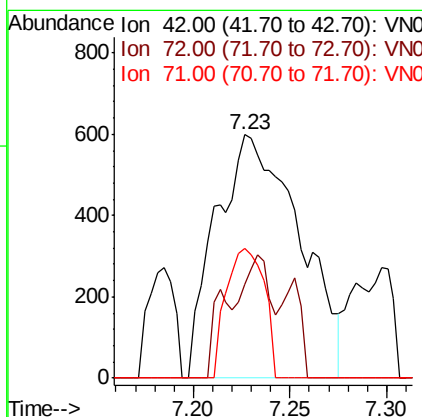
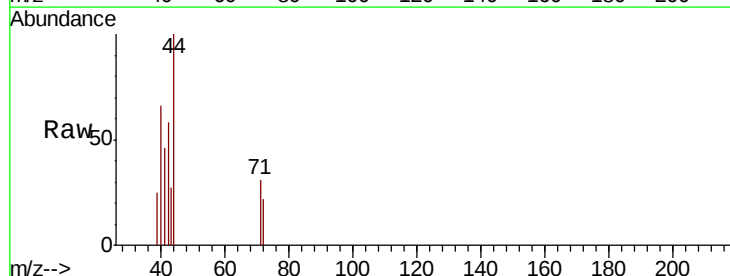
Instrument :
MSVOA_N
ClientSampleId :
EO-02-100818-C

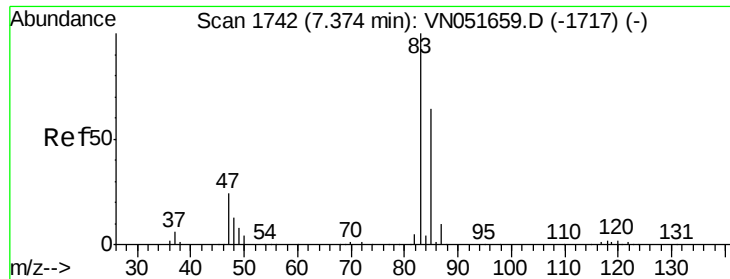
Tot Ion: 43 Resp: 1951
Ion Ratio Lower Upper
43 100
72 33.3 24.2 36.2



#29
Tetrahydrofuran
Concen: 1.078 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

Tgt Ion: 42 Resp: 1795
Ion Ratio Lower Upper
42 100
72 17.5 40.1 60.1#
71 24.4 38.0 57.0#

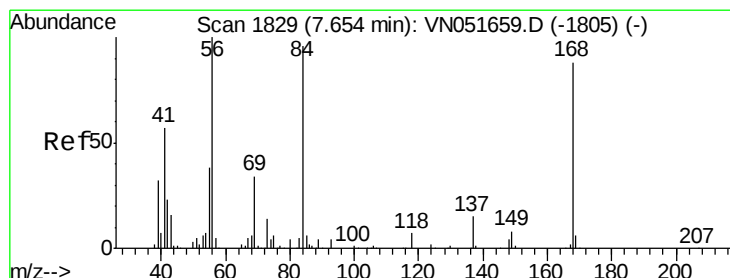
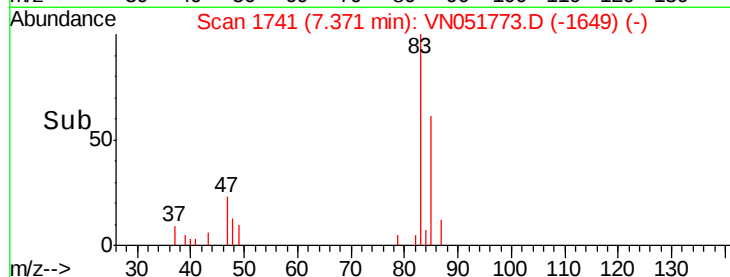
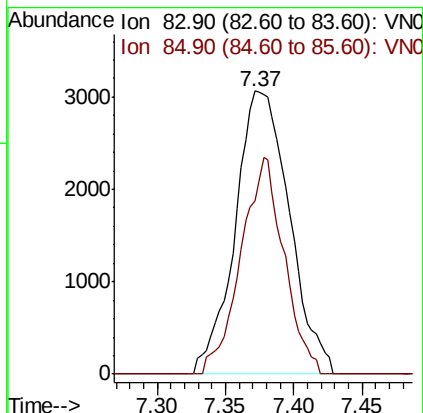
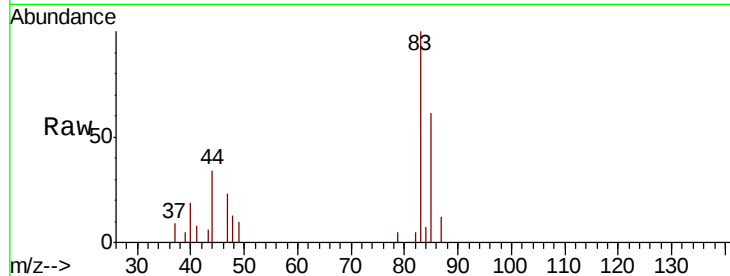




#30
Chloroform
Concen: 0.541 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

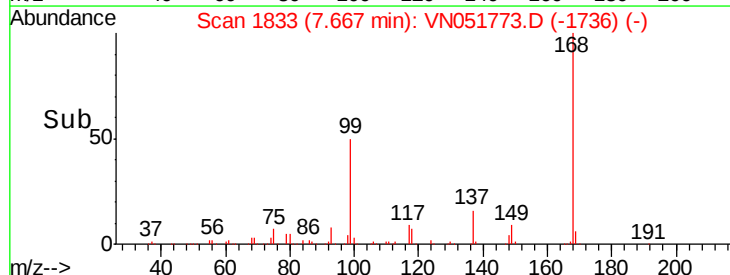
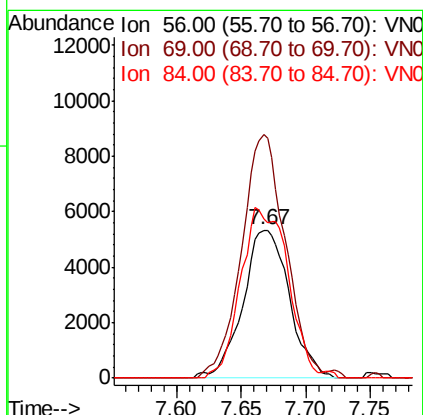
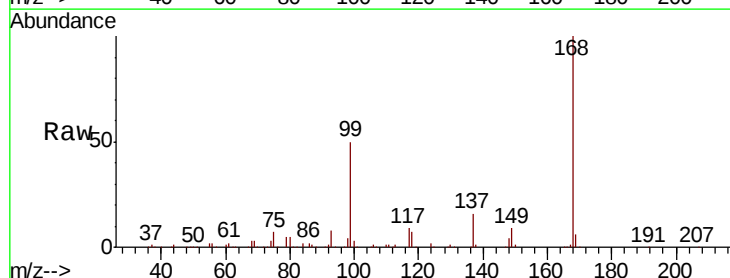
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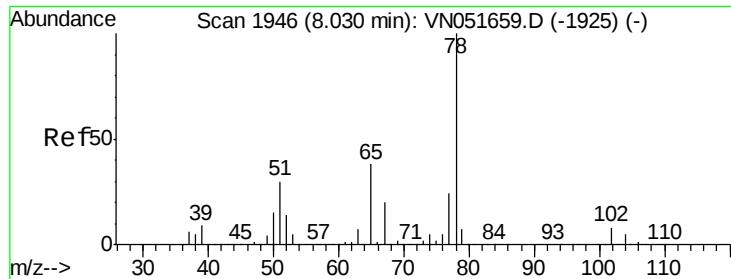
Tot Ion: 83 Resp: 8468
Ion Ratio Lower Upper
83 100
85 61.0 51.6 77.4



