

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022119\
 Data File : VN053887.D
 Acq On : 21 Feb 2019 12:56
 Operator : JC/SP
 Sample : K1540-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M2-T3-OZ(PRE)

Quant Time: Feb 22 00:36:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 21 03:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	625184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1052411	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1058359	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	374868	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	331037	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
35) Dibromofluoromethane	7.59	113	330081	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
50) Toluene-d8	10.09	98	1381921	55.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.80%	
62) 4-Bromofluorobenzene	12.40	95	444870	54.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.04%	

Target Compounds

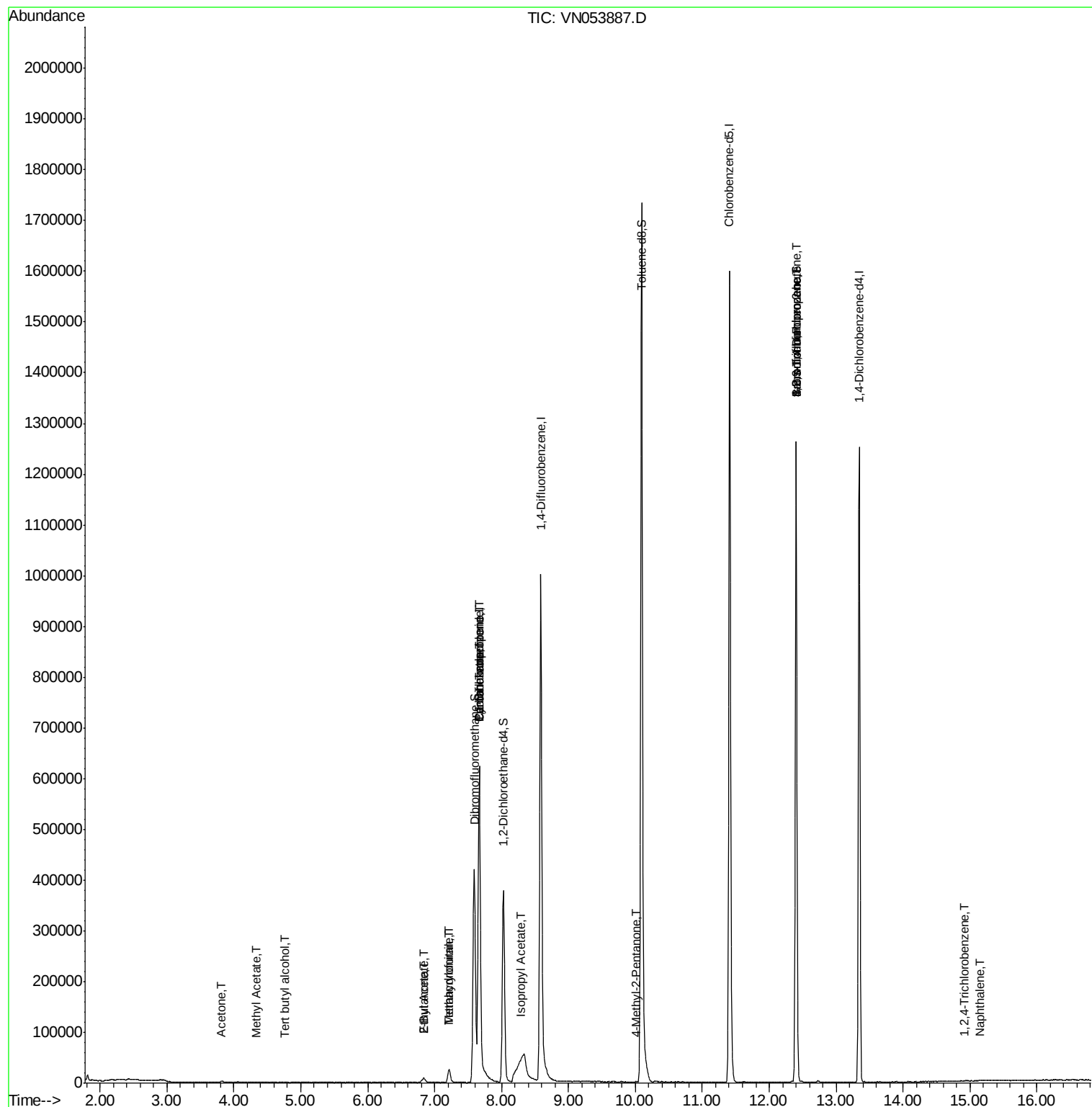
						Qvalue
11) Tert butyl alcohol	4.76	59	505	1.266	ug/l #	73
16) Acetone	3.82	43	4990	2.840	ug/l #	83
18) Methyl Acetate	4.33	43	1840	0.444	ug/l #	56
25) 2-Butanone	6.84	43	13363	5.893	ug/l	94
29) Tetrahydrofuran	7.22	42	22583	15.400	ug/l	97
31) Cyclohexane	7.66	56	9526	0.404	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	36664	3.801	ug/l #	48
37) Ethyl Acetate	6.84	43	13363	2.510	ug/l #	67
38) Carbon Tetrachloride	7.67	117	50395	5.230	ug/l #	16
41) Methacrylonitrile	7.22	41	12405	3.702	ug/l #	100
43) Isopropyl Acetate	8.27	43	60482	5.878	ug/l #	59
51) 4-Methyl-2-Pentanone	10.00	43	320	6.580	ug/l #	34
71) Bromoform	12.40	173	3429	0.598	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	203945	37.060	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	203945	122.346	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	67	2.935	ug/l #	11
95) Naphthalene	15.14	128	167	4.622	ug/l #	70

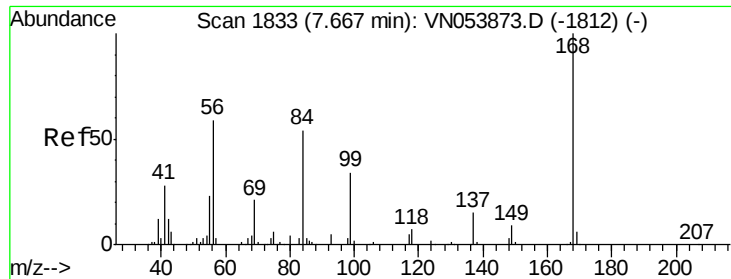
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Feb 21 03:36:07 2019
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: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

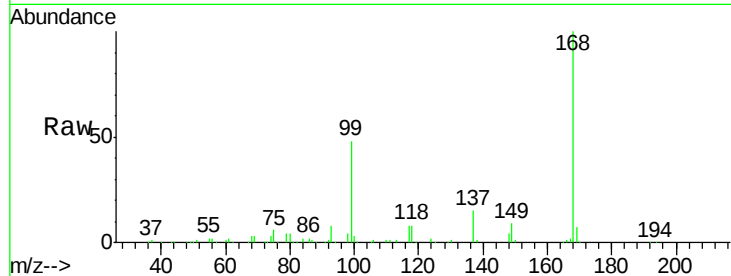
M2-T3-OZ(PRE)

Tot Ion:168 Resp: 625184

Ion Ratio Lower Upper

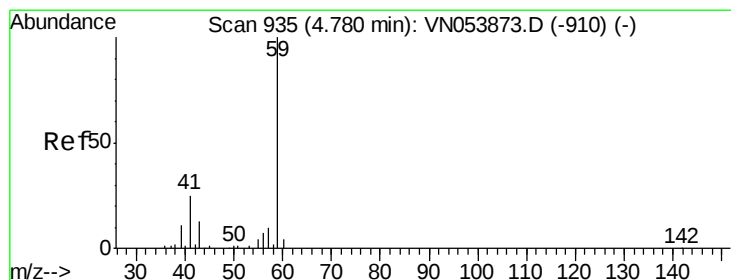
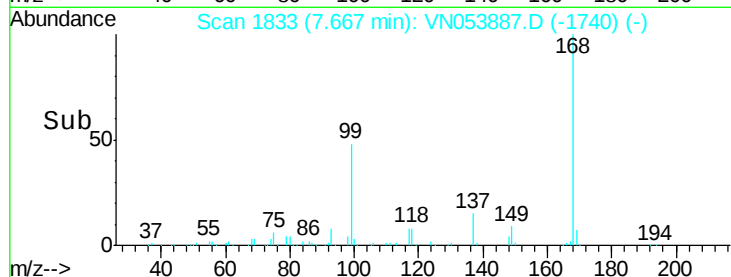
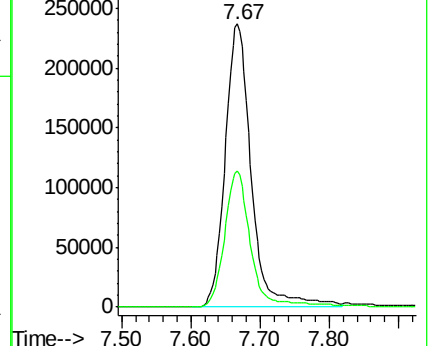
168 100

99 48.1 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.266 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.02 min

