

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021919\
 Data File : VN053863.D
 Acq On : 19 Feb 2019 12:28
 Operator : JC/SP
 Sample : K1518-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-MH-C02

Quant Time: Feb 20 03:17:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	628916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1080764	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1058179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	432446	50.00	ug/l	0.00

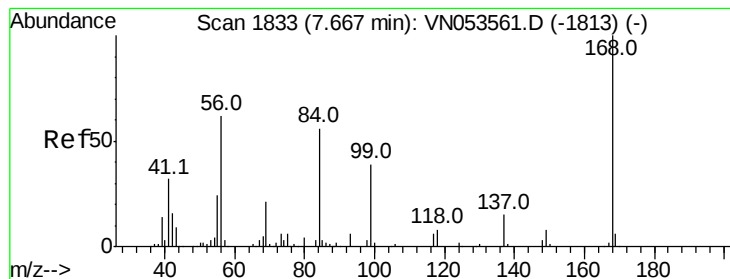
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	343620	54.46	ug/l	0.00
Spiked Amount						
			Recovery	=	108.92%	
35) Dibromofluoromethane	7.59	113	344568	50.46	ug/l	0.00
Spiked Amount						
			Recovery	=	100.92%	
50) Toluene-d8	10.09	98	1337821	52.17	ug/l	0.00
Spiked Amount						
			Recovery	=	104.34%	
62) 4-Bromofluorobenzene	12.40	95	459729	53.76	ug/l	0.00
Spiked Amount						
			Recovery	=	107.52%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.78	59	332	0.889	ug/l #	72
16) Acetone	3.82	43	24263	14.993	ug/l	92
18) Methyl Acetate	4.33	43	4125	0.861	ug/l #	75
20) Methylene Chloride	4.56	84	28344	4.175	ug/l	97
25) 2-Butanone	6.84	43	7640	3.310	ug/l #	84
29) Tetrahydrofuran	7.23	42	1370	0.924	ug/l #	57
31) Cyclohexane	7.66	56	9148	0.690	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	36327	3.729	ug/l #	49
37) Ethyl Acetate	6.84	43	7640	1.404	ug/l #	67
38) Carbon Tetrachloride	7.66	117	51507	5.248	ug/l #	16
43) Isopropyl Acetate	8.17	43	31348	2.983	ug/l #	82
45) 1,2-Dichloropropane	9.27	63	2013	0.262	ug/l #	43
48) Methyl methacrylate	9.17	41	9290	1.852	ug/l #	12
49) 1,4-Dioxane	9.27	88	70	40.024	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6588	1.276	ug/l #	81
54) cis-1,3-Dichloropropene	9.90	75	62555	5.474	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	12171	1.108	ug/l #	43
59) 2-Hexanone	10.76	43	155008	44.219	ug/l #	51
71) Bromoform	12.40	173	3798	0.706	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	211226	38.028	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	211226	106.931	ug/l #	15
95) Naphthalene	15.13	128	1185	1.797	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampleId :

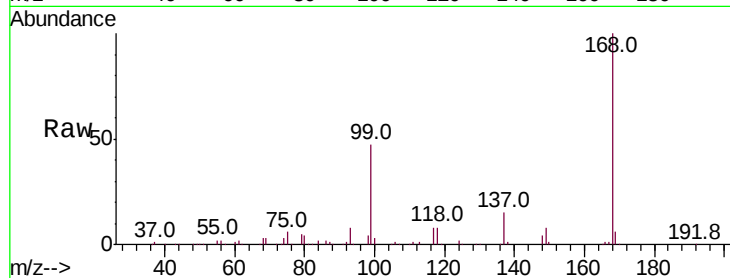
TP-MH-C02

Tot Ion:168 Resp: 628916

Ion Ratio Lower Upper

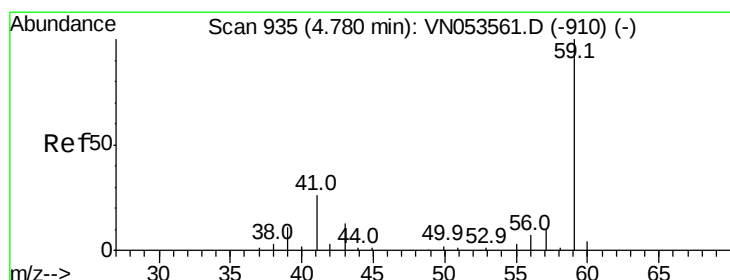
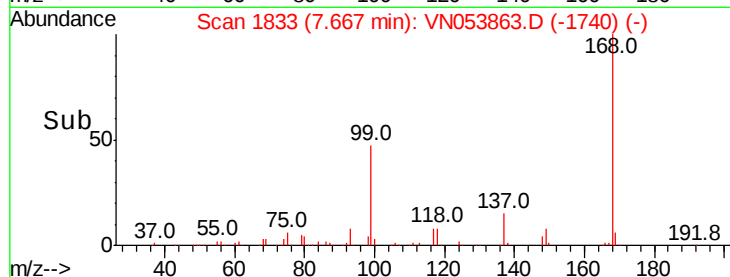
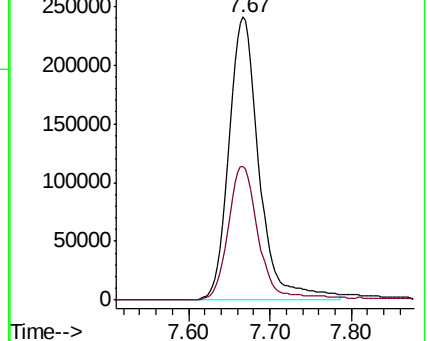
168 100

99 47.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.889 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.00 min

Lab File: VN053863.D

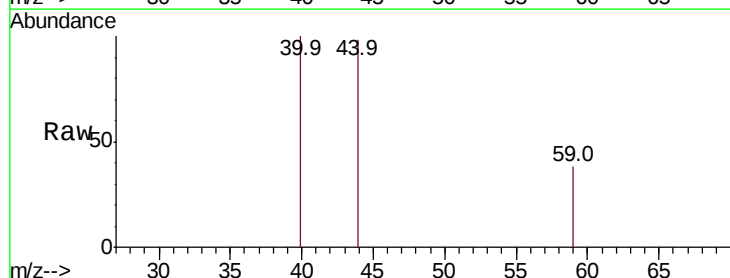
Acq: 19 Feb 2019 12:28

Tgt Ion: 59 Resp: 332

Ion Ratio Lower Upper

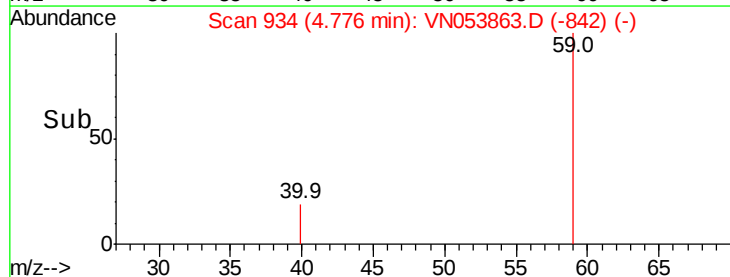
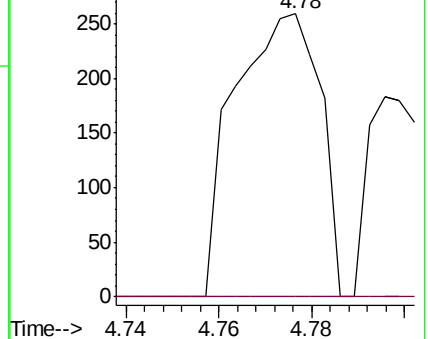
59 100

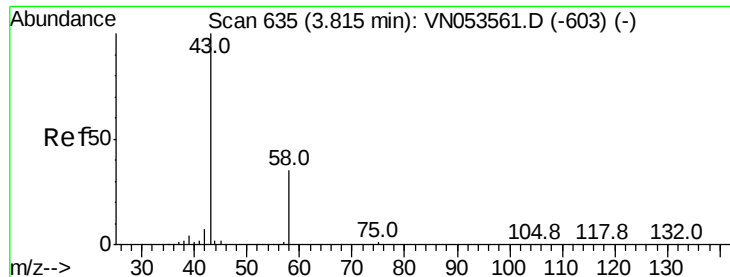
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 14.993 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampleId :

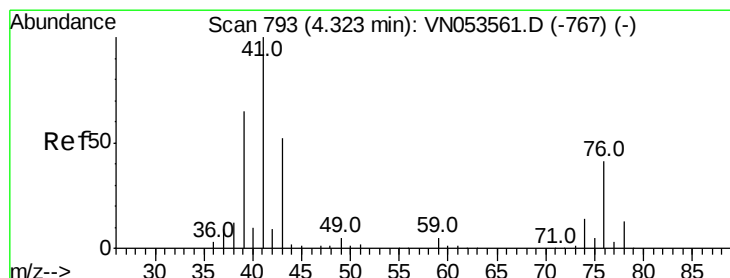
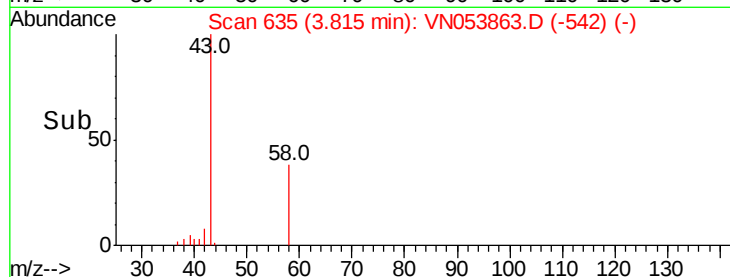
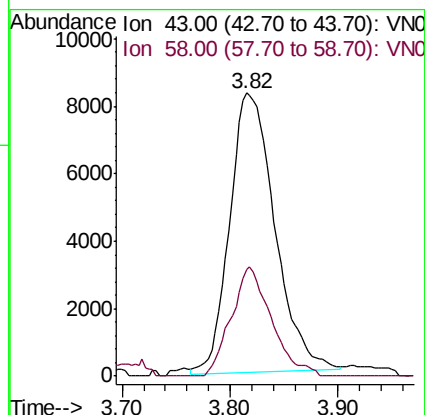
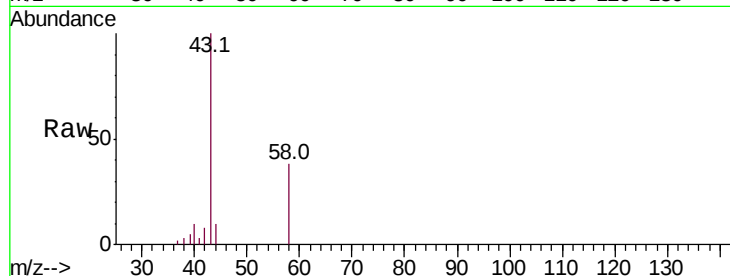
TP-MH-C02