#31
Cyclohexane
Concen: 1.050 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

Tgt Ion: 56 Resp: 13388
Ion Ratio Lower Upper
56 100
69 165.0 27.5 41.3#
84 107.8 76.7 115.1

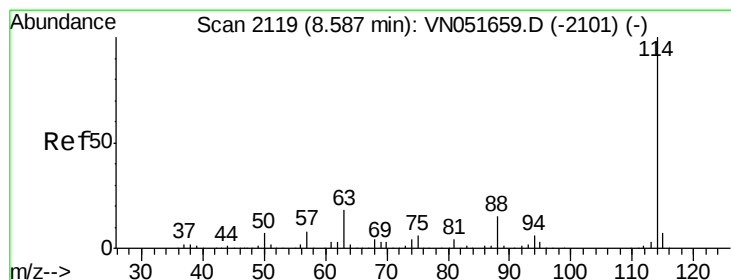
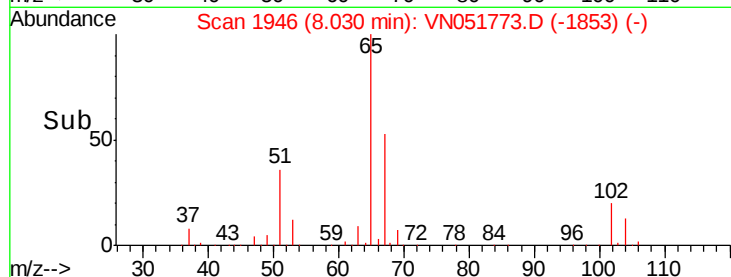
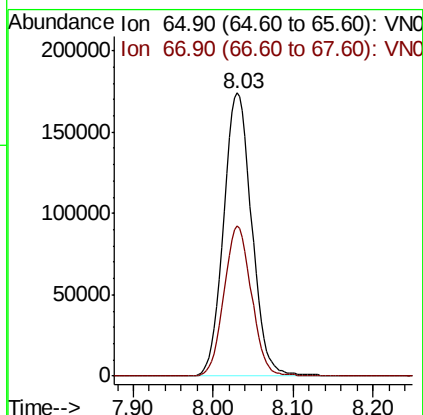
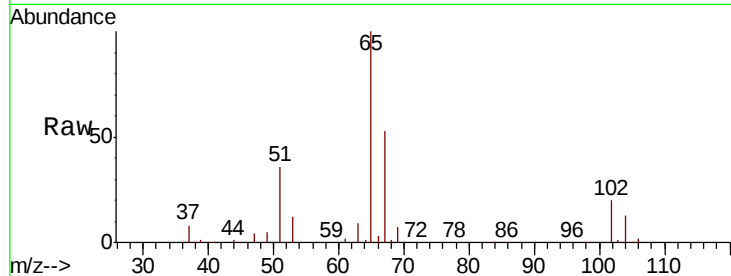




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051773.D
 Acq: 10 Oct 2018 1:33

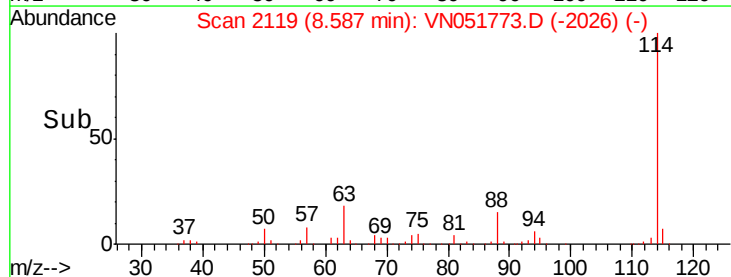
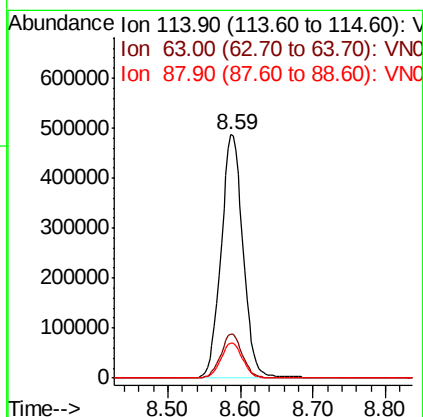
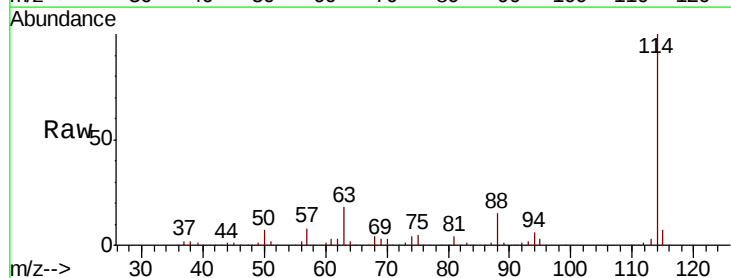
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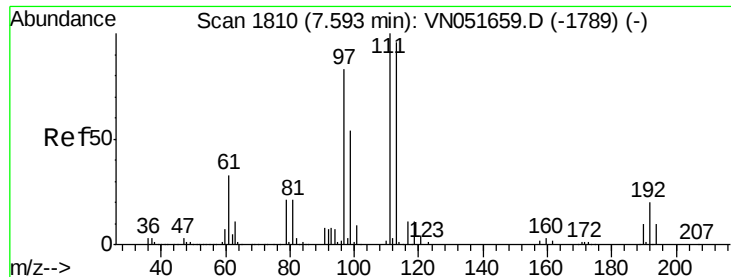
Tot Ion: 65 Resp: 419555
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051773.D
 Acq: 10 Oct 2018 1:33

Tgt Ion: 114 Resp: 1023871
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 36.2
 88 14.6 0.0 30.2

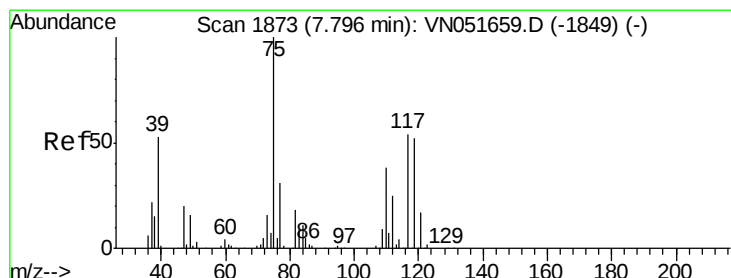
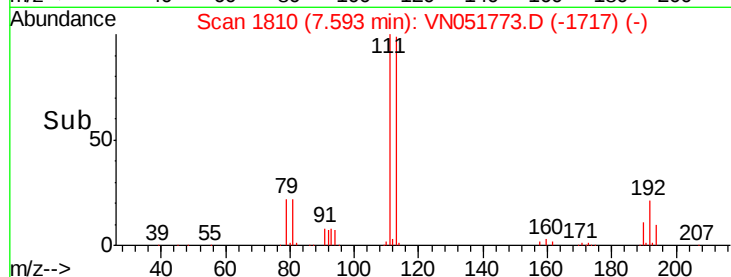
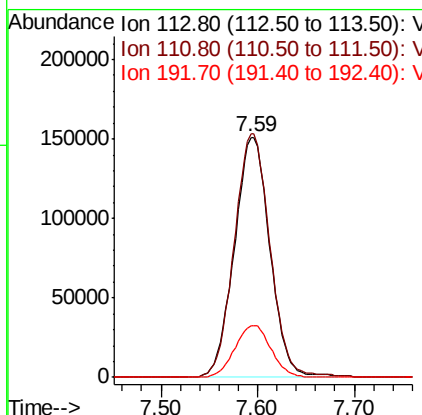
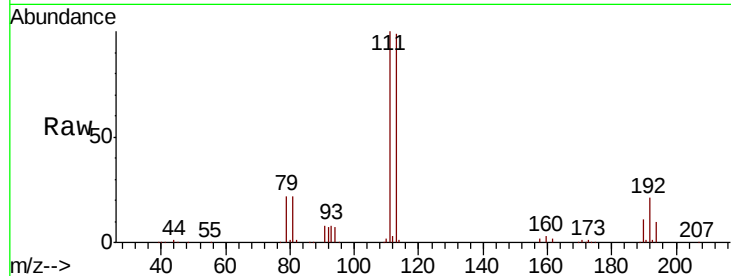