Lab File: VN053887.D

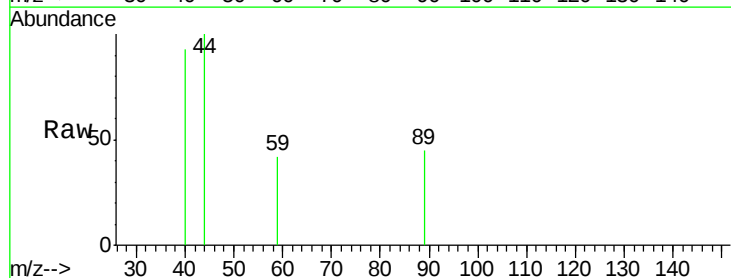
Acq: 21 Feb 2019 12:56

Tgt Ion: 59 Resp: 505

Ion Ratio Lower Upper

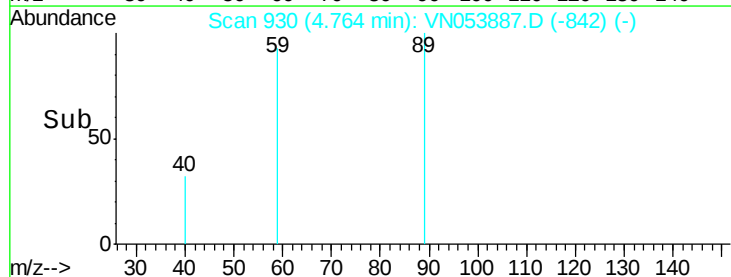
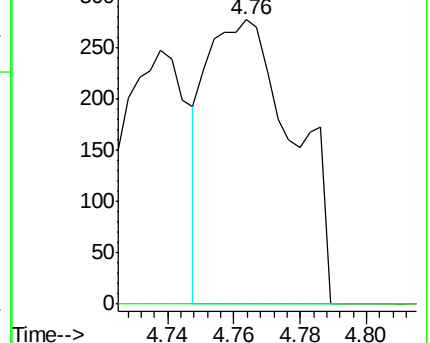
59 100

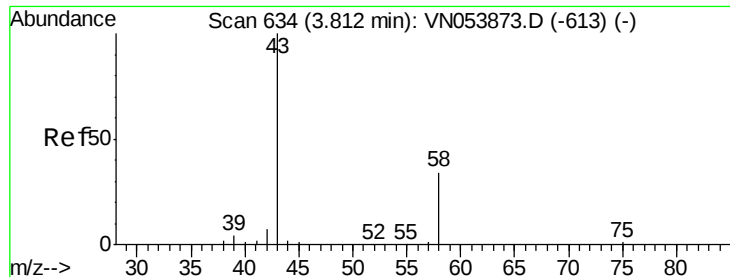
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 2.840 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

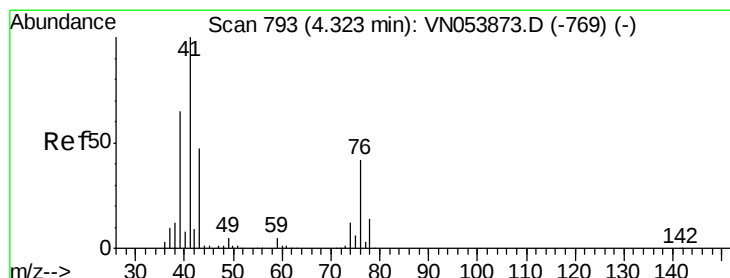
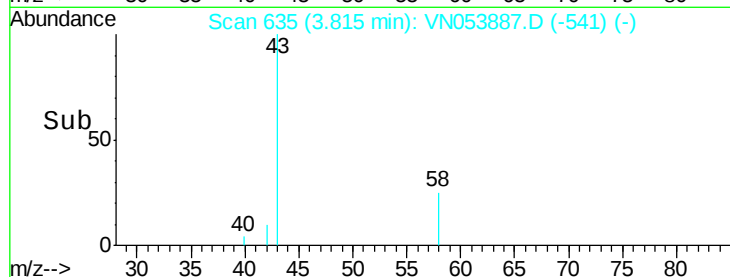
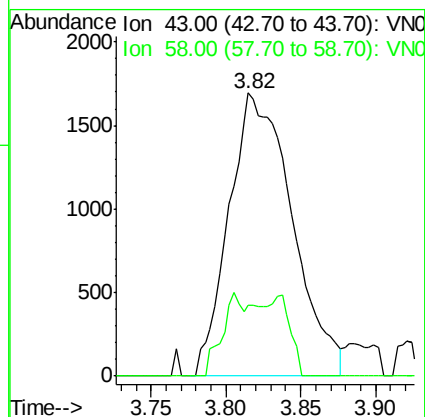
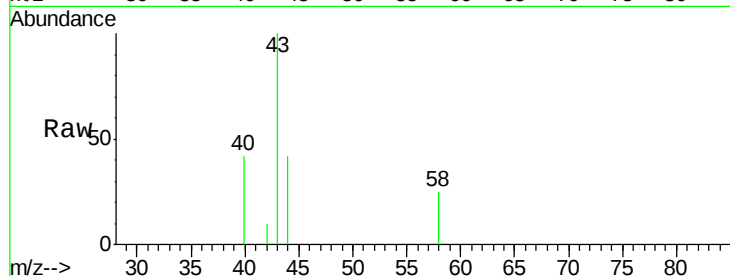
M2-T3-OZ(PRE)

Tot Ion: 43 Resp: 4990

Ion Ratio Lower Upper

43 100

58 24.9 27.6 41.4#



#18

Methyl Acetate

Concen: 0.444 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053887.D

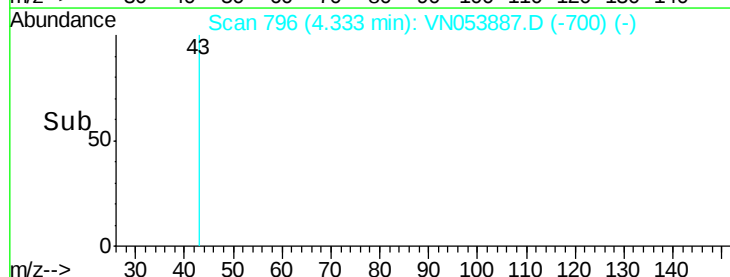
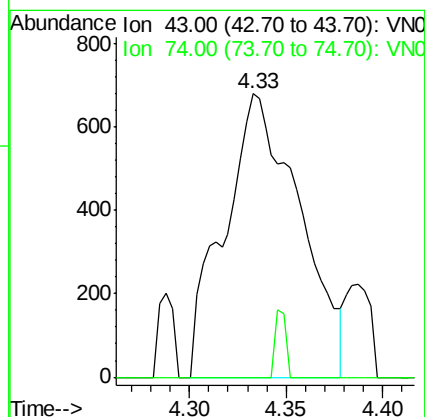
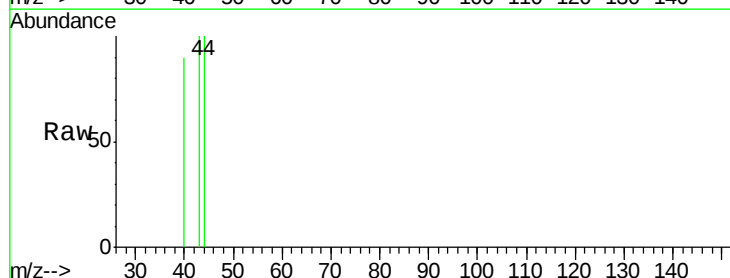
Acq: 21 Feb 2019 12:56