Tot Ion: 43 Resp: 24263

Ion Ratio Lower Upper

43 100

58 38.4 27.1 40.7



#18

Methyl Acetate

Concen: 0.861 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053863.D

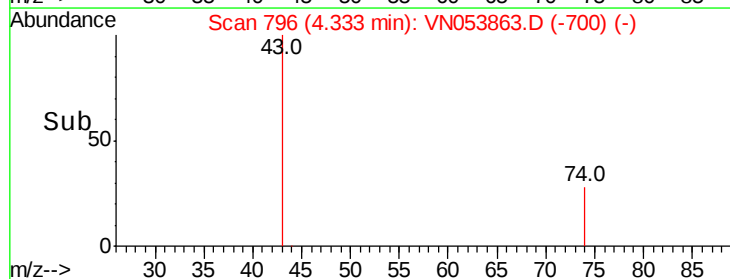
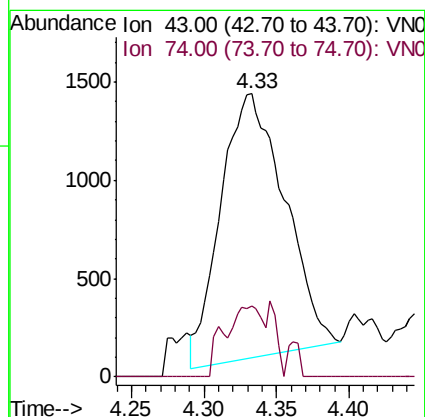
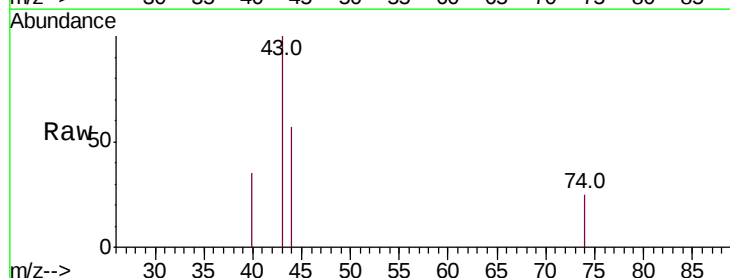
Acq: 19 Feb 2019 12:28

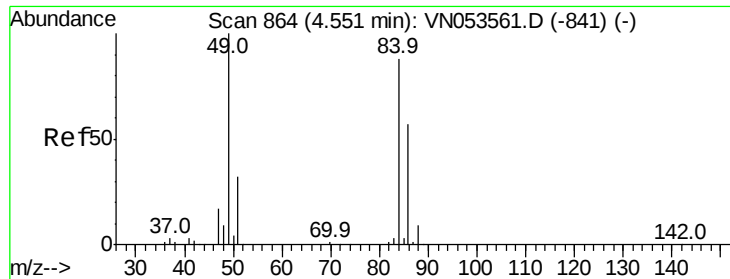
Tgt Ion: 43 Resp: 4125

Ion Ratio Lower Upper

43 100

74 11.9 19.4 29.2#

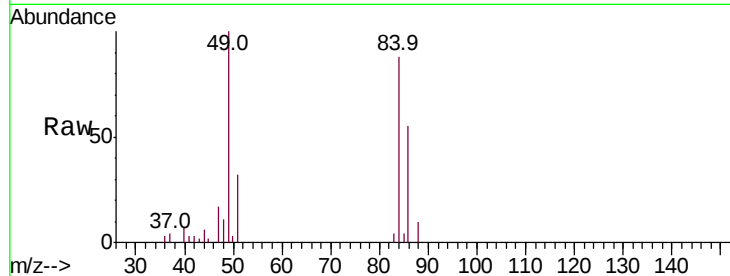




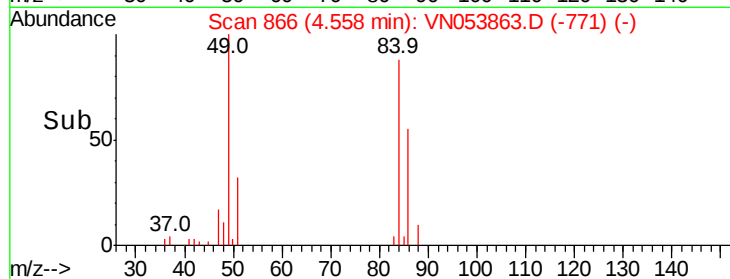
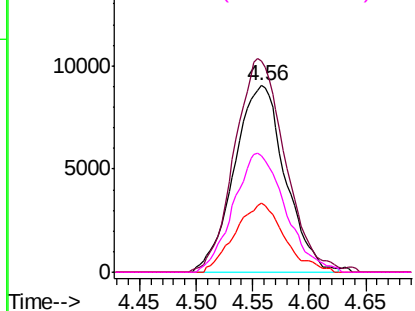
#20
Methvlene Chloride
Concen: 4.175 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Instrument :
MSVOA_N
ClientSampleId :
TP-MH-C02

Tot Ion: 84 Resp: 28344
Ion Ratio Lower Upper
84 100
49 113.4 94.3 141.5
51 36.8 29.4 44.2
86 62.6 51.4 77.0

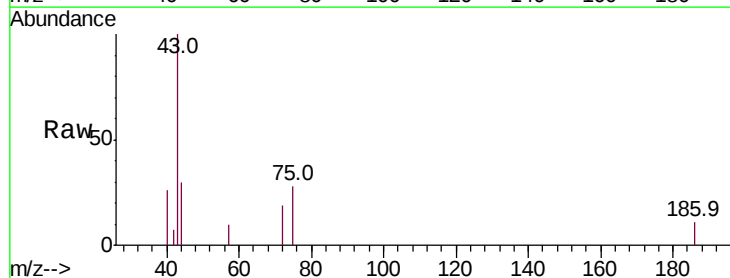
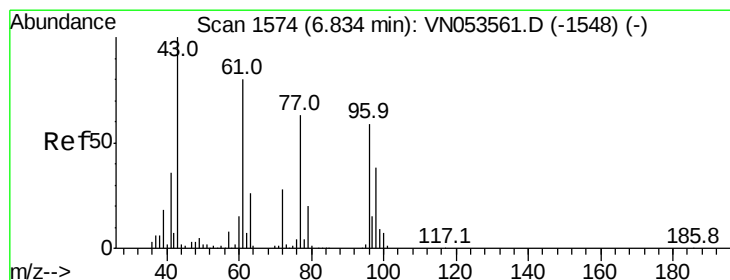


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

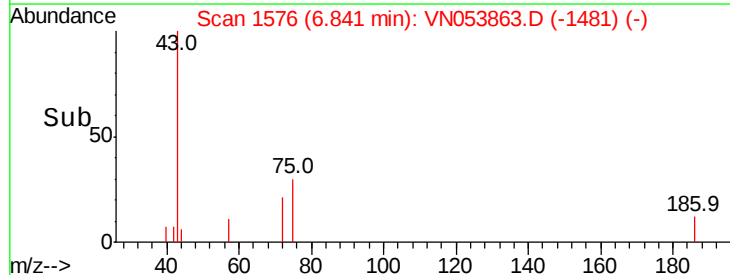
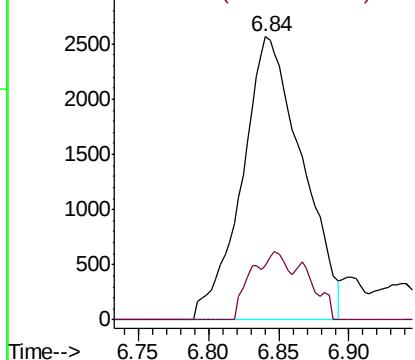


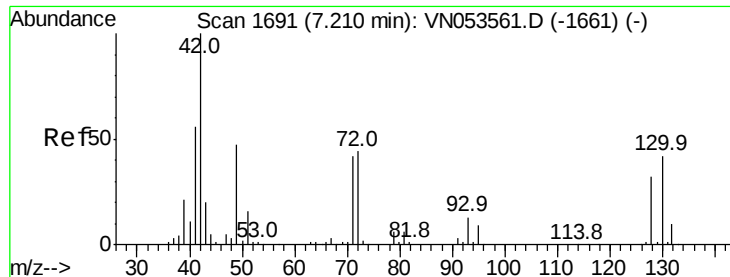
#25
2-Butanone
Concen: 3.310 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Tgt Ion: 43 Resp: 7640
Ion Ratio Lower Upper
43 100
72 19.2 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.924 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampleId :