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051773.D
 Acq: 10 Oct 2018 1:33

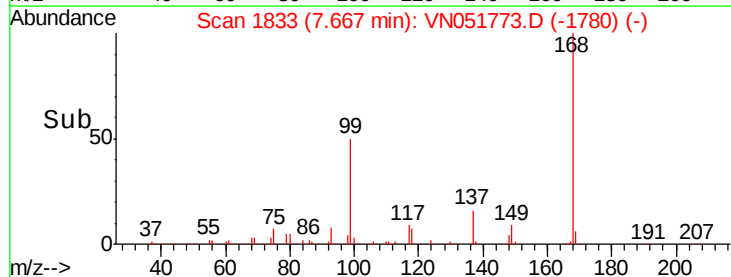
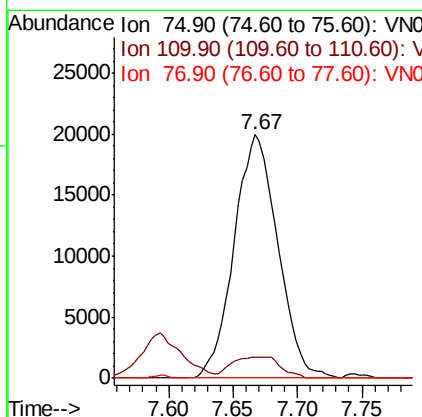
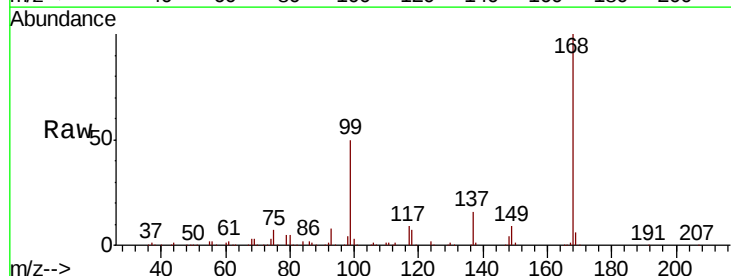
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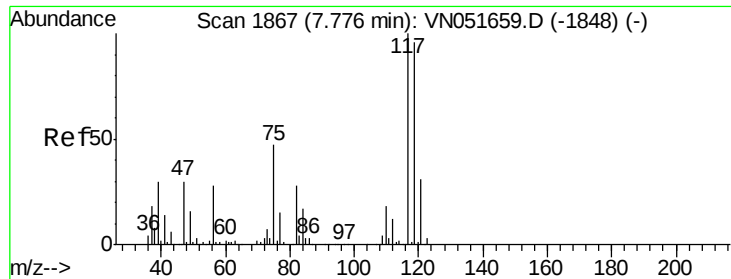
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.8
192	22.0	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.397 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051773.D
 Acq: 10 Oct 2018 1:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	19.3	57.8#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 4.920 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampled :

EO-02-100818-C

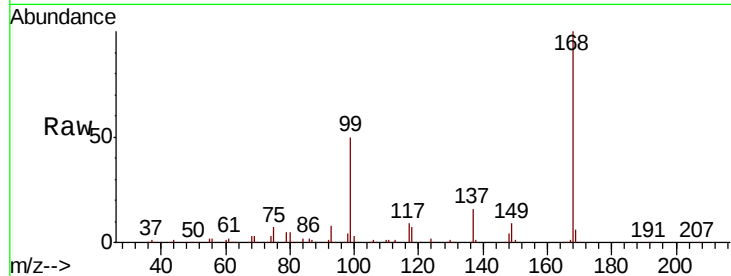
Tot Ion:117 Resp: 63177

Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.6#

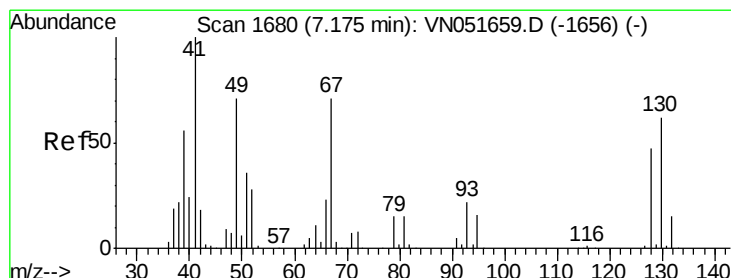
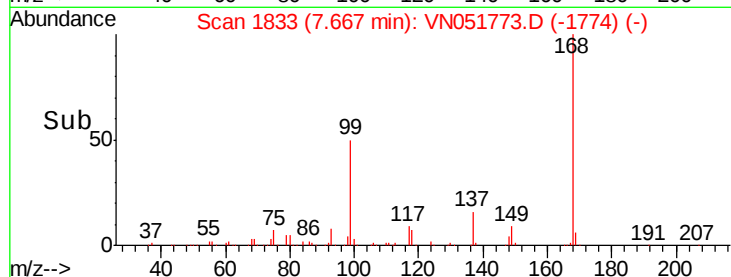
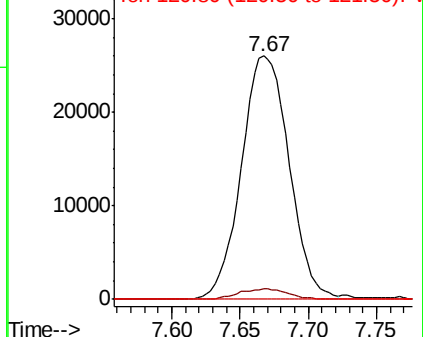
121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Tgt Ion: 41 Resp: 62