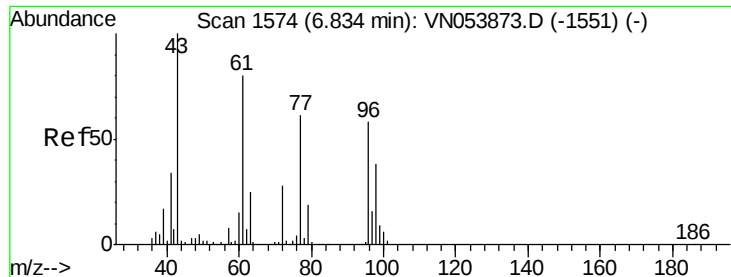
Tgt Ion: 43 Resp: 1840

Ion Ratio Lower Upper

43 100

74 3.3 20.5 30.7#

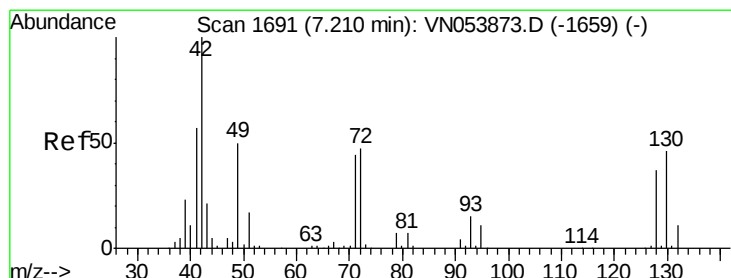
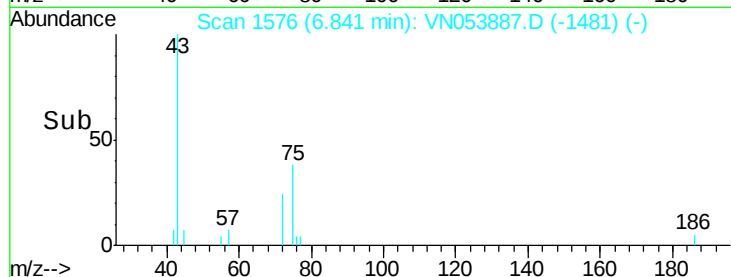
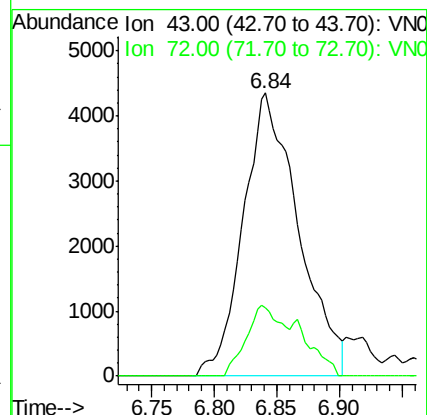
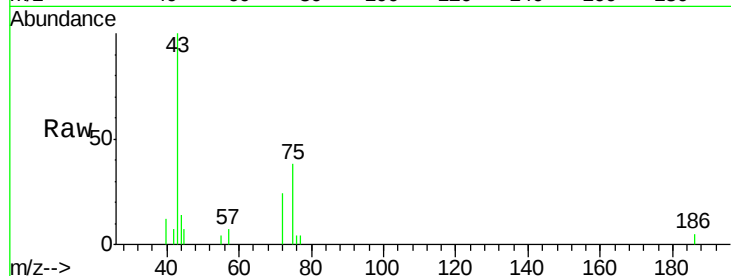




#25
2-Butanone
Concen: 5.893 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053887.D
Acq: 21 Feb 2019 12:56

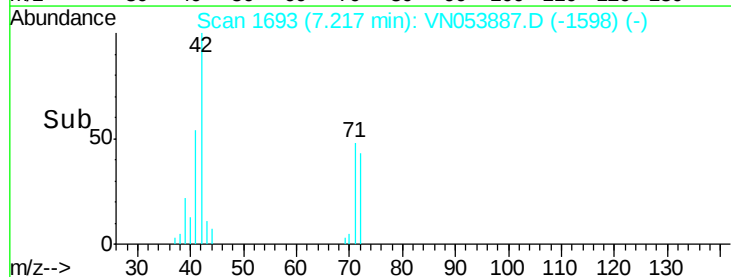
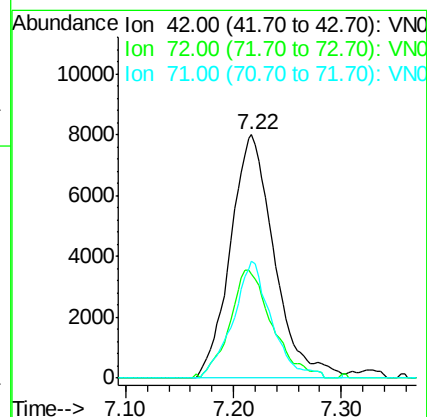
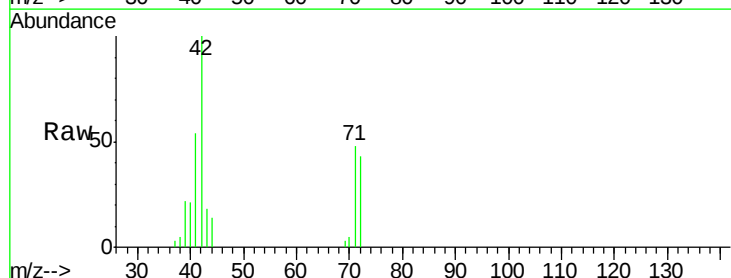
Instrument :
MSVOA_N
ClientSampleId :
M2-T3-OZ(PRE)

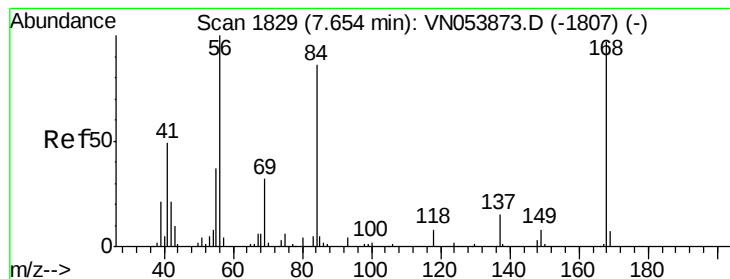
Tot Ion: 43 Resp: 13363
Ion Ratio Lower Upper
43 100
72 24.3 22.1 33.1



#29
Tetrahydrofuran
Concen: 15.400 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053887.D
Acq: 21 Feb 2019 12:56

Tgt Ion: 42 Resp: 22583
Ion Ratio Lower Upper
42 100
72 43.0 36.9 55.3
71 42.3 34.6 52.0





#31

Cyclohexane

Concen: 0.404 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

M2-T3-OZ(PRE)

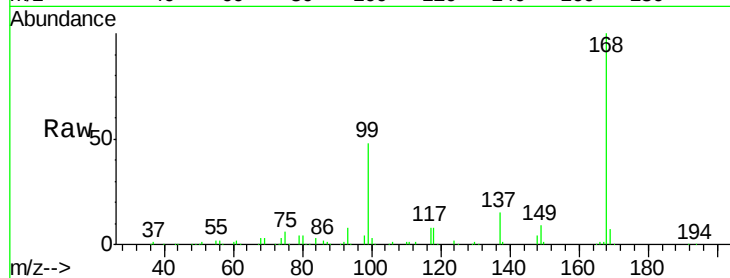
Tot Ion: 56 Resp: 9526

Ion Ratio Lower Upper

56 100

69 178.2 26.0 39.0#

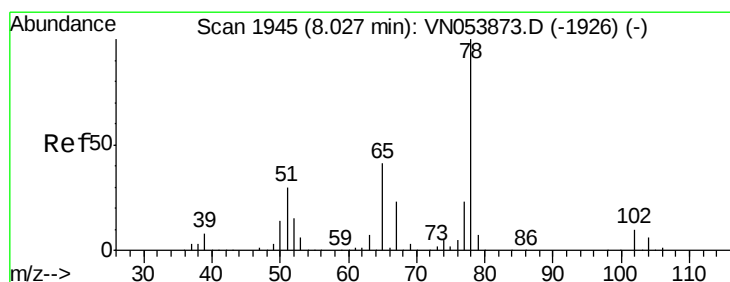
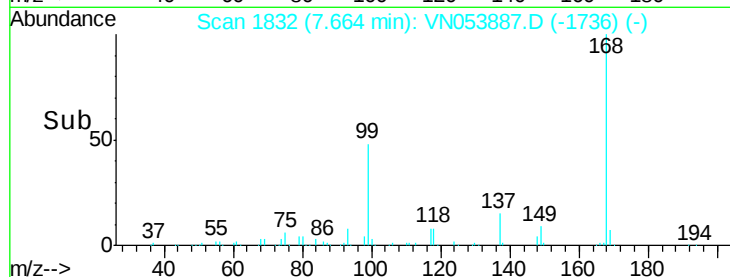
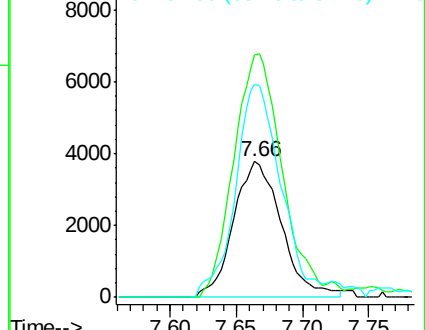
84 156.7 69.1 103.7#



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: 51.811 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053887.D

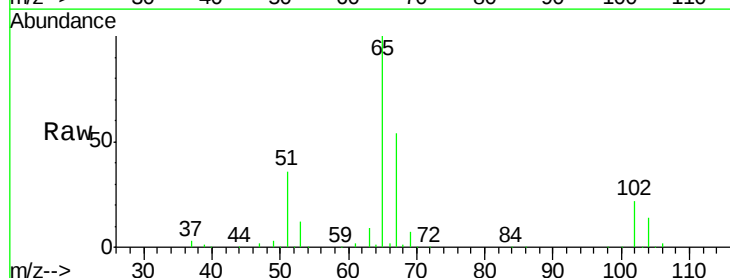
Acq: 21 Feb 2019 12:56

Tgt Ion: 65 Resp: 331037

Ion Ratio Lower Upper

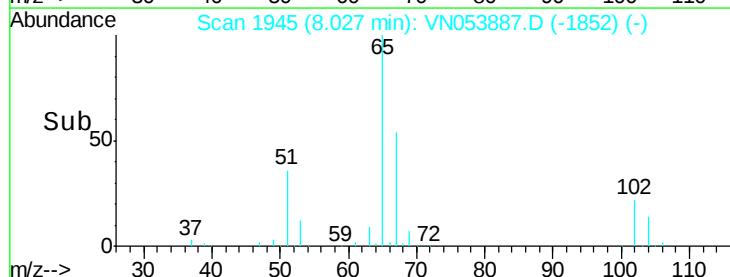
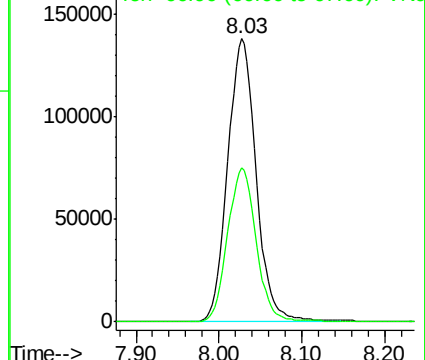
65 100

