

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052314.D
 Acq On : 14 Nov 2018 15:49
 Operator : MD\SY
 Sample : J5164-09 0.2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Quant Time: Nov 15 03:59:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	246948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	436990	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	370155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	127825	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	185928	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	
35) Dibromofluoromethane	7.59	113	142115	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
50) Toluene-d8	10.09	98	543074	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	12.40	95	154755	42.43	ug/l	0.00
Spiked Amount			Recovery	=	84.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	771	0.295	ug/l	89
3) Chloromethane	2.06	50	1304	0.359	ug/l	98
4) Vinyl Chloride	2.19	62	942	0.300	ug/l #	73
5) Bromomethane	2.57	94	631	0.322	ug/l #	64
6) Chloroethane	2.71	64	522	0.294	ug/l #	61
7) Trichlorofluoromethane	3.03	101	1186	0.273	ug/l	99
8) Diethyl Ether	3.41	74	345	0.208	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	3.77	101	779	0.284	ug/l	89
10) Methyl Iodide	3.96	142	1027	0.278	ug/l #	59
11) Tert butyl alcohol	4.79	59	30	0.163	ug/l #	72
12) 1,1-Dichloroethene	3.74	96	546	0.215	ug/l #	56
13) Acrolein	3.62	56	369	22.983	ug/l #	75
14) Allyl chloride	4.33	41	427	0.082	ug/l #	64
15) Acrylonitrile	5.00	53	1208	1.149	ug/l #	25
16) Acetone	3.82	43	2294	2.389	ug/l	97
17) Carbon Disulfide	4.07	76	3362	0.461	ug/l #	83
18) Methyl Acetate	4.32	43	504	0.617	ug/l #	57
19) Methyl tert-butyl Ether	5.05	73	1265	0.173	ug/l	91
20) Methylene Chloride	4.56	84	1949	Below Cal	#	74
21) trans-1,2-Dichloroethene	5.03	96	400	0.146	ug/l #	4
22) Diisopropyl ether	5.96	45	3181	0.299	ug/l #	81
23) Vinyl Acetate	5.90	43	6341	0.878	ug/l	98
24) 1,1-Dichloroethane	5.84	63	1448	0.254	ug/l #	85
25) 2-Butanone	6.85	43	1320	0.977	ug/l #	52
26) 2,2-Dichloropropane	6.81	77	500	0.119	ug/l #	66
27) cis-1,2-Dichloroethene	6.83	96	761	0.239	ug/l	93
28) Bromochloromethane	7.19	49	879	0.299	ug/l #	41
29) Tetrahydrofuran	7.21	42	564	0.635	ug/l #	55
30) Chloroform	7.37	83	2866	0.527	ug/l	88
31) Cyclohexane	7.67	56	8586	0.571	ug/l #	23
32) 1,1,1-Trichloroethane	7.57	97	1253	0.270	ug/l #	40
36) 1,1-Dichloropropene	7.80	75	1374	0.314	ug/l	93
37) Ethyl Acetate	6.94	43	113	0.036	ug/l #	72
38) Carbon Tetrachloride	7.78	117	830	0.206	ug/l #	59

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.09	83	1710	0.342	ug/l #	74
40) Benzene	8.04	78	2980	0.238	ug/l	98
41) Methacrylonitrile	7.18	41	76	3.735	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	1268	0.284	ug/l	92
43) Isopropyl Acetate	8.20	43	4725	0.770	ug/l #	69
44) Trichloroethene	8.84	130	892	0.289	ug/l	85
45) 1,2-Dichloropropane	9.12	63	864	0.243	ug/l #	85
46) Dibromomethane	9.21	93	451	0.219	ug/l #	54
47) Bromodichloromethane	9.41	83	1137	0.270	ug/l #	82
48) Methyl methacrylate	9.20	41	1138	0.366	ug/l #	34
51) 4-Methyl-2-Pentanone	9.99	43	3075	0.996	ug/l #	80
52) Toluene	10.16	92	1879	0.251	ug/l	94
53) t-1,3-Dichloropropene	10.39	75	1059	0.249	ug/l #	54
54) cis-1,3-Dichloropropene	9.84	75	1160	0.239	ug/l #	80
55) 1,1,2-Trichloroethane	10.56	97	704	0.259	ug/l	91
56) Ethyl methacrylate	10.43	69	669	0.187	ug/l #	74
57) 1,3-Dichloropropane	10.70	76	1262	0.263	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1996	0.982	ug/l #	83
59) 2-Hexanone	10.75	43	2923	1.376	ug/l	94
60) Dibromochloromethane	10.90	129	485	0.165	ug/l	90
61) 1,2-Dibromoethane	11.01	107	656	0.243	ug/l	87
64) Tetrachloroethene	10.63	164	708	0.269	ug/l #	81
65) Chlorobenzene	11.43	112	2211	0.283	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.50	131	532	0.199	ug/l #	40
67) Ethyl Benzene	11.51	91	3320	0.244	ug/l	96
68) m/p-Xylenes	11.62	106	2589	0.522	ug/l	99
69) o-Xylene	11.94	106	1106	0.233	ug/l	75
70) Stvrene	11.96	104	2059	0.270	ug/l	90
71) Bromoform	12.13	173	225	0.143	ug/l #	27
73) Isopropylbenzene	12.25	105	2925	0.285	ug/l	82
74) N-amyl acetate	12.07	43	1513	0.413	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.49	83	512	0.206	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	85927	39.617	ug/l #	100
77) Bromobenzene	12.53	156	789	0.330	ug/l	87
78) n-propylbenzene	12.59	91	3225	0.268	ug/l	90
79) 2-Chlorotoluene	12.67	91	2225	0.317	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	2186	0.267	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	85927	128.493	ug/l #	5
82) 4-Chlorotoluene	12.77	91	2564	0.356	ug/l	88
83) tert-Butylbenzene	12.99	119	2159	0.299	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	2262	0.276	ug/l	99
85) sec-Butylbenzene	13.17	105	2606	0.265	ug/l	98
86) p-Isopropyltoluene	13.29	119	2065	0.248	ug/l	94
87) 1,3-Dichlorobenzene	13.28	146	1298	0.306	ug/l	96
88) 1,4-Dichlorobenzene	13.28	146	1298	0.307	ug/l	97
89) n-Butylbenzene	13.61	91	1832	0.256	ug/l	87
90) Hexachloroethane	13.87	117	384	0.260	ug/l	61
91) 1,2-Dichlorobenzene	13.65	146	1305	0.317	ug/l	92
93) 1,2,4-Trichlorobenzene	14.90	180	430	2.471	ug/l #	66
94) Hexachlorobutadiene	15.01	225	355	0.377	ug/l #	50

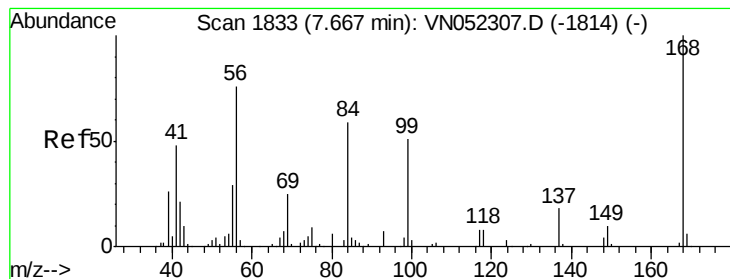
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	15.13	128	1362	2.890	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.30	180	499	0.319	ug/l #	68

(#) = 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: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

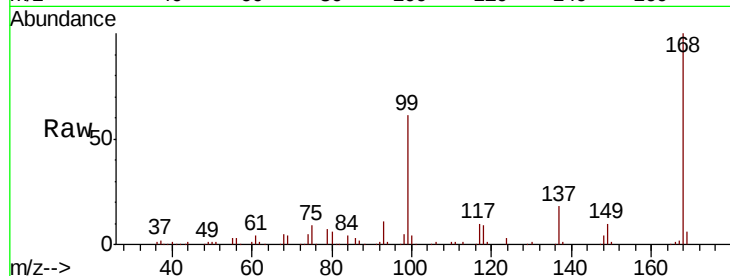
MDL-WATER-03-QT4-2018

Tot Ion:168 Resp: 246948

Ion Ratio Lower Upper

168 100

99 60.6 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

120000

100000

80000

60000

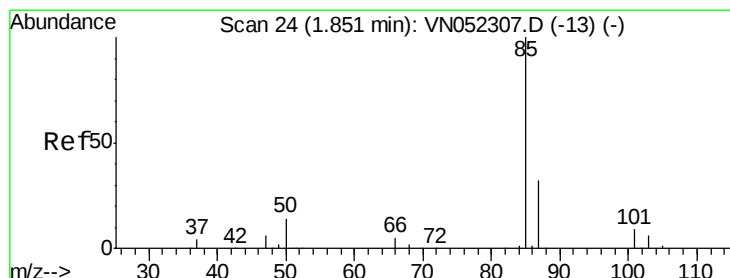
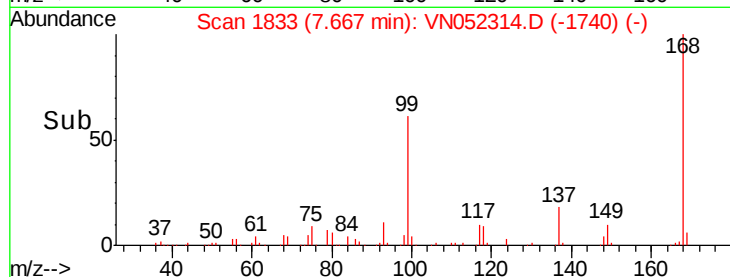
40000

20000

0

Time-->

7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 0.295 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052314.D

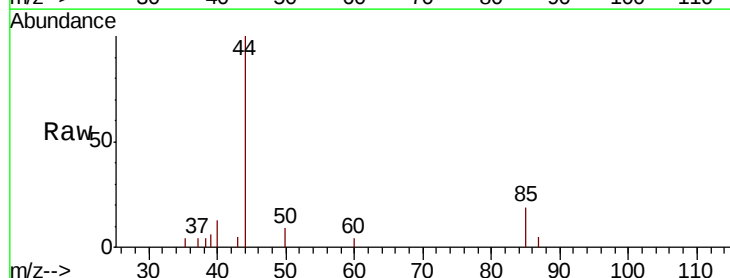
Acq: 14 Nov 2018 15:49

Tgt Ion: 85 Resp: 771

Ion Ratio Lower Upper

85 100

87 25.4 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

800

600

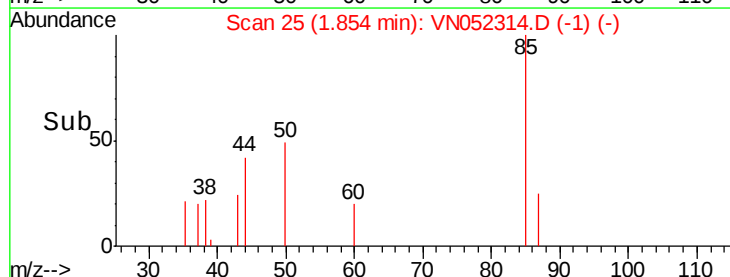
400

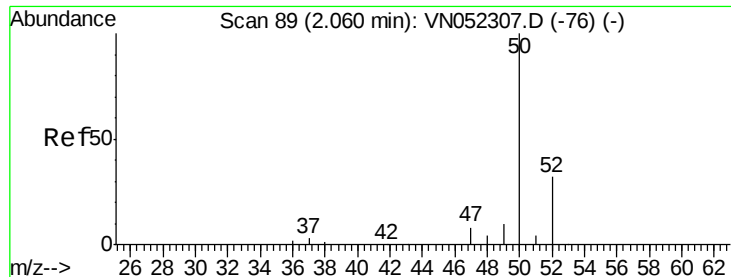
200

0

Time-->

1.82 1.84 1.86 1.88





#3

Chloromethane

Concen: 0.359 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

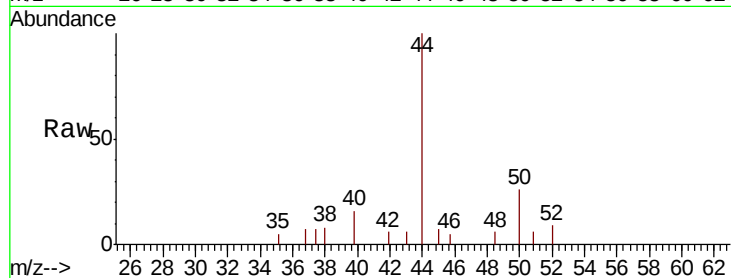
MDL-WATER-03-QT4-2018

Tot Ion: 50 Resp: 1304

Ion Ratio Lower Upper

50 100

52 33.1 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

800

600

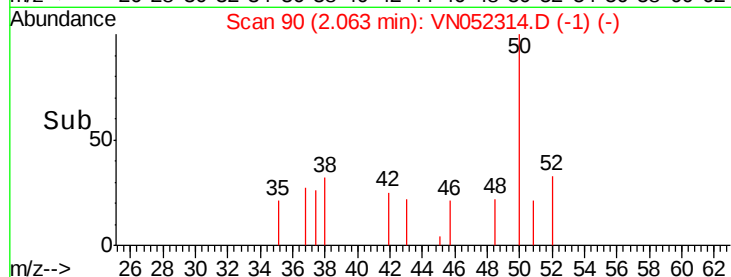
400

200

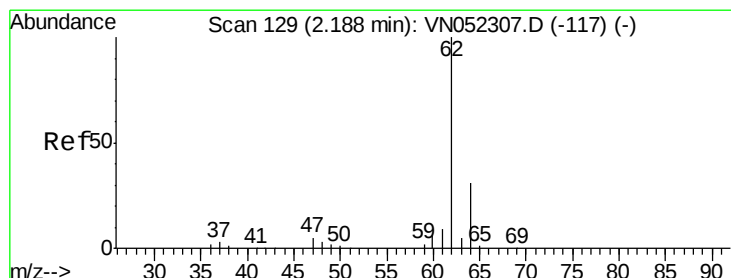
0

2.05

2.10



Time-->



#4

Vinyl Chloride

Concen: 0.300 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052314.D

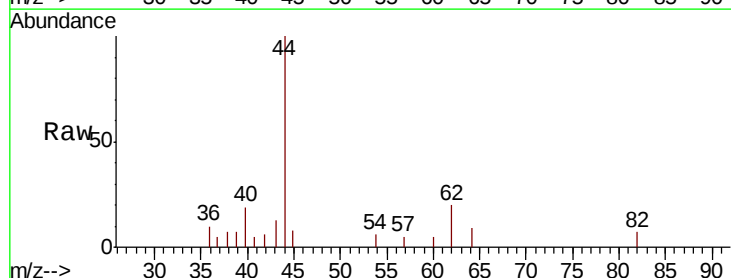
Acq: 14 Nov 2018 15:49

Tgt Ion: 62 Resp: 942

Ion Ratio Lower Upper

62 100

64 46.3 25.2 37.8#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

600

400

200

0

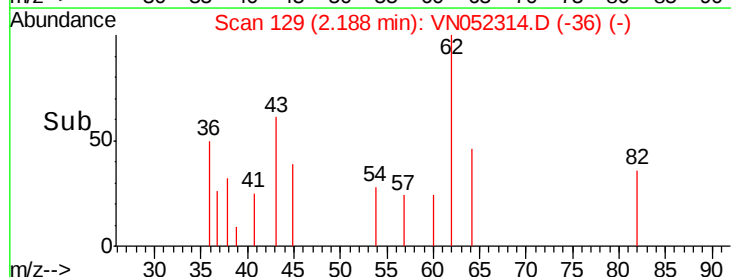
2.14

2.16

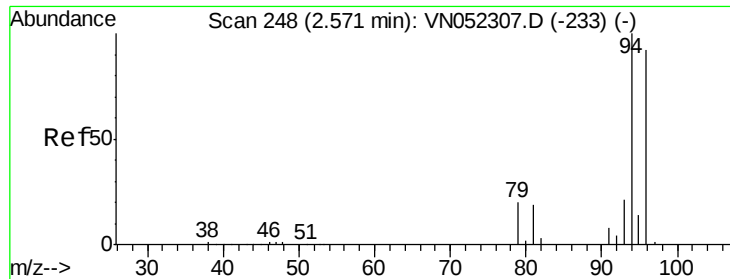
2.18

2.20

2.22



Time-->



#5

Bromomethane

Concen: 0.322 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

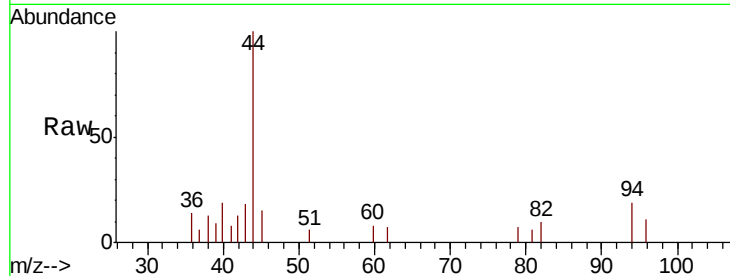
MDL-WATER-03-QT4-2018

Tot Ion: 94 Resp: 631

Ion Ratio Lower Upper

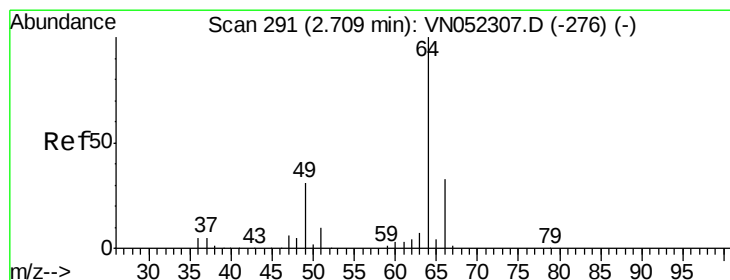
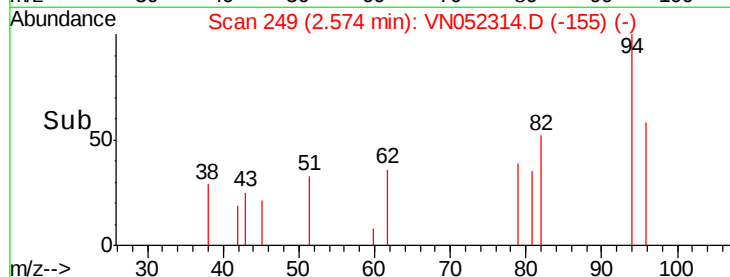
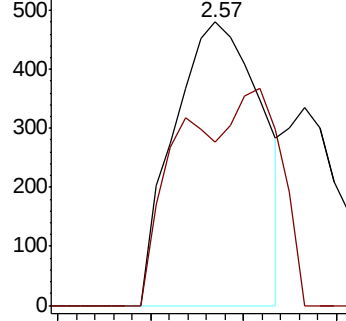
94 100