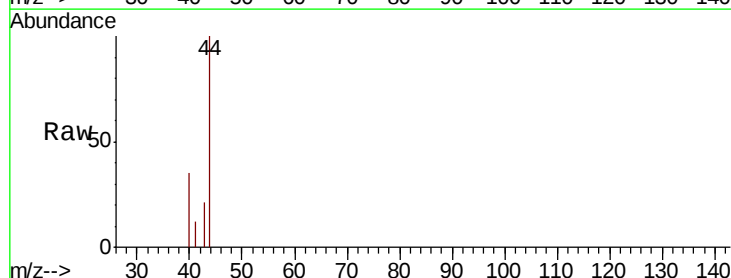
Ion Ratio Lower Upper

41 100

39 0.0 53.9 80.9#

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

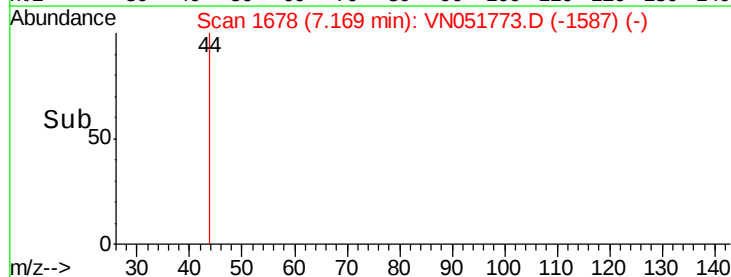
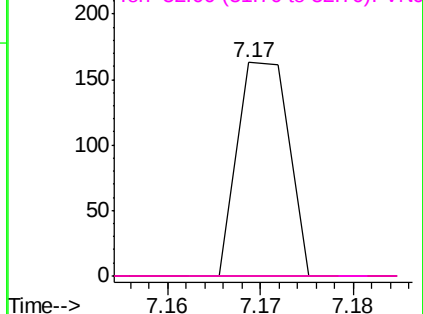


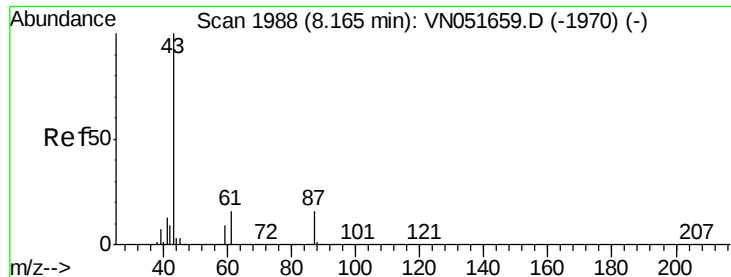
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 26.546 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-C

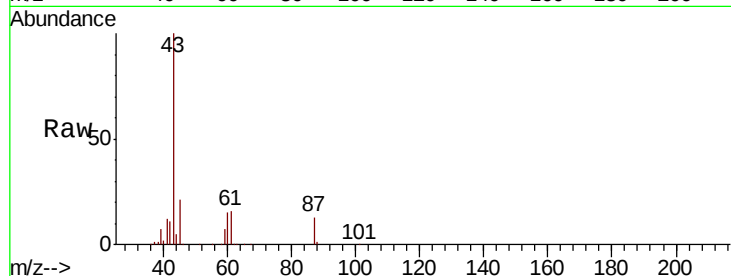
Tot Ion: 43 Resp: 308925

Ion Ratio Lower Upper

43 100

61 15.3 15.8 23.6#

87 11.0 12.6 19.0#



Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN051659.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN051659.D (-1970) (-)

8.17

150000

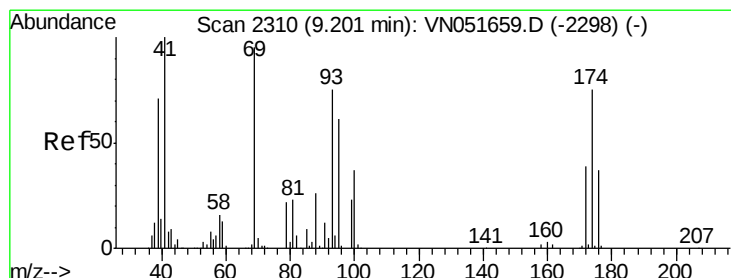
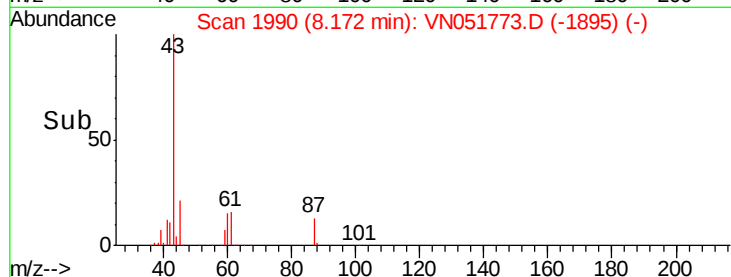
100000

50000

0

8.10 8.15 8.20

Time-->



#48

Methyl methacrylate

Concen: 1.043 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

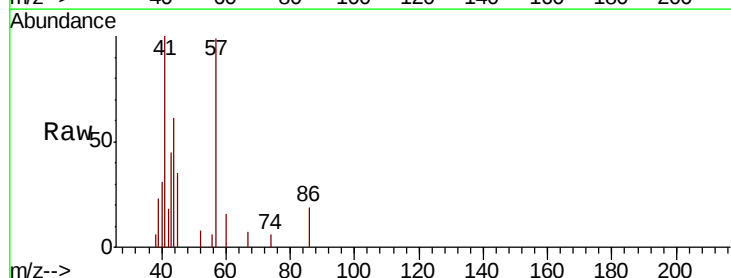
Tgt Ion: 41 Resp: 5544

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

39 26.2 59.2 88.8#



Abundance Ion 41.00 (40.70 to 41.70): VN051659.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051659.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051659.D (-2298) (-)

9.18

10000

8000

6000

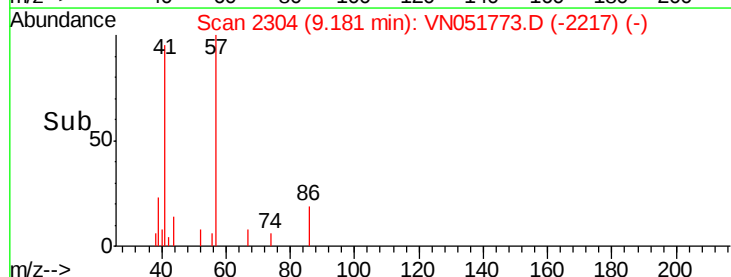
4000

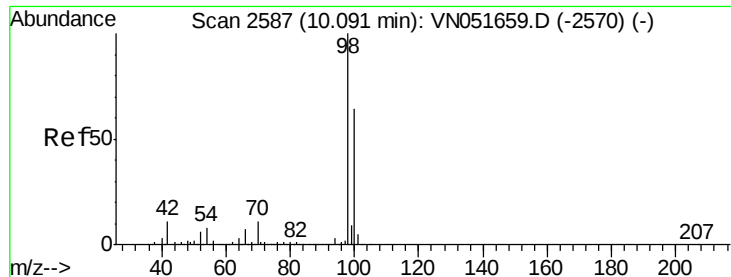
2000

0

9.10 9.15 9.20 9.25

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampleId :