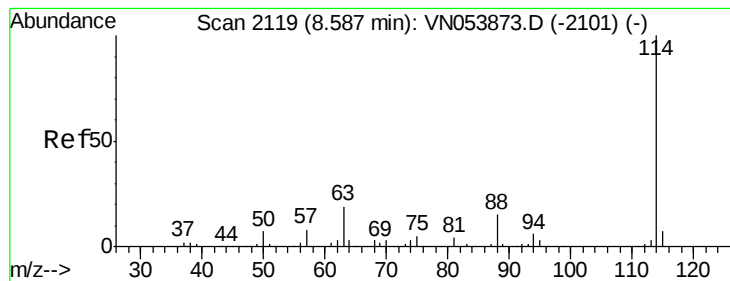
67 54.1 0.0 111.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

M2-T3-OZ(PRE)

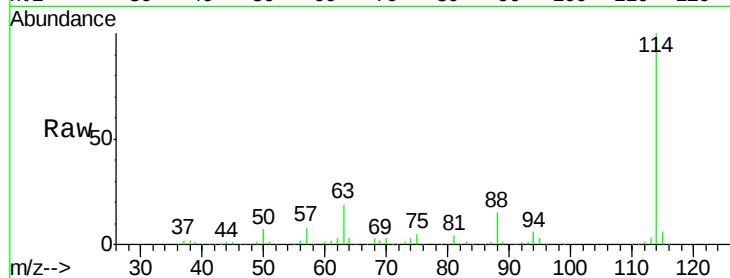
Tot Ion:114 Resp: 1052411

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.4

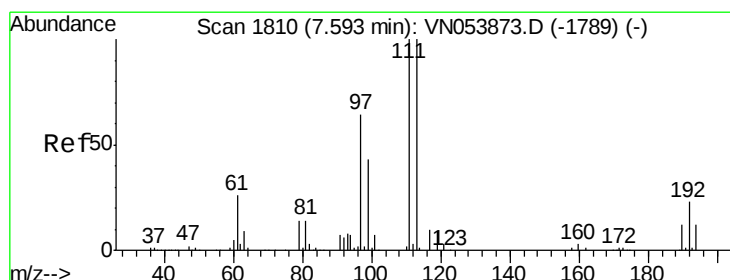
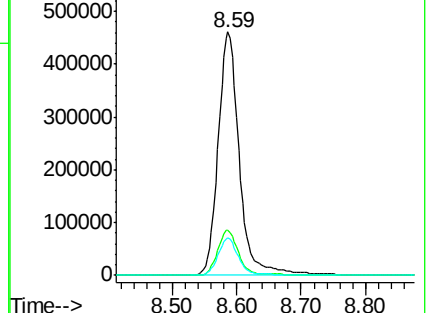
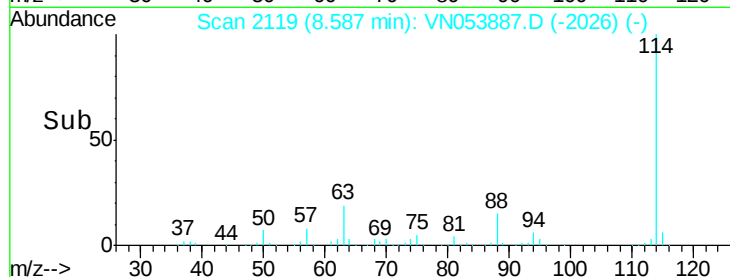
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 47.791 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

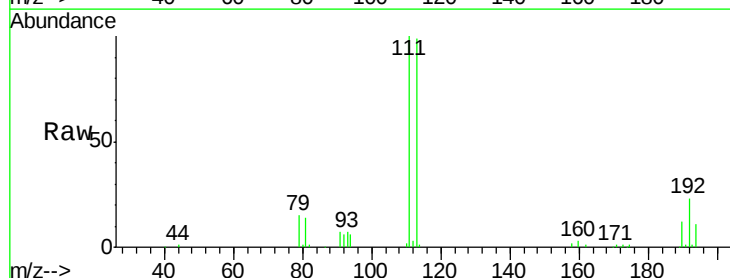
Tgt Ion:113 Resp: 330081

Ion Ratio Lower Upper

113 100

111 101.5 81.1 121.7

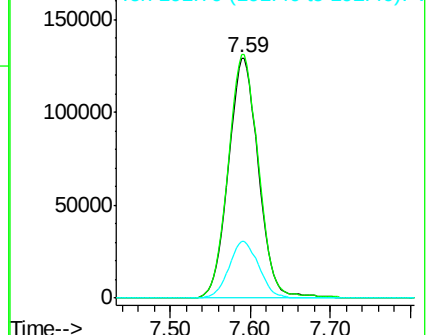
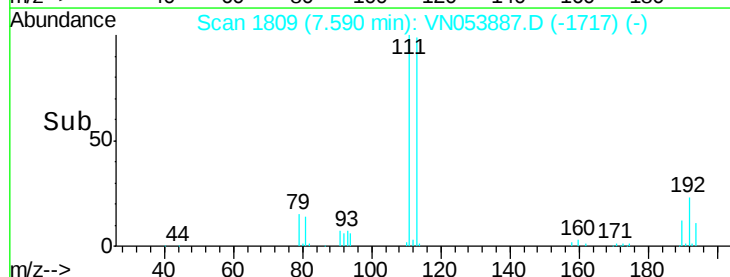
192 23.5 18.8 28.2

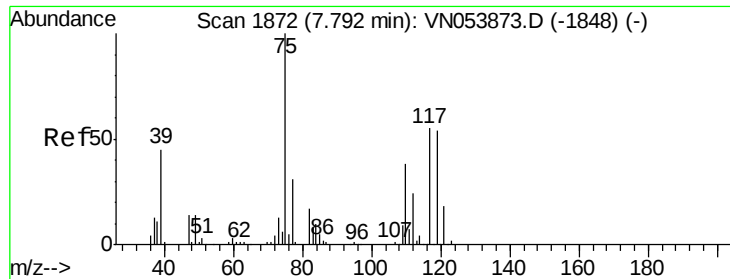


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.801 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

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M2-T3-OZ(PRE)

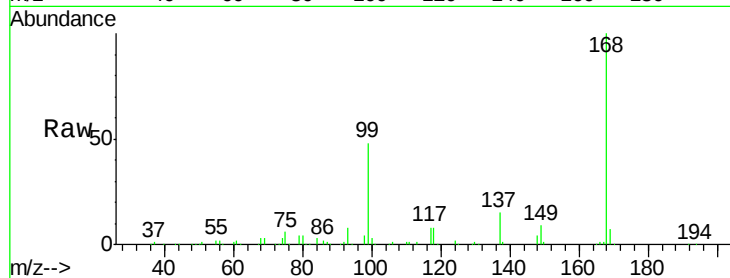
Tot Ion: 75 Resp: 36664

Ion Ratio Lower Upper

75 100

110 8.7 19.0 57.0#

77 0.0 25.4 38.0#

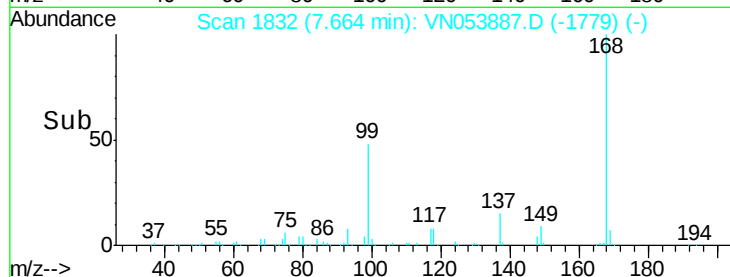


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Time-->



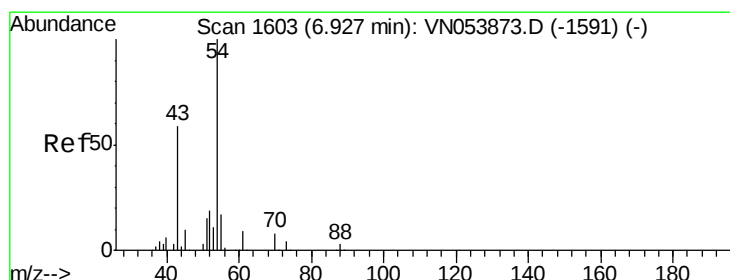
Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Time-->



#37

Ethyl Acetate

Concen: 2.510 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. -0.09 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