TP-MH-C02

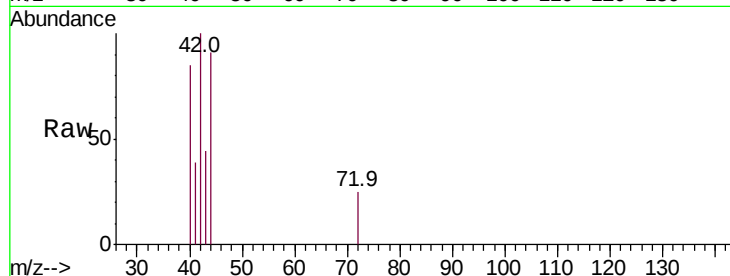
Tot Ion: 42 Resp: 1370

Ion Ratio Lower Upper

42 100

72 17.7 35.2 52.8#

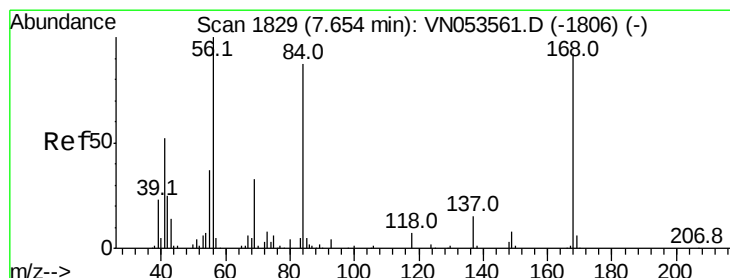
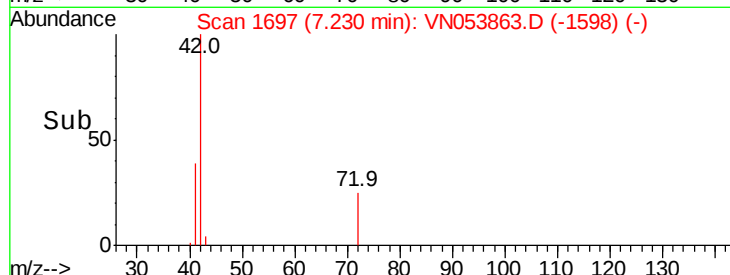
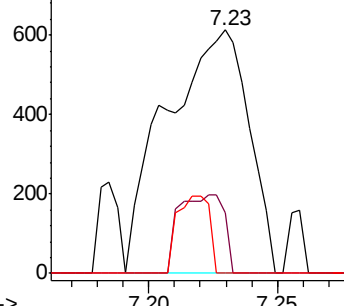
71 12.4 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.690 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

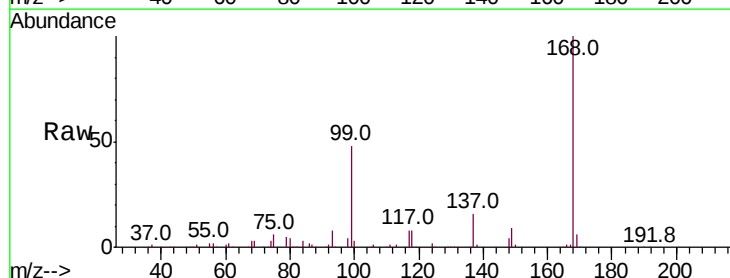
Tgt Ion: 56 Resp: 9148

Ion Ratio Lower Upper

56 100

69 180.2 26.4 39.6#

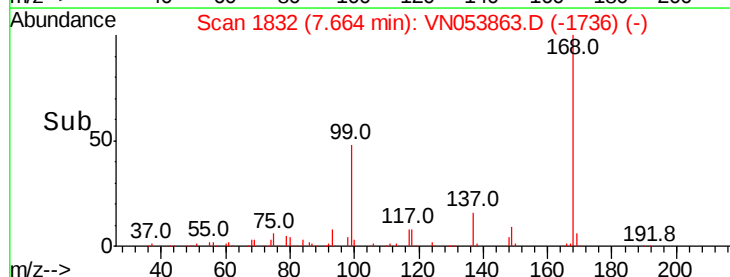
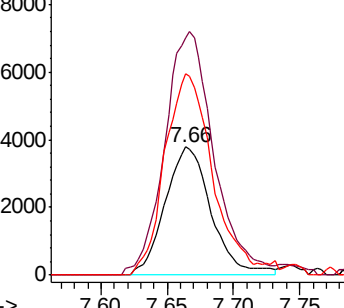
84 156.9 67.9 101.9#

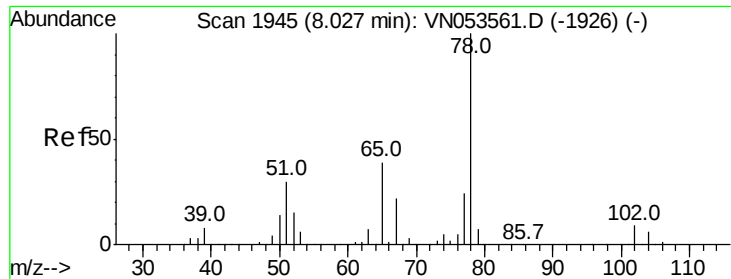


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 54.463 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampleId :

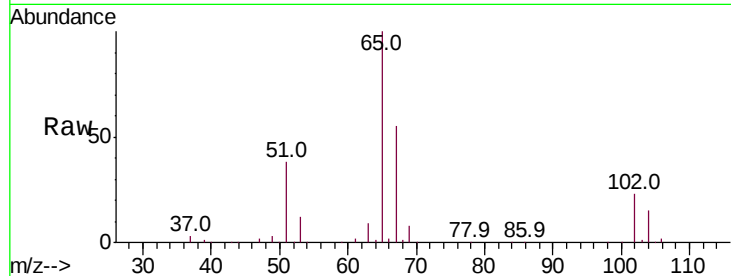
TP-MH-C02

Tot Ion: 65 Resp: 343620

Ion Ratio Lower Upper

65 100

67 54.9 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

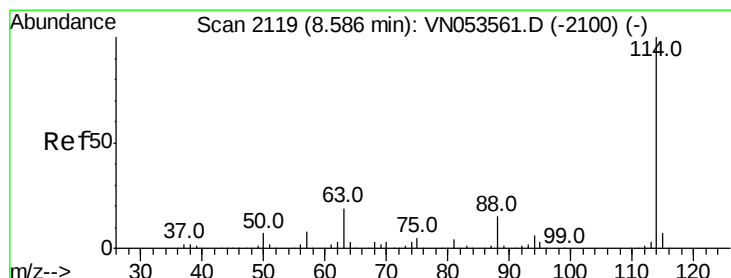
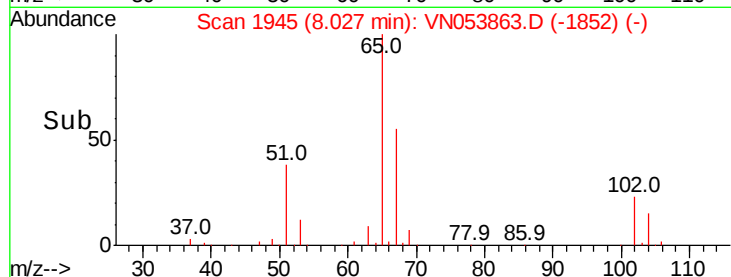
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

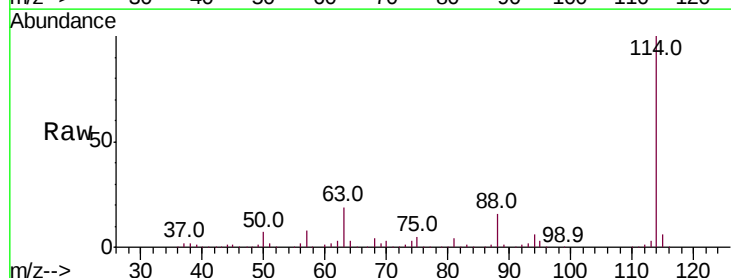
Tgt Ion:114 Resp: 1080764

Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.6

88 15.6 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

600000

500000

400000

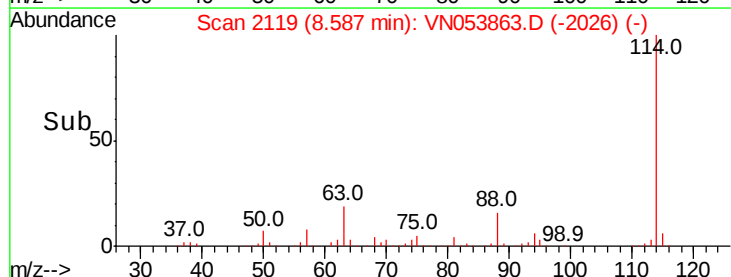
300000

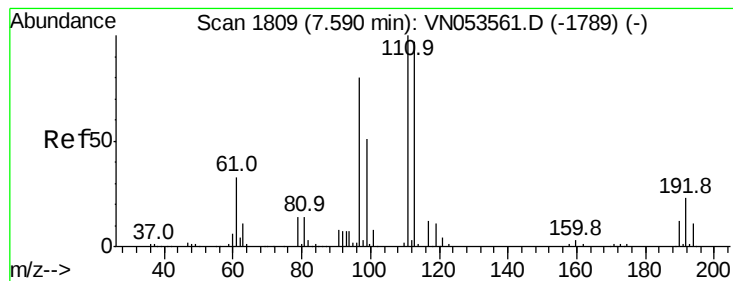
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.456 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampleId :

TP-MH-C02

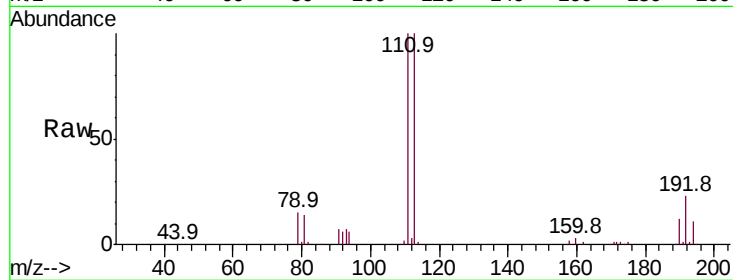
Tot Ion:113 Resp: 344568

Ion Ratio Lower Upper

113 100

111 101.1 81.1 121.7

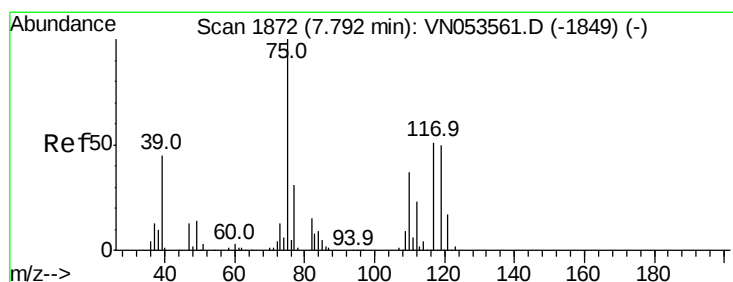
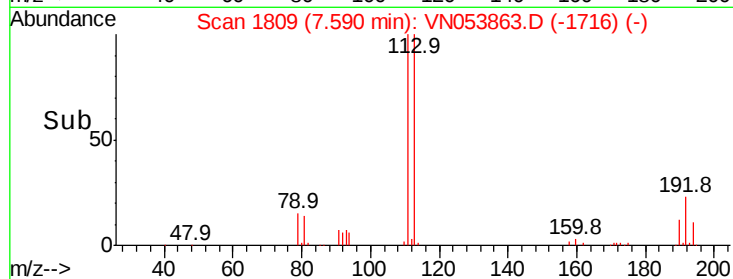
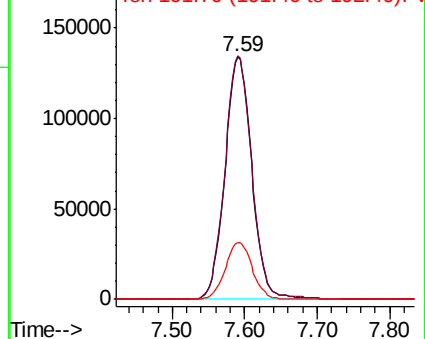
192 23.7 18.2 27.2