96 57.5 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 0.294 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052314.D

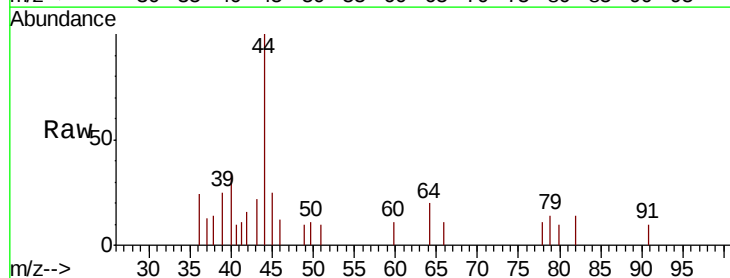
Acq: 14 Nov 2018 15:49

Tgt Ion: 64 Resp: 522

Ion Ratio Lower Upper

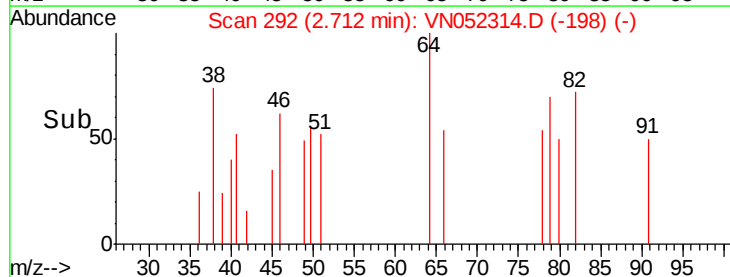
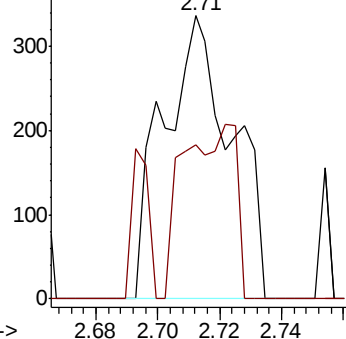
64 100

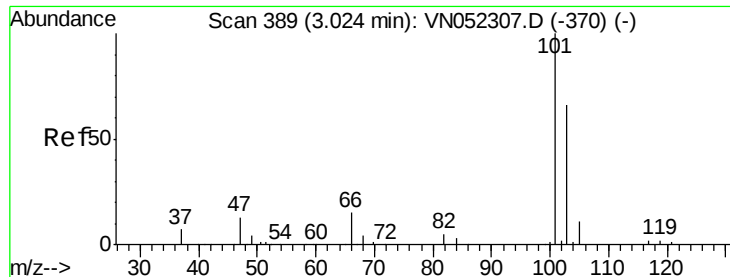
66 54.5 26.2 39.2#



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO



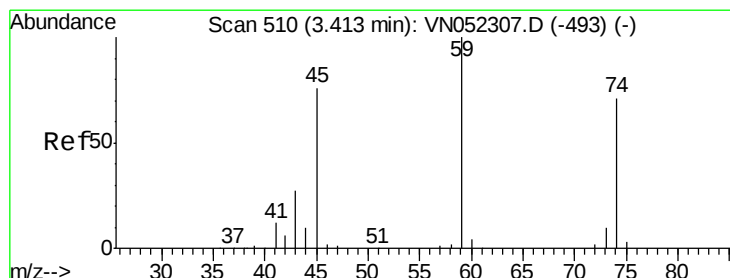
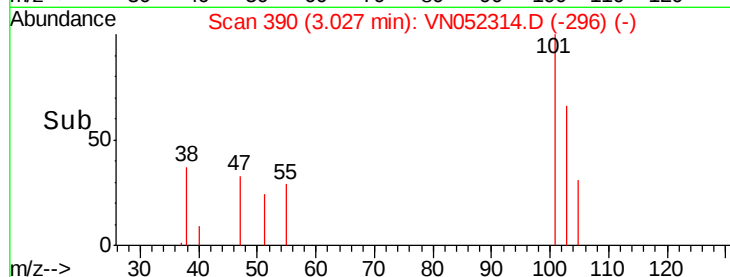
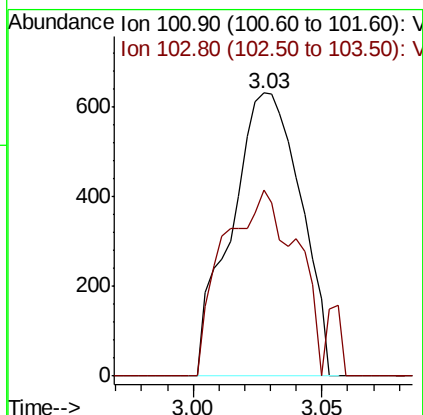
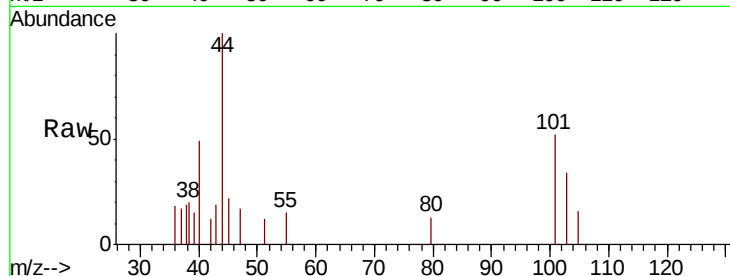


#7

Trichlorofluoromethane
Concen: 0.273 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Instrument :
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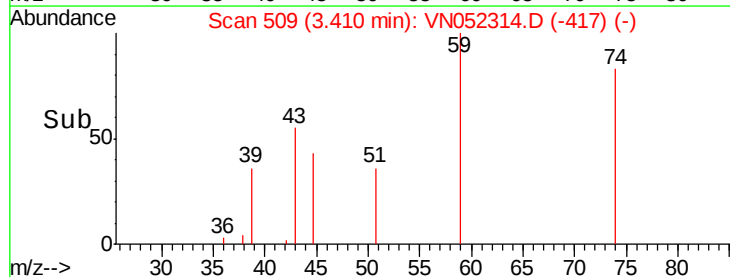
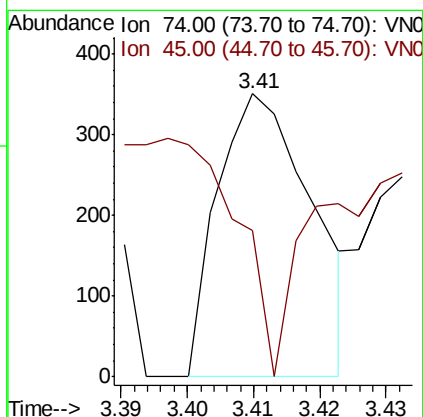
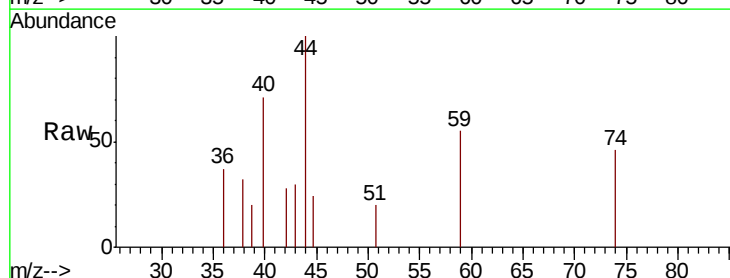
Tot Ion:101 Resp: 1186
Ion Ratio Lower Upper
101 100
103 65.5 52.8 79.2

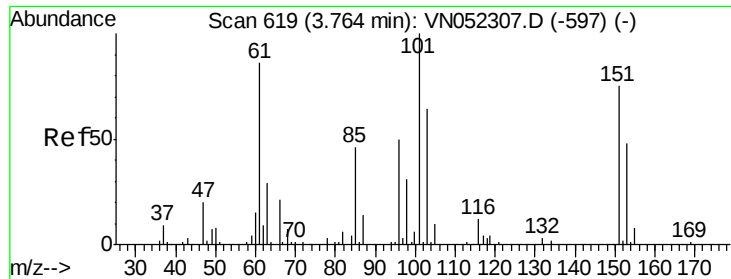


#8

Diethyl Ether
Concen: 0.208 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 74 Resp: 345
Ion Ratio Lower Upper
74 100
45 0.0 54.3 162.9#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.284 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

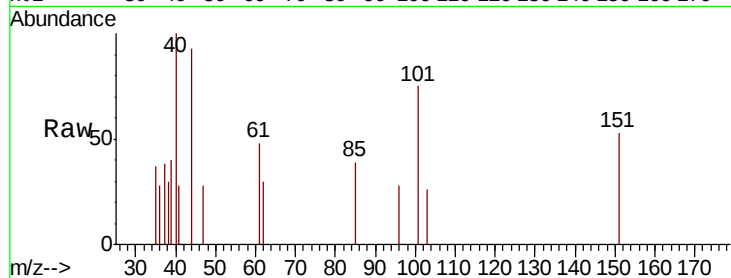
Tot Ion:101 Resp: 779

Ion Ratio Lower Upper

101 100

85 38.1 37.4 56.0

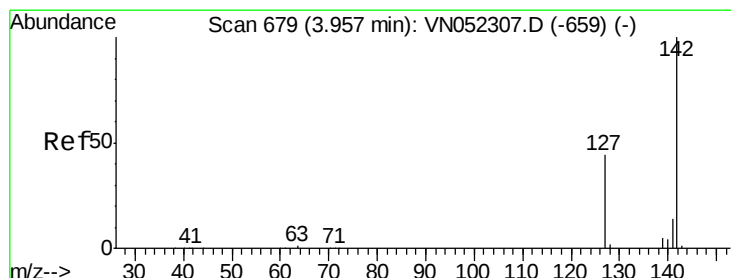
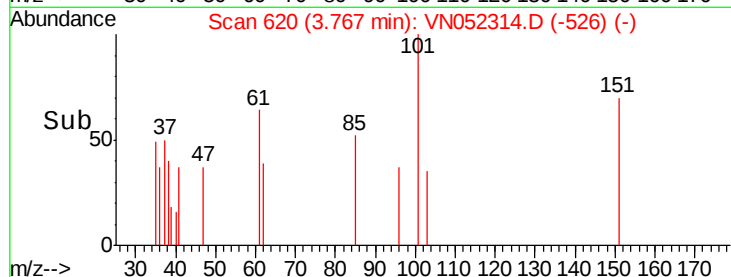
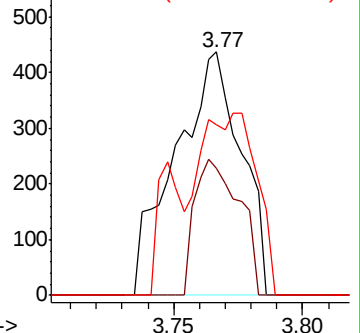
151 65.3 58.6 88.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.278 ug/l

RT: 3.96 min Scan# 681

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

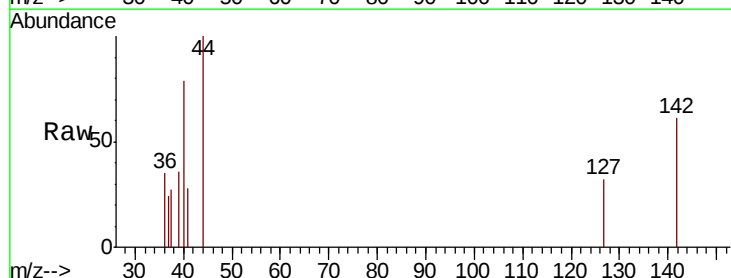
Tgt Ion:142 Resp: 1027

Ion Ratio Lower Upper

142 100

127 17.5 36.3 54.5#

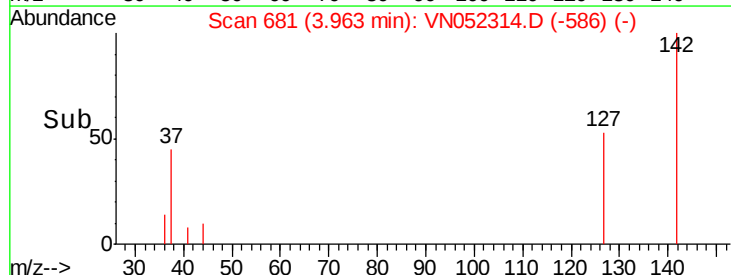
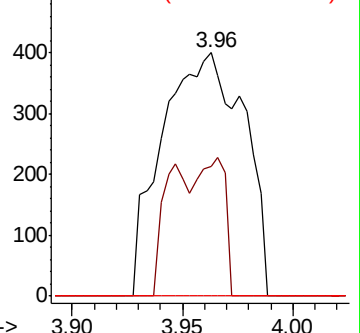
141 0.0 11.4 17.2#

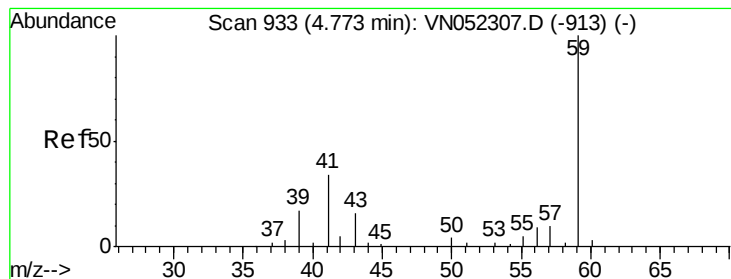


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



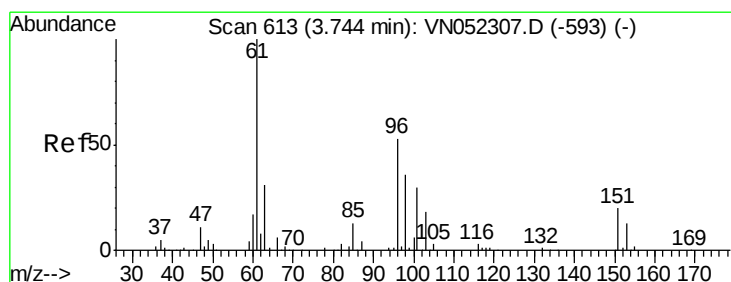
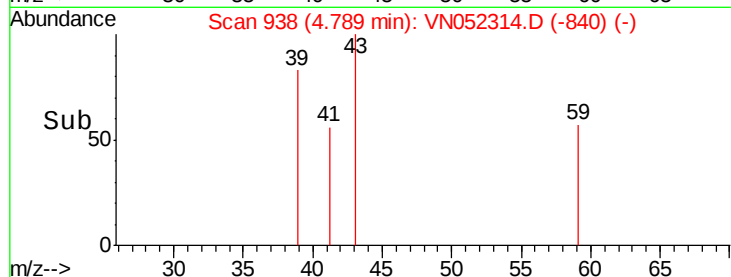
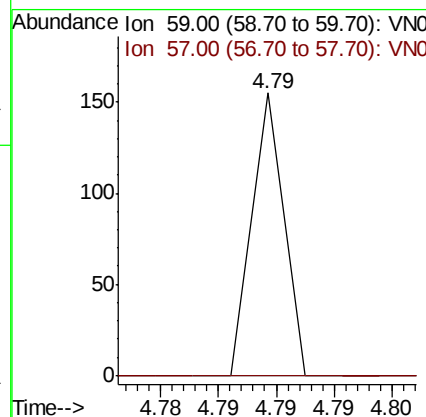
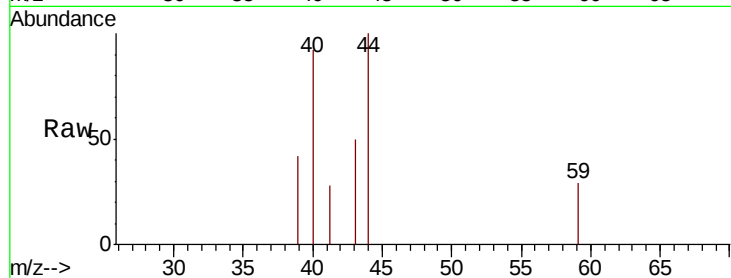