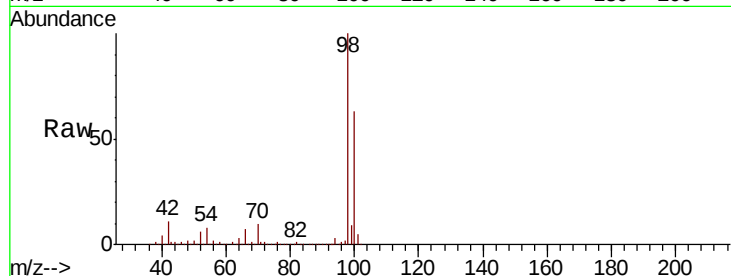
EO-02-100818-C

Tot Ion: 98 Resp: 1488066

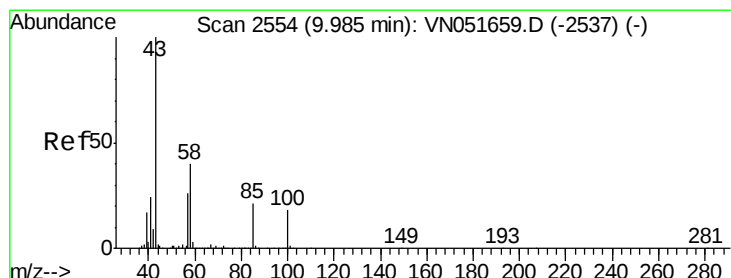
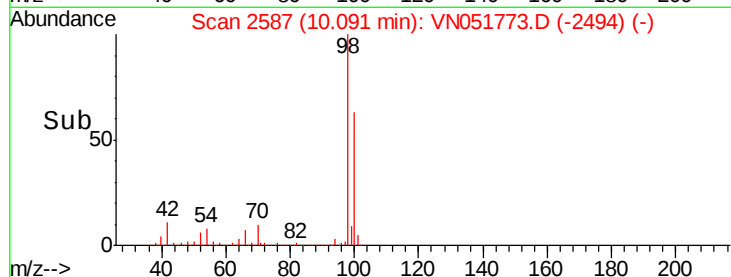
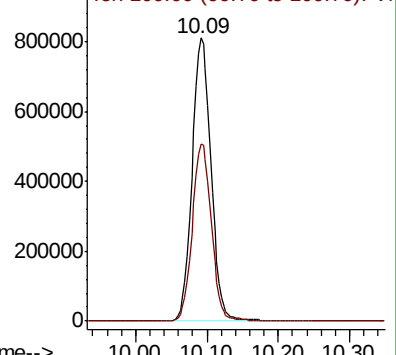
Ion Ratio Lower Upper

98 100

100 63.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051659.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.250 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051773.D

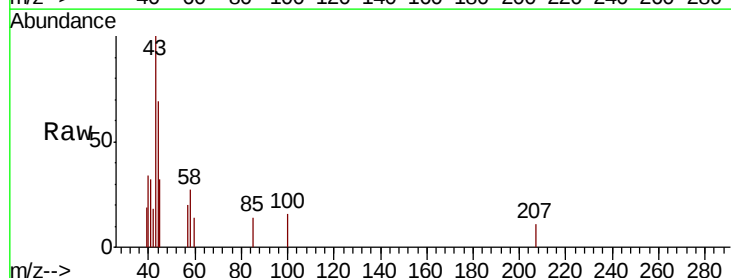
Acq: 10 Oct 2018 1:33

Tgt Ion: 43 Resp: 1474

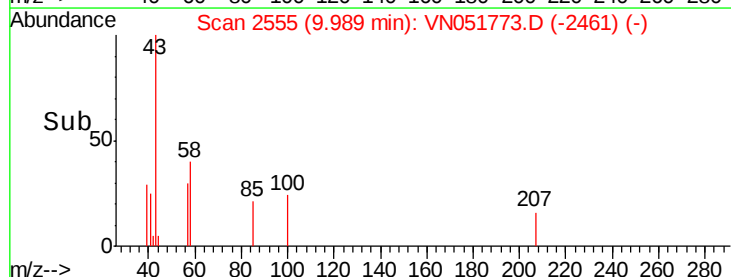
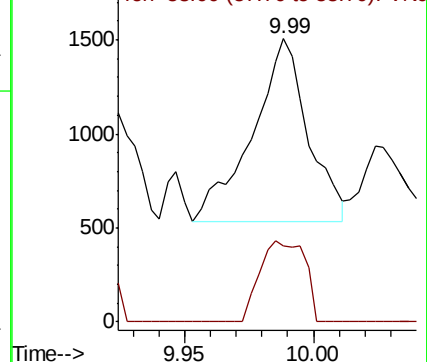
Ion Ratio Lower Upper

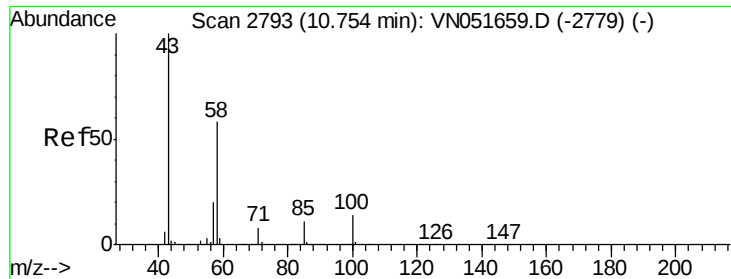
43 100

58 35.8 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-2537) (-)

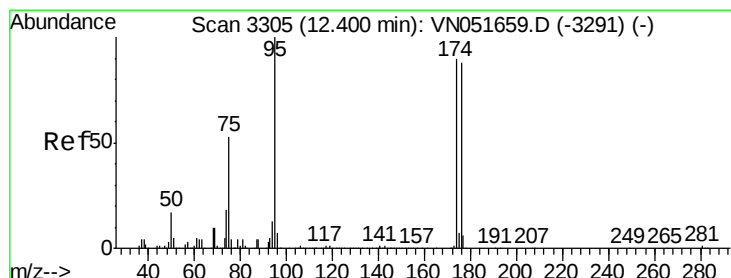
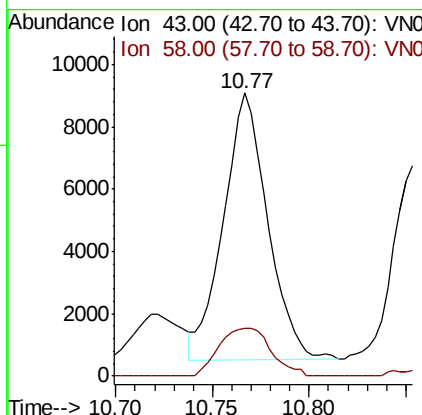
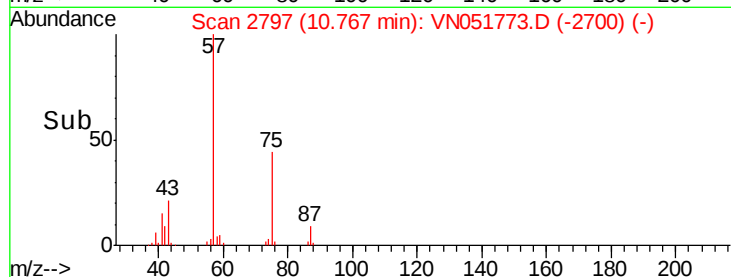
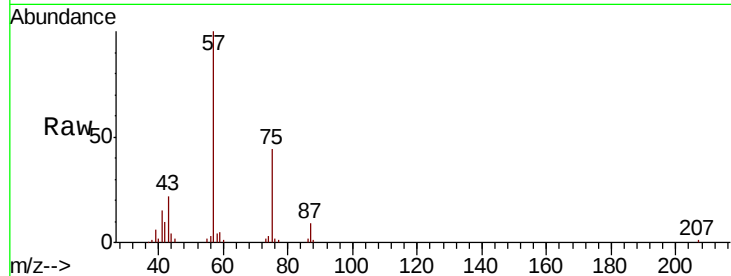




#59
2-Hexanone
Concen: 3.403 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

