

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022119\
 Data File : VN053886.D
 Acq On : 21 Feb 2019 12:29
 Operator : JC/SP
 Sample : K1540-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M2-T2-OZ(PRE)

Quant Time: Feb 22 00:35:47 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	637779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1083099	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1108311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	393598	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	339899	52.15	ug/l	0.00
Spiked Amount						
			Recovery	=	104.30%	
35) Dibromofluoromethane	7.59	113	345285	48.58	ug/l	0.00
Spiked Amount						
			Recovery	=	97.16%	
50) Toluene-d8	10.09	98	1307311	50.92	ug/l	0.00
Spiked Amount						
			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	12.40	95	476582	56.23	ug/l	0.00
Spiked Amount						
			Recovery	=	112.46%	

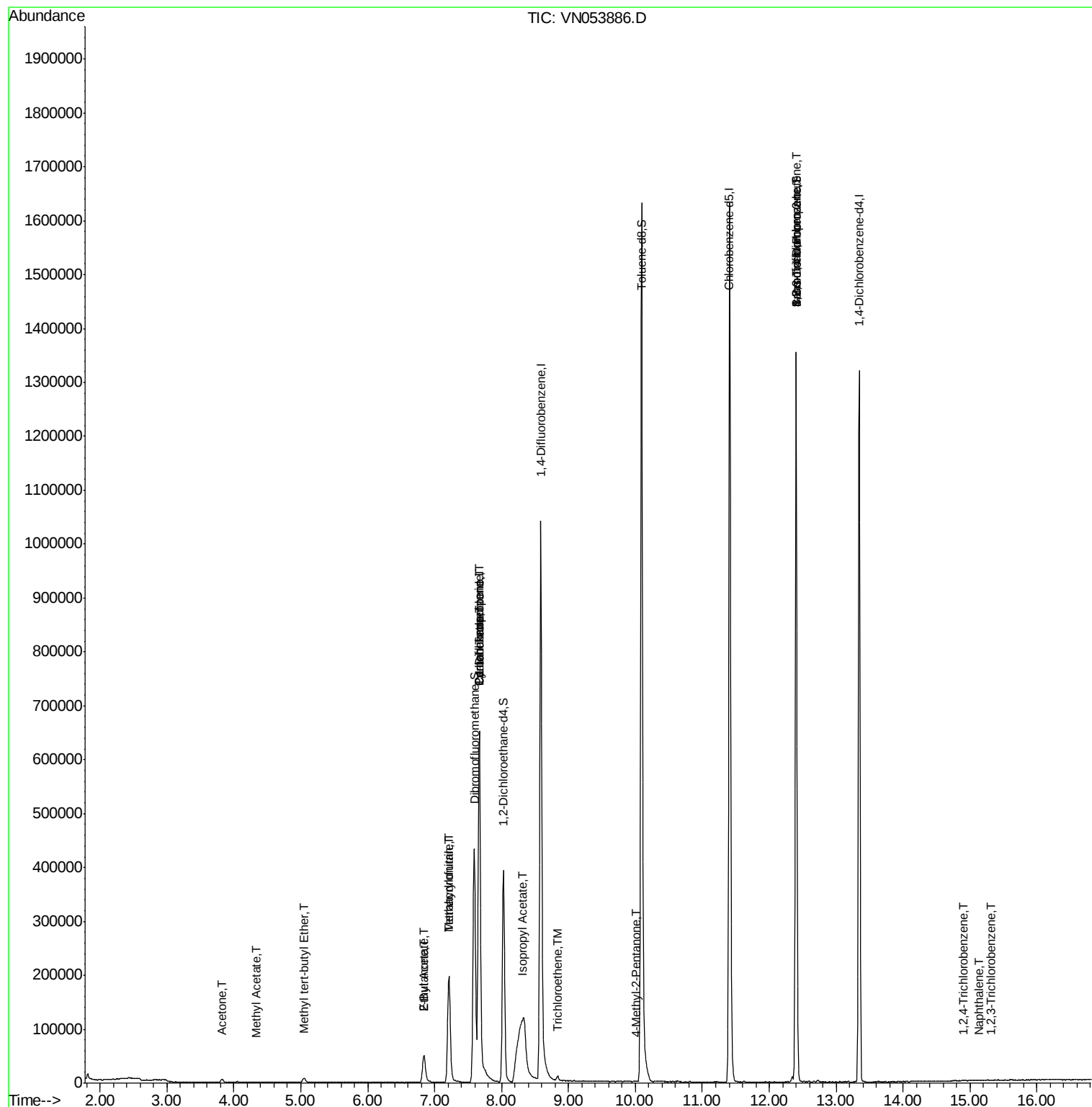
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	11985	6.686	ug/l	95
18) Methyl Acetate	4.34	43	1110	0.262	ug/l #	49
19) Methyl tert-butyl Ether	5.05	73	14039	0.935	ug/l	100
25) 2-Butanone	6.84	43	99542	43.034	ug/l	99
29) Tetrahydrofuran	7.21	42	172496	115.310	ug/l	99
31) Cyclohexane	7.66	56	9512	0.384	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	36301	3.656	ug/l #	48
37) Ethyl Acetate	6.84	43	99542	16.804	ug/l #	67
38) Carbon Tetrachloride	7.67	117	53616	5.407	ug/l #	16
41) Methacrylonitrile	7.21	41	95338	29.151	ug/l #	100
43) Isopropyl Acetate	8.30	43	192698	18.197	ug/l #	59
44) Trichloroethene	8.84	130	3722	0.453	ug/l	77
51) 4-Methyl-2-Pentanone	10.00	43	220	6.560	ug/l #	34
71) Bromoform	12.40	173	3209	0.534	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	215484	37.294	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	215484	123.117	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.90	180	65	2.935	ug/l #	11
95) Naphthalene	15.13	128	545	4.644	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.31	180	246	2.596	ug/l #	13

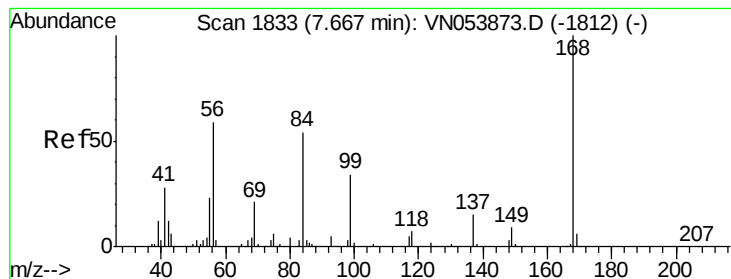
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

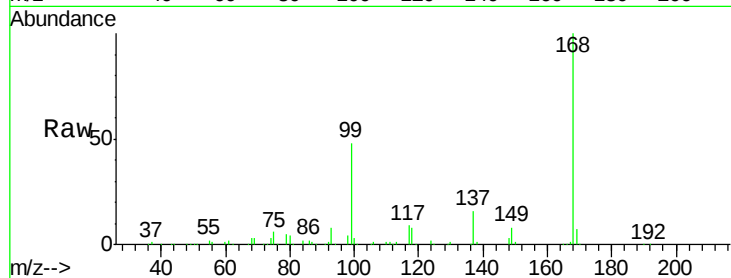
M2-T2-OZ(PRE)

Tot Ion:168 Resp: 637779

Ion Ratio Lower Upper

168 100

99 47.7 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

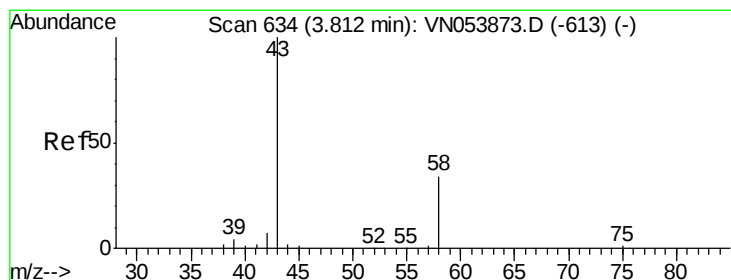
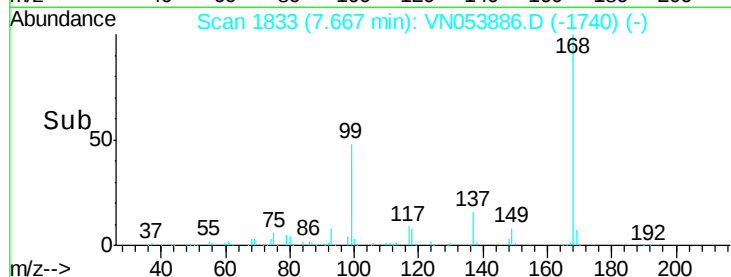
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 6.686 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053886.D