#11

Tert butyl alcohol
 Concen: 0.163 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.02 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

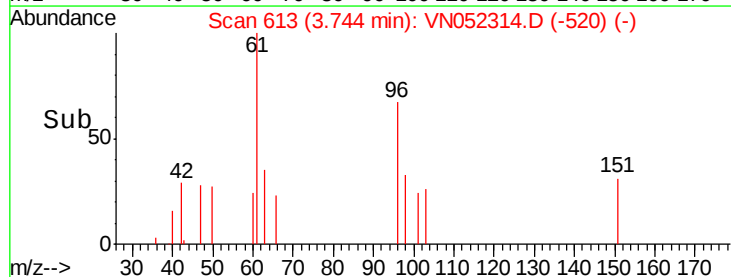
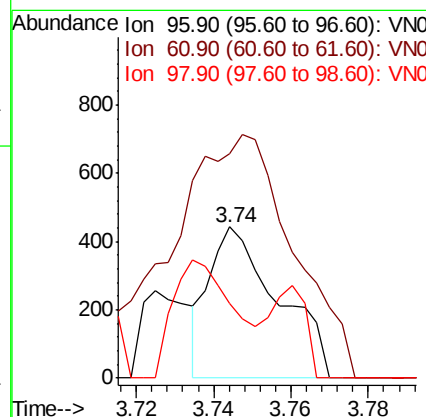
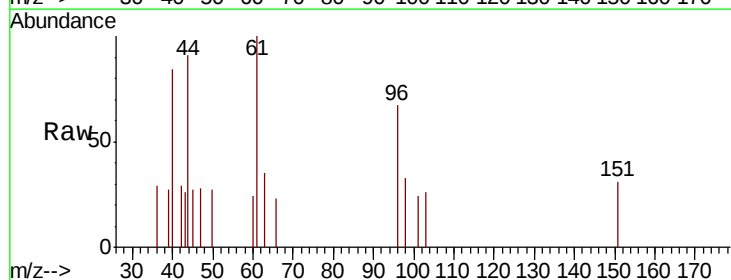
Tot Ion: 59 Resp: 30
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

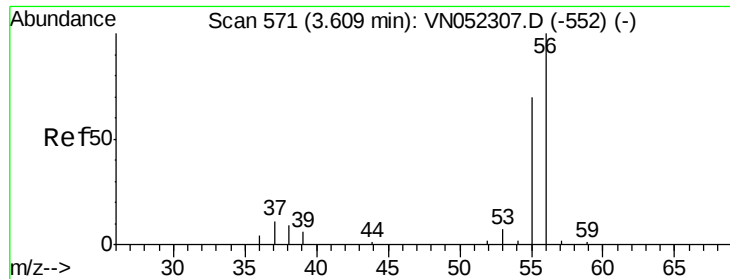


#12

1,1-Dichloroethene
 Concen: 0.215 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Tgt Ion: 96 Resp: 546
 Ion Ratio Lower Upper
 96 100
 61 112.7 149.6 224.4#
 98 49.3 54.2 81.2#





#13

Acrolein

Concen: 22.983 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

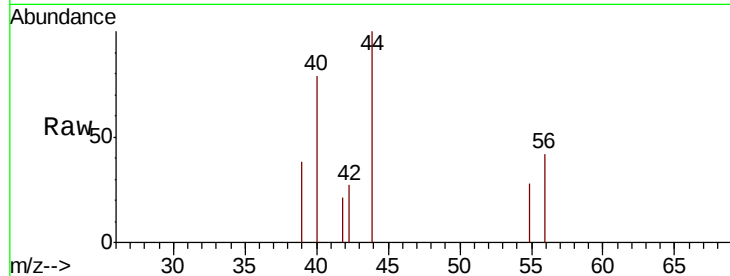
MDL-WATER-03-QT4-2018

Tot Ion: 56 Resp: 369

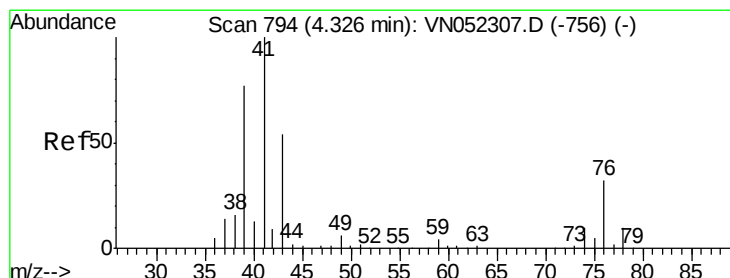
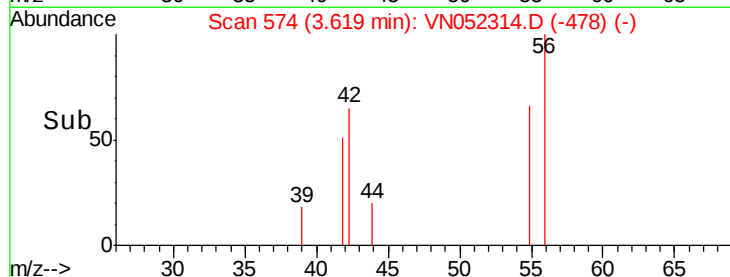
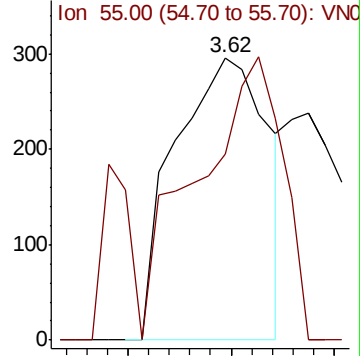
Ion Ratio Lower Upper

56 100

55 93.2 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO



#14

Allyl chloride

Concen: 0.082 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

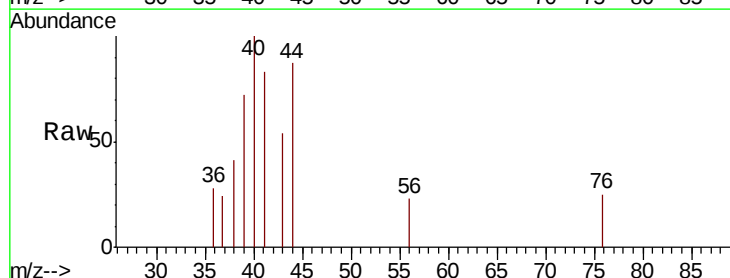
Tgt Ion: 41 Resp: 427

Ion Ratio Lower Upper

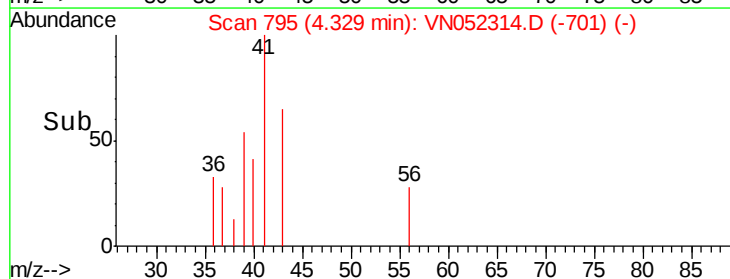
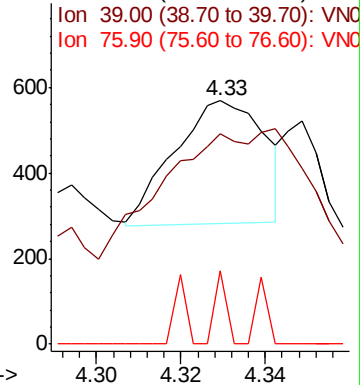
41 100

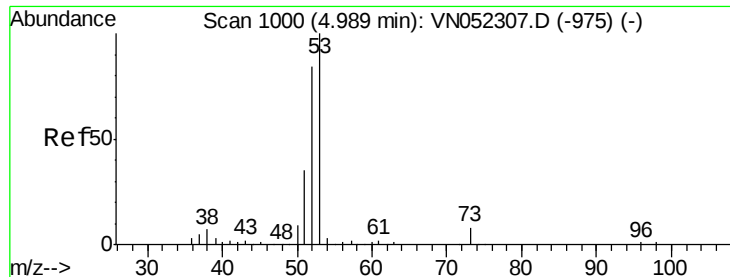
39 98.1 59.1 88.7#

76 0.0 24.1 36.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO





#15

Acrylonitrile

Concen: 1.149 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

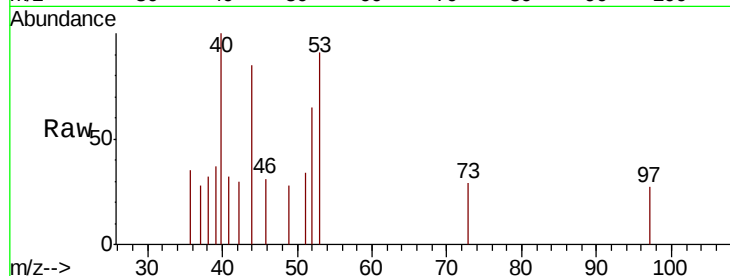
Tot Ion: 53 Resp: 1208

Ion Ratio Lower Upper

53 100

52 5.7 67.5 101.3#

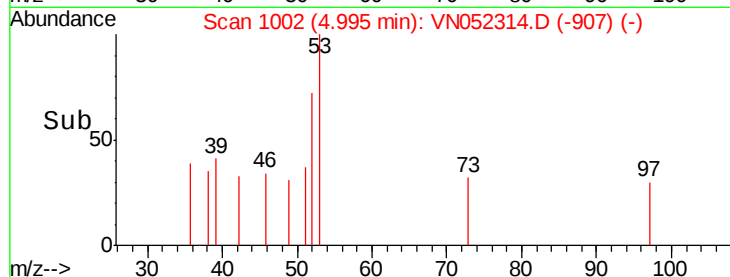
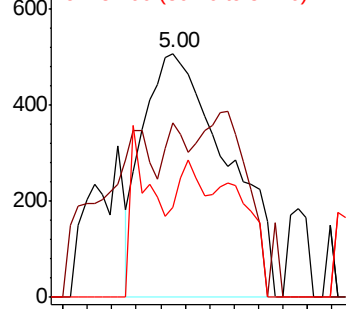
51 9.0 29.9 44.9#



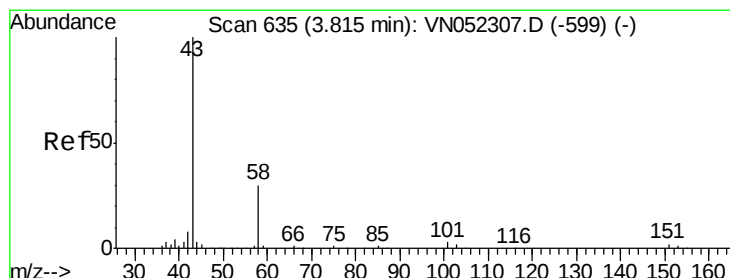
Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



Time-->



#16

Acetone

Concen: 2.389 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052314.D

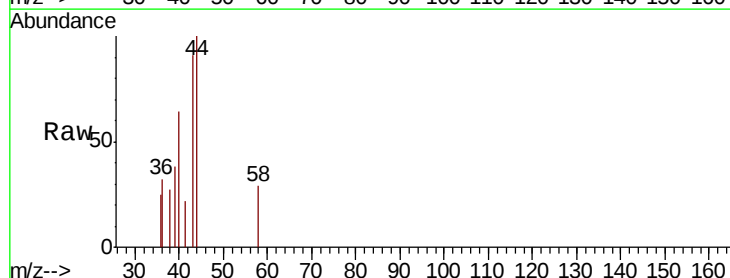
Acq: 14 Nov 2018 15:49

Tgt Ion: 43 Resp: 2294

Ion Ratio Lower Upper

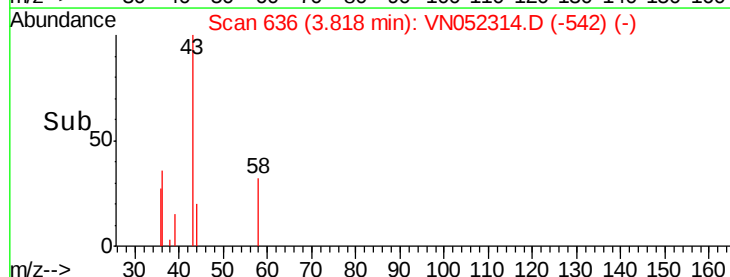
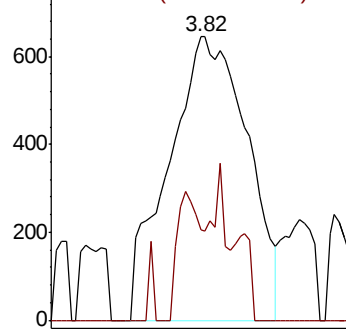
43 100

58 32.1 24.2 36.4

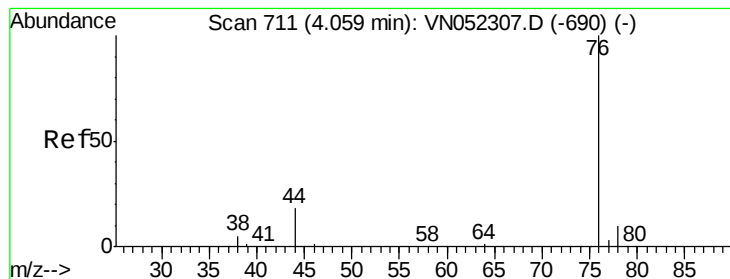


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#17

Carbon Disulfide

Concen: 0.461 ug/l

RT: 4.07 min Scan# 713

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

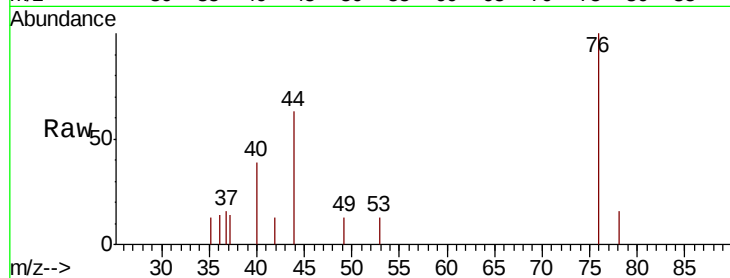
MDL-WATER-03-QT4-2018

Tot Ion: 76 Resp: 3362

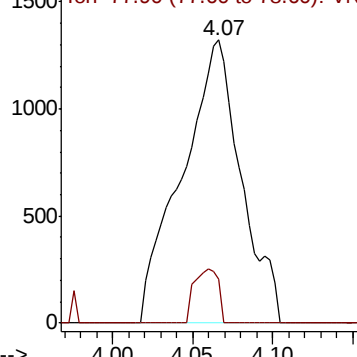
Ion Ratio Lower Upper

76 100

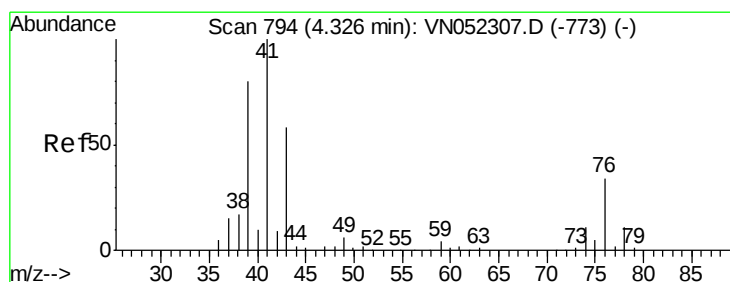
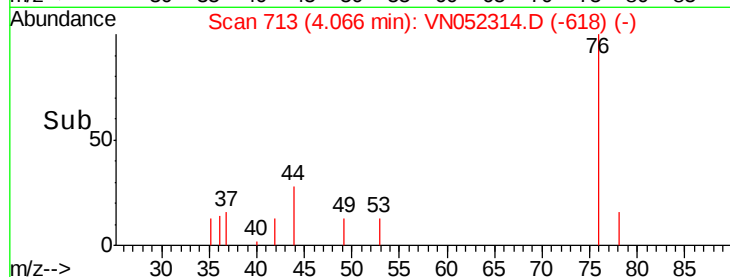
78 15.7 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