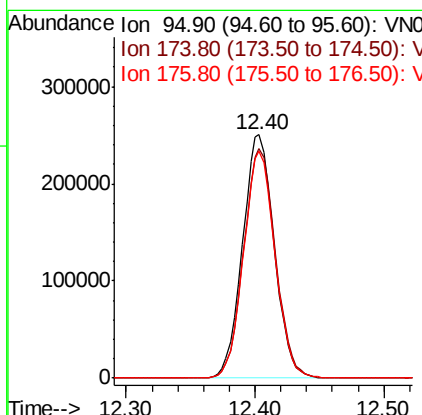
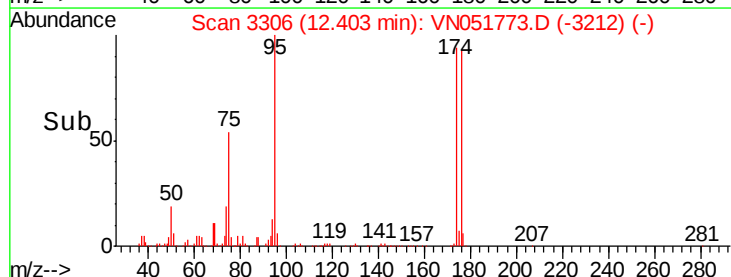
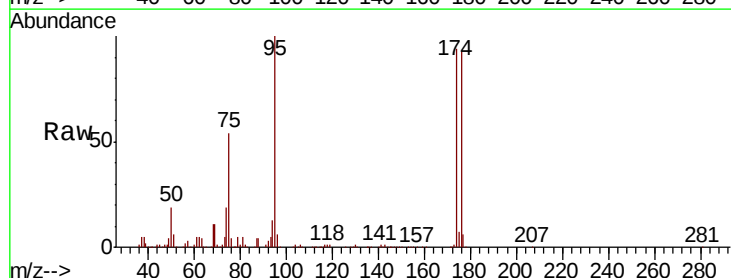
Instrument :
MSVOA_N
ClientSampleId :
EO-02-100818-C

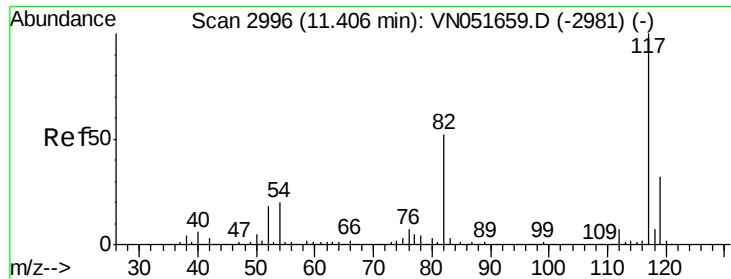
Tot Ion: 43 Resp: 13627
Ion Ratio Lower Upper
43 100
58 21.1 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051773.D
Acq: 10 Oct 2018 1:33

Tgt Ion: 95 Resp: 427333
Ion Ratio Lower Upper
95 100
174 95.0 0.0 182.8
176 92.5 0.0 176.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampled :

EO-02-100818-C

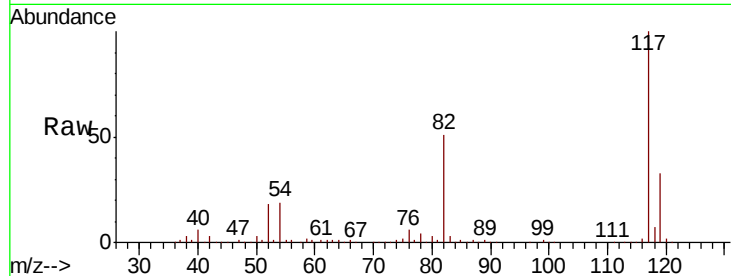
Tot Ion:117 Resp: 928067

Ion Ratio Lower Upper

117 100

82 51.0 41.3 61.9

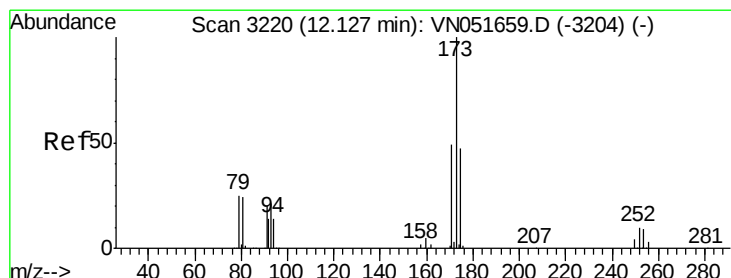
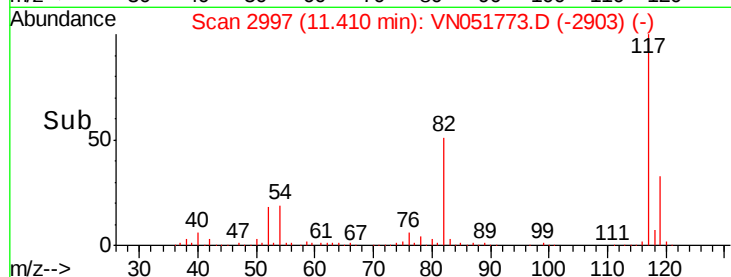
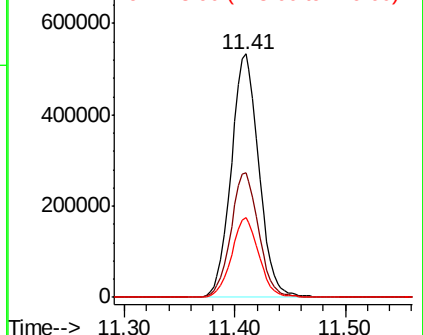
119 32.8 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.504 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

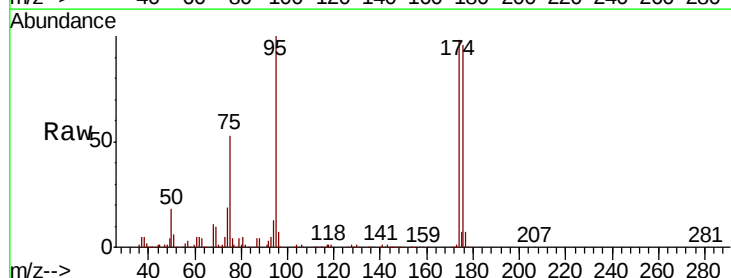
Tgt Ion:173 Resp: 3448

Ion Ratio Lower Upper

173 100

175 748.2 24.0 72.0#

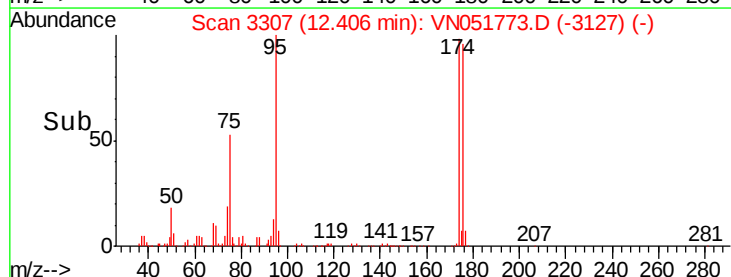
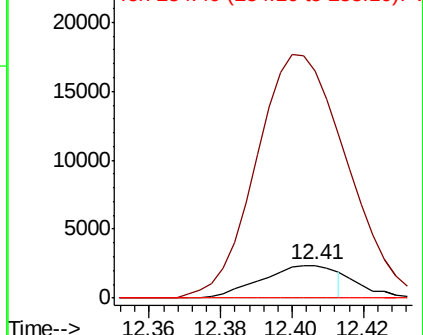
254 0.0 0.1 0.1#