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: 3.729 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

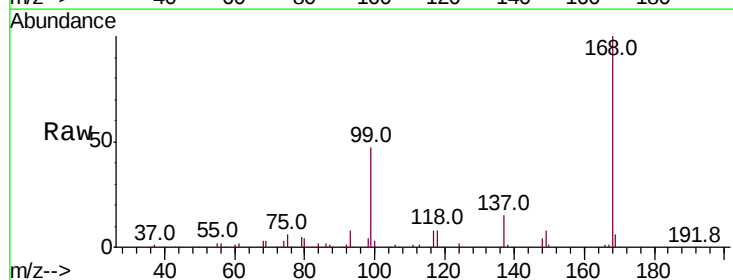
Tgt Ion: 75 Resp: 36327

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.3#

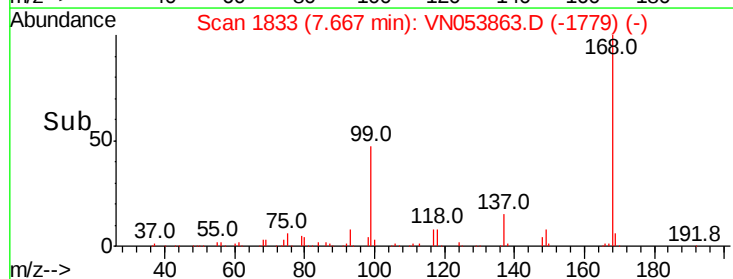
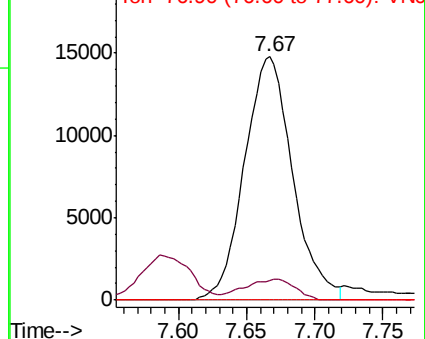
77 0.0 25.1 37.7#

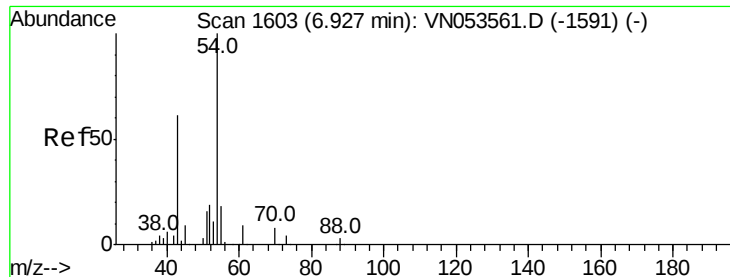


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

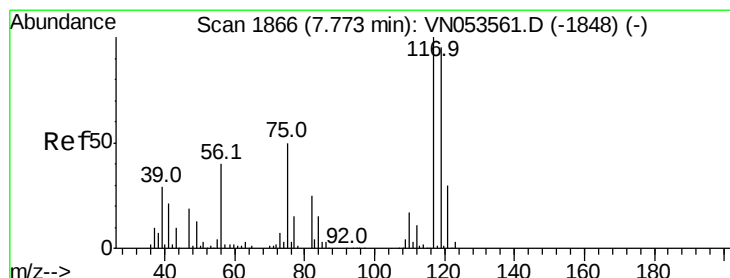
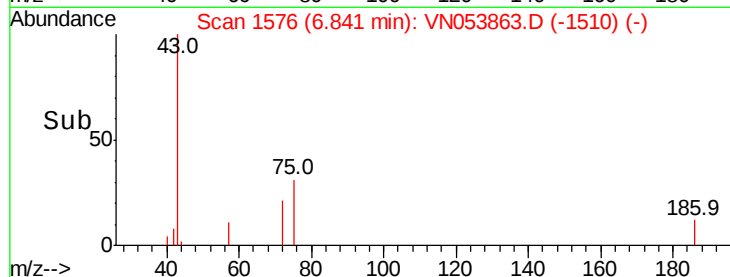
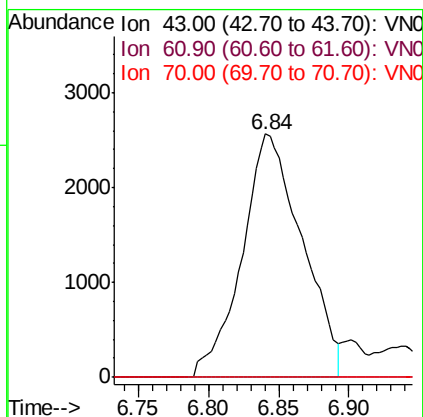
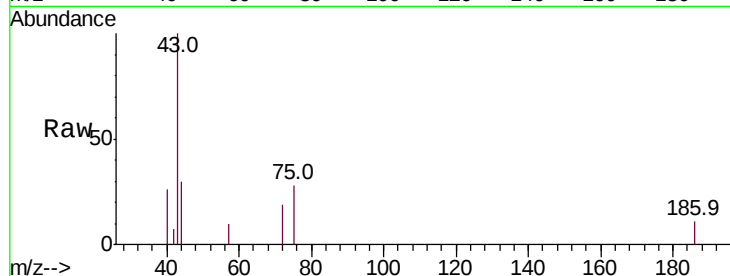




#37
Ethyl Acetate
Concen: 1.404 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. -0.09 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

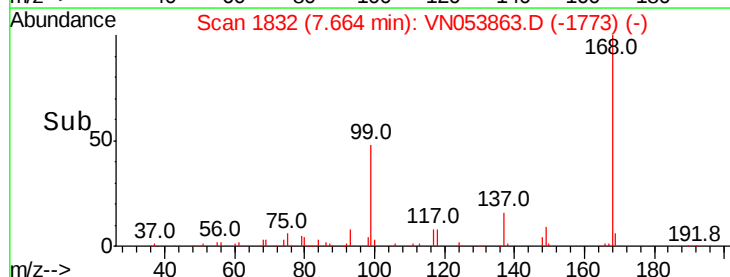
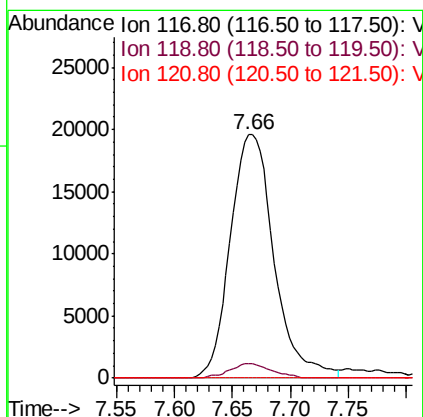
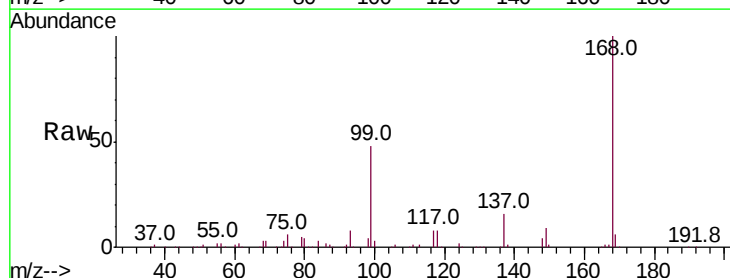
Instrument :
MSVOA_N
ClientSampleId :
TP-MH-C02

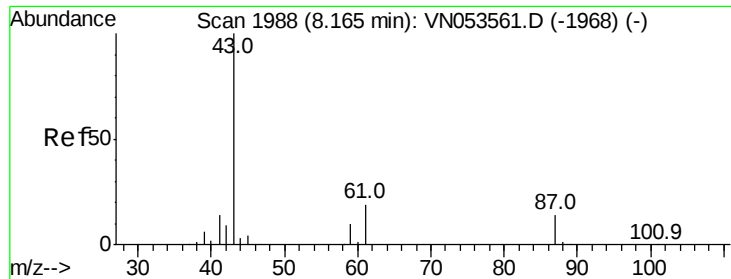
Tot Ion: 43 Resp: 7640
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 8.6 12.8#



#38
Carbon Tetrachloride
Concen: 5.248 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Tgt Ion: 117 Resp: 51507
Ion Ratio Lower Upper
117 100
119 5.9 77.2 115.8#
121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 2.983 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampled :