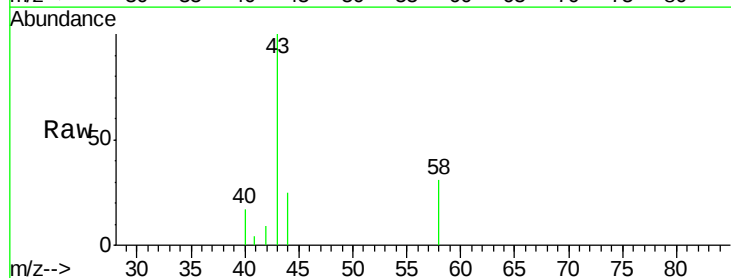
Acq: 21 Feb 2019 12:29

Tgt Ion: 43 Resp: 11985

Ion Ratio Lower Upper

43 100

58 31.4 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

4000

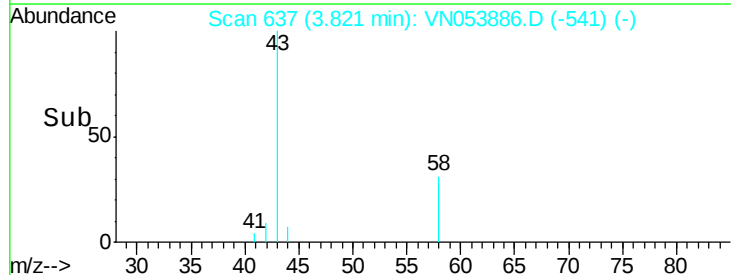
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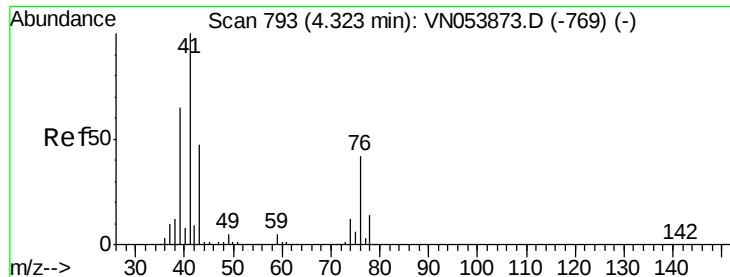
2000

1000

0

Time-->





#18

Methyl Acetate

Concen: 0.262 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

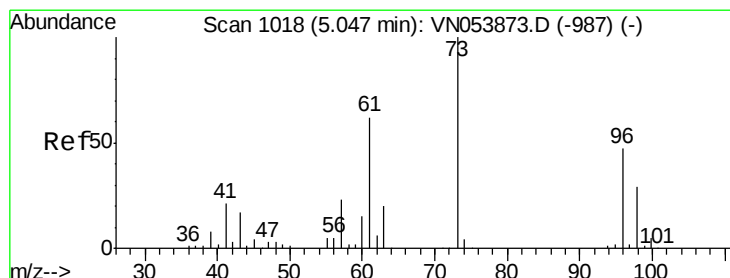
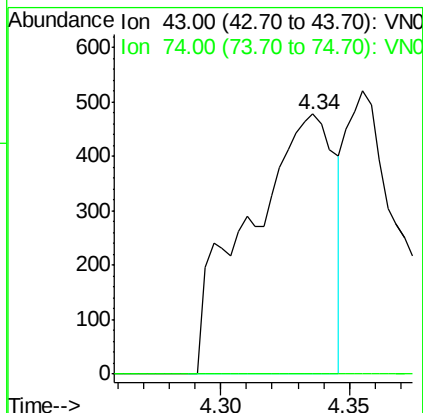
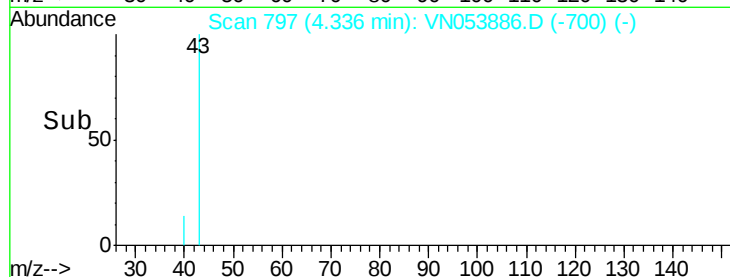
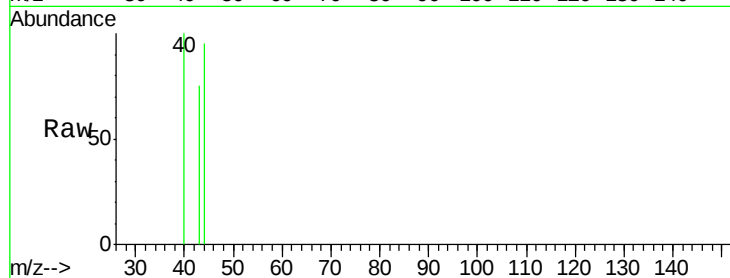
M2-T2-OZ(PRE)

Tot Ion: 43 Resp: 1110

Ion Ratio Lower Upper

43 100

74 0.0 20.5 30.7#



#19

Methyl tert-butyl Ether

Concen: 0.935 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN053886.D

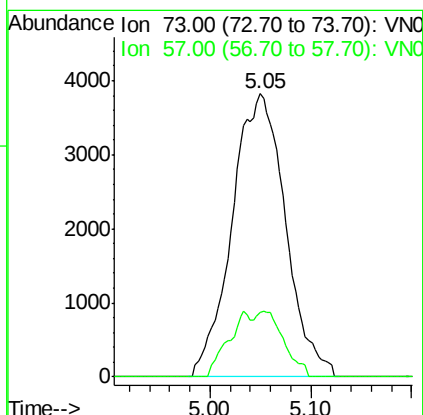
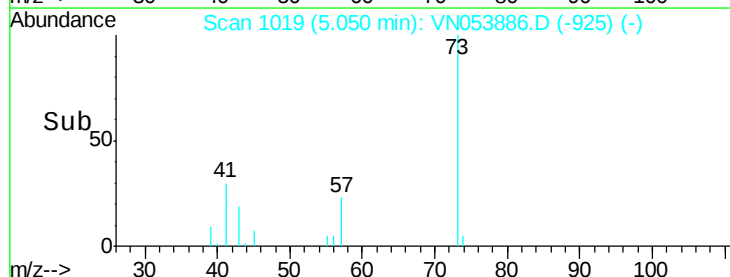
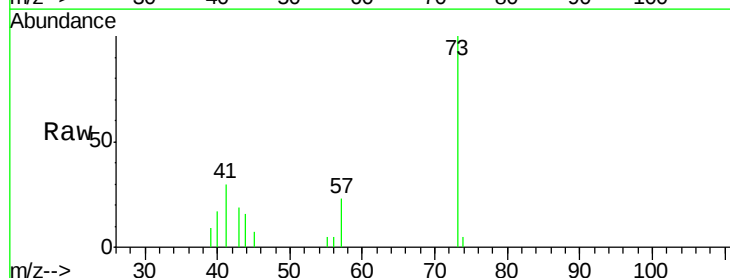
Acq: 21 Feb 2019 12:29

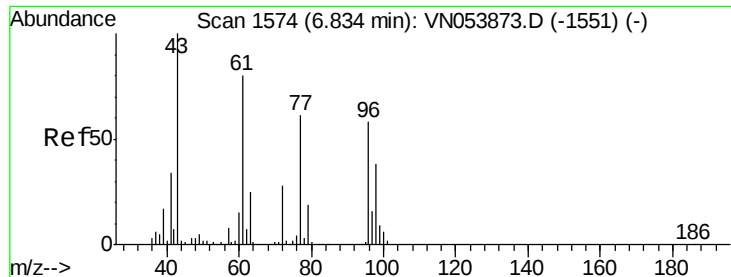
Tgt Ion: 73 Resp: 14039

Ion Ratio Lower Upper

73 100

57 22.7 18.0 27.0

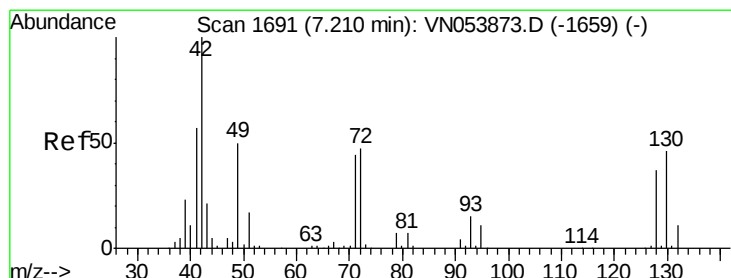
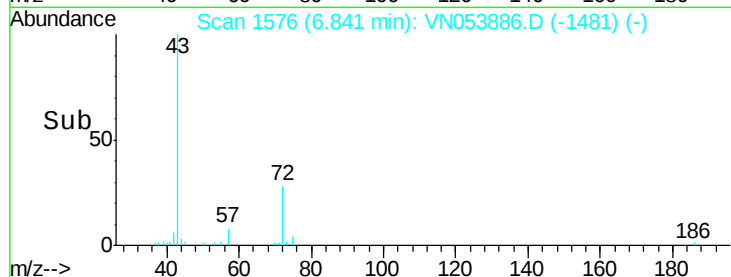
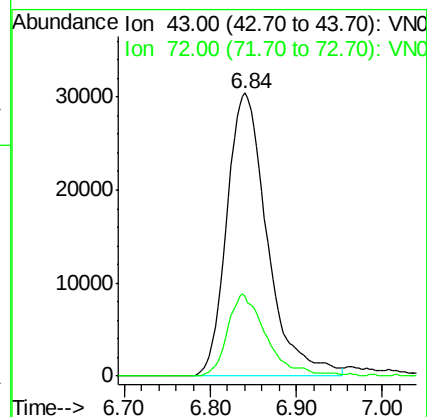
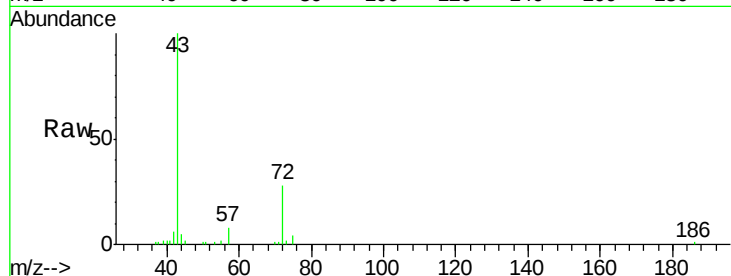




#25
2-Butanone
Concen: 43.034 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053886.D
Acq: 21 Feb 2019 12:29