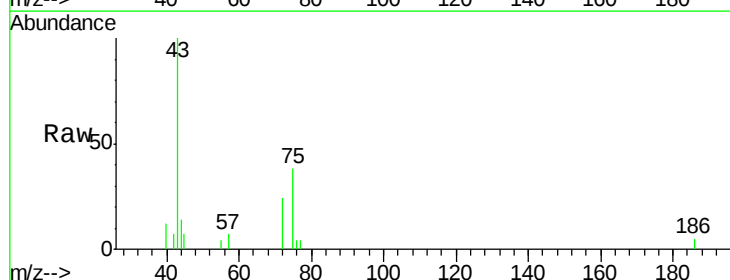
Tgt Ion: 43 Resp: 13363

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

70 0.0 8.7 13.1#

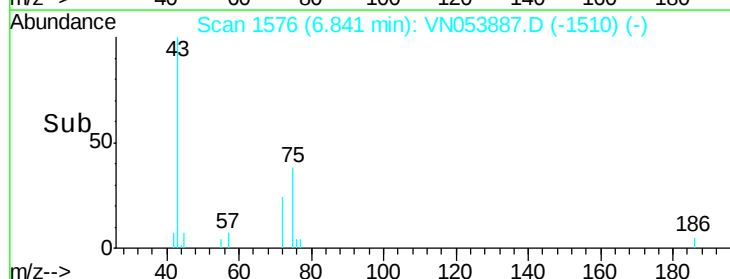


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

Time-->



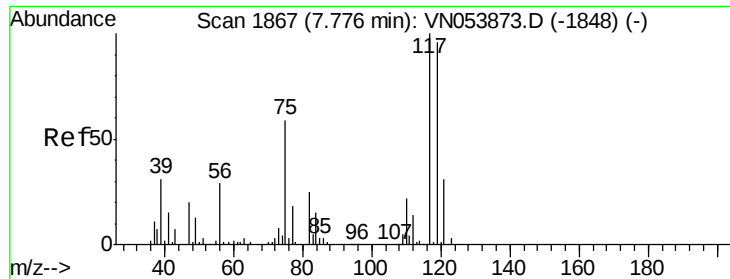
Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

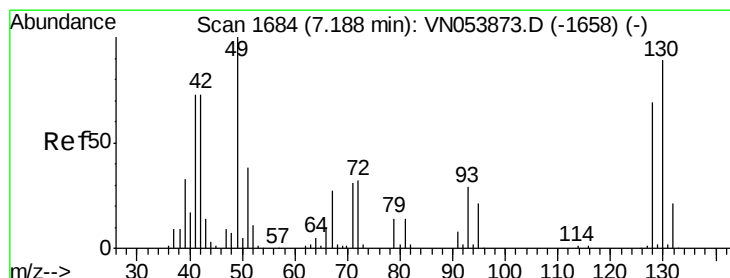
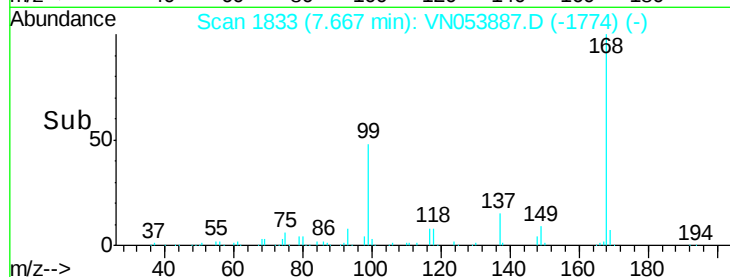
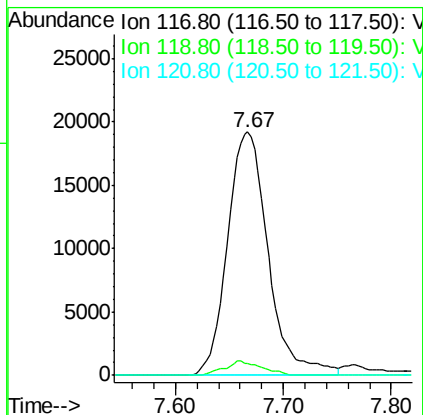
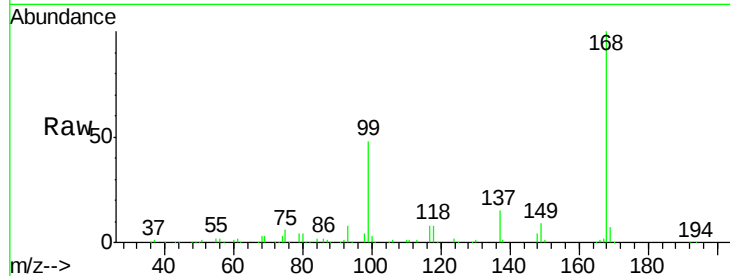
Time-->



#38
Carbon Tetrachloride
Concen: 5.230 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053887.D
Acq: 21 Feb 2019 12:56

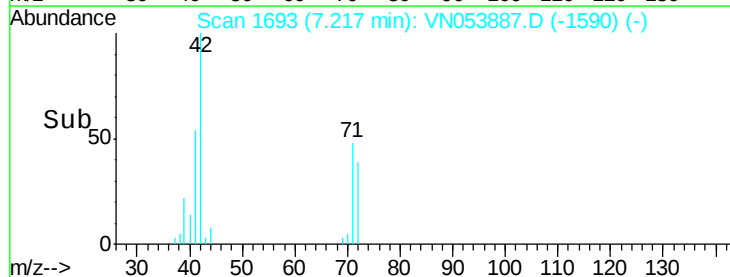
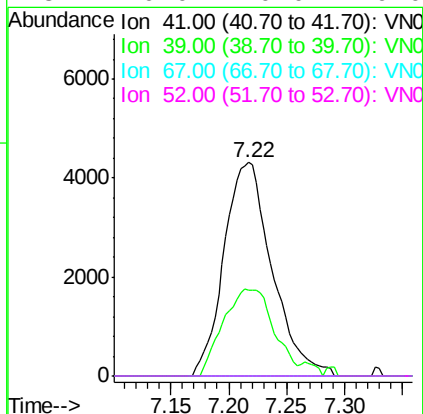
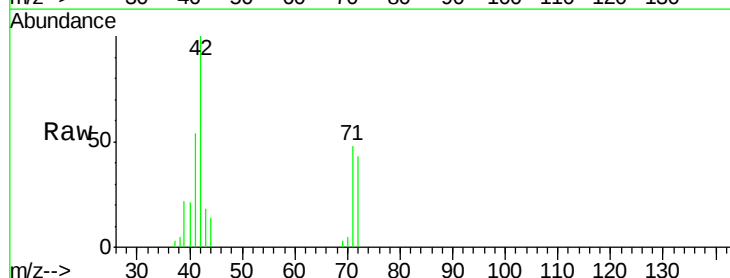
Instrument :
MSVOA_N
ClientSampleId :
M2-T3-OZ(PRE)

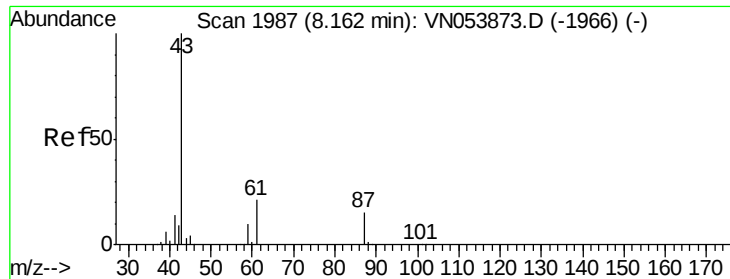
Tot Ion:117 Resp: 50395
Ion Ratio Lower Upper
117 100
119 4.7 76.2 114.2#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 3.702 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.03 min
Lab File: VN053887.D
Acq: 21 Feb 2019 12:56

Tgt Ion: 41 Resp: 12405
Ion Ratio Lower Upper
41 100
39 42.7 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



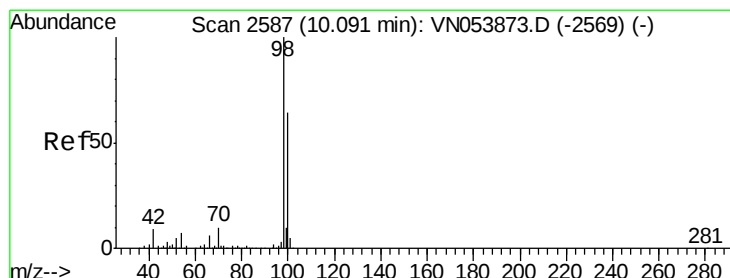
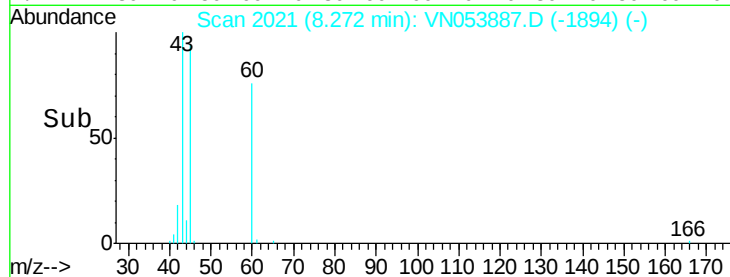
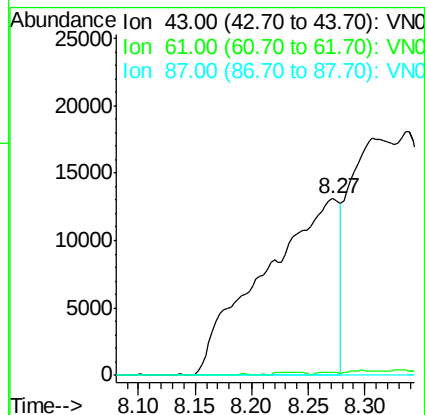
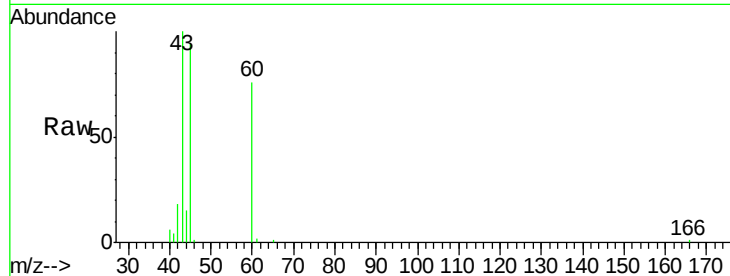