TP-MH-C02

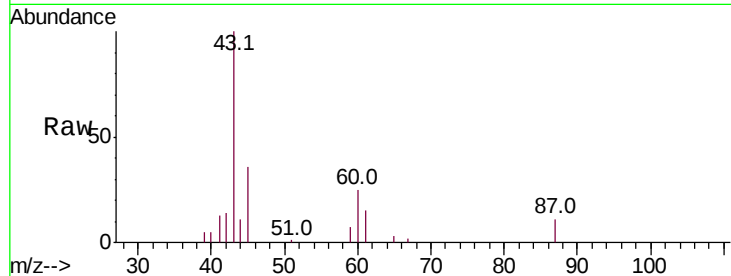
Tot Ion: 43 Resp: 31348

Ion Ratio Lower Upper

43 100

61 17.8 23.9 35.9#

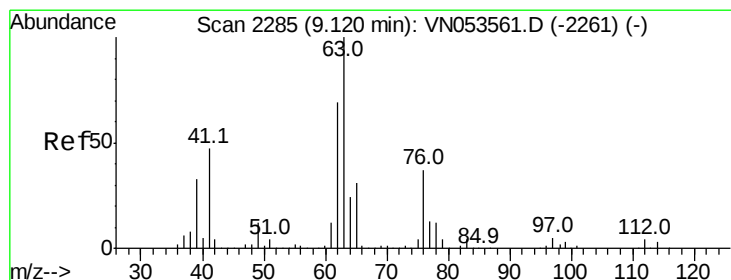
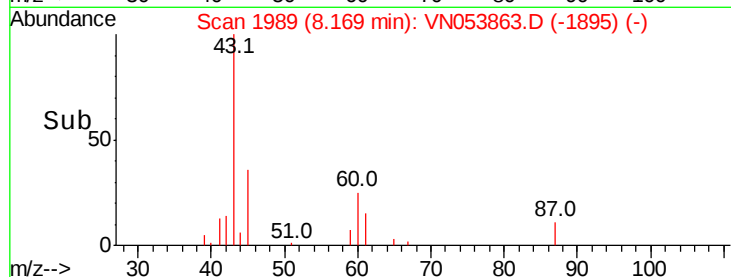
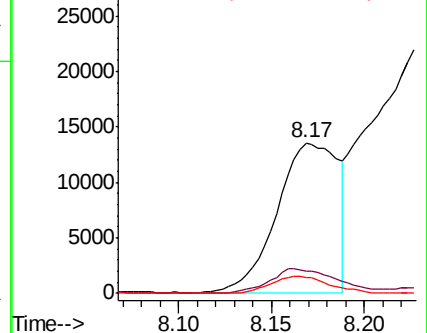
87 10.7 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.262 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN053863.D

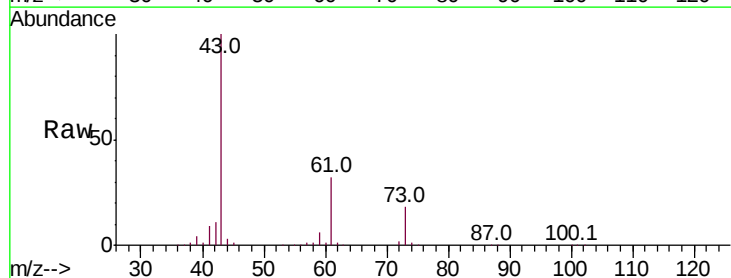
Acq: 19 Feb 2019 12:28

Tgt Ion: 63 Resp: 2013

Ion Ratio Lower Upper

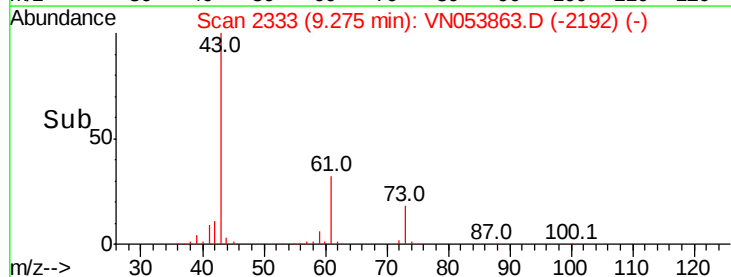
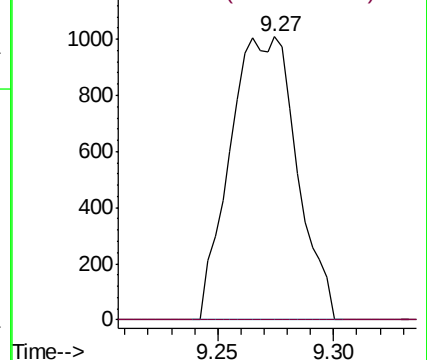
63 100

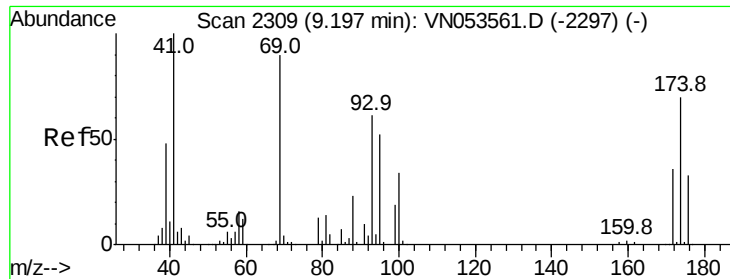
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

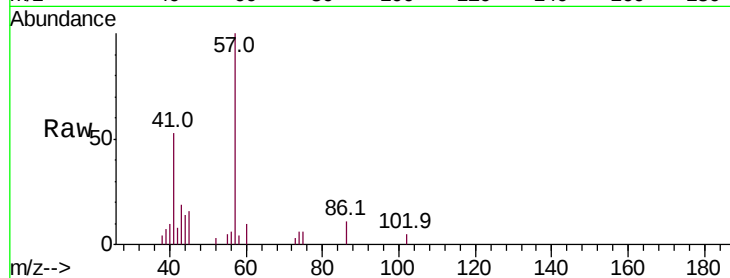




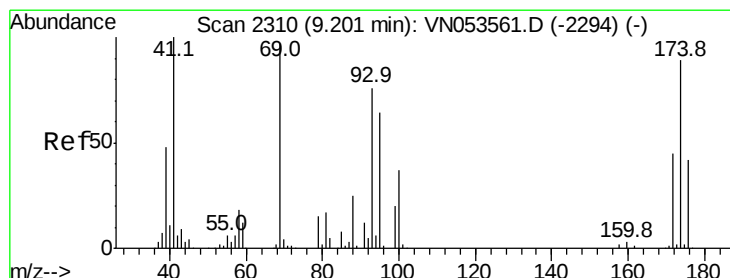
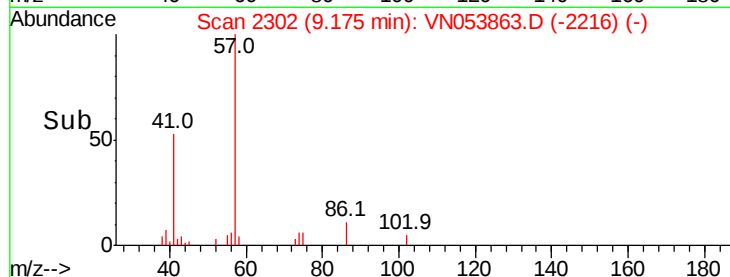
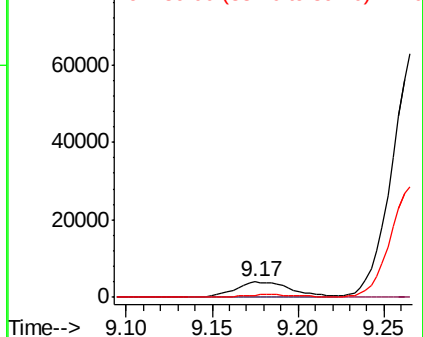
#48
Methyl methacrylate
Concen: 1.852 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Instrument :
MSVOA_N
ClientSampled :
TP-MH-C02

Tot Ion: 41 Resp: 9290
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

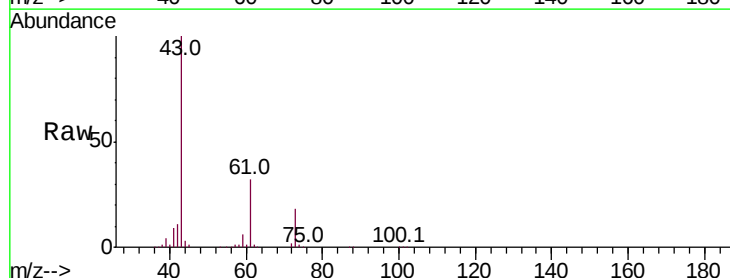


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

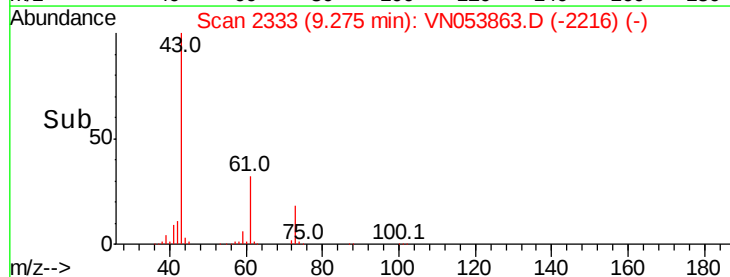
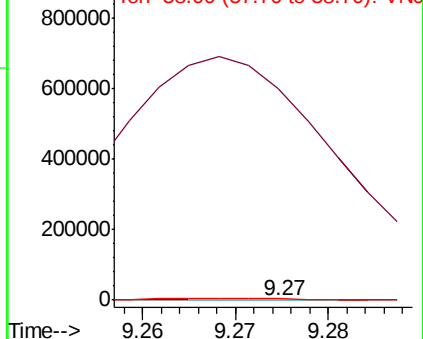


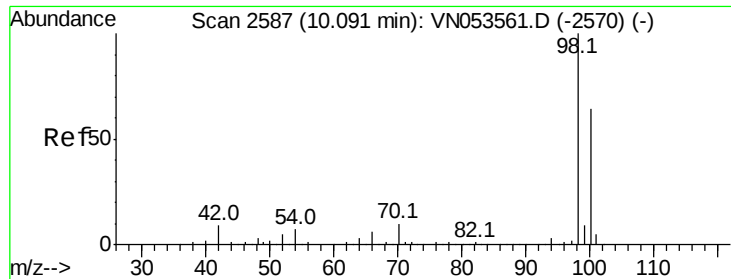
#49
1,4-Dioxane
Concen: 40.024 ug/l
RT: 9.27 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 1989948.6 27.8 41.6#
58 10624.3 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