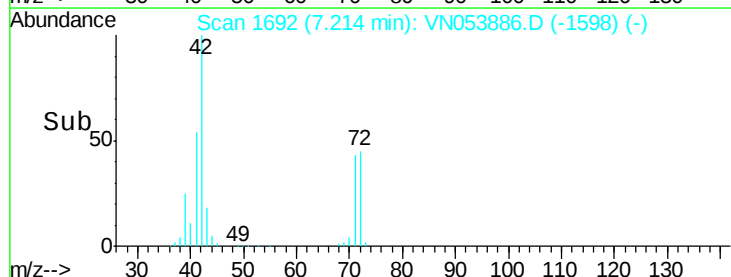
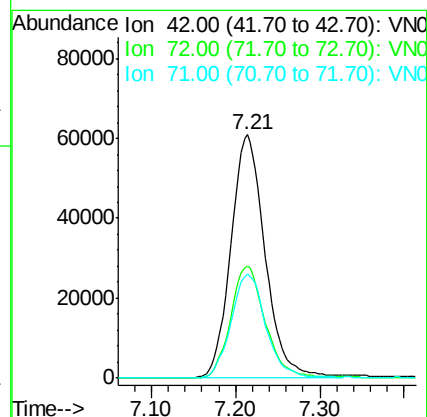
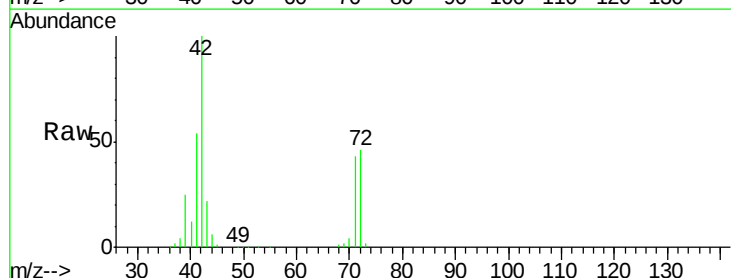
Instrument :
MSVOA_N
ClientSampleId :
M2-T2-OZ(PRE)

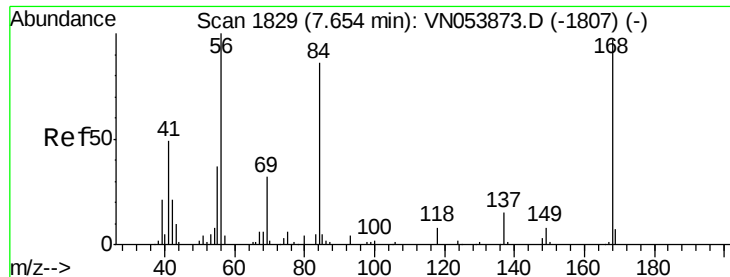
Tot Ion: 43 Resp: 99542
Ion Ratio Lower Upper
43 100
72 28.0 22.1 33.1



#29
Tetrahydrofuran
Concen: 115.310 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053886.D
Acq: 21 Feb 2019 12:29

Tgt Ion: 42 Resp: 172496
Ion Ratio Lower Upper
42 100
72 46.7 36.9 55.3
71 43.0 34.6 52.0





#31

Cyclohexane

Concen: 0.384 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

M2-T2-OZ(PRE)

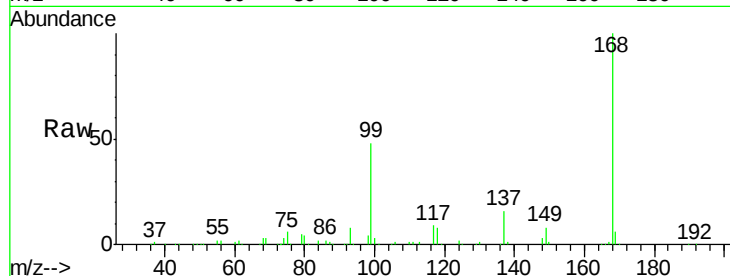
Tot Ion: 56 Resp: 9512

Ion Ratio Lower Upper

56 100

69 185.6 26.0 39.0#

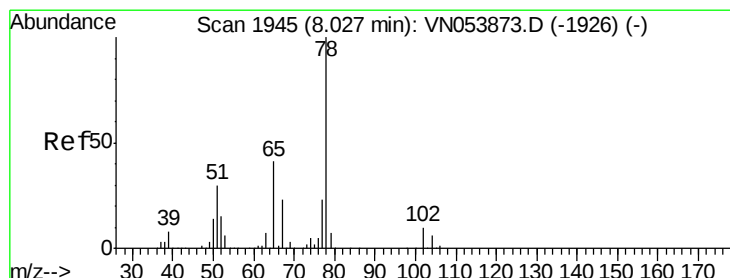
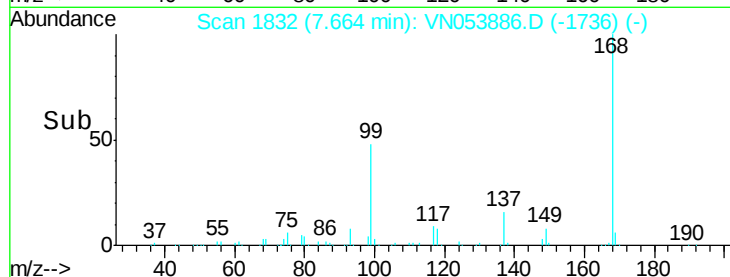
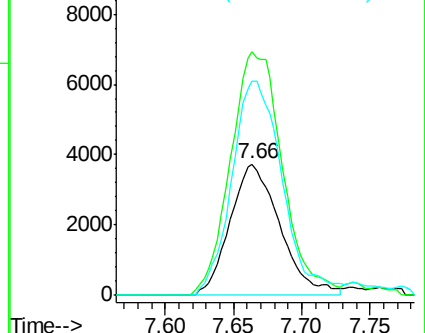
84 163.1 69.1 103.7#



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: 52.148 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053886.D

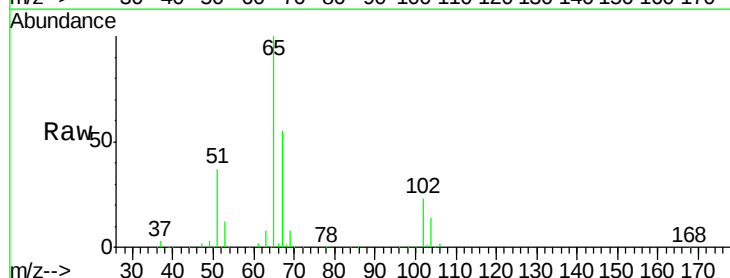
Acq: 21 Feb 2019 12:29

Tgt Ion: 65 Resp: 339899

Ion Ratio Lower Upper

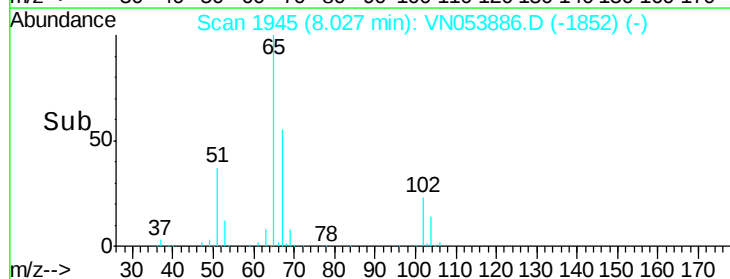
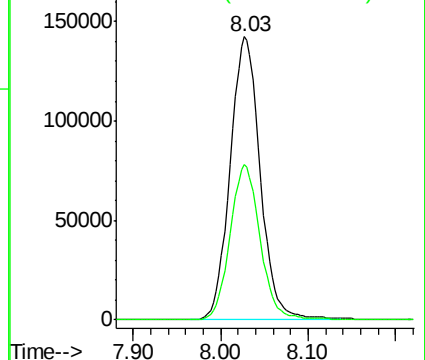
65 100

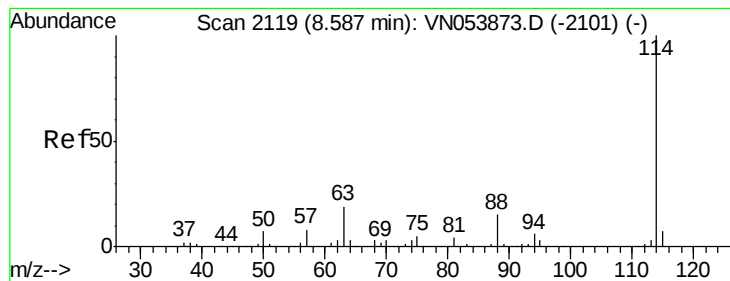
67 54.4 0.0 111.8



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: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

M2-T2-OZ(PRE)

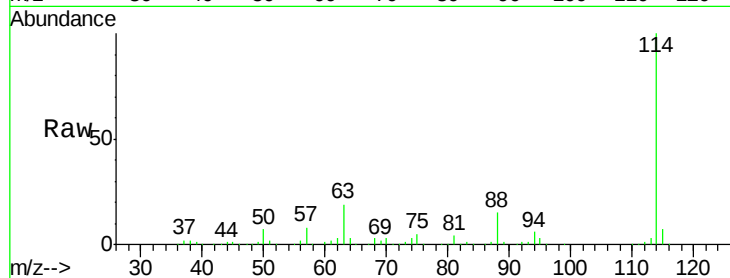
Tot Ion:114 Resp: 1083099

Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.4

88 15.0 0.0 30.4



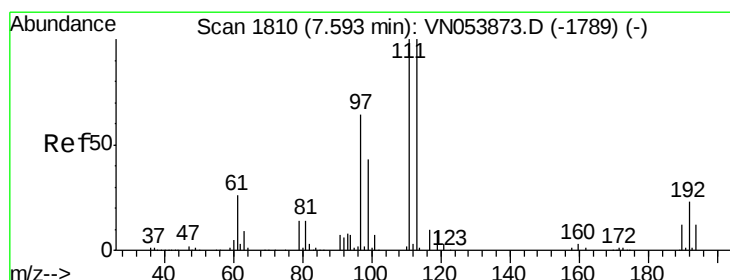
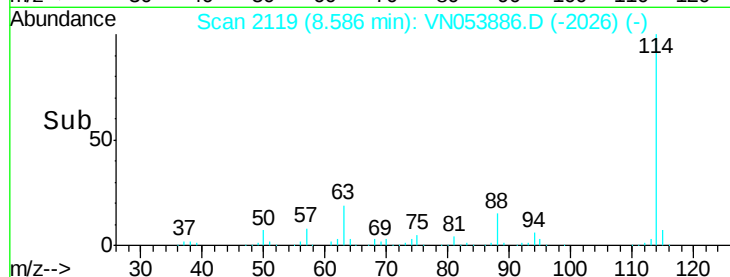
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN

8.59

Time-->



#35

Dibromofluoromethane

Concen: 48.576 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

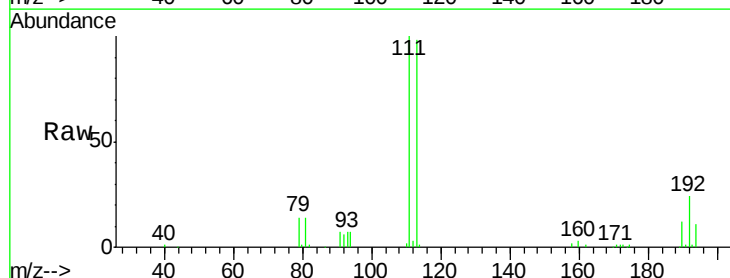
Tgt Ion:113 Resp: 345285

Ion Ratio Lower Upper

113 100

111 100.1 81.1 121.7

192 23.6 18.8 28.2



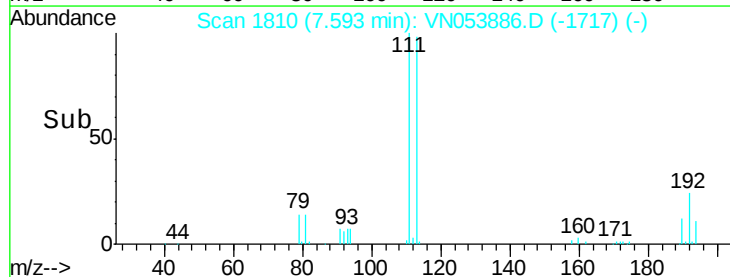
Abundance Ion 112.80 (112.50 to 113.50): V

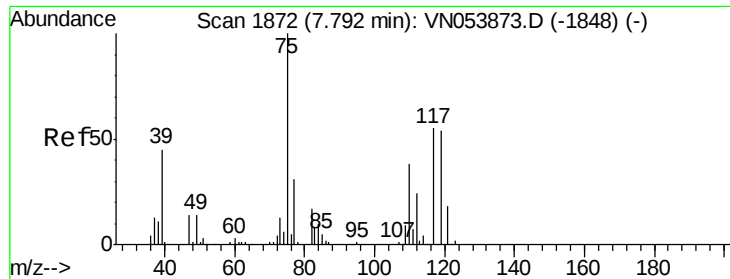
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.59

Time-->

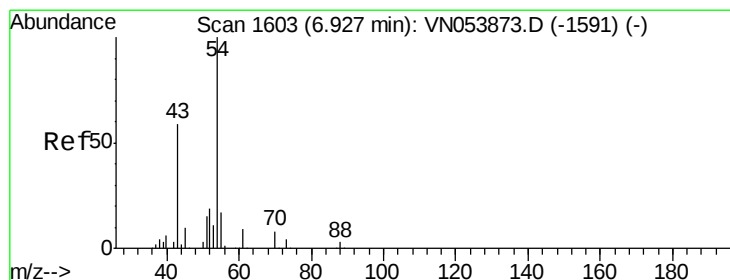
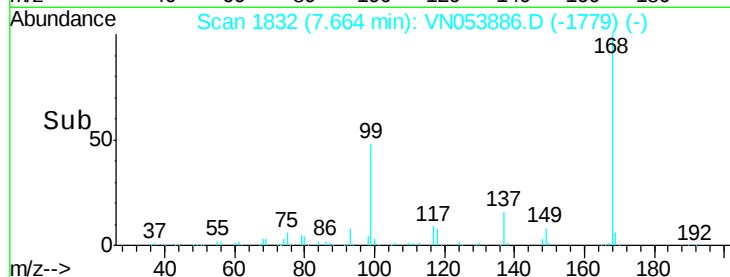
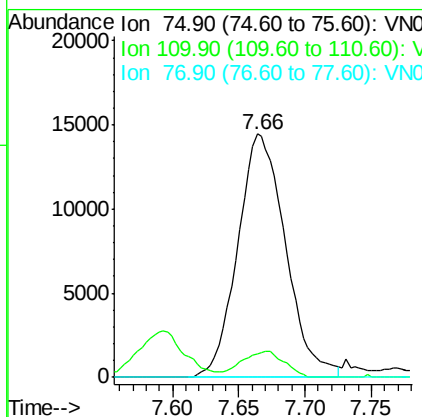
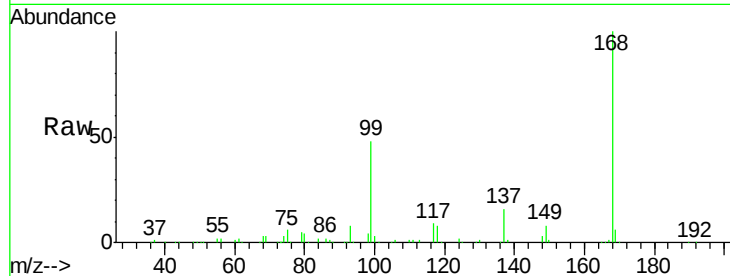




#36
 1,1-Dichloropropene
 Concen: 3.656 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053886.D
 Acq: 21 Feb 2019 12:29

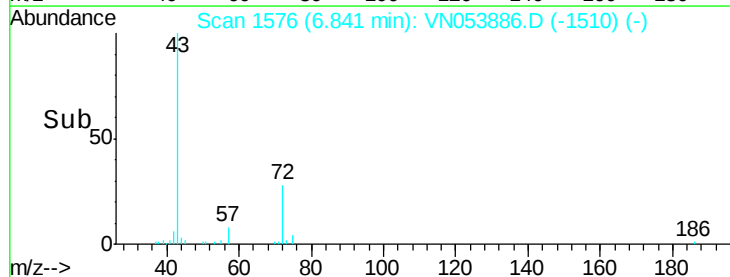
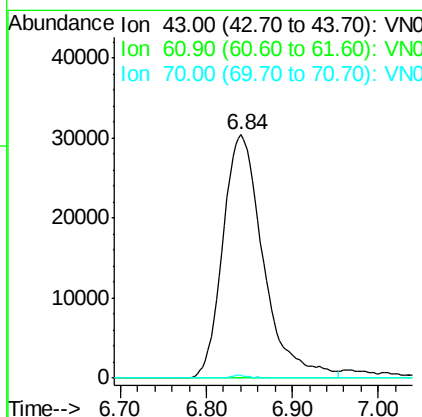
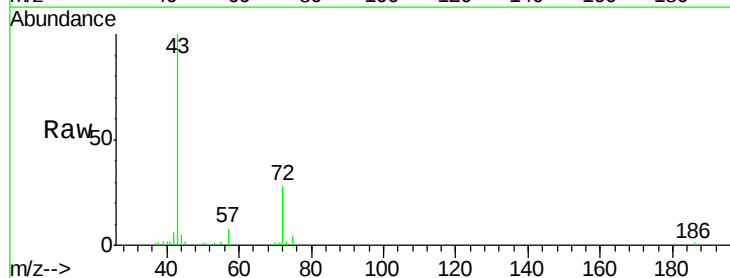
Instrument :
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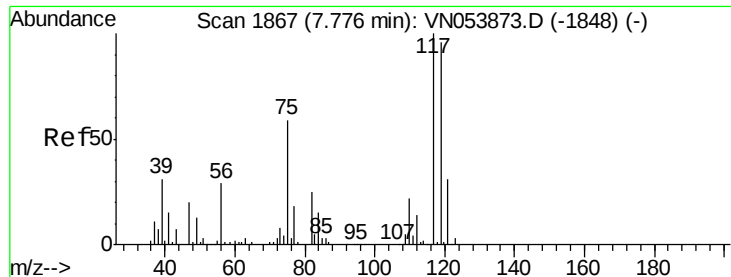
Tot Ion	75	Resp	36301
Ion Ratio	Lower	Upper	
75	100		
110	9.4	19.0	57.0#
77	0.0	25.4	38.0#



#37
 Ethyl Acetate
 Concen: 16.804 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.09 min
 Lab File: VN053886.D
 Acq: 21 Feb 2019 12:29

Tgt Ion	43	Resp	99542
Ion Ratio	Lower	Upper	
43	100		
61	0.0	12.0	18.0#
70	0.4	8.7	13.1#





#38

Carbon Tetrachloride

Concen: 5.407 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

M2-T2-OZ(PRE)