Time-->



#18

Methyl Acetate

Concen: 0.617 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.01 min

Lab File: VN052314.D

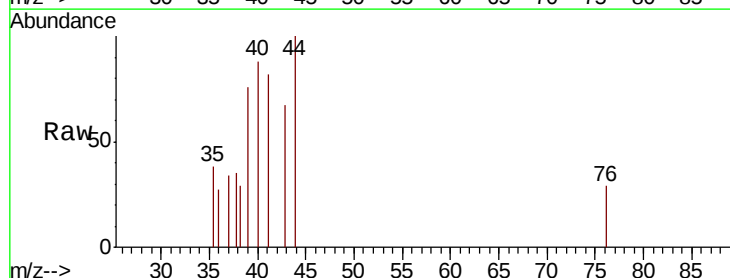
Acq: 14 Nov 2018 15:49

Tgt Ion: 43 Resp: 504

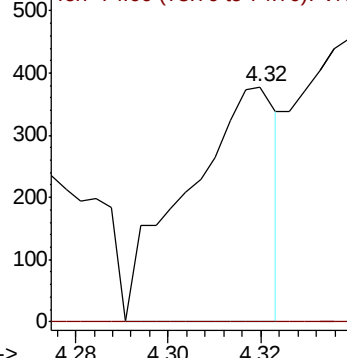
Ion Ratio Lower Upper

43 100

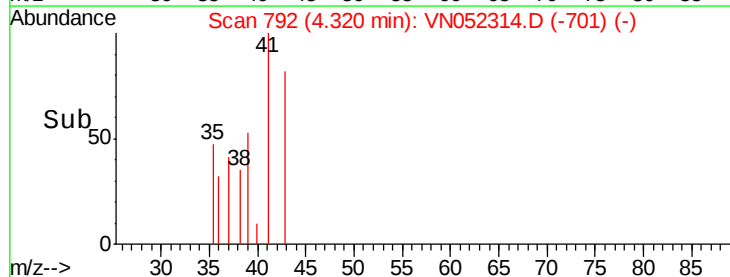
74 0.0 15.9 23.9#

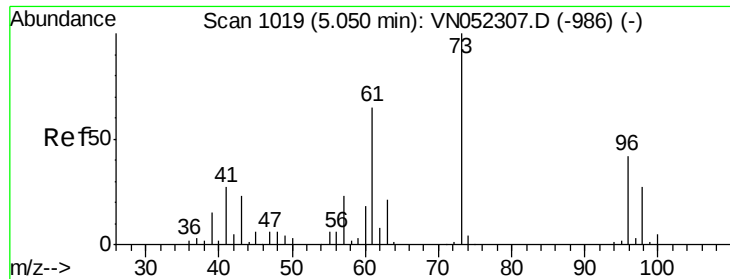


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO



Time-->

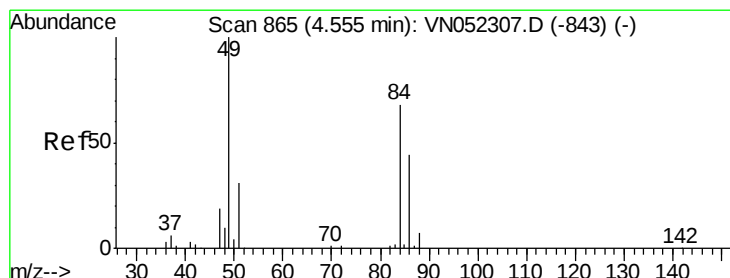
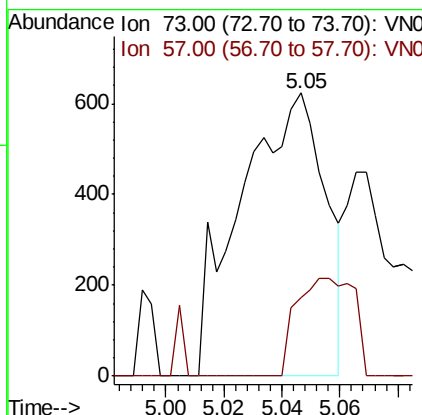
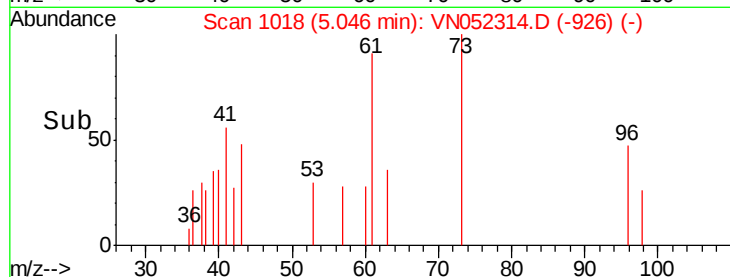
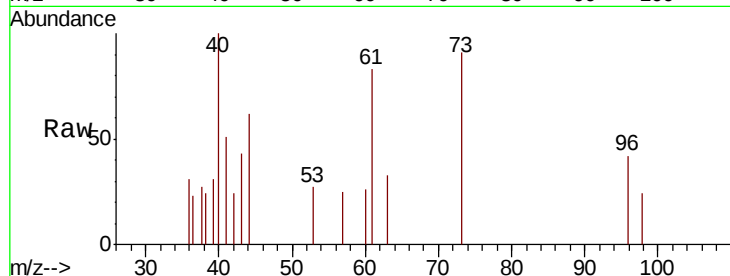




#19
Methvl tert-butvl Ether
Concen: 0.173 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

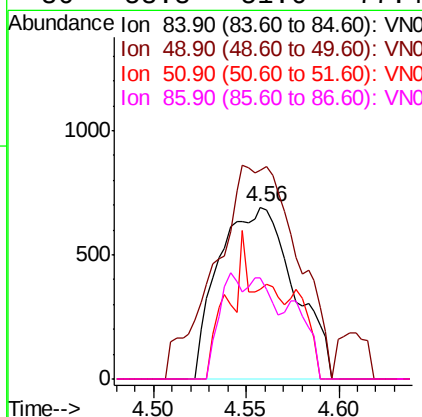
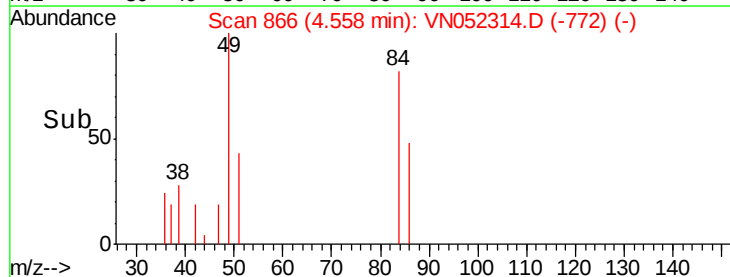
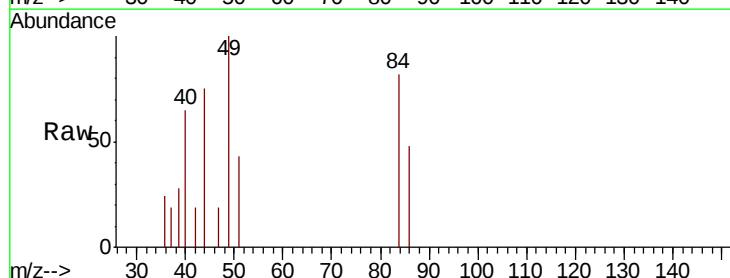
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

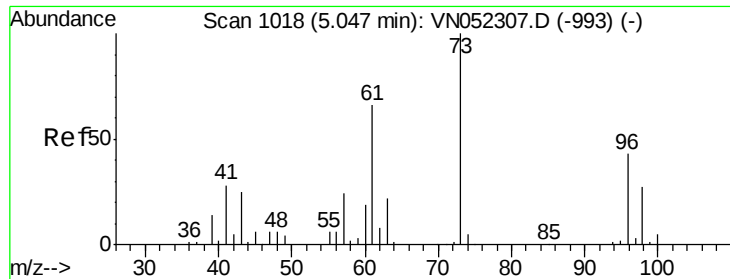
Tot Ion: 73 Resp: 1265
Ion Ratio Lower Upper
73 100
57 27.9 18.7 28.1



#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 84 Resp: 1949
Ion Ratio Lower Upper
84 100
49 98.3 118.2 177.2#
51 52.4 36.1 54.1
86 58.8 51.6 77.4

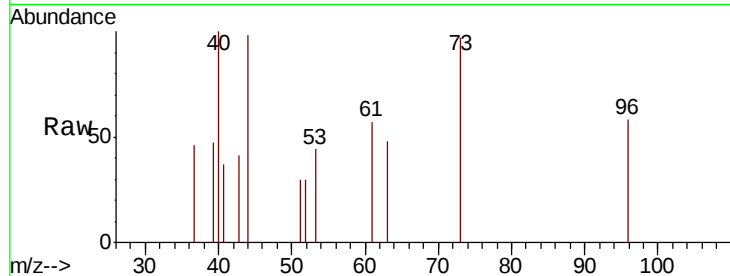




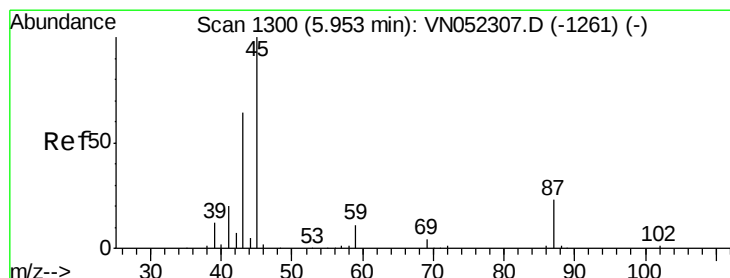
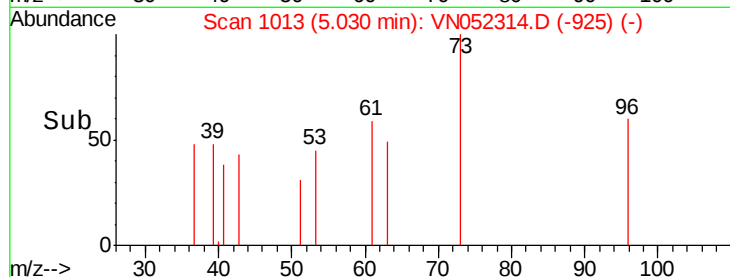
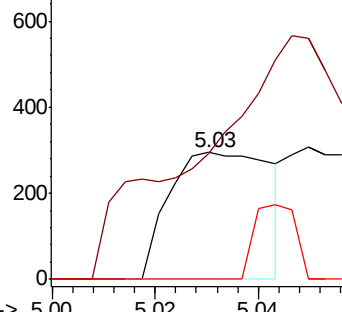
#21
trans-1,2-Dichloroethene
Concen: 0.146 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.02 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion: 96 Resp: 400
Ion Ratio Lower Upper
96 100
61 22.0 123.6 185.4#
98 0.0 50.7 76.1#

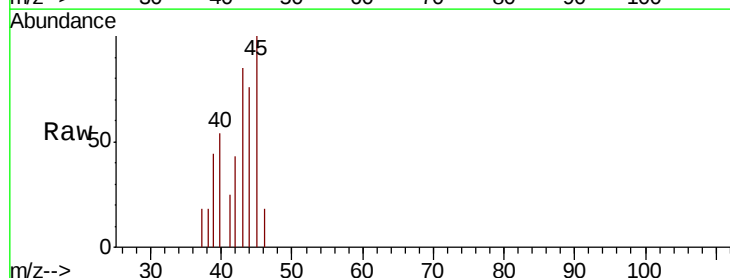


Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO

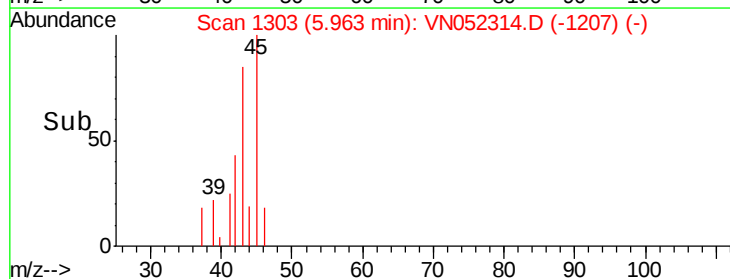
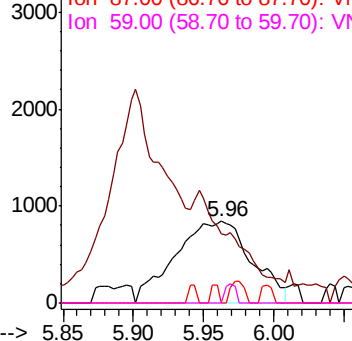


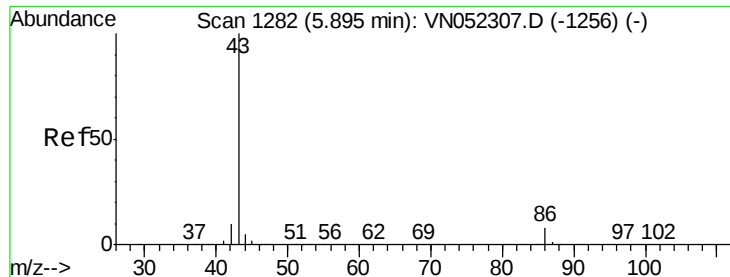
#22
Diisopropyl ether
Concen: 0.299 ug/l
RT: 5.96 min Scan# 1303
Delta R.T. 0.01 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 45 Resp: 3181
Ion Ratio Lower Upper
45 100
43 59.2 51.4 77.2
87 0.0 18.8 28.2#
59 0.0 8.6 12.8#



Abundance Ion 45.00 (44.70 to 45.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 87.00 (86.70 to 87.70): VNO
Ion 59.00 (58.70 to 59.70): VNO

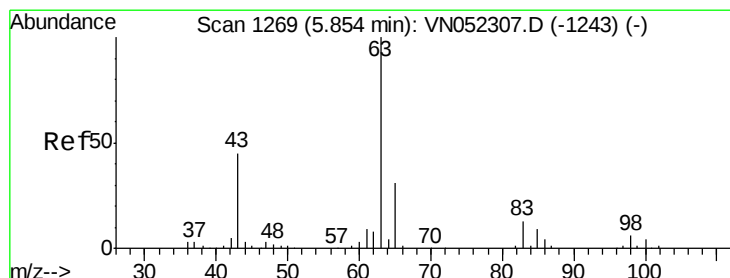
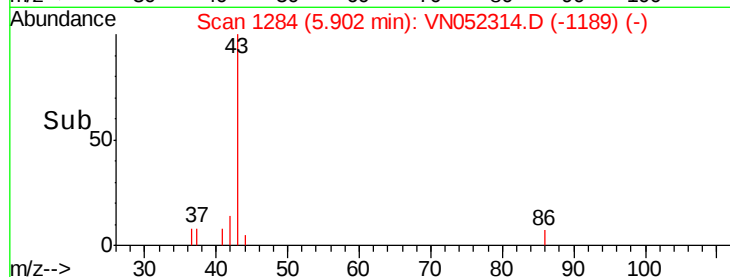
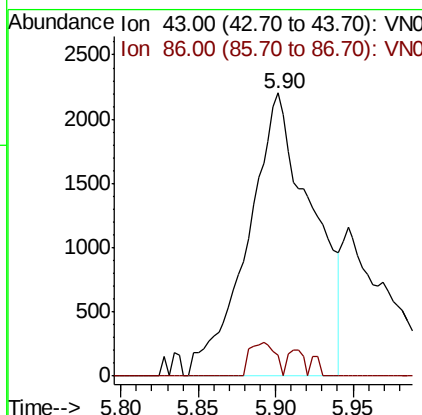
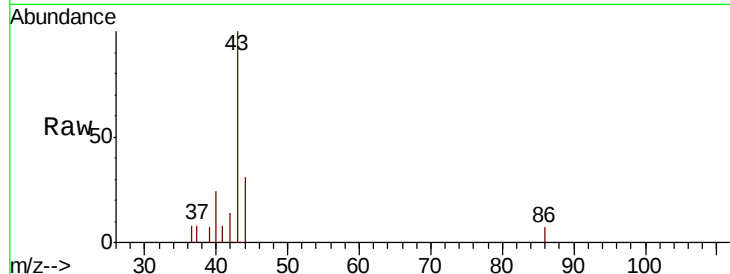




#23
 Vinyl Acetate
 Concen: 0.878 ug/l
 RT: 5.90 min Scan# 1284
 Delta R.T. 0.01 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

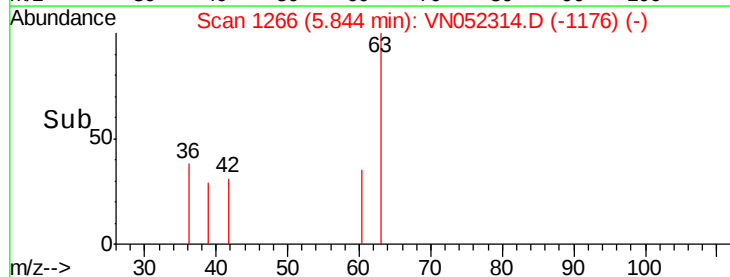
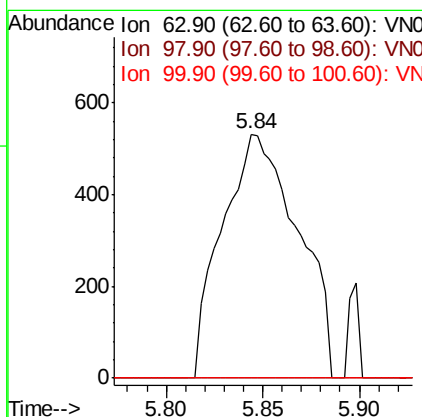
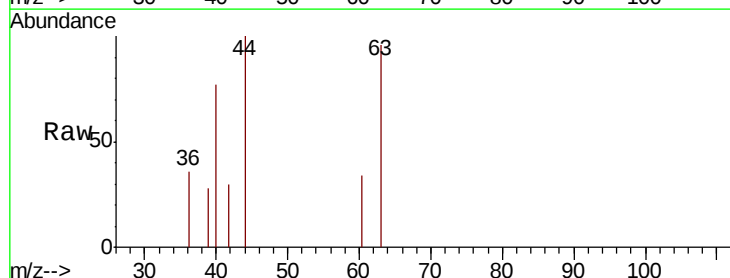
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