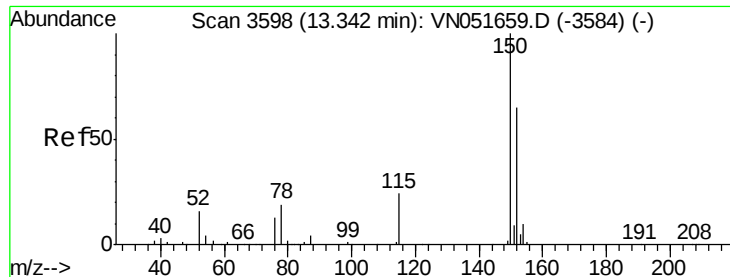


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-C

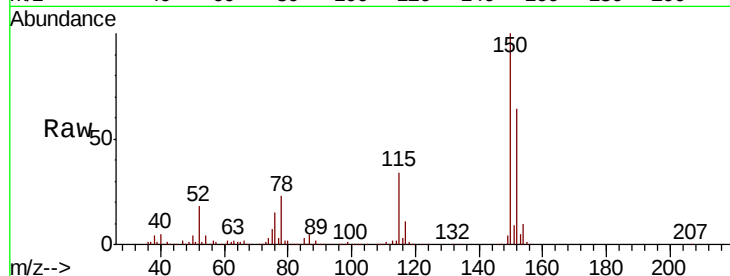
Tot Ion:152 Resp: 365165

Ion Ratio Lower Upper

152 100

115 53.5 28.6 85.8

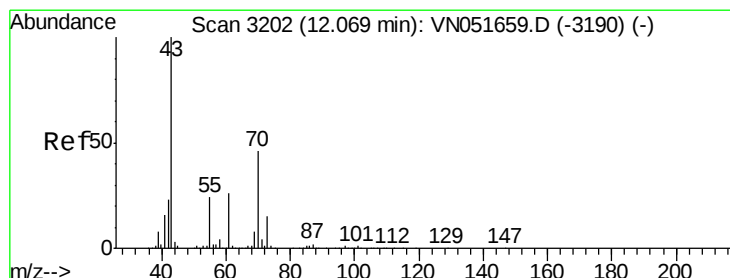
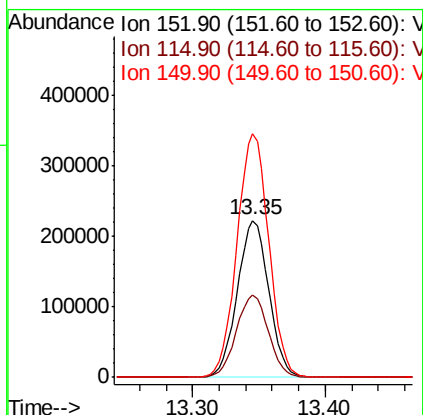
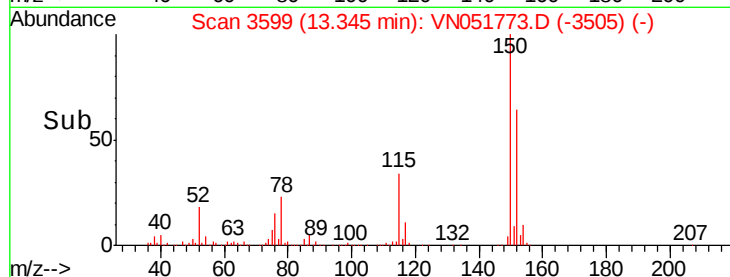
150 157.2 0.0 352.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Tgt Ion: 43 Resp: 318

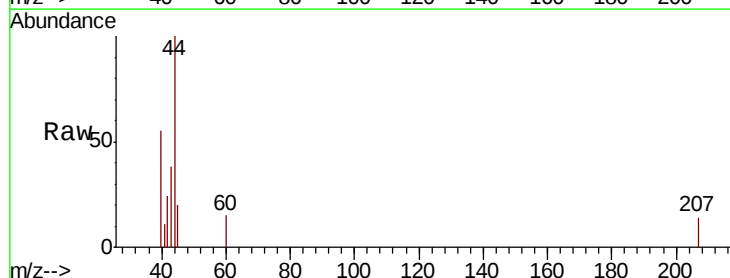
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 0.0 19.1 28.7#

61 0.0 20.8 31.2#

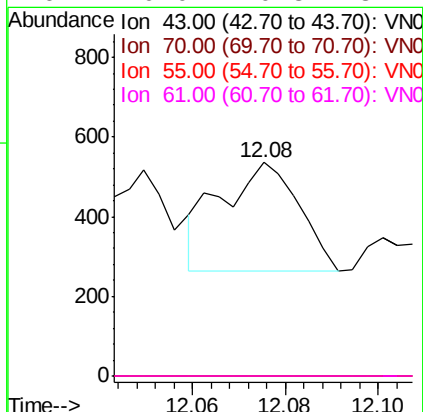
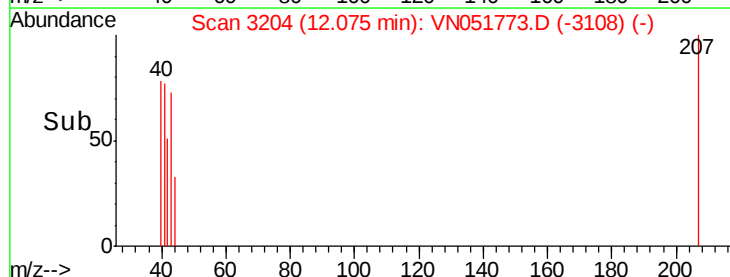


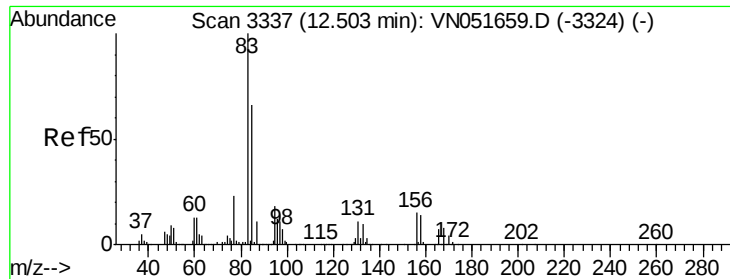
Abundance Ion 43.00 (42.70 to 43.70): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3308