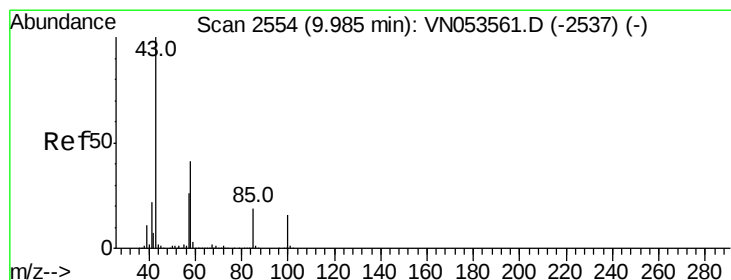
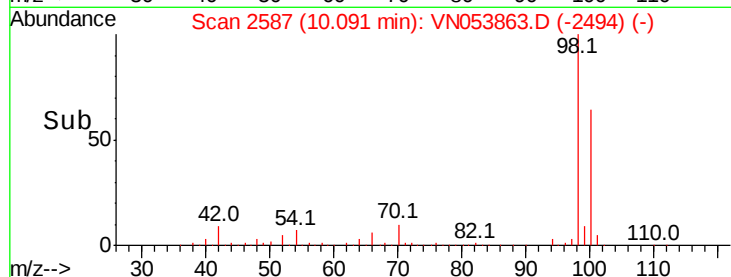
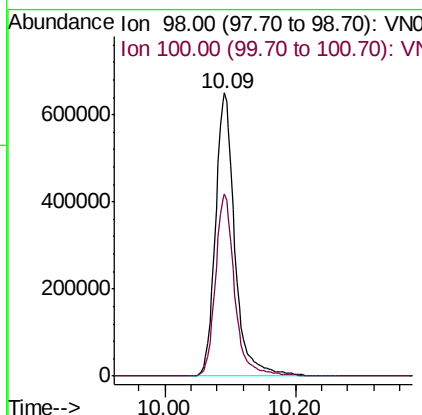
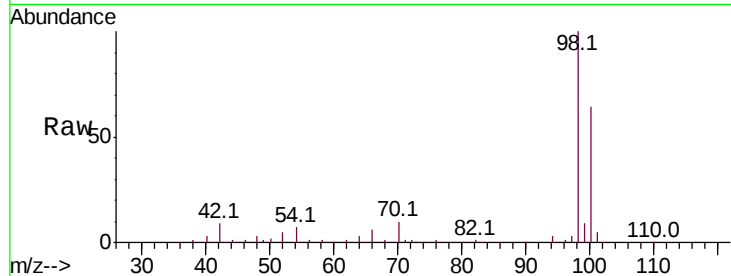




#50
Toluene-d8
Concen: 52.174 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

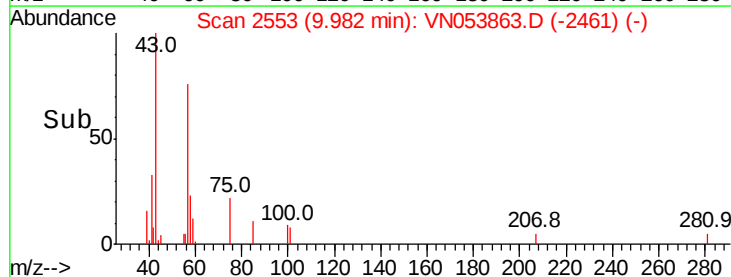
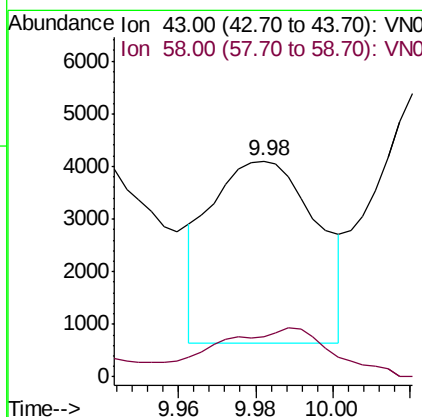
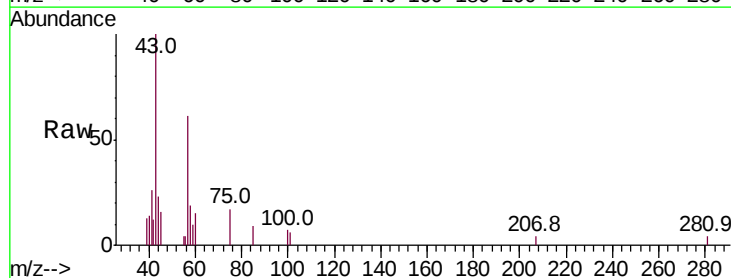
Instrument :
MSVOA_N
ClientSampleId :
TP-MH-C02

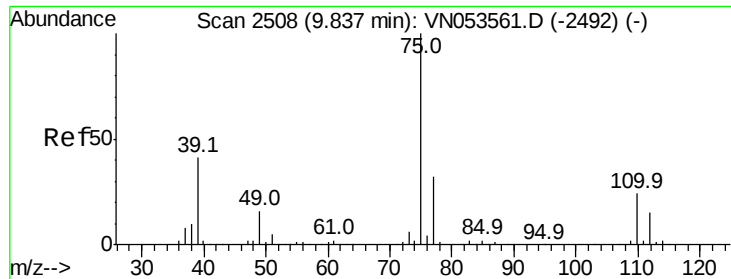
Tot Ion: 98 Resp: 1337821
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.276 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Tgt Ion: 43 Resp: 6588
Ion Ratio Lower Upper
43 100
58 29.4 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 5.474 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampleId :

TP-MH-C02

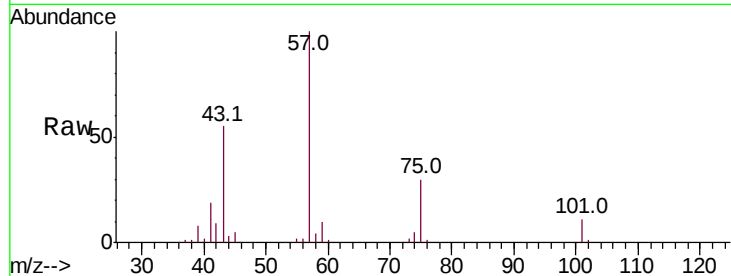
Tot Ion: 75 Resp: 62555

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

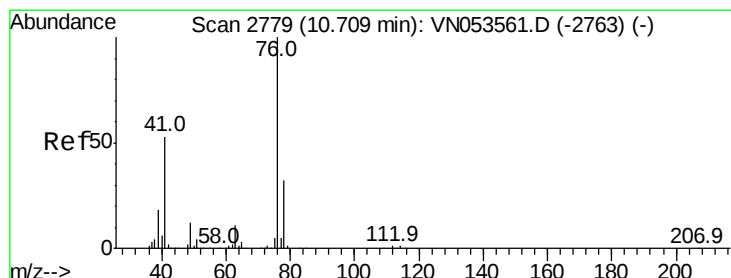
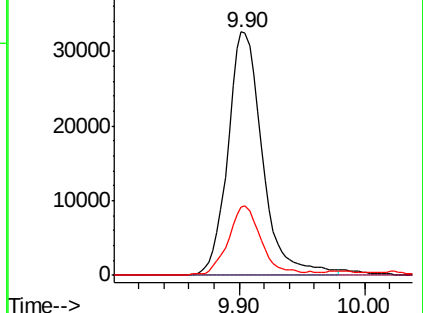
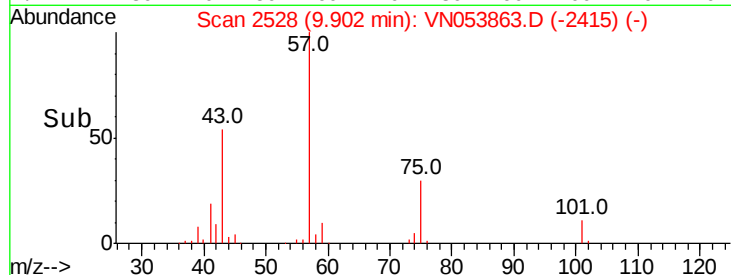
39 28.2 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.108 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053863.D

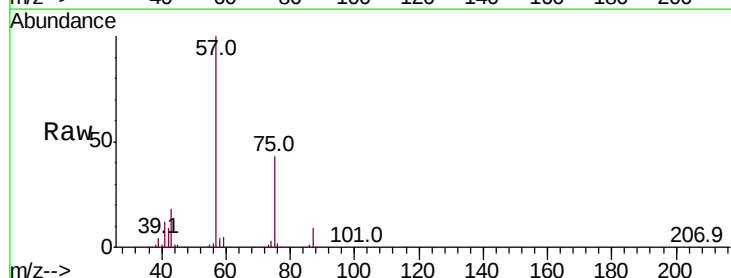
Acq: 19 Feb 2019 12:28

Tgt Ion: 76 Resp: 12171

Ion Ratio Lower Upper

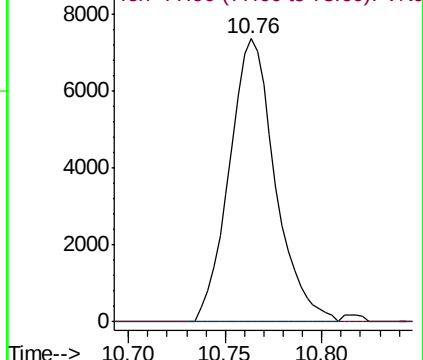
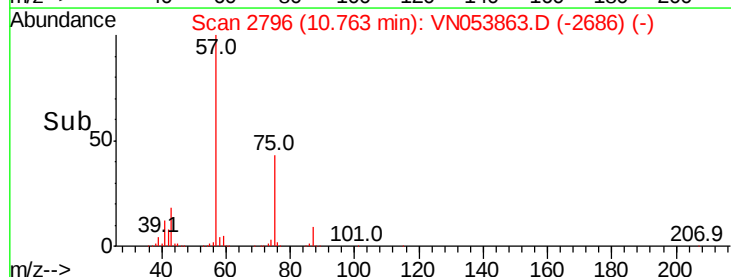
76 100