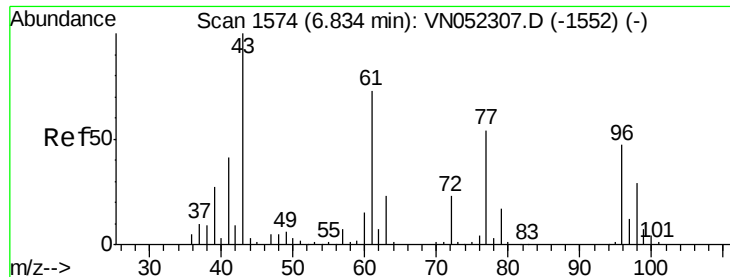
Tot Ion: 43 Resp: 6341
 Ion Ratio Lower Upper
 43 100
 86 7.2 6.5 9.7



#24
 1,1-Dichloroethane
 Concen: 0.254 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. -0.01 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Tgt Ion: 63 Resp: 1448
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.9 8.6#
 100 0.0 1.9 5.7#





#25

2-Butanone

Concen: 0.977 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

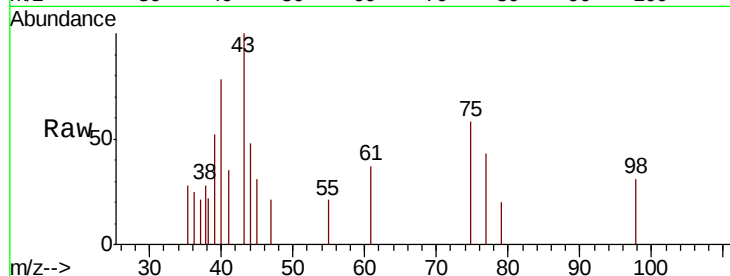
MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 1320

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

800

600

400

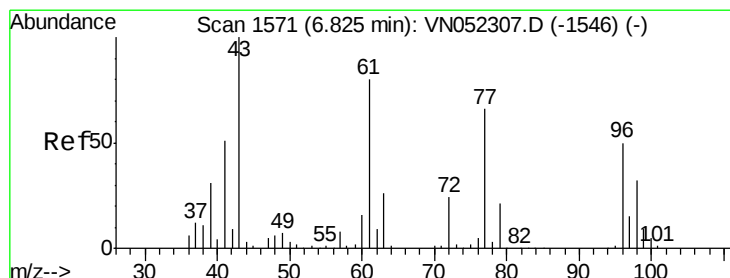
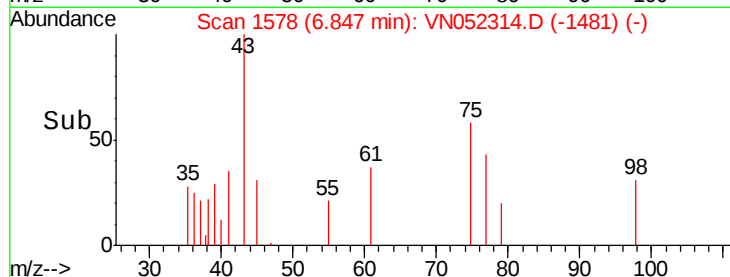
200

0

6.80

6.85

Time-->



#26

2,2-Dichloropropane

Concen: 0.119 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.02 min

Lab File: VN052314.D

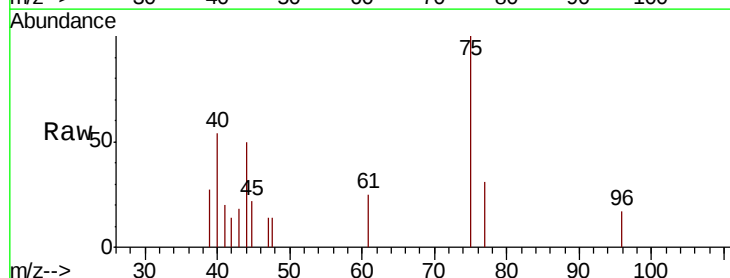
Acq: 14 Nov 2018 15:49

Tgt Ion: 77 Resp: 500

Ion Ratio Lower Upper

77 100

97 5.8 11.1 33.1#



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

400

300

200

100

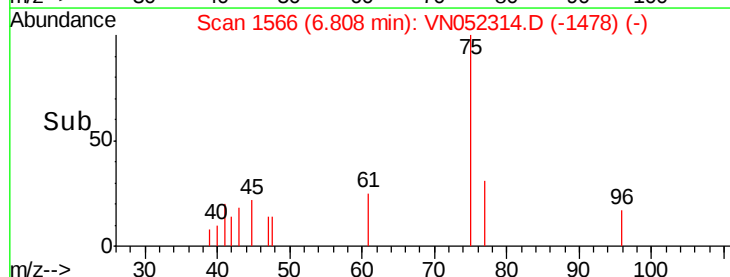
0

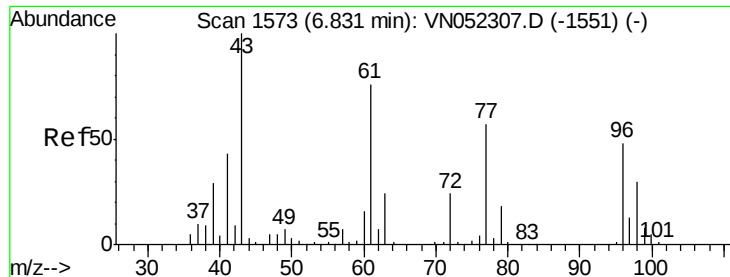
6.78

6.80

6.82

Time-->





#27

cis-1,2-Dichloroethene

Concen: 0.239 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

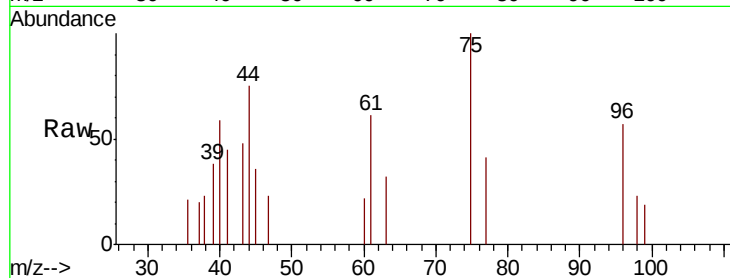
Tot Ion: 96 Resp: 761

Ion Ratio Lower Upper

96 100

61 169.5 0.0 316.8

98 59.5 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

800

600

400

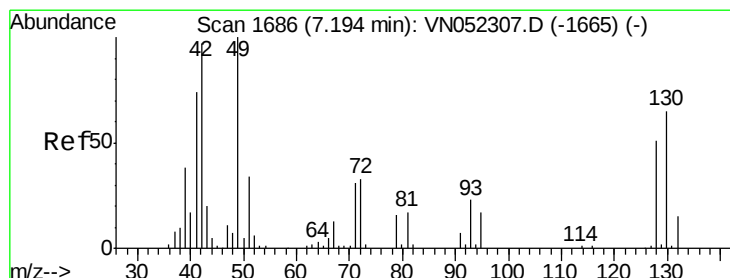
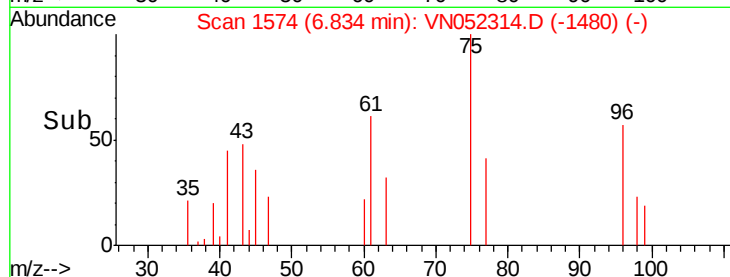
200

0

6.78 6.80 6.82 6.84 6.86

6.83

Time-->



#28

Bromochloromethane

Concen: 0.299 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

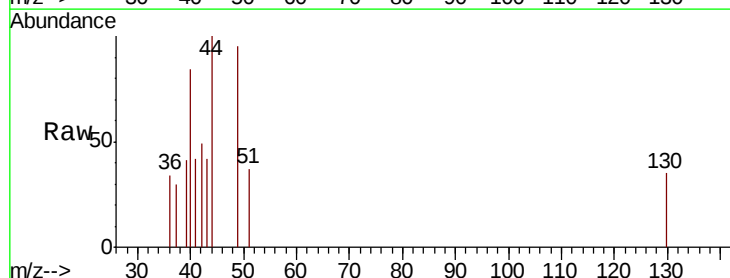
Tgt Ion: 49 Resp: 879

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.0

130 15.9 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

600

500

400

300

200

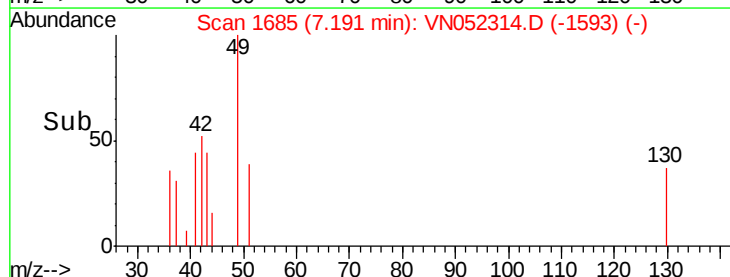
100

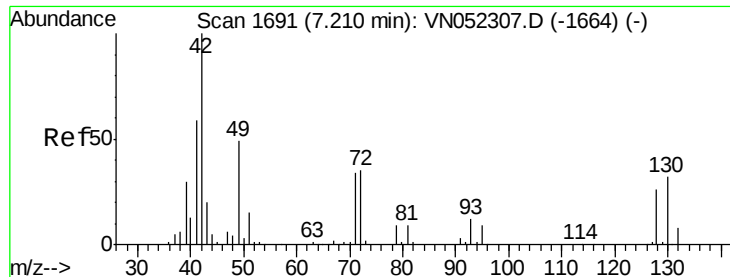
0

7.16 7.18 7.20 7.22 7.24

7.19

Time-->





#29

Tetrahydrofuran

Concen: 0.635 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

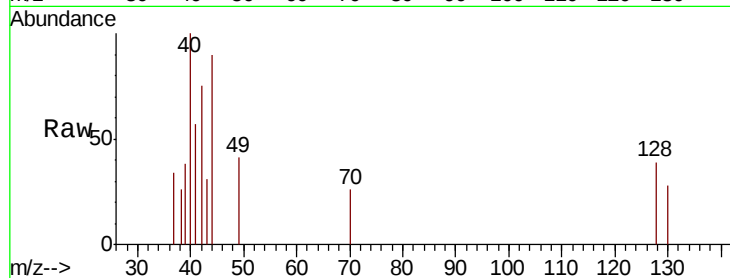
Tot Ion: 42 Resp: 564

Ion Ratio Lower Upper

42 100

72 11.0 28.6 42.8#

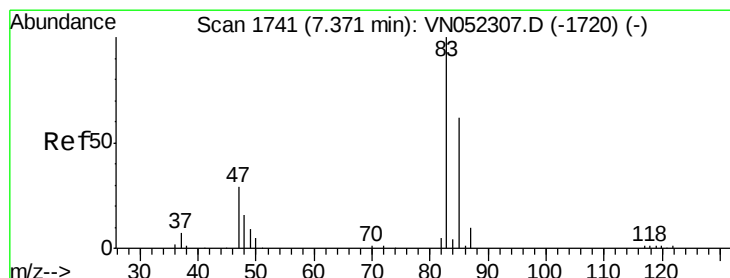
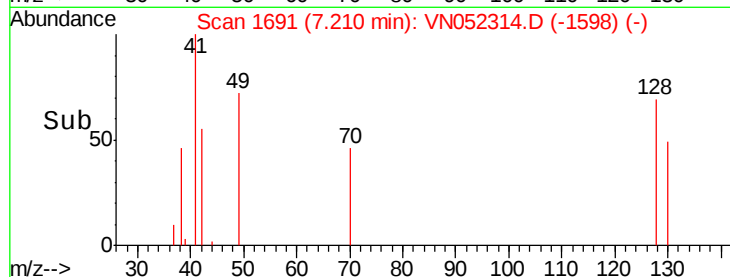
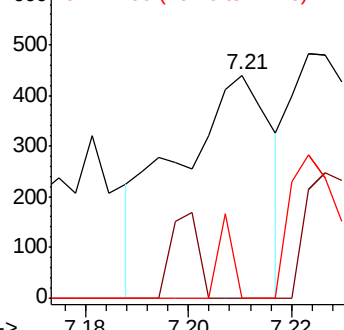
71 5.7 26.7 40.1#



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



#30

Chloroform

Concen: 0.527 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052314.D

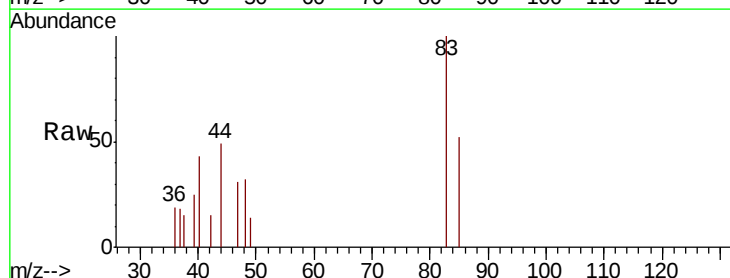
Acq: 14 Nov 2018 15:49

Tgt Ion: 83 Resp: 2866

Ion Ratio Lower Upper

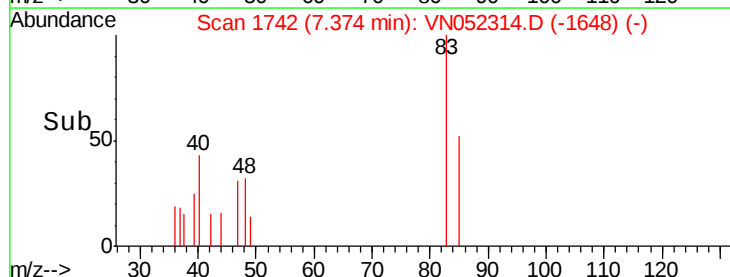
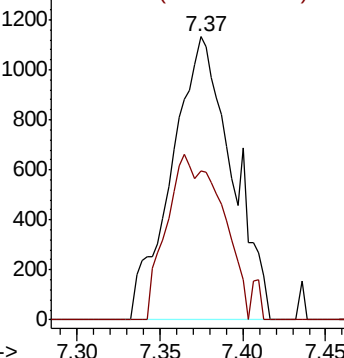
83 100

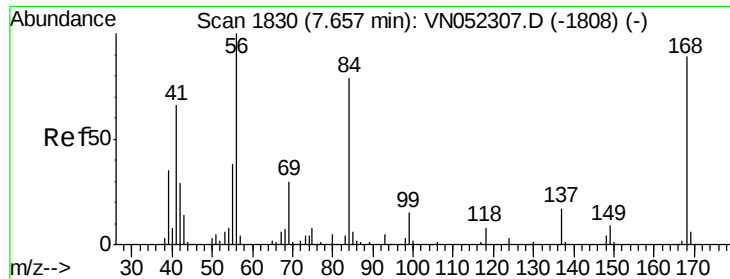
85 52.5 49.4 74.2



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

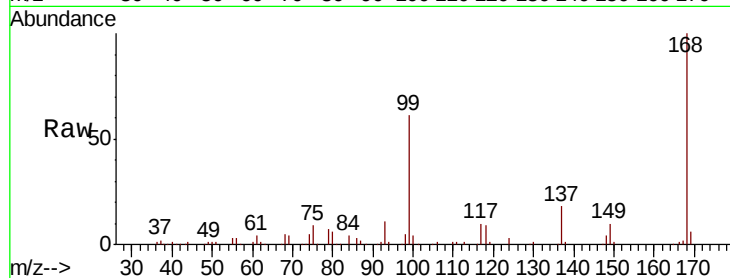




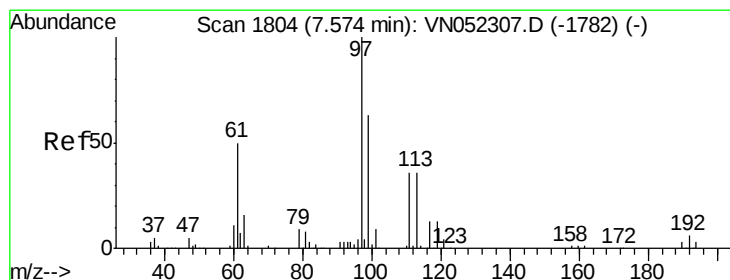
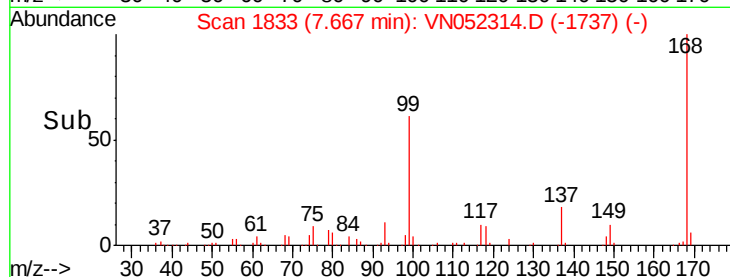
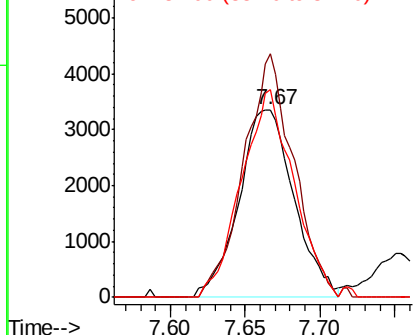
#31
Cyclohexane
Concen: 0.571 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion: 56 Resp: 8586
Ion Ratio Lower Upper
56 100
69 129.7 23.8 35.8#
84 110.4 63.0 94.6#