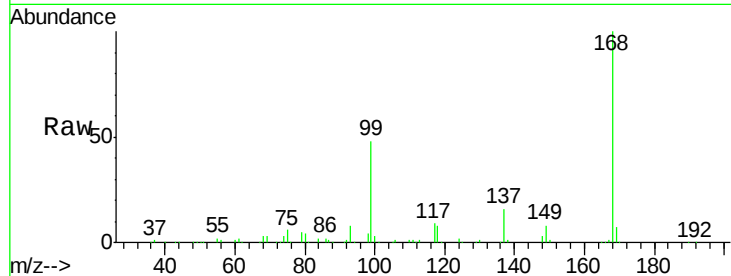
Tot Ion:117 Resp: 53616

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

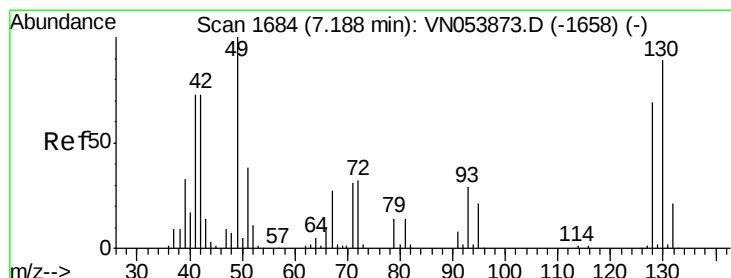
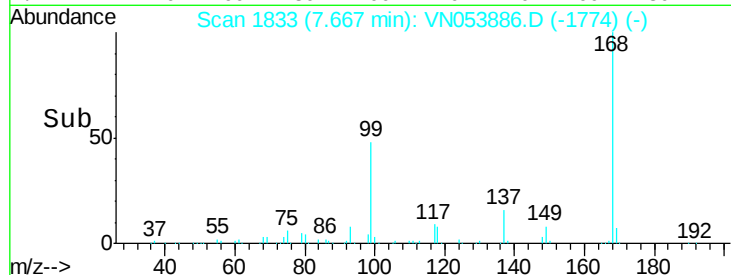
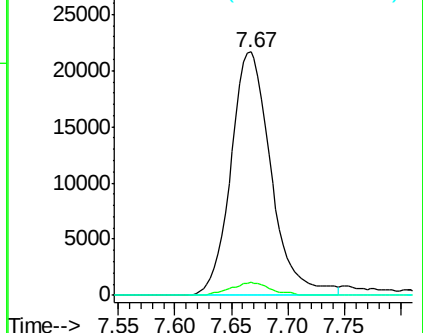
121 0.0 24.6 36.8#



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: 29.151 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.02 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

Tgt Ion: 41 Resp: 95338

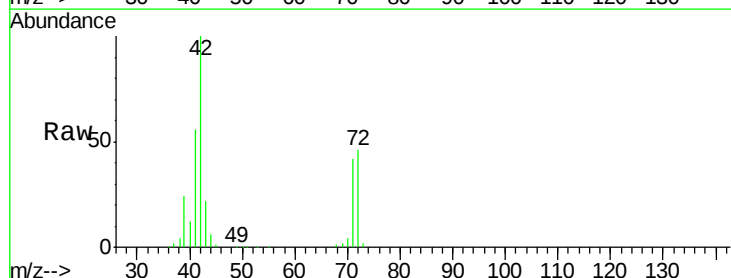
Ion Ratio Lower Upper

41 100

39 43.5 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

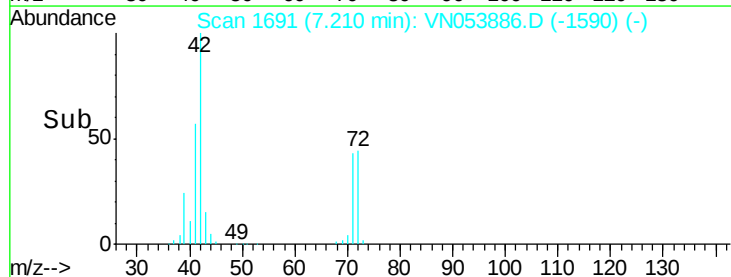
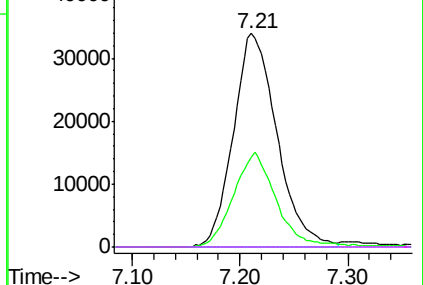


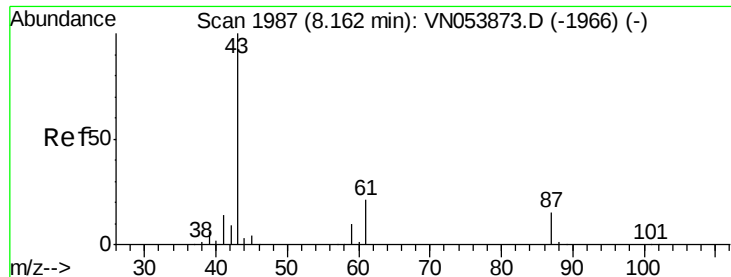
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 18.197 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

M2-T2-OZ(PRE)

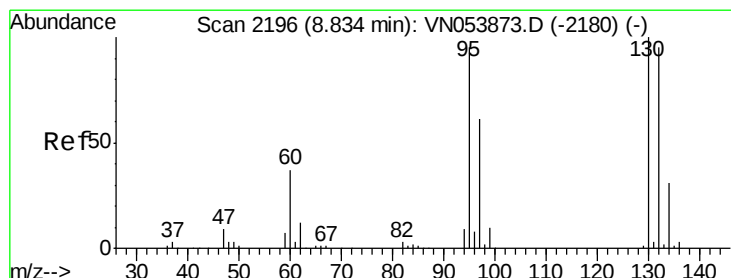
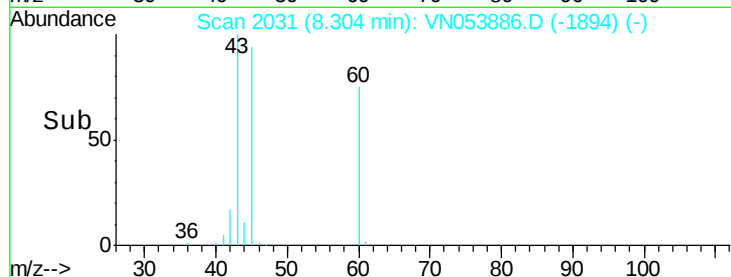
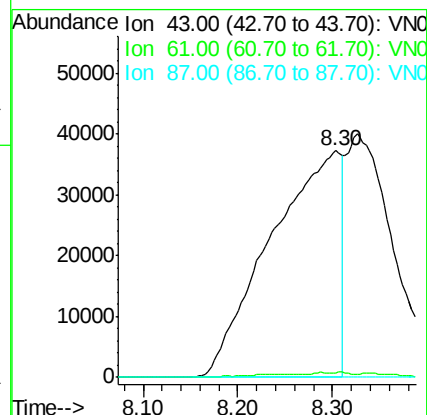
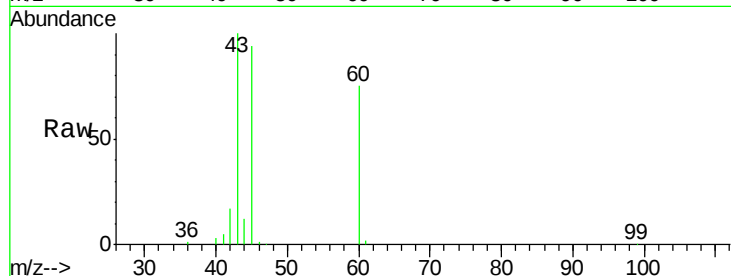
Tot Ion: 43 Resp: 192698

Ion Ratio Lower Upper

43 100

61 0.5 17.4 26.0#

87 0.0 11.5 17.3#



#44

Trichloroethene

Concen: 0.453 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN053886.D

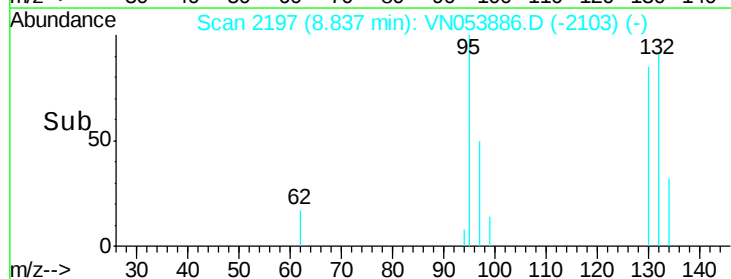
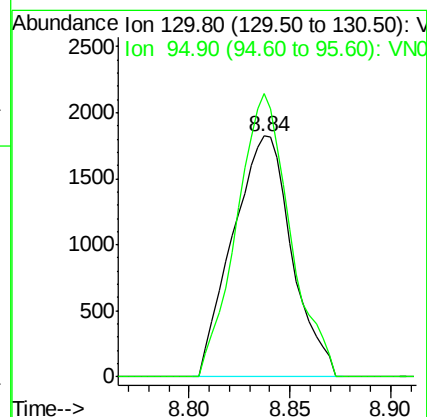
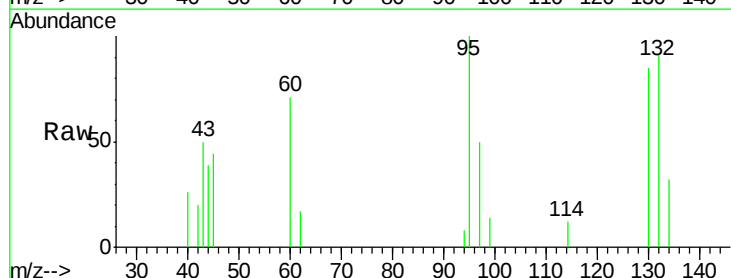
Acq: 21 Feb 2019 12:29