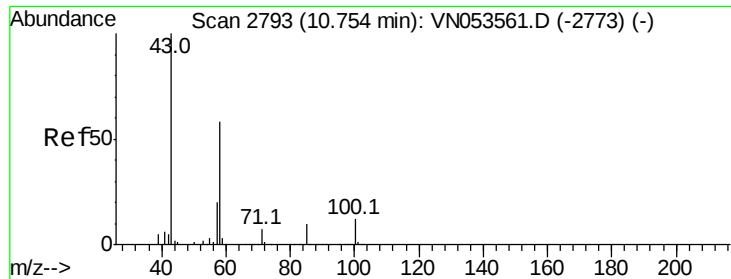
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

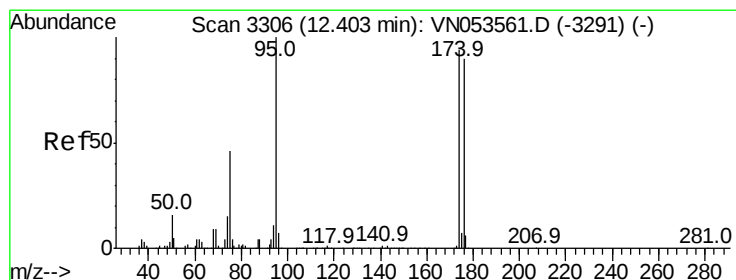
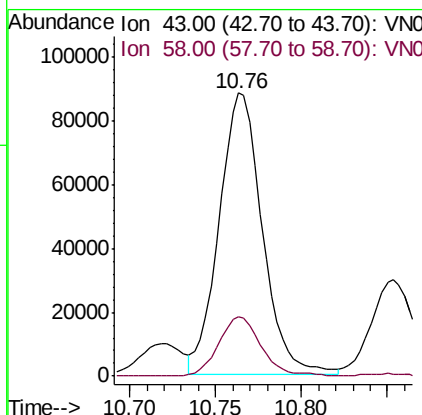
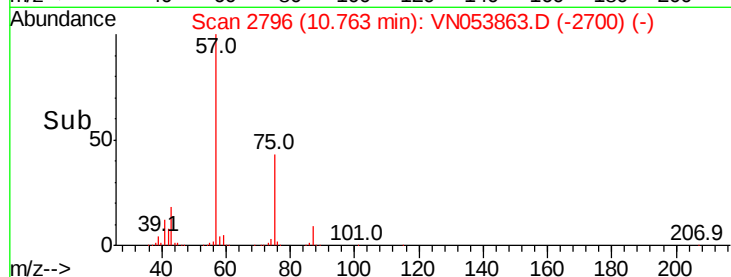
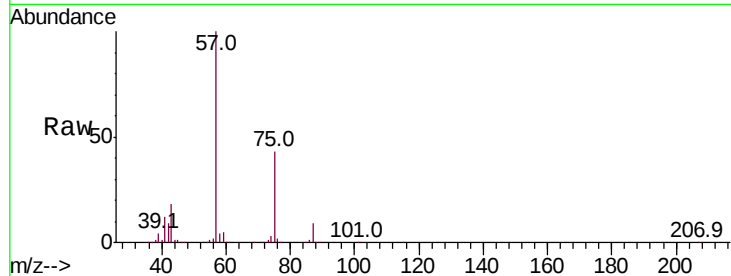




#59
2-Hexanone
Concen: 44.219 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

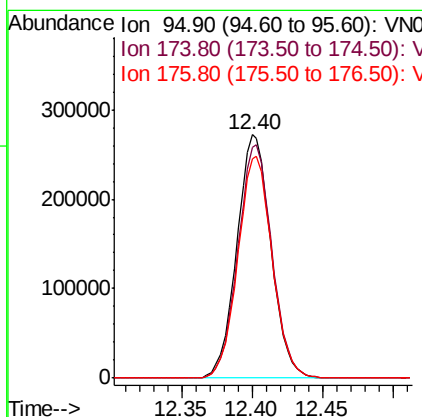
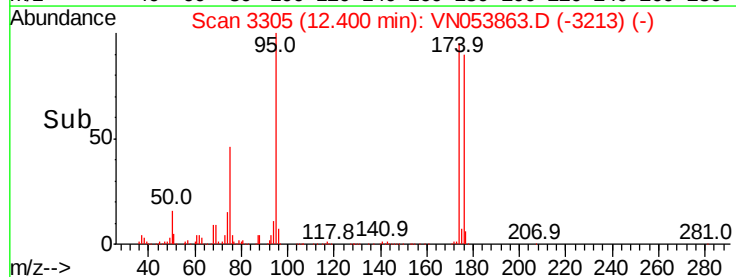
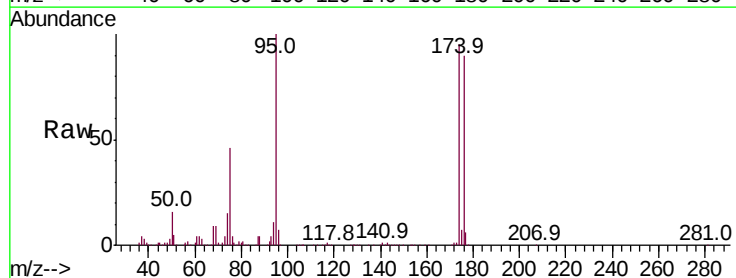
Instrument :
MSVOA_N
ClientSampleId :
TP-MH-C02

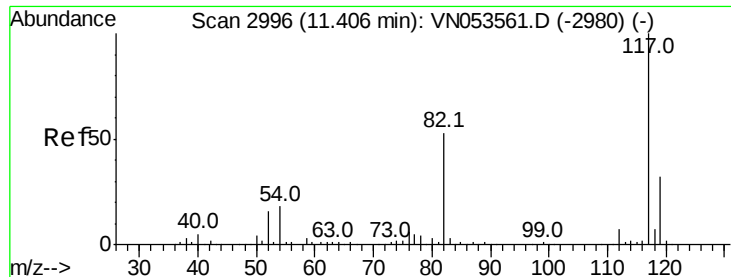
Tot Ion: 43 Resp: 155008
Ion Ratio Lower Upper
43 100
58 20.8 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 53.757 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Tgt Ion: 95 Resp: 459729
Ion Ratio Lower Upper
95 100
174 96.0 0.0 183.2
176 91.8 0.0 177.4

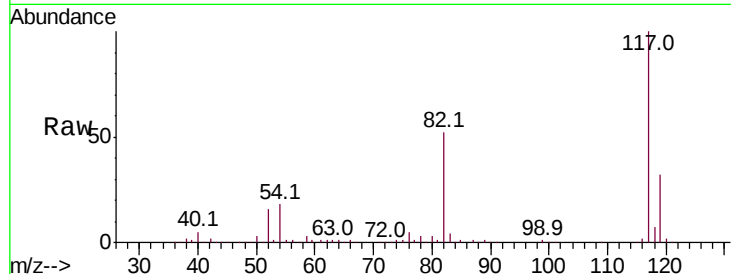




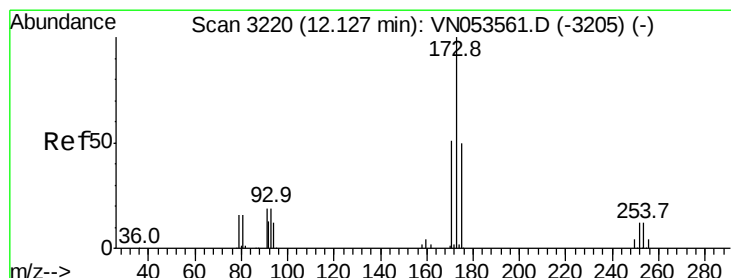
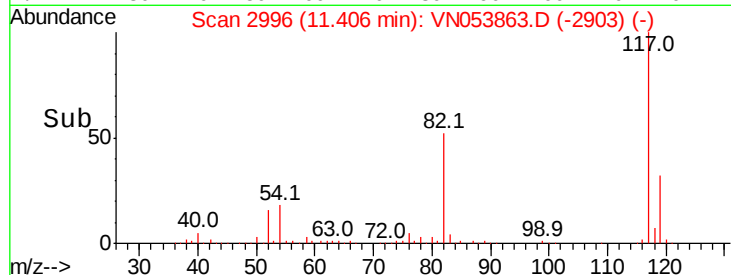
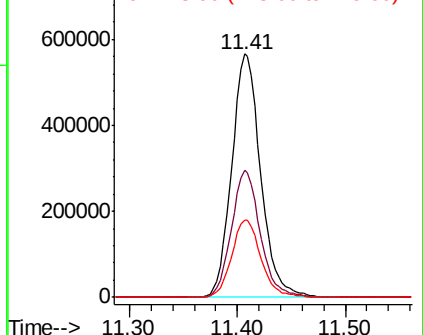
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Instrument :
MSVOA_N
ClientSampled :
TP-MH-C02

Tot Ion:117 Resp: 1058179
Ion Ratio Lower Upper
117 100
82 52.2 42.9 64.3
119 31.9 26.0 39.0

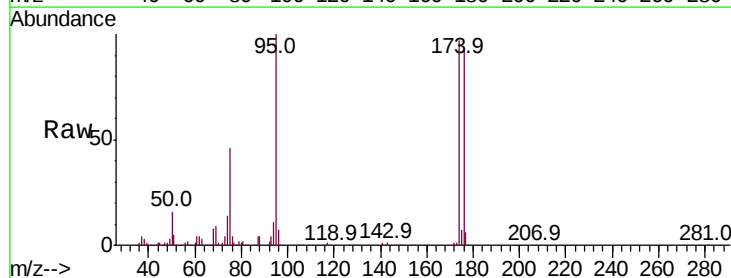


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

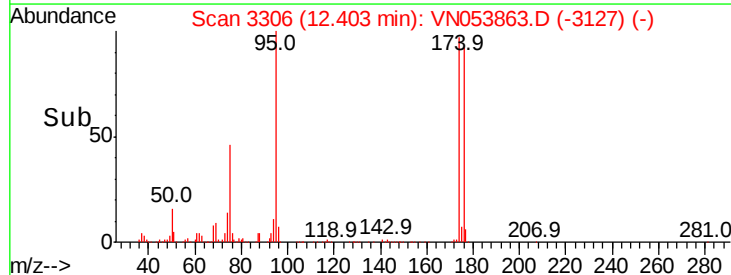
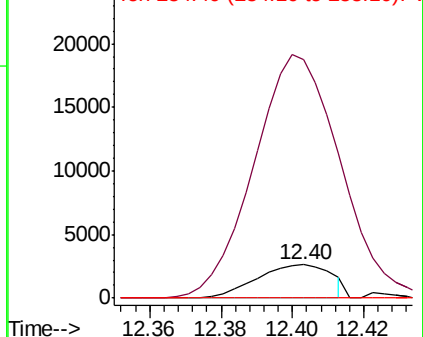