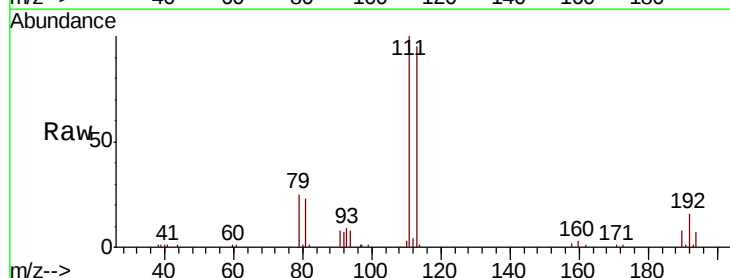


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

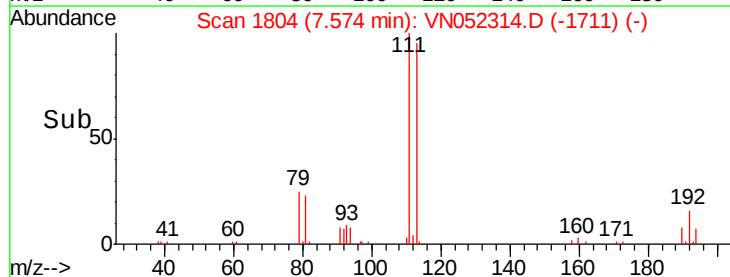
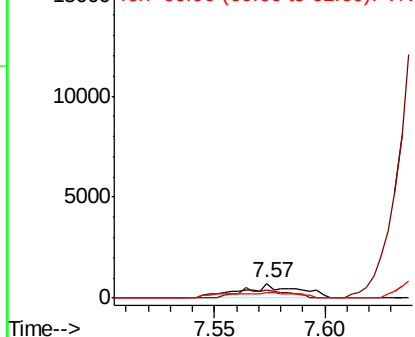


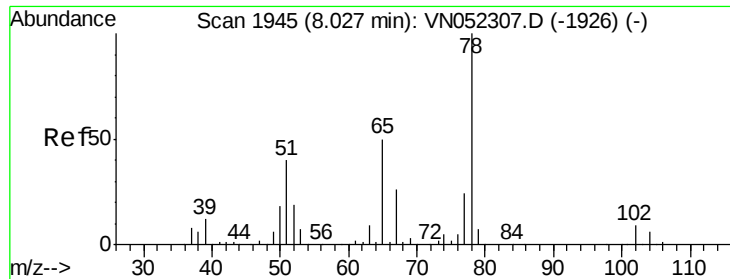
#32
1,1,1-Trichloroethane
Concen: 0.270 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 97 Resp: 1253
Ion Ratio Lower Upper
97 100
99 0.0 50.2 75.2#
61 26.3 40.2 60.4#



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





#33

1,2-Dichloroethane-d4

Concen: 0.270 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

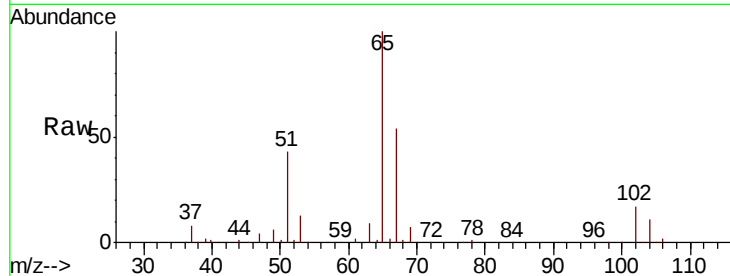
MDL-WATER-03-QT4-2018

Tot Ion: 65 Resp: 185928

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN052314.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN052314.D (-1852) (-)

8.03

80000

60000

40000

20000

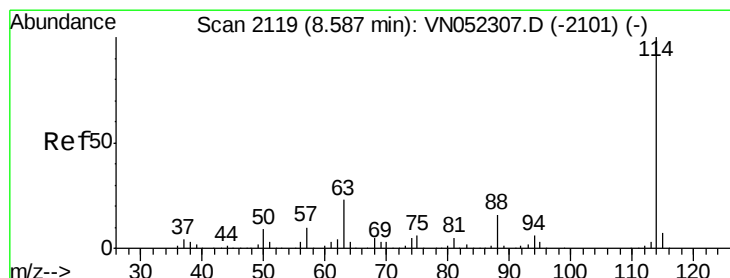
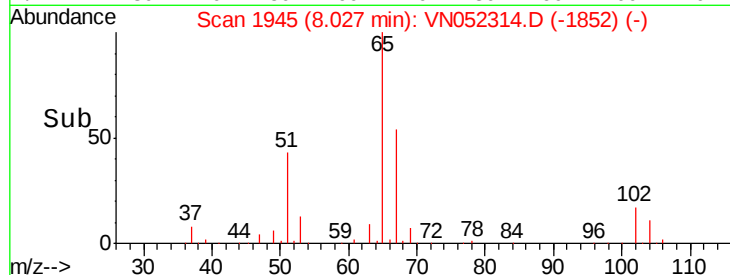
0

Time-->

7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

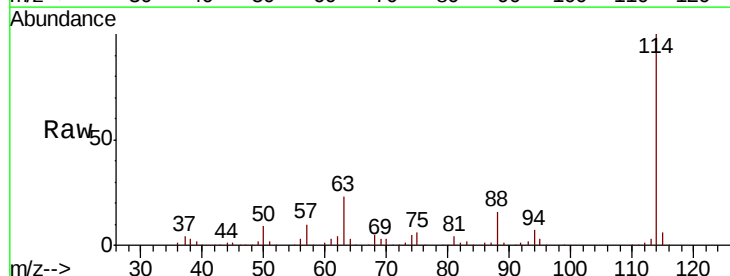
Tgt Ion: 114 Resp: 436990

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.4

88 16.1 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN052314.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN052314.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN052314.D (-2026) (-)

8.59

250000

200000

150000

100000

50000

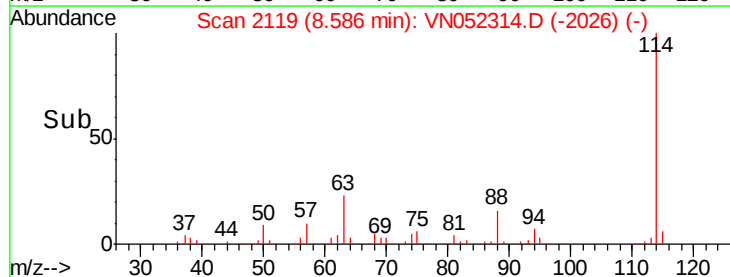
0

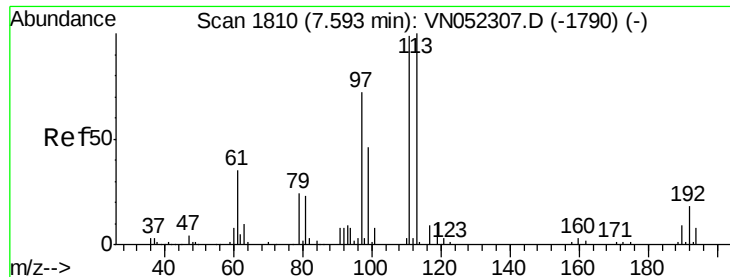
Time-->

8.50

8.60

8.70

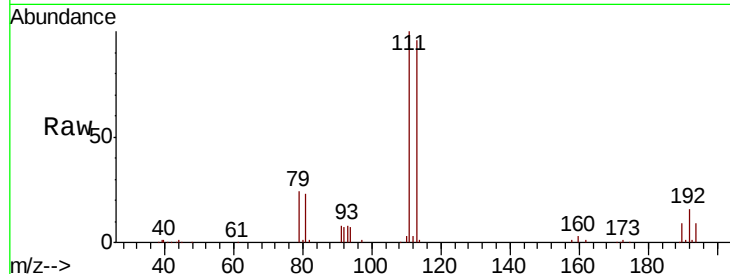




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.0	121.6
192	17.5	13.8	20.6

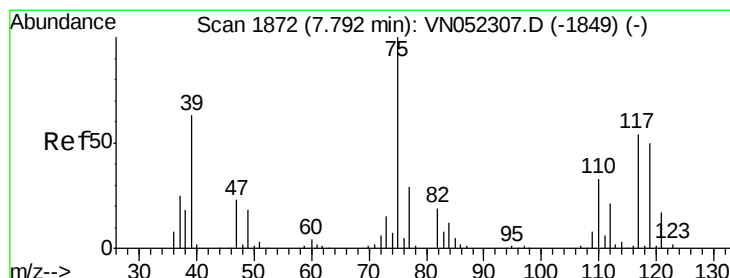
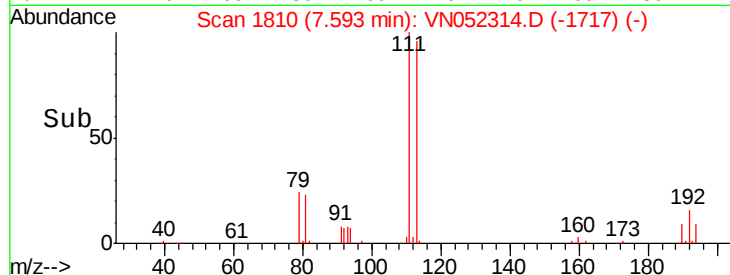
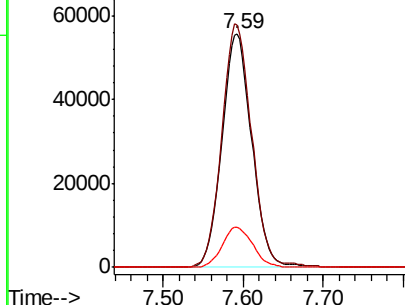


Abundance

Ion 112.80 (112.50 to 113.50): V

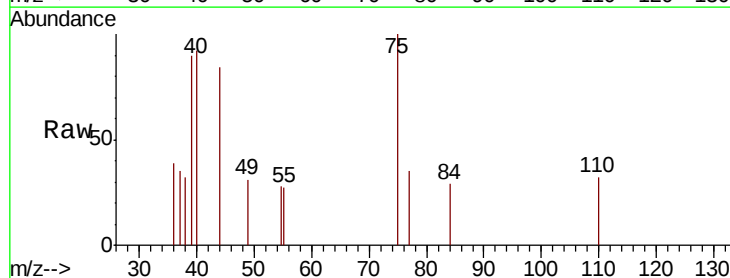
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 0.314 ug/l
 RT: 7.80 min Scan# 1875
 Delta R.T. 0.01 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	26.9	16.5	49.5
77	28.5	24.2	36.2

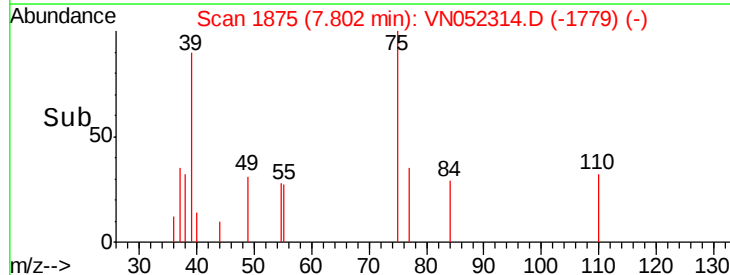
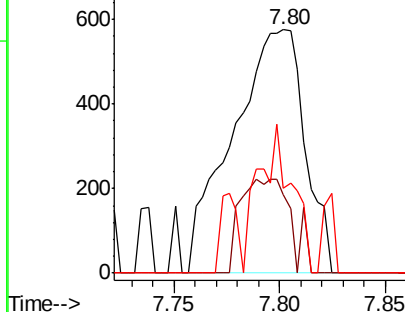


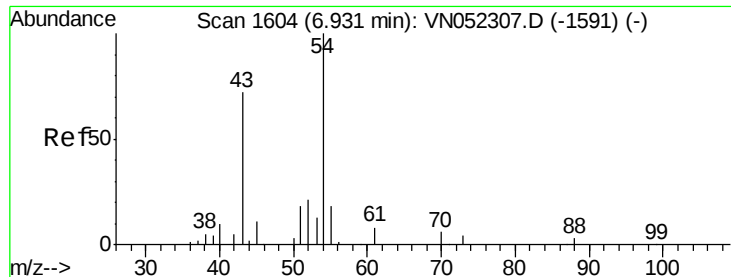
Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

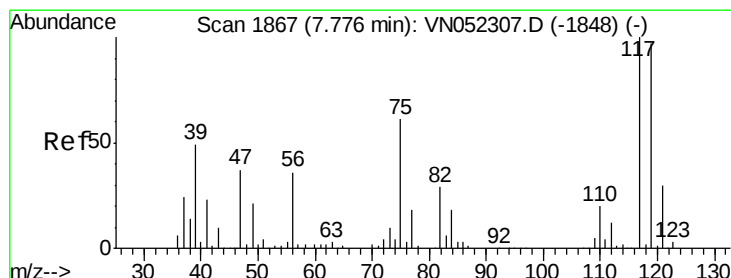
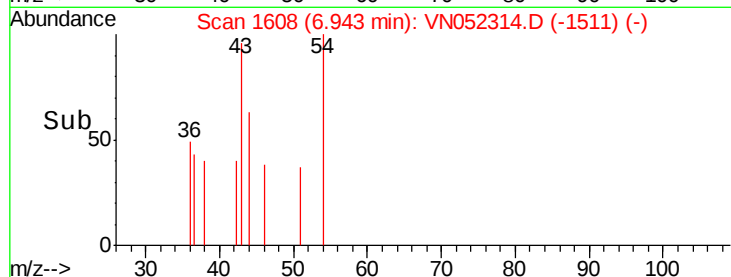
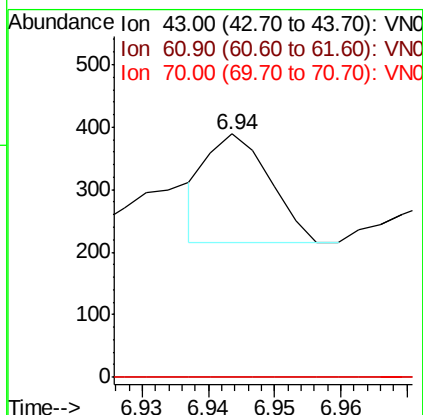
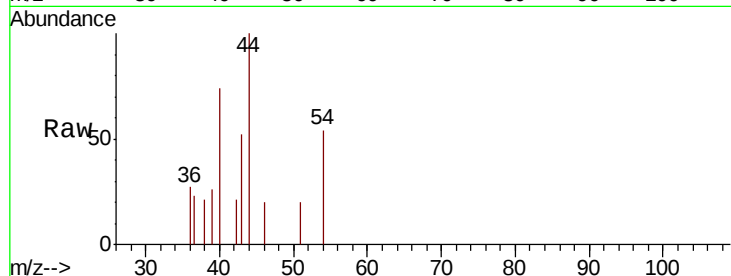




#37
Ethyl Acetate
Concen: 0.036 ug/l
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