#43

Isopropyl Acetate
 Concen: 5.878 ug/l
 RT: 8.27 min Scan# 2021
 Delta R.T. 0.11 min
 Lab File: VN053887.D
 Acq: 21 Feb 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 M2-T3-OZ(PRE)

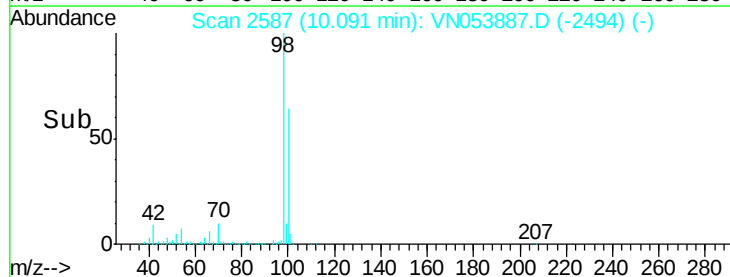
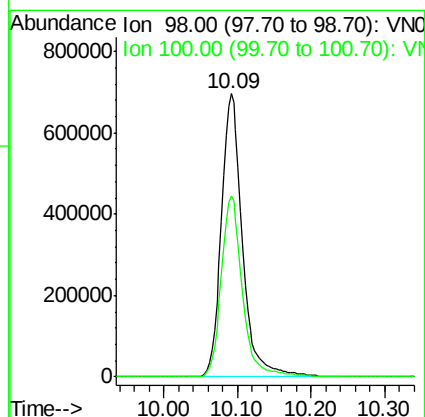
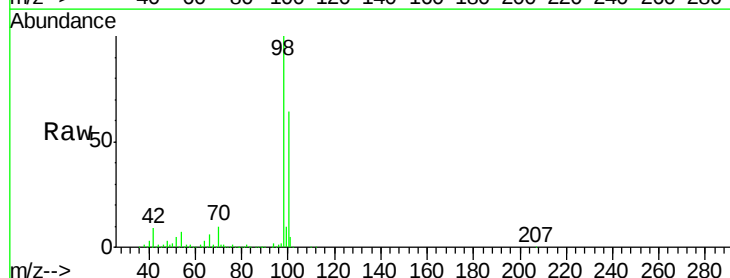
Tot Ion: 43 Resp: 60482
 Ion Ratio Lower Upper
 43 100
 61 0.5 17.4 26.0#
 87 0.0 11.5 17.3#

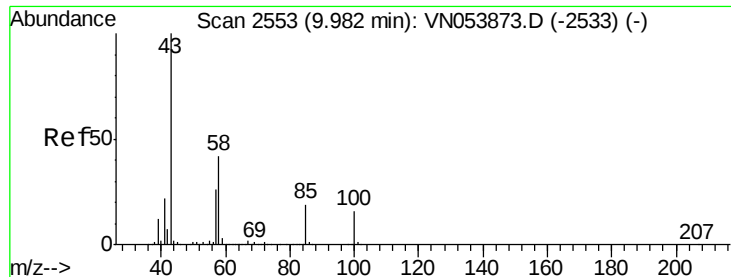


#50

Toluene-d8
 Concen: 55.397 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN053887.D
 Acq: 21 Feb 2019 12:56

Tgt Ion: 98 Resp: 1381921
 Ion Ratio Lower Upper
 98 100
 100 64.2 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 6.580 ug/l

RT: 10.00 min Scan# 2559

Delta R.T. 0.02 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

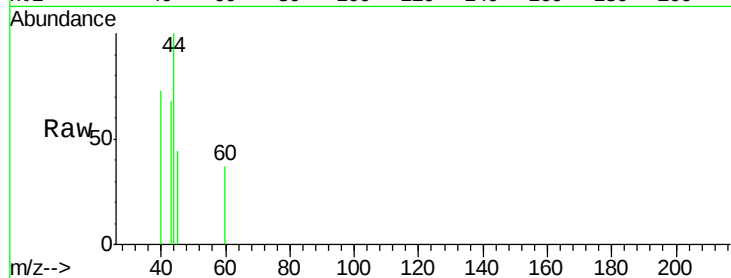
M2-T3-OZ(PRE)

Tot Ion: 43 Resp: 320

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.00

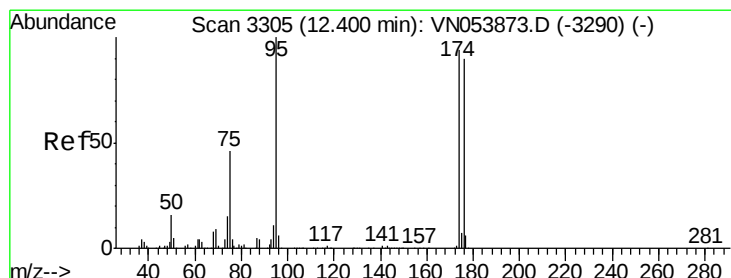
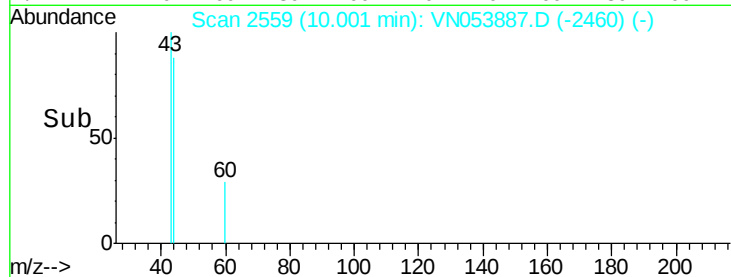
600