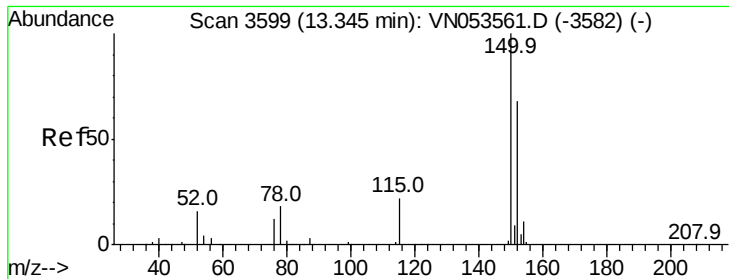
#71
Bromoform
Concen: 0.706 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053863.D
Acq: 19 Feb 2019 12:28

Tgt Ion:173 Resp: 3798
Ion Ratio Lower Upper
173 100
175 737.3 24.6 74.0#
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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampled :

TP-MH-C02

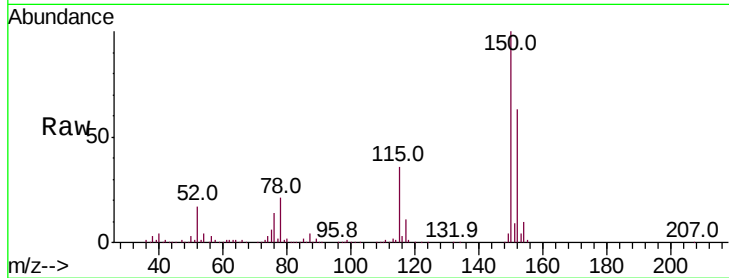
Tot Ion:152 Resp: 432446

Ion Ratio Lower Upper

152 100

115 55.4 27.8 83.4

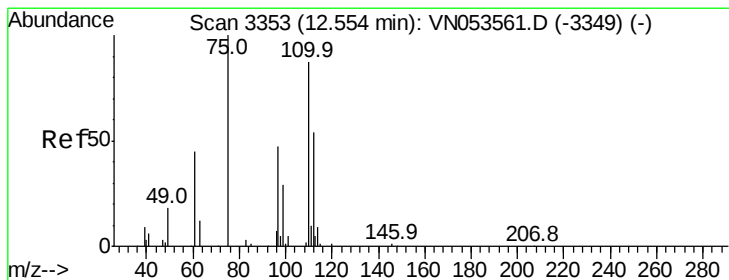
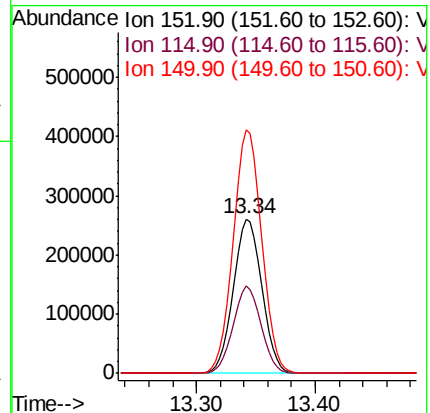
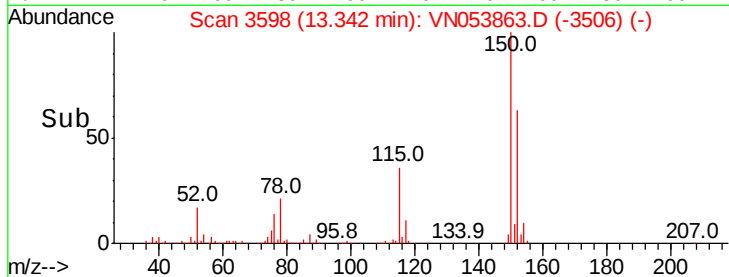
150 157.5 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 38.028 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053863.D

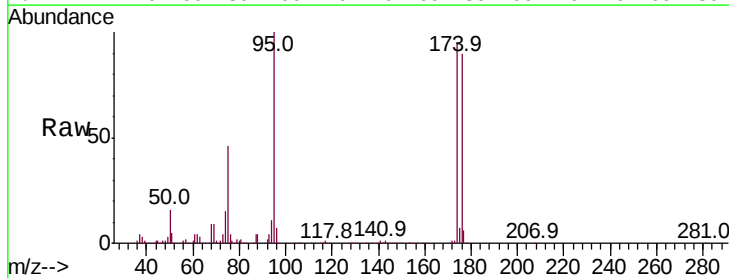
Acq: 19 Feb 2019 12:28

Tgt Ion: 75 Resp: 211226

Ion Ratio Lower Upper

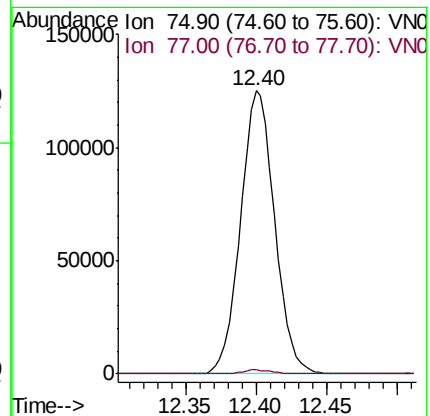
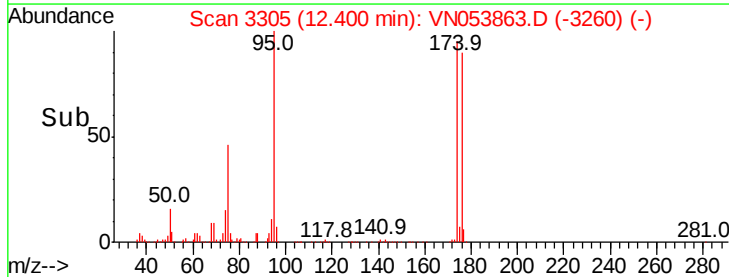
75 100

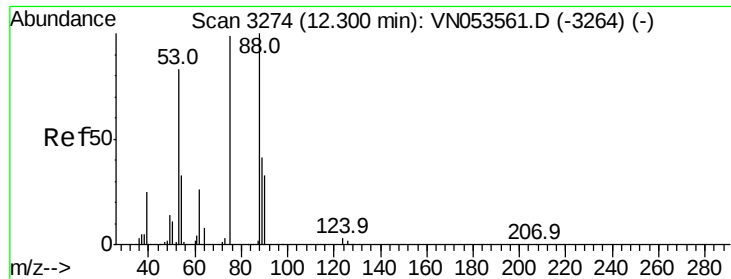
77 1.3 0.0 0.0#



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: 106.931 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Instrument :

MSVOA_N

ClientSampleId :

TP-MH-C02

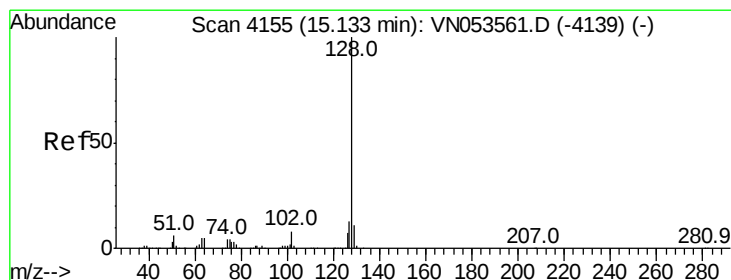
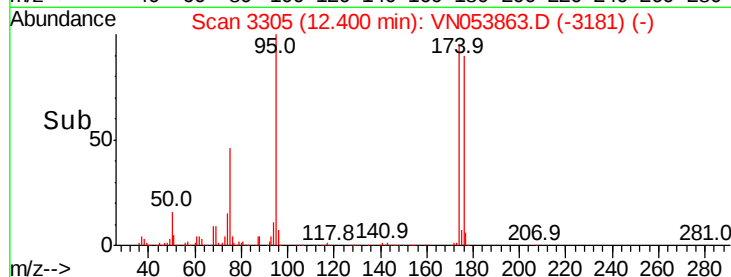
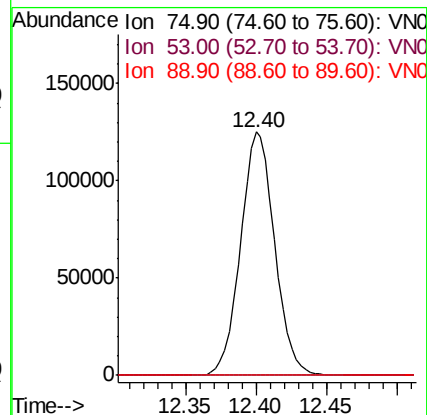
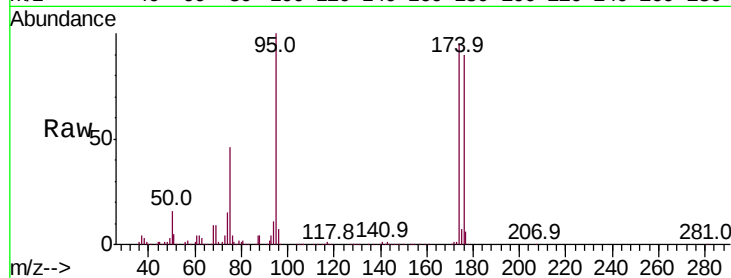
Tot Ion: 75 Resp: 211226

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



#95

Naphthalene

Concen: 1.797 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053863.D

Acq: 19 Feb 2019 12:28

Tgt Ion: 128 Resp: 1185

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#