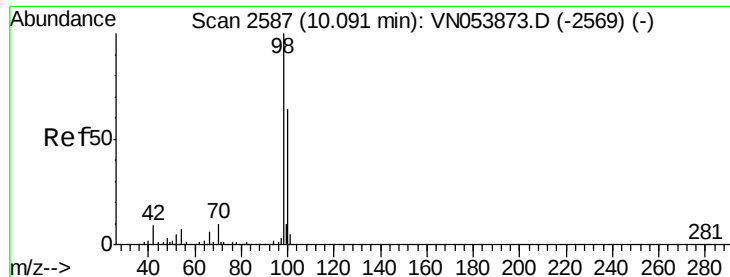
Tgt Ion:130 Resp: 3722

Ion Ratio Lower Upper

130 100

95 117.6 0.0 190.0





#50

Toluene-d8

Concen: 50.922 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

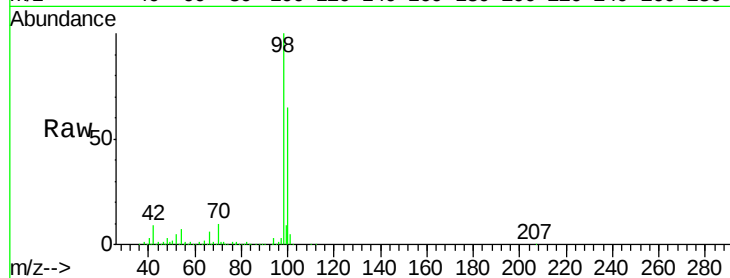
M2-T2-OZ(PRE)

Tot Ion: 98 Resp: 1307311

Ion Ratio Lower Upper

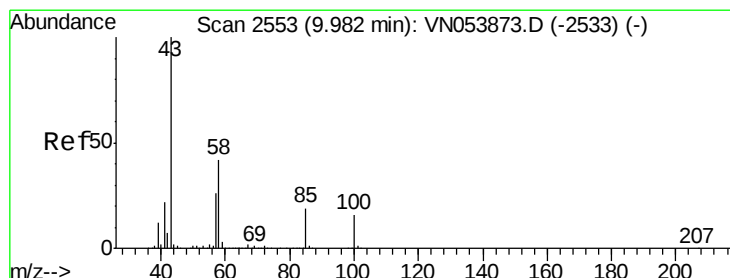
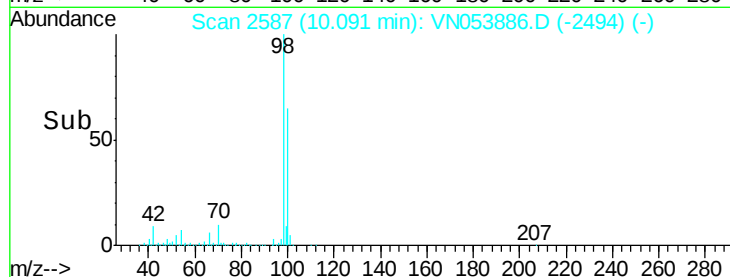
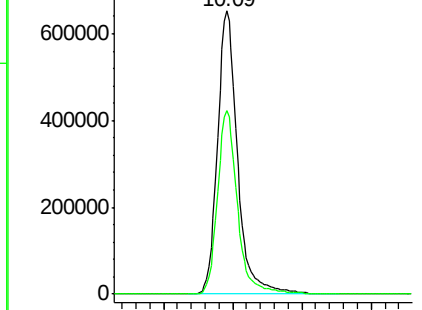
98 100

100 64.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN053873.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN053873.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 6.560 ug/l

RT: 10.00 min Scan# 2558

Delta R.T. 0.02 min

Lab File: VN053886.D

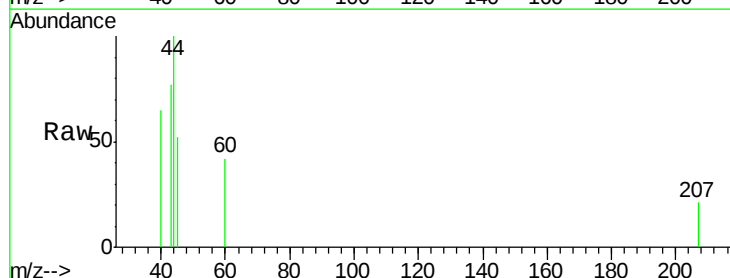
Acq: 21 Feb 2019 12:29

Tgt Ion: 43 Resp: 220

Ion Ratio Lower Upper

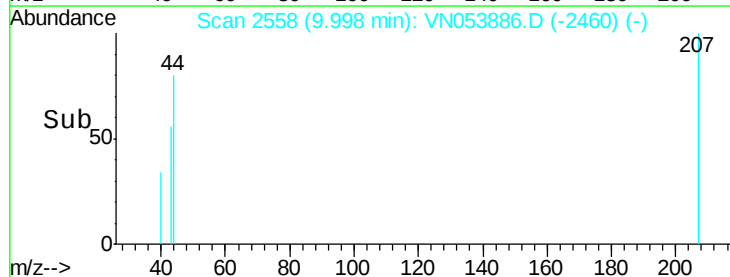
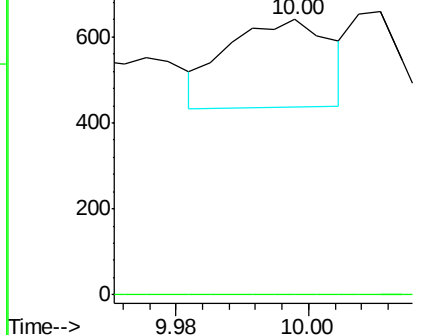
43 100

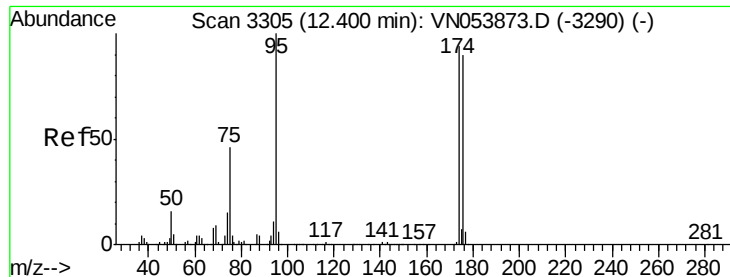
58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN053873.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN053873.D (-2533) (-)

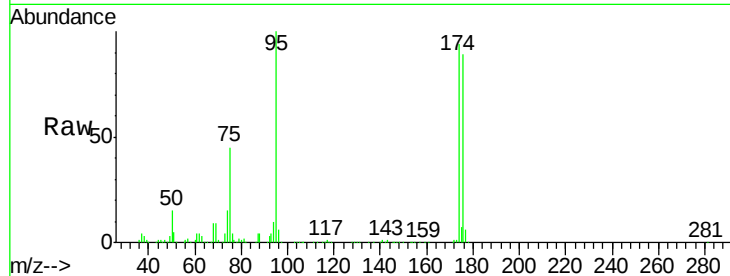




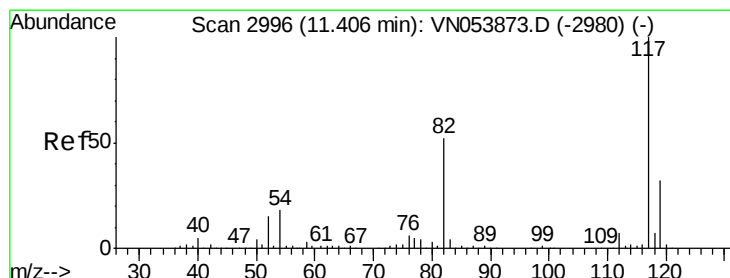
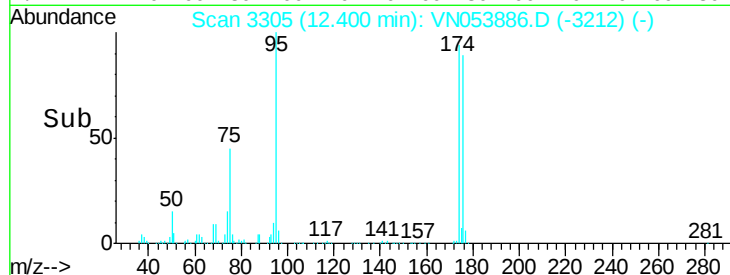
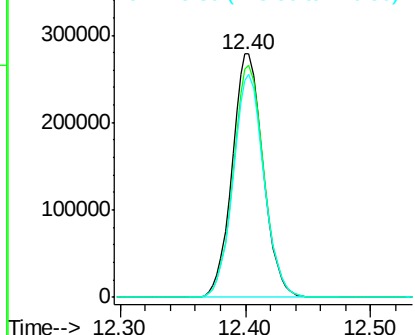
#62
4-Bromofluorobenzene
Concen: 56.229 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053886.D
Acq: 21 Feb 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
M2-T2-OZ(PRE)

Tot Ion: 95 Resp: 476582
Ion Ratio Lower Upper
95 100
174 94.6 0.0 188.8
176 90.8 0.0 182.6

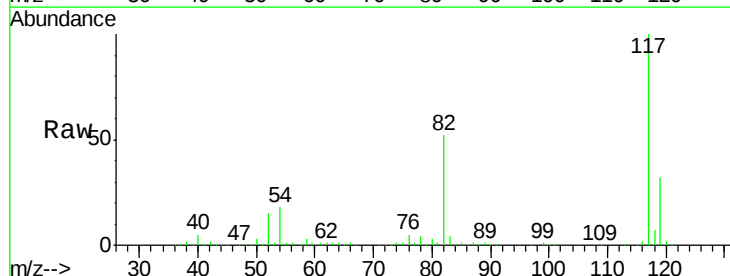


Abundance Ion 94.90 (94.60 to 95.60): VN053886.D (-3212) (-)
Ion 173.80 (173.50 to 174.50): VN053886.D (-3212) (-)
Ion 175.80 (175.50 to 176.50): VN053886.D (-3212) (-)