400

200

0

Time--> 9.98 10.00 10.02 10.04



#62

4-Bromofluorobenzene

Concen: 54.018 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

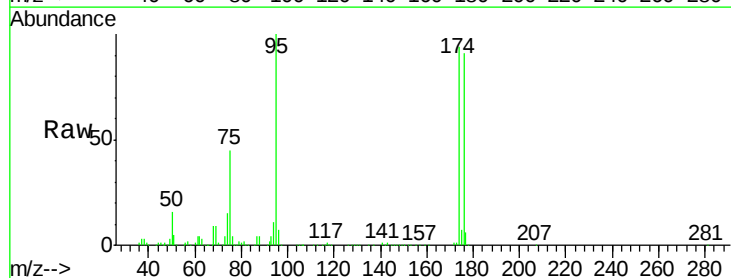
Tgt Ion: 95 Resp: 444870

Ion Ratio Lower Upper

95 100

174 95.6 0.0 188.8

176 91.7 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

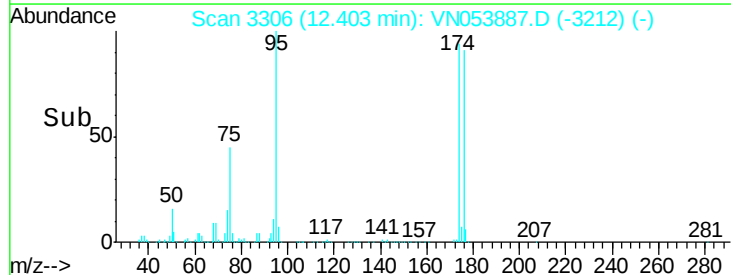
300000

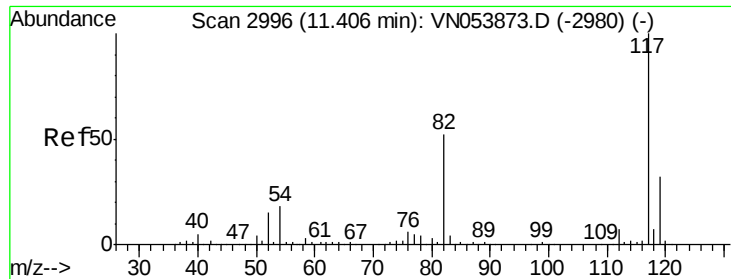
200000

100000

0

Time--> 12.30 12.40 12.50

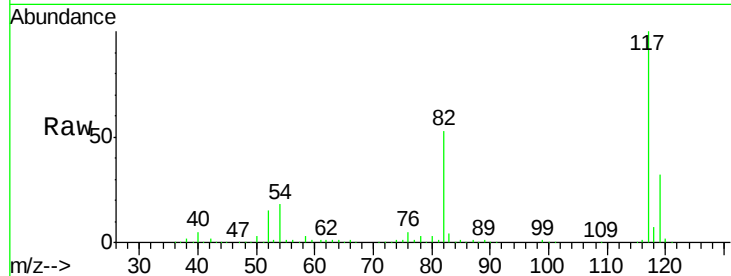




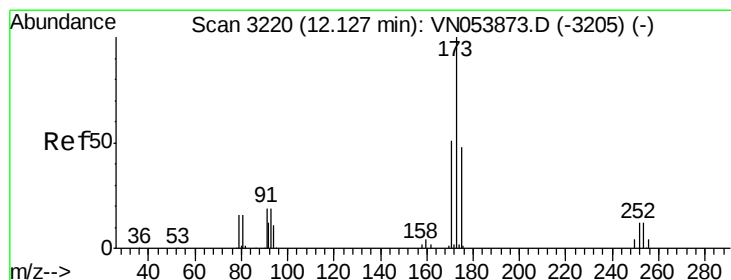
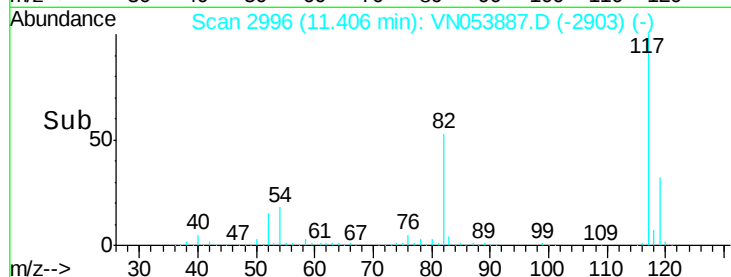
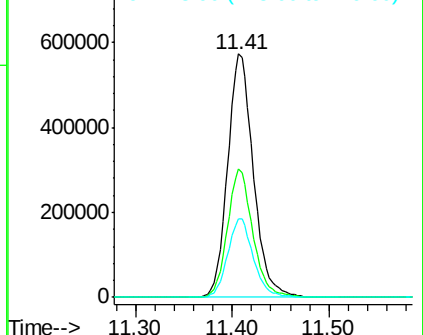
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053887.D
Acq: 21 Feb 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
M2-T3-OZ(PRE)

Tot Ion:117 Resp: 1058359
Ion Ratio Lower Upper
117 100
82 52.5 41.4 62.2
119 32.3 25.3 37.9

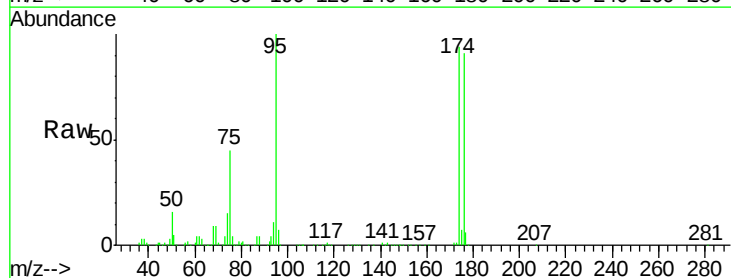


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

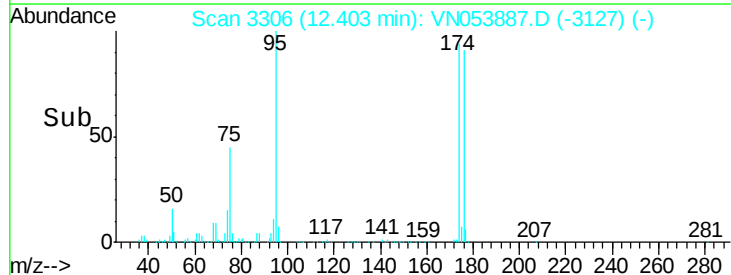
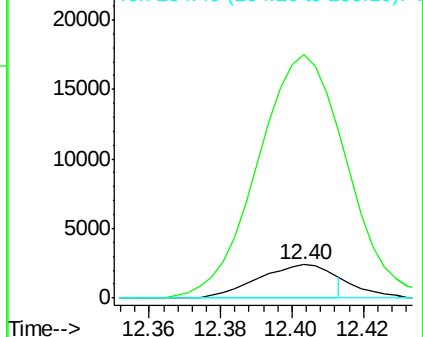


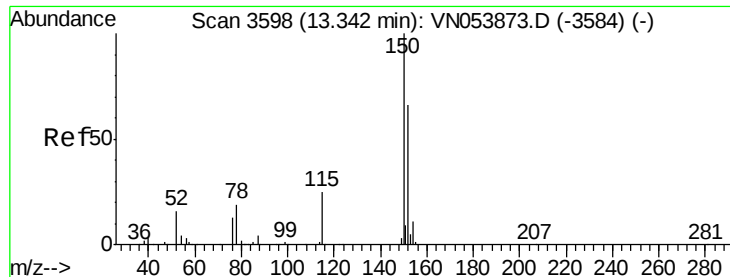
#71
Bromoform
Concen: 0.598 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053887.D
Acq: 21 Feb 2019 12:56

Tgt Ion:173 Resp: 3429
Ion Ratio Lower Upper
173 100
175 743.8 24.3 72.8#
254 0.0 0.2 0.2#



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: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

M2-T3-OZ(PRE)

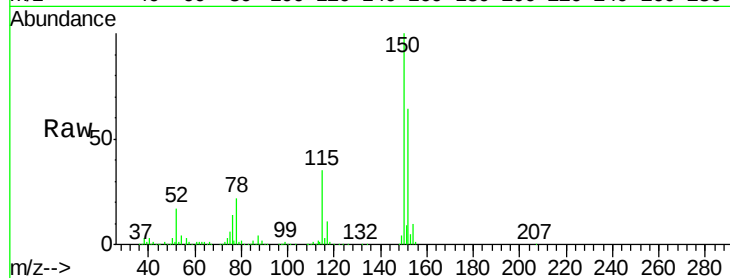
Tot Ion:152 Resp: 374868

Ion Ratio Lower Upper

152 100

115 54.0 27.2 81.6

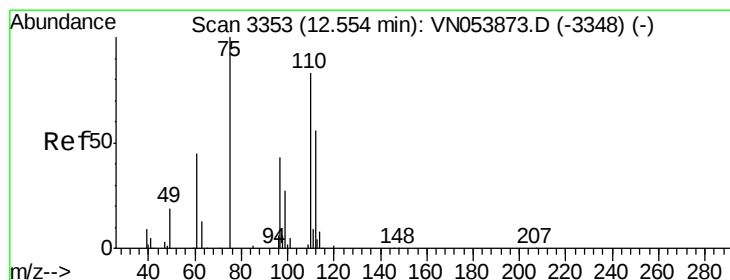
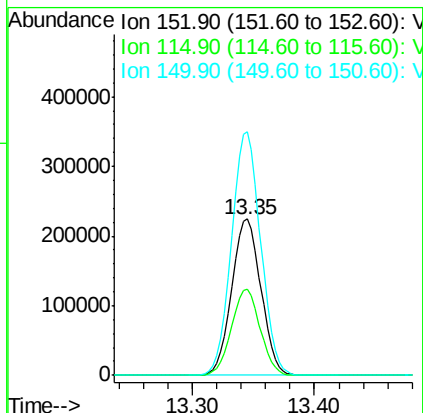
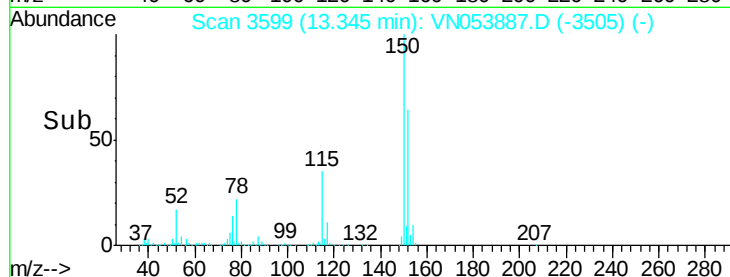
150 155.2 0.0 348.2



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: 37.060 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053887.D