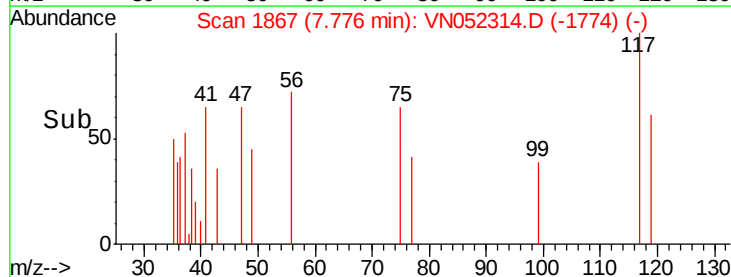
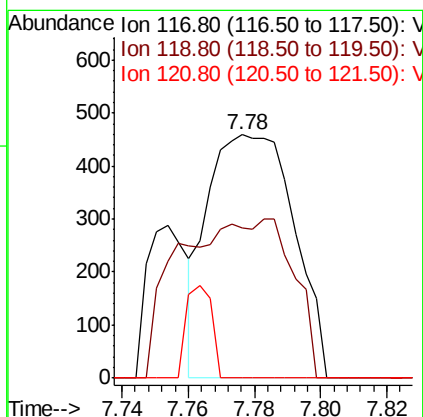
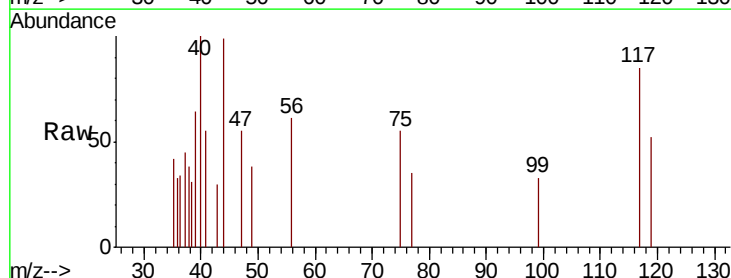
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

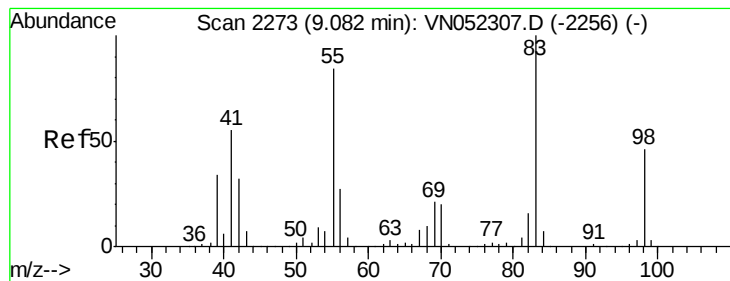
Tot Ion: 43 Resp: 113
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 0.0 5.6 8.4#



#38
Carbon Tetrachloride
Concen: 0.206 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 117 Resp: 830
Ion Ratio Lower Upper
117 100
119 61.4 77.4 116.0#
121 0.0 24.0 36.0#





#39

Methvlcvclohexane

Concen: 0.342 ug/l

RT: 9.09 min Scan# 2275

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

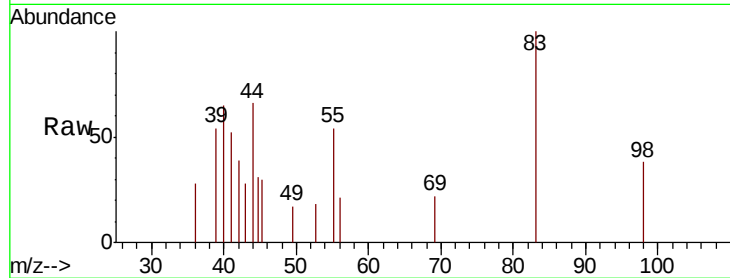
Tot Ion: 83 Resp: 1710

Ion Ratio Lower Upper

83 100

55 53.6 66.8 100.2#

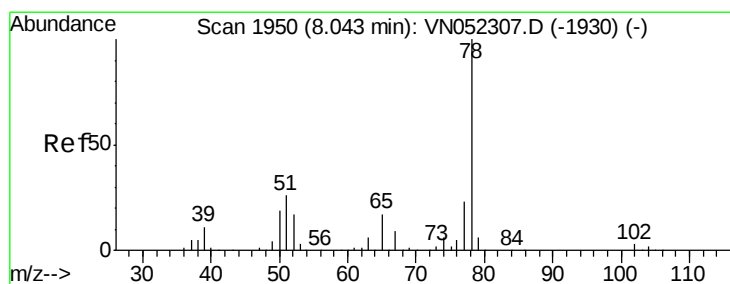
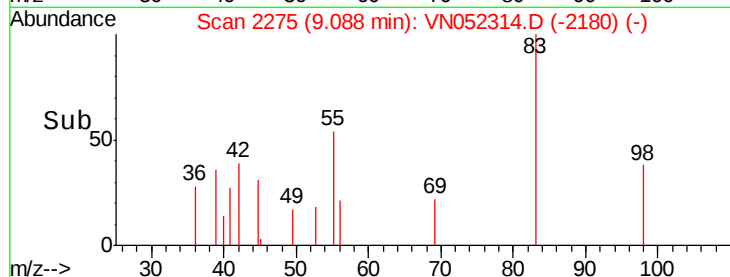
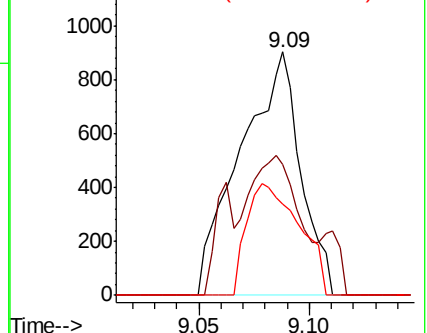
98 37.7 36.4 54.6



Abundance Ion 83.00 (82.70 to 83.70): VN052307.D (-2256) (-)

Ion 55.00 (54.70 to 55.70): VN052307.D (-2256) (-)

Ion 98.00 (97.70 to 98.70): VN052307.D (-2256) (-)



#40

Benzene

Concen: 0.238 ug/l

RT: 8.04 min Scan# 1948

Delta R.T. -0.01 min

Lab File: VN052314.D

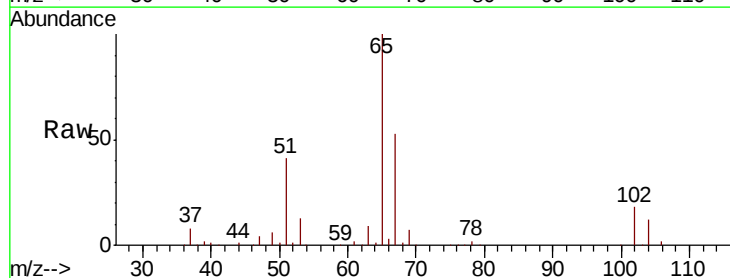
Acq: 14 Nov 2018 15:49

Tgt Ion: 78 Resp: 2980

Ion Ratio Lower Upper

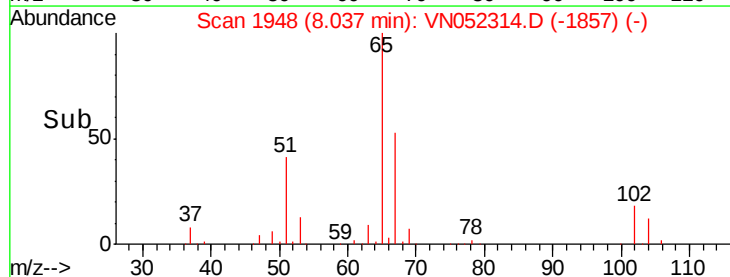
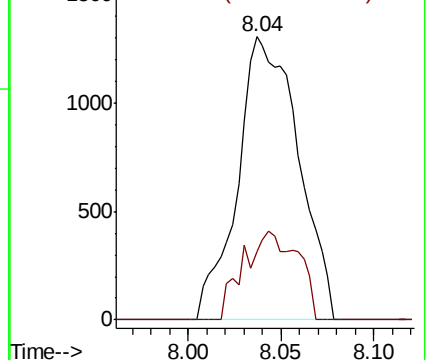
78 100

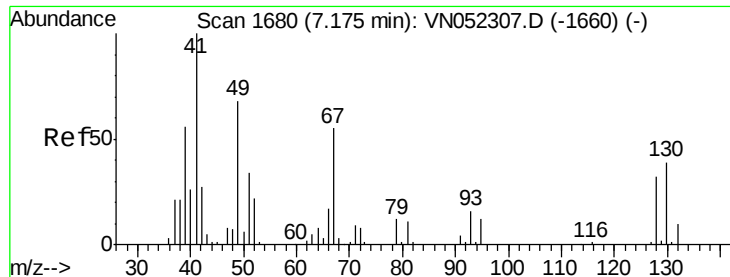
77 24.3 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VN052307.D (-1930) (-)

Ion 77.00 (76.70 to 77.70): VN052307.D (-1930) (-)

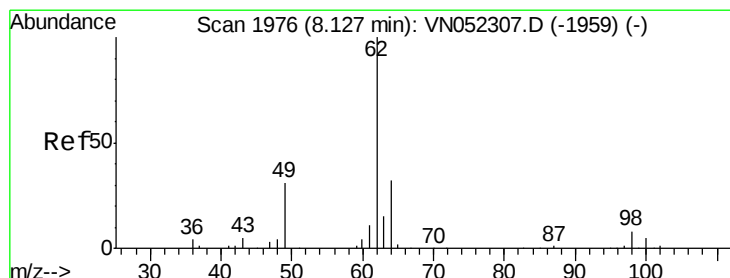
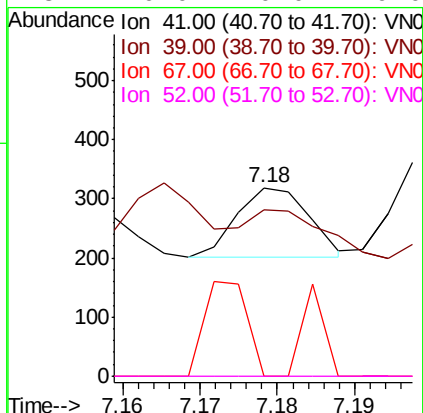
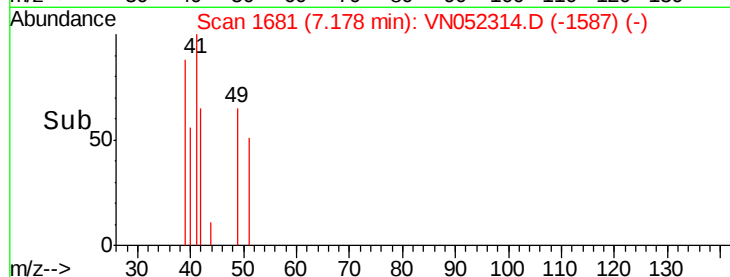
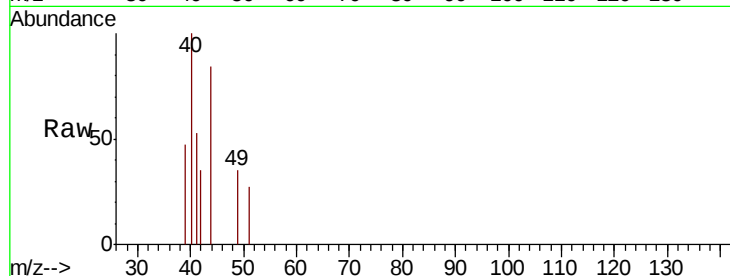




#41
Methacrylonitrile
Concen: 3.735 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

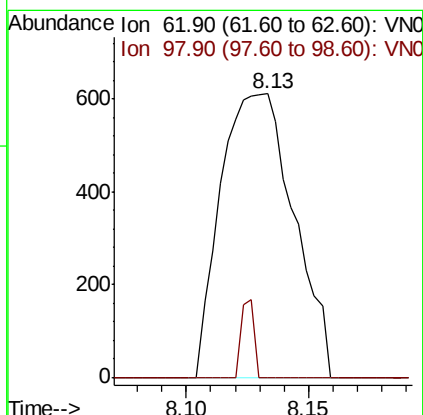
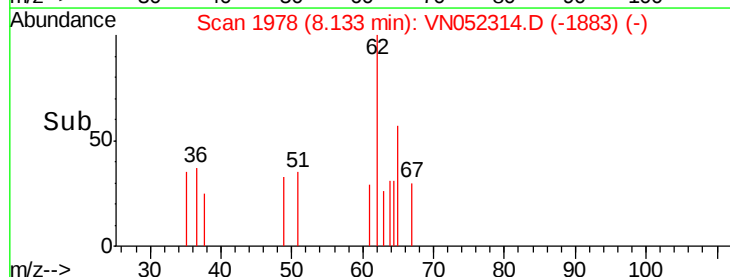
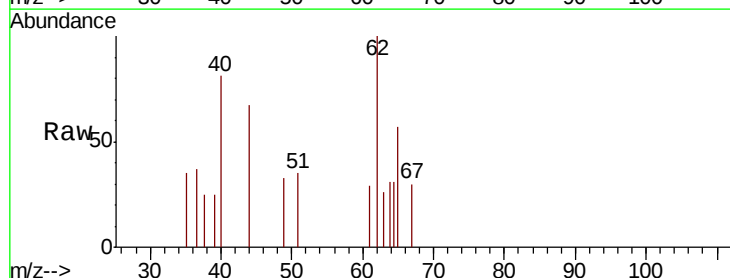
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

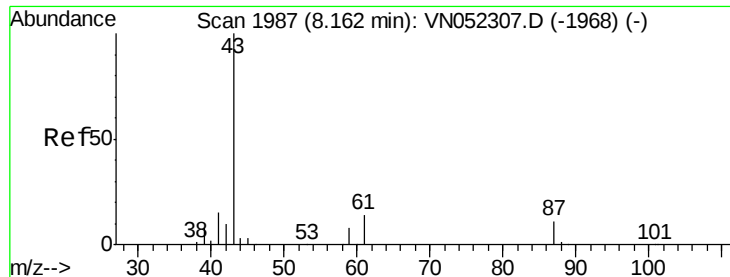
Tot Ion:	41	Resp:	76
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	39.5	0.0	0.0#
52	0.0	0.0	0.0



#42
1,2-Dichloroethane
Concen: 0.284 ug/l
RT: 8.13 min Scan# 1978
Delta R.T. 0.01 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion:	62	Resp:	1268
Ion	Ratio	Lower	Upper
62	100		
98	4.9	0.0	15.6





#43

Isopropyl Acetate

Concen: 0.770 ug/l

RT: 8.20 min Scan# 2000

Delta R.T. 0.04 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

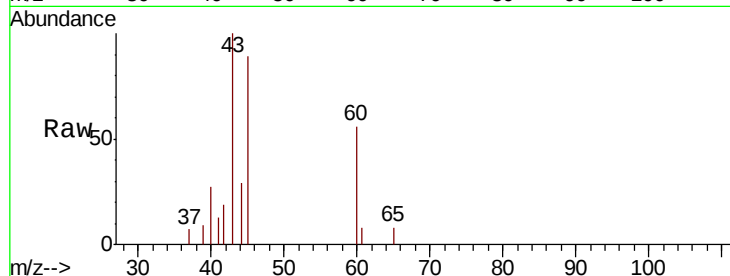
Tot Ion: 43 Resp: 4725

Ion Ratio Lower Upper

43 100

61 1.3 12.0 18.0#

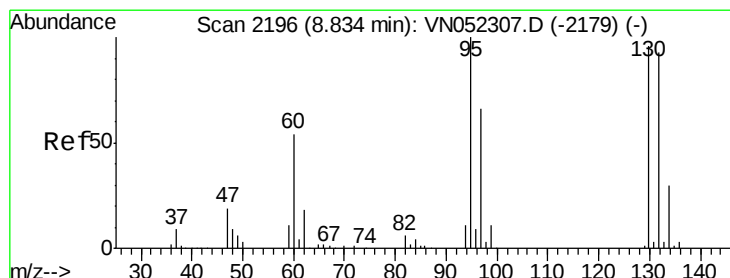
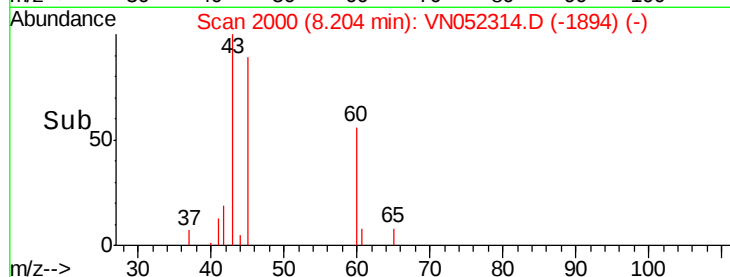
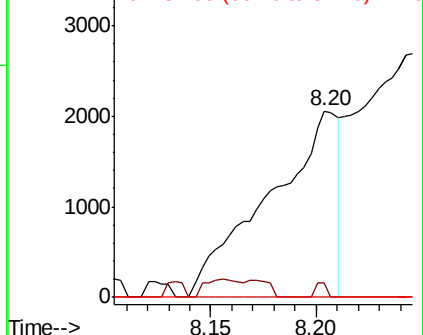
87 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN052314.D (-2000) (-)

Ion 61.00 (60.70 to 61.70): VN052314.D (-2000) (-)

Ion 87.00 (86.70 to 87.70): VN052314.D (-2000) (-)