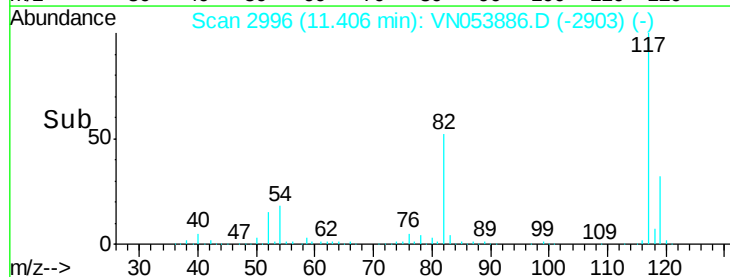
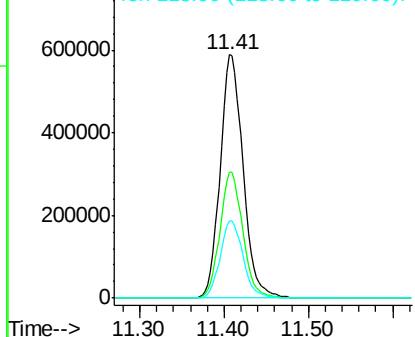


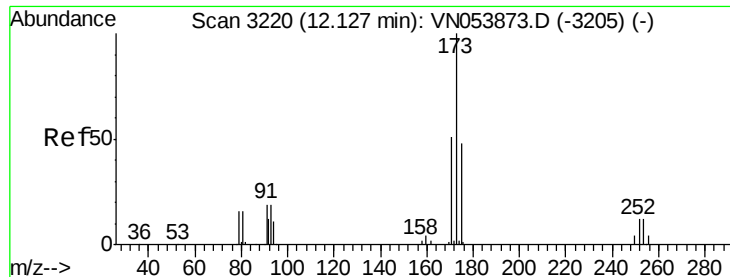
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053886.D
Acq: 21 Feb 2019 12:29

Tgt Ion: 117 Resp: 1108311
Ion Ratio Lower Upper
117 100
82 51.8 41.4 62.2
119 31.6 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN053886.D (-2903) (-)
Ion 82.00 (81.70 to 82.70): VN053886.D (-2903) (-)
Ion 118.90 (118.60 to 119.60): VN053886.D (-2903) (-)

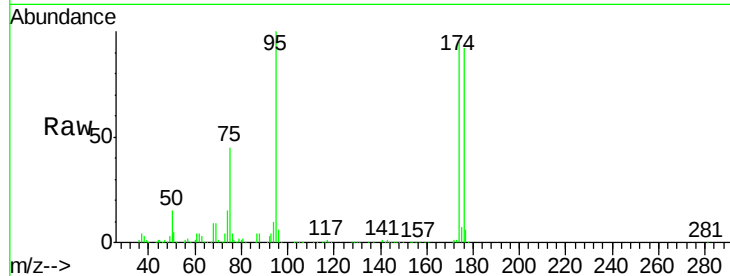




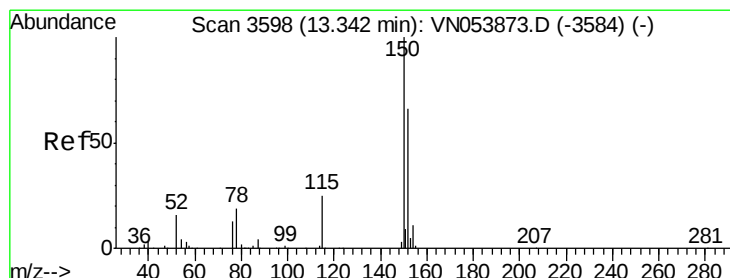
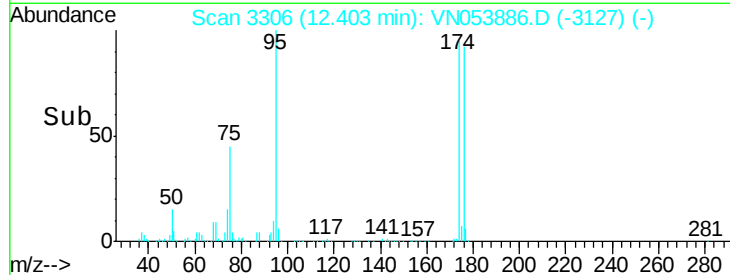
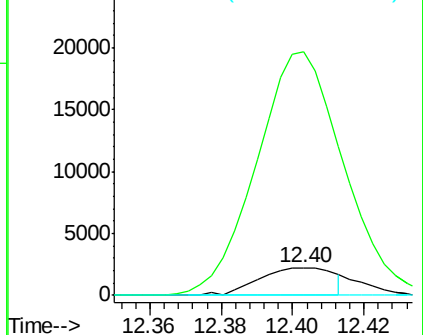
#71
Bromoform
Concen: 0.534 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053886.D
Acq: 21 Feb 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
M2-T2-OZ(PRE)

Tot Ion:173 Resp: 3209
Ion Ratio Lower Upper
173 100
175 882.0 24.3 72.8#
254 0.0 0.2 0.2#

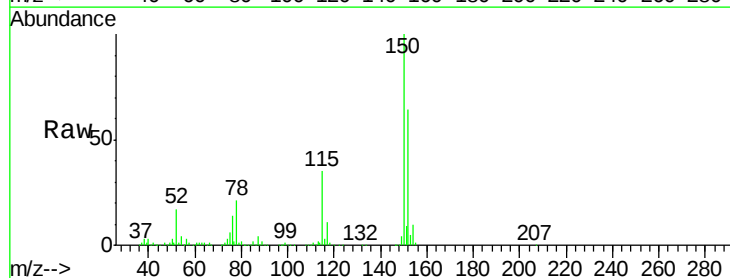


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

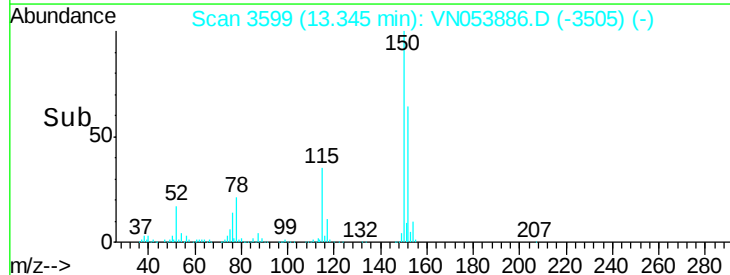
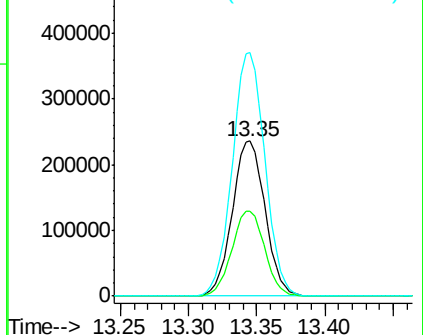


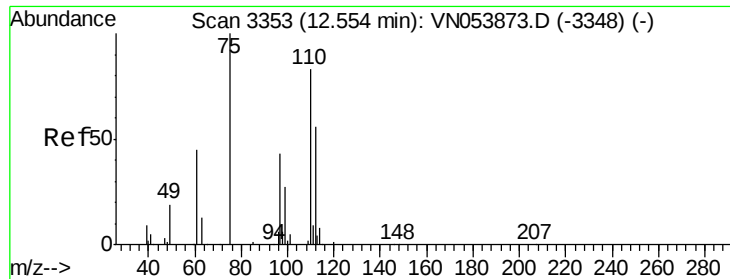
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053886.D
Acq: 21 Feb 2019 12:29

Tgt Ion:152 Resp: 393598
Ion Ratio Lower Upper
152 100
115 54.8 27.2 81.6
150 156.4 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: 37.294 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

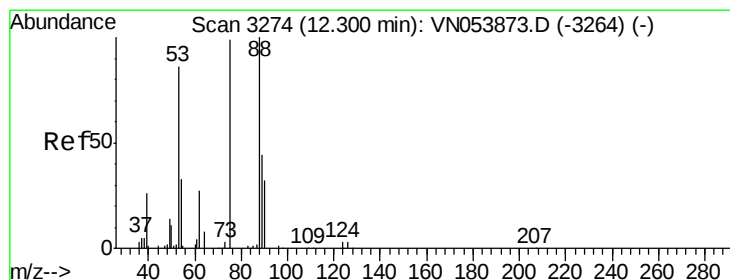
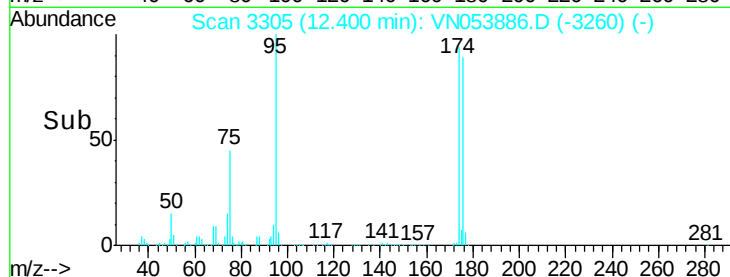
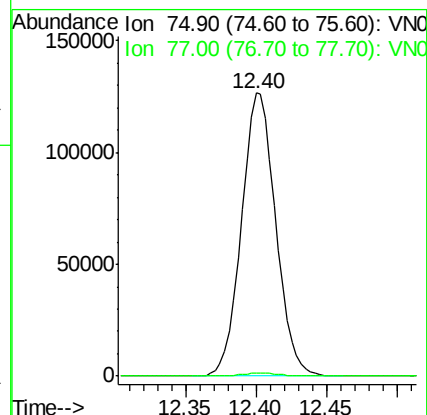
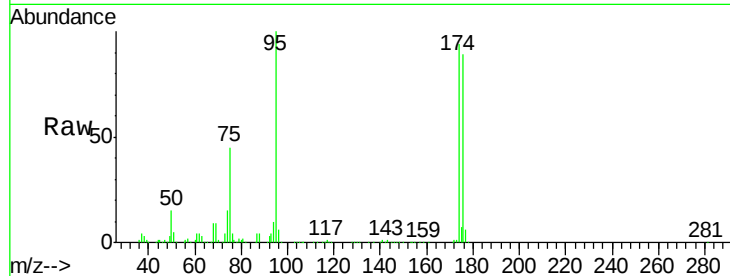
M2-T2-OZ(PRE)