Delta R.T. -0.09 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-C

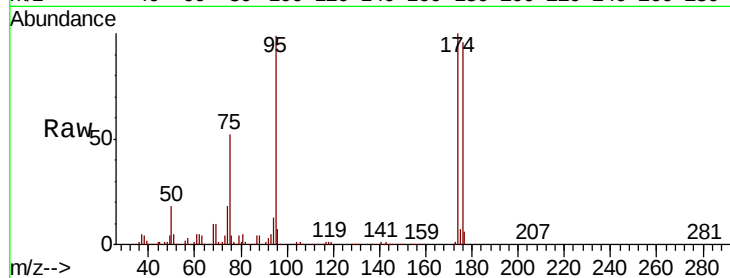
Tot Ion: 83 Resp: 478

Ion Ratio Lower Upper

83 100

131 145.0 5.7 17.1#

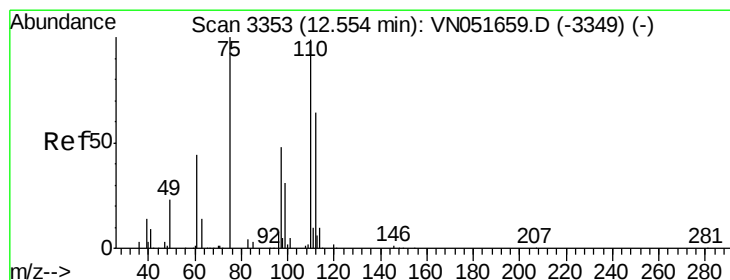
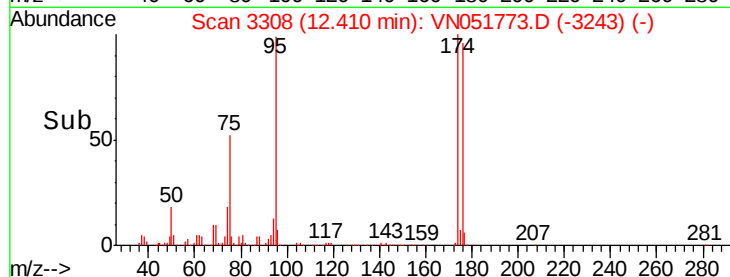
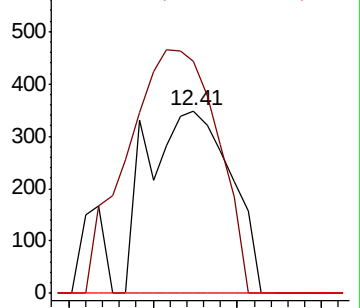
85 0.0 33.0 98.9#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 50.182 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051773.D

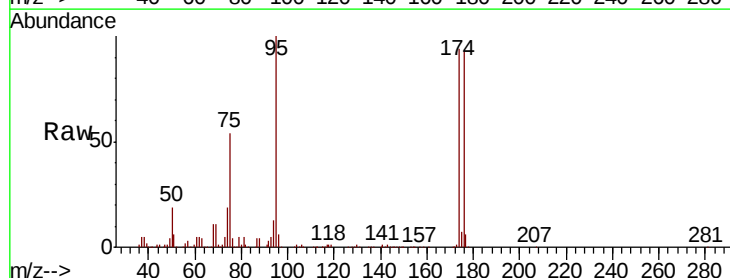
Acq: 10 Oct 2018 1:33

Tgt Ion: 75 Resp: 227624

Ion Ratio Lower Upper

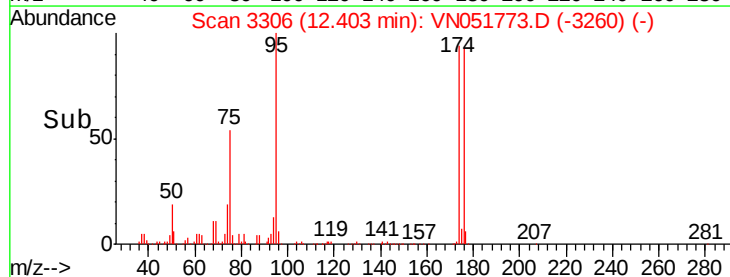
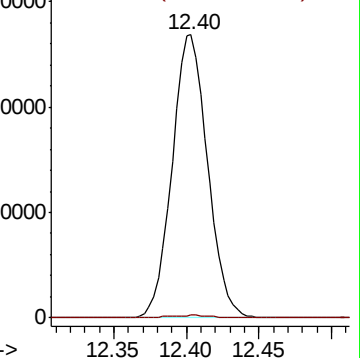
75 100

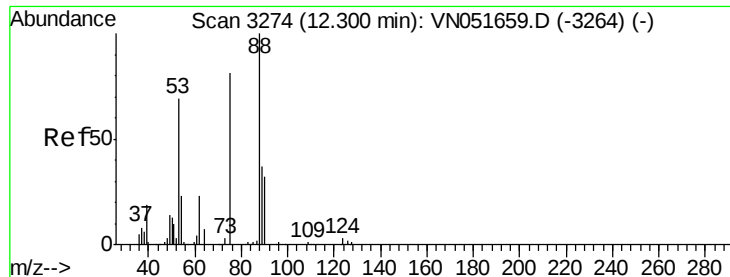
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 114.583 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051773.D

Acq: 10 Oct 2018 1:33

Instrument :

MSVOA_N

ClientSampled :

EO-02-100818-C

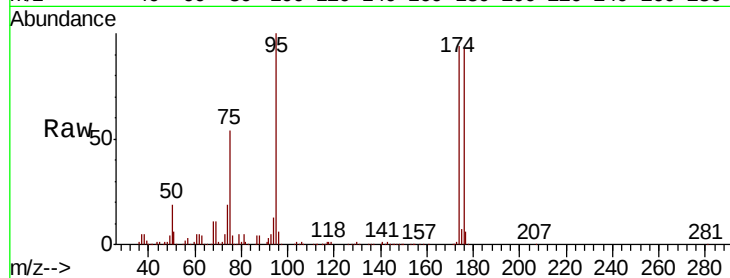
Tot Ion: 75 Resp: 227624

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

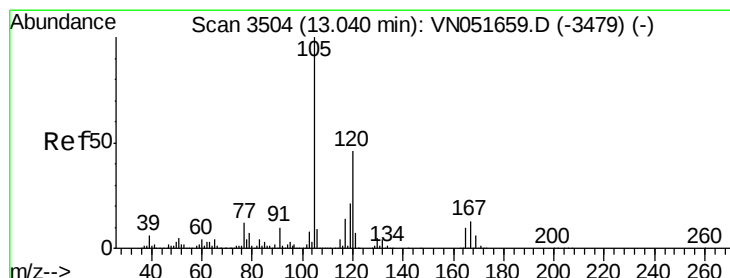
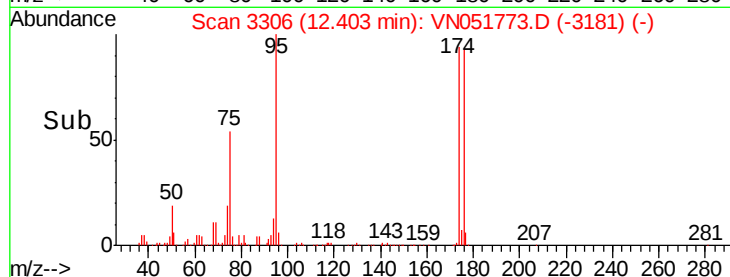
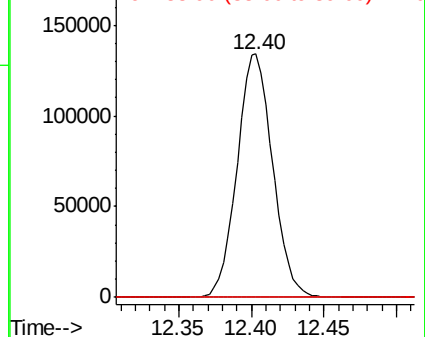
89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VN051773.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051773.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051773.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.218 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051773.D

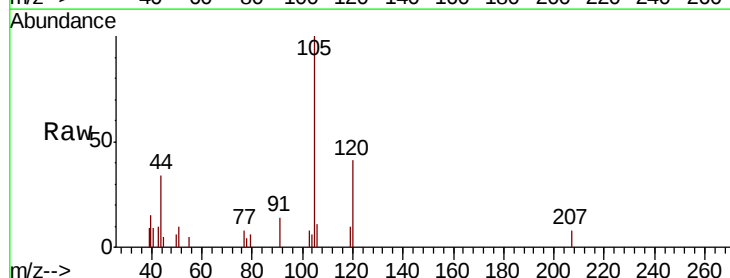
Acq: 10 Oct 2018 1:33

Tgt Ion: 105 Resp: 5739

Ion Ratio Lower Upper

105 100

120 46.4 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): VN051773.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN051773.D (-3411) (-)