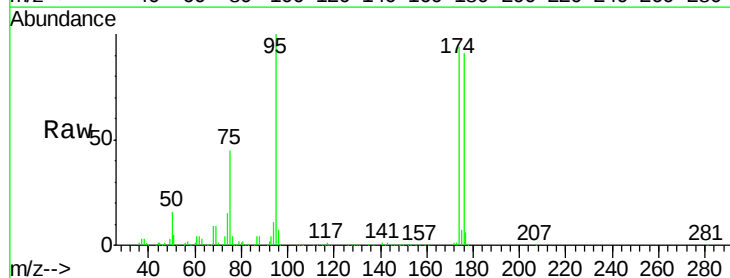
Acq: 21 Feb 2019 12:56

Tgt Ion: 75 Resp: 203945

Ion Ratio Lower Upper

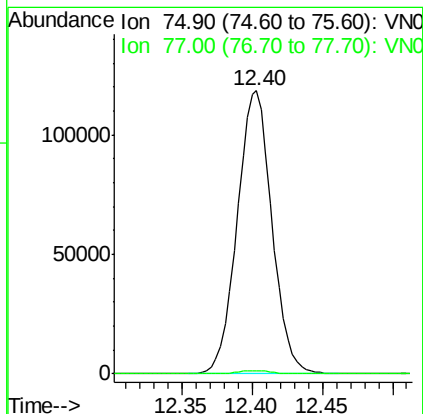
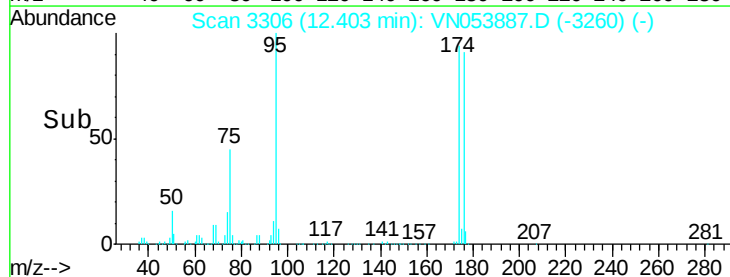
75 100

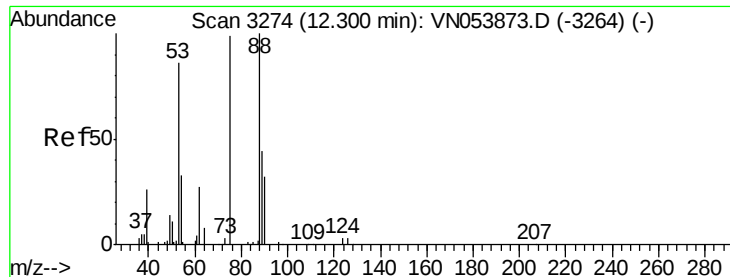
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 122.346 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

M2-T3-OZ(PRE)

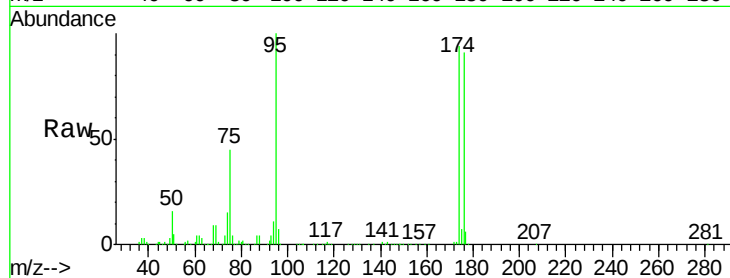
Tot Ion: 75 Resp: 203945

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

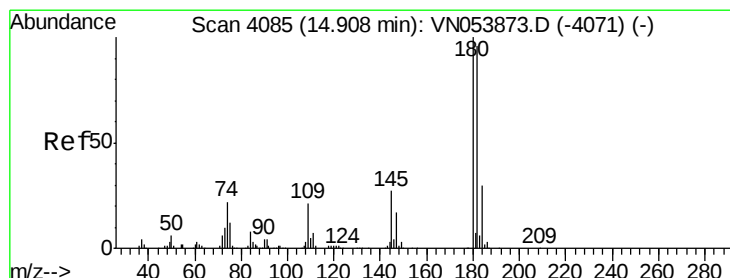
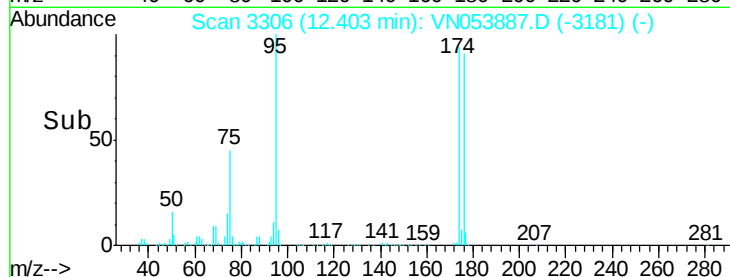
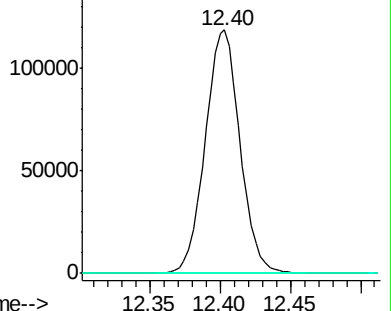
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN053887.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN053887.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN053887.D (-3306) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.935 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053887.D

Acq: 21 Feb 2019 12:56

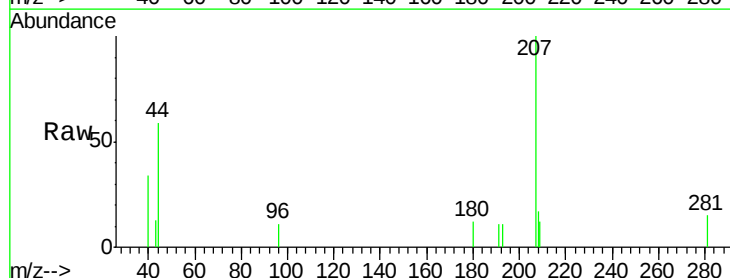
Tgt Ion: 180 Resp: 67

Ion Ratio Lower Upper

180 100

182 0.0 48.6 145.9#

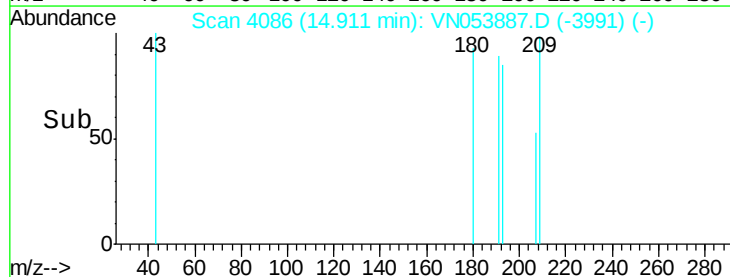
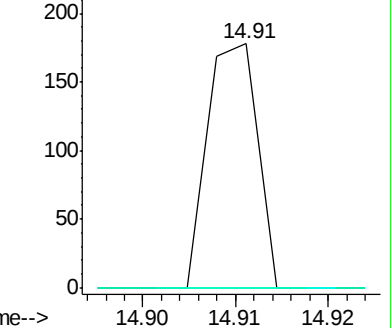
145 0.0 13.8 41.3#

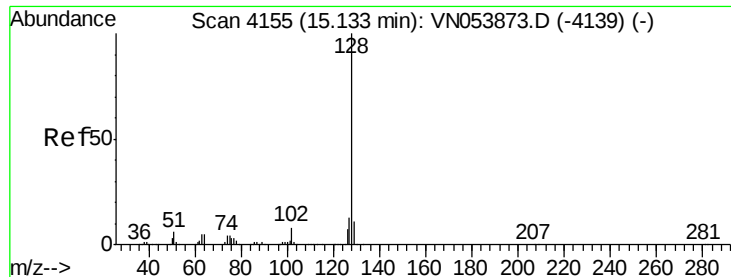


Abundance Ion 179.80 (179.50 to 180.50): VN053887.D (-4086) (-)

Ion 181.80 (181.50 to 182.50): VN053887.D (-4086) (-)

Ion 144.80 (144.50 to 145.50): VN053887.D (-4086) (-)





#95

Naphthalene

Concen: 4.622 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053887.D

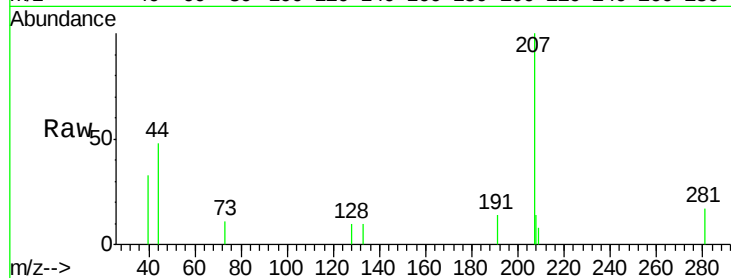
Acq: 21 Feb 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

M2-T3-OZ(PRE)



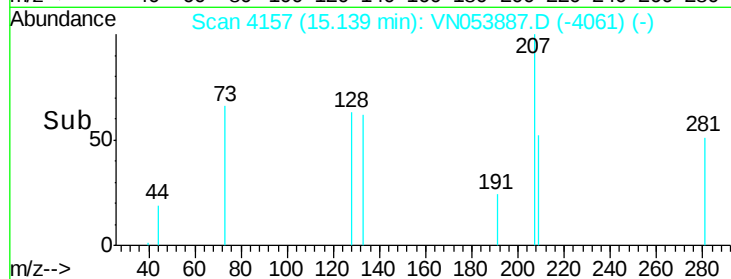
Tot Ion:128 Resp: 167

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

Time-->

15.12 15.14

15.14