Tot Ion: 75 Resp: 215484

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 123.117 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053886.D

Acq: 21 Feb 2019 12:29

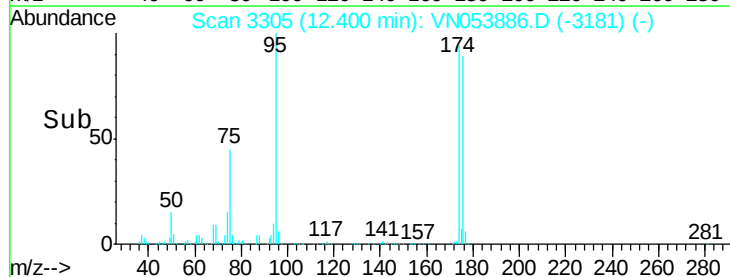
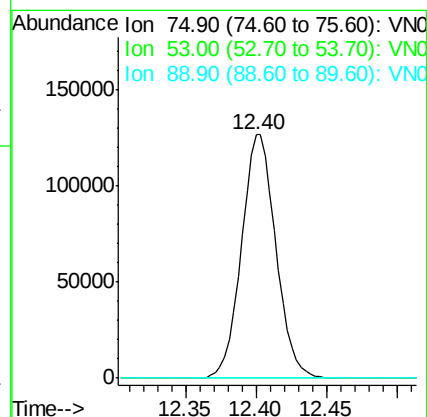
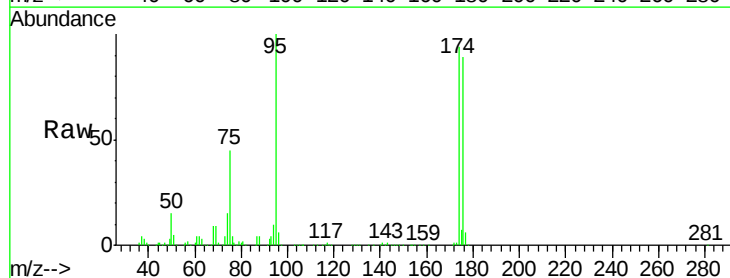
Tgt Ion: 75 Resp: 215484

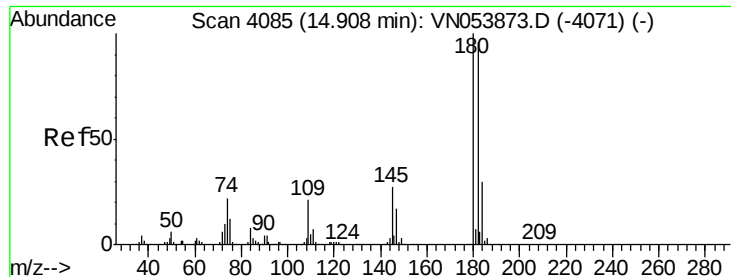
Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 35.3 52.9#

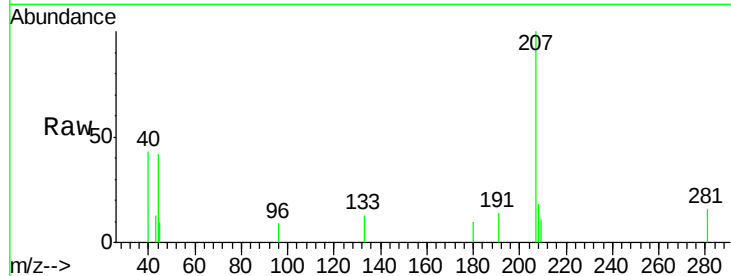




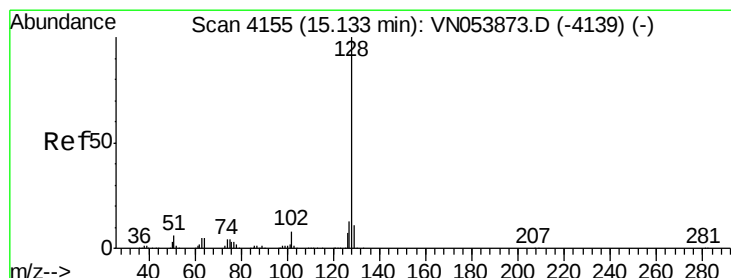
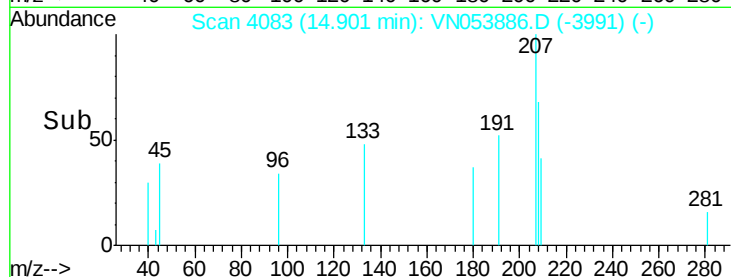
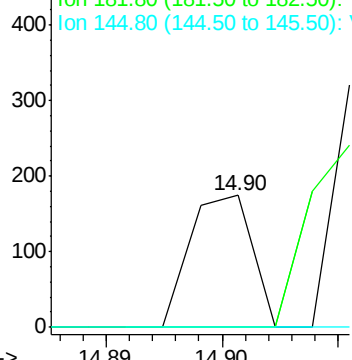
#93
 1,2,4-Trichlorobenzene
 Concen: 2.935 ug/l
 RT: 14.90 min Scan# 4083
 Delta R.T. -0.01 min
 Lab File: VN053886.D
 Acq: 21 Feb 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 M2-T2-OZ(PRE)

Tot Ion:180 Resp: 65
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.6 145.9#
 145 0.0 13.8 41.3#

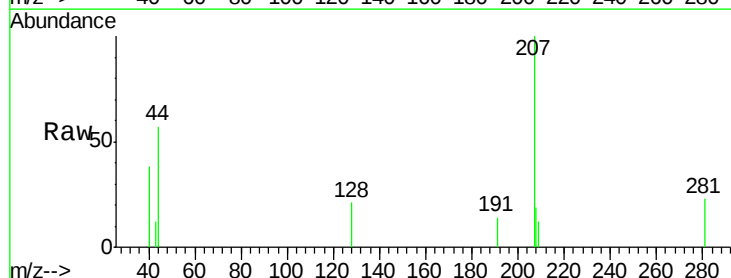


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

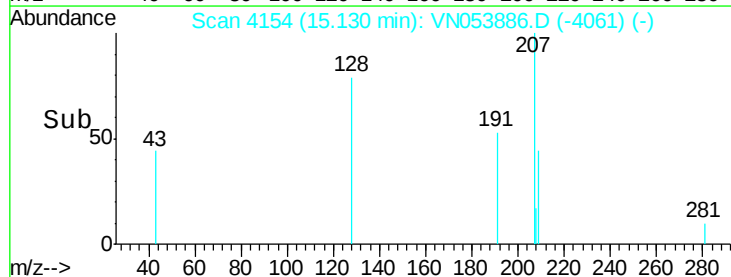
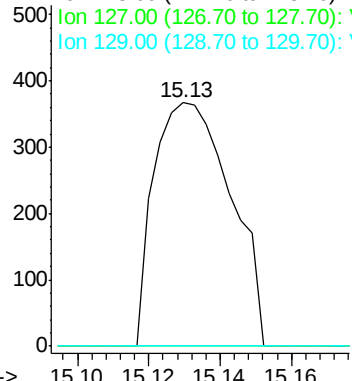


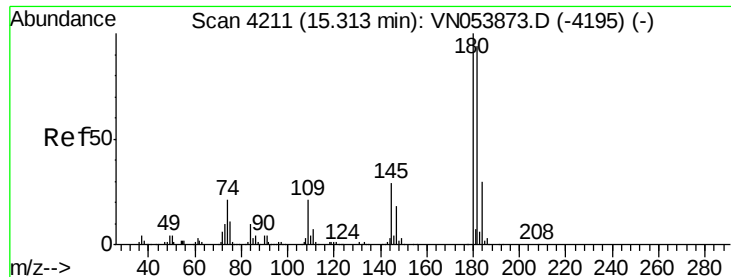
#95
 Naphthalene
 Concen: 4.644 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN053886.D
 Acq: 21 Feb 2019 12:29

Tgt Ion:128 Resp: 545
 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

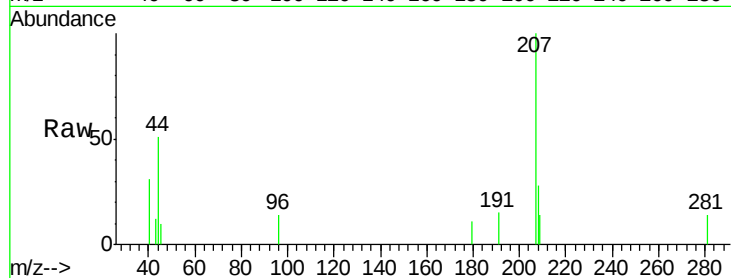




#96
 1,2,3-Trichlorobenzene
 Concen: 2.596 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN053886.D
 Acq: 21 Feb 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 M2-T2-OZ(PRE)

Tot Ion:180 Resp: 246
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.8#
 145 0.0 14.4 43.0#



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