#44

Trichloroethene

Concen: 0.289 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. 0.01 min

Lab File: VN052314.D

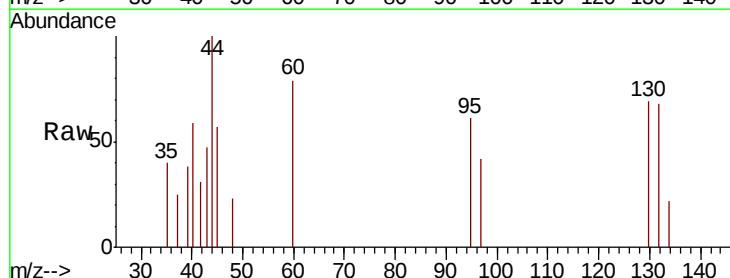
Acq: 14 Nov 2018 15:49

Tgt Ion:130 Resp: 892

Ion Ratio Lower Upper

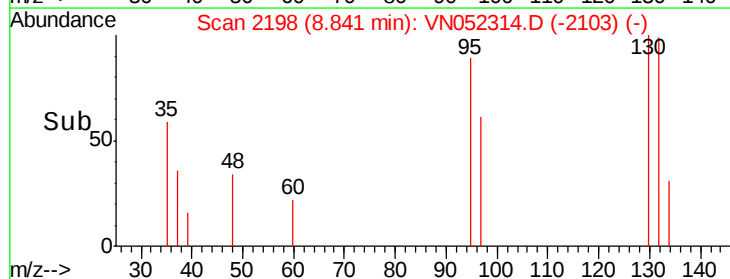
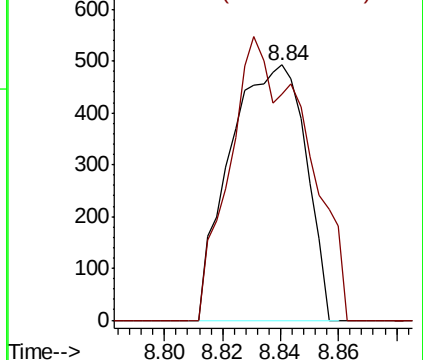
130 100

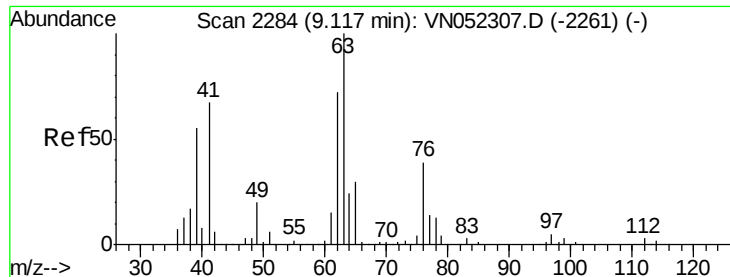
95 88.8 0.0 208.4



Abundance Ion 129.80 (129.50 to 130.50): VN052314.D (-2198) (-)

Ion 94.90 (94.60 to 95.60): VN052314.D (-2198) (-)

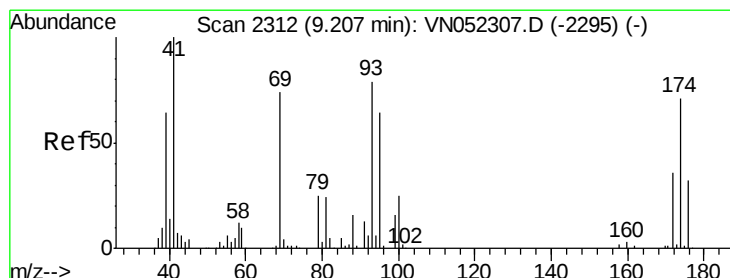
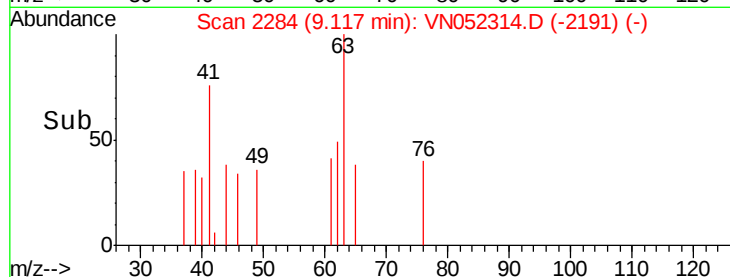
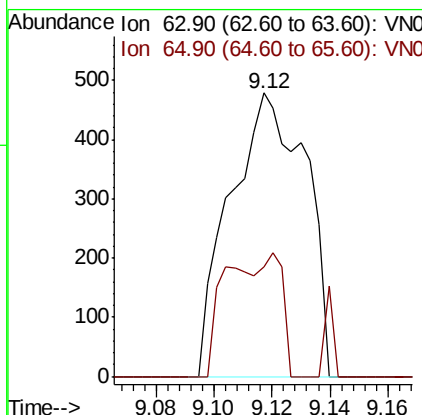
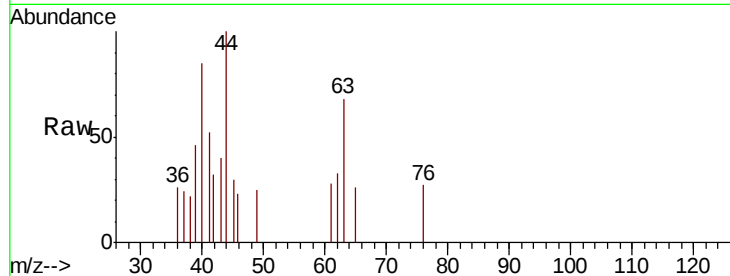




#45
 1,2-Dichloropropane
 Concen: 0.243 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

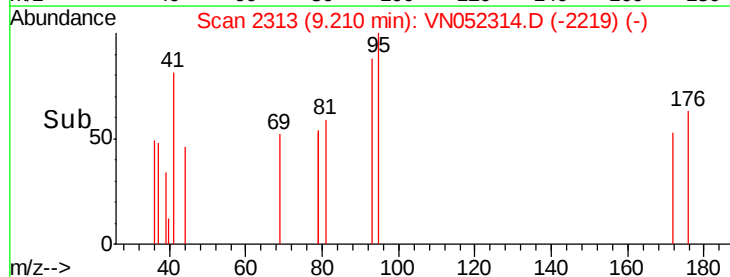
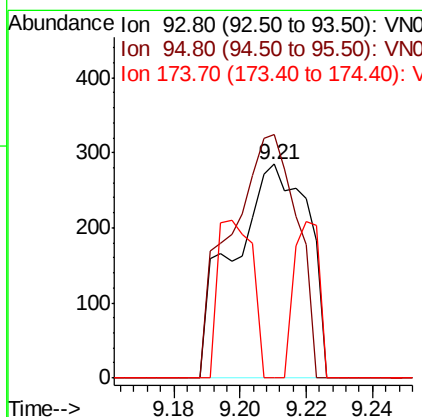
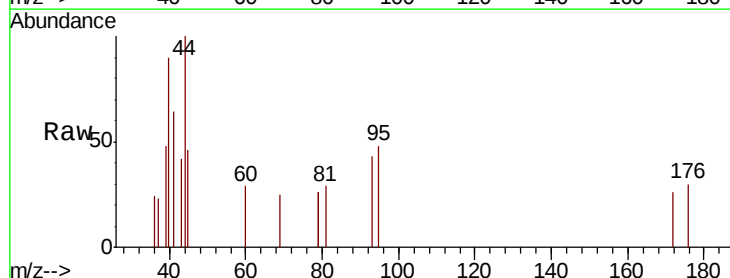
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

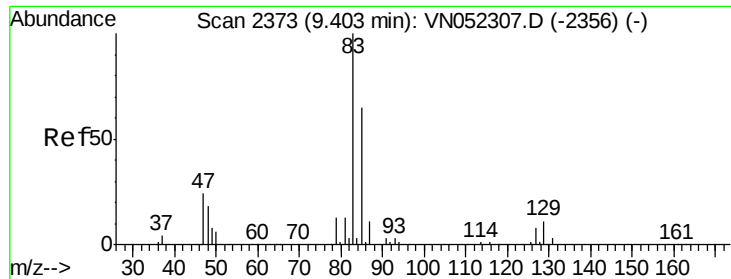
Tot Ion: 63 Resp: 864
 Ion Ratio Lower Upper
 63 100
 65 38.5 24.2 36.4#



#46
 Dibromomethane
 Concen: 0.219 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Tgt Ion: 93 Resp: 451
 Ion Ratio Lower Upper
 93 100
 95 100.2 64.2 96.2#
 174 25.1 70.9 106.3#





#47

Bromodichloromethane

Concen: 0.270 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

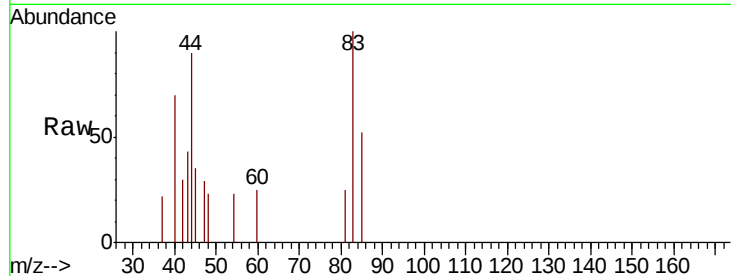
Tot Ion: 83 Resp: 1137

Ion Ratio Lower Upper

83 100

85 51.6 52.2 78.4#

127 0.0 6.7 10.1#

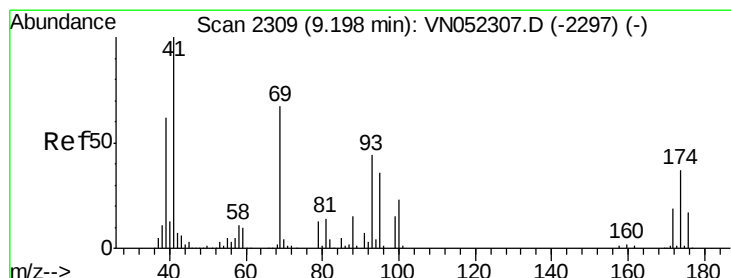
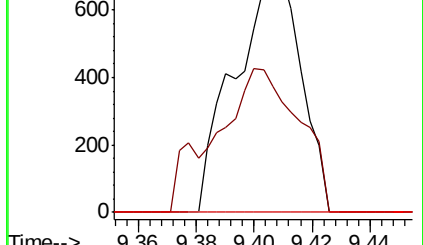
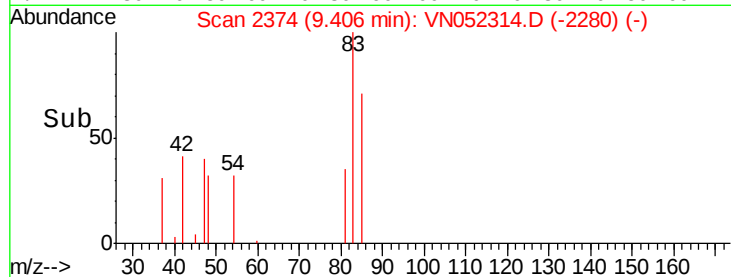


Abundance Ion 82.90 (82.60 to 83.60): VN052307.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN052307.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN052307.D (-2356) (-)

Time-->



#48

Methyl methacrylate

Concen: 0.366 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

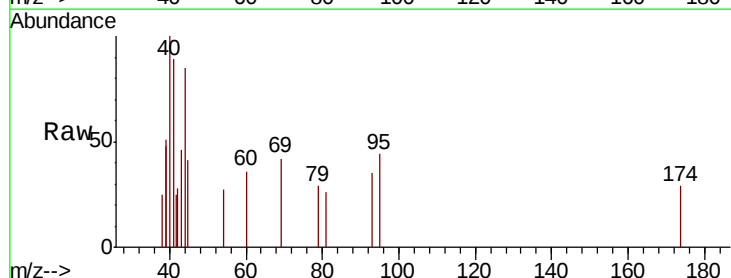
Tgt Ion: 41 Resp: 1138

Ion Ratio Lower Upper

41 100

69 22.1 57.1 85.7#

39 7.2 52.5 78.7#

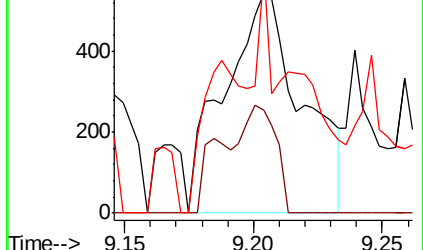
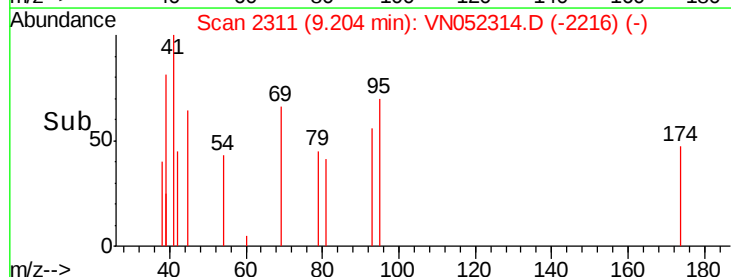


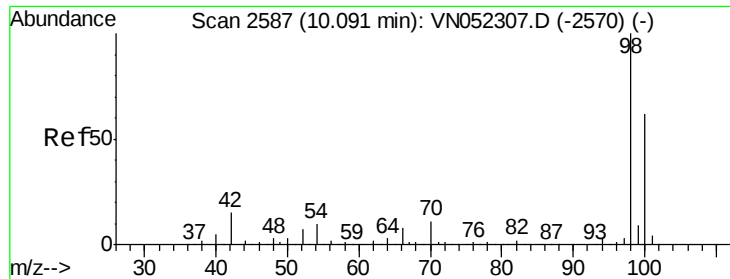
Abundance Ion 41.00 (40.70 to 41.70): VN052307.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN052307.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN052307.D (-2297) (-)

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

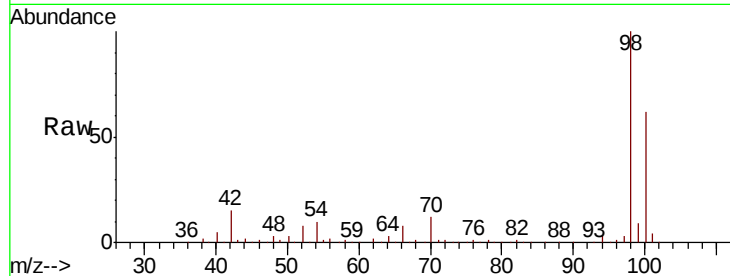
MDL-WATER-03-QT4-2018

Tot Ion: 98 Resp: 543074

Ion Ratio Lower Upper

98 100

100 61.1 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

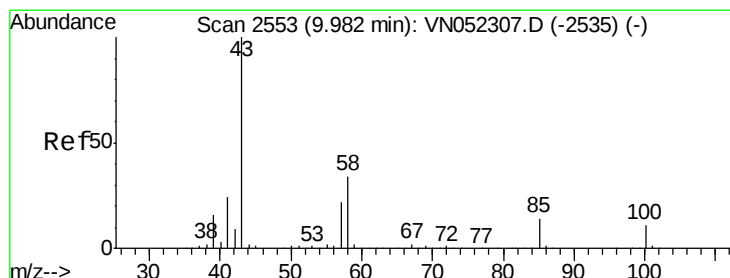
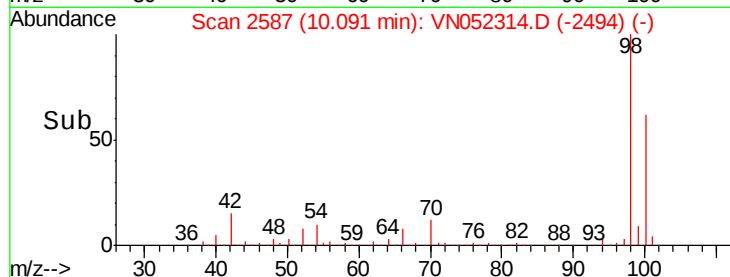
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.996 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052314.D

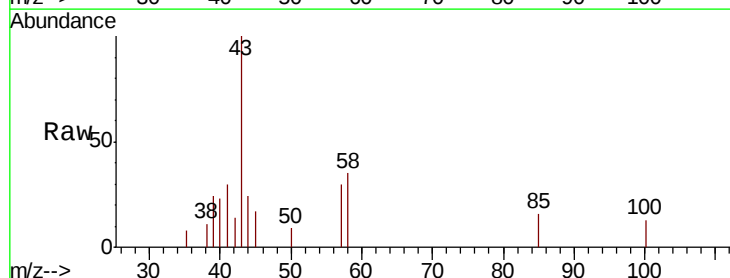
Acq: 14 Nov 2018 15:49

Tgt Ion: 43 Resp: 3075

Ion Ratio Lower Upper

43 100

58 45.1 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

2000

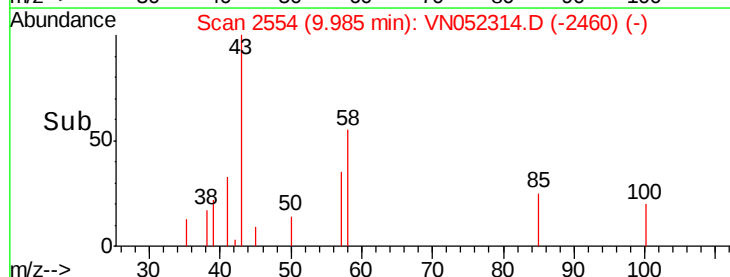
1500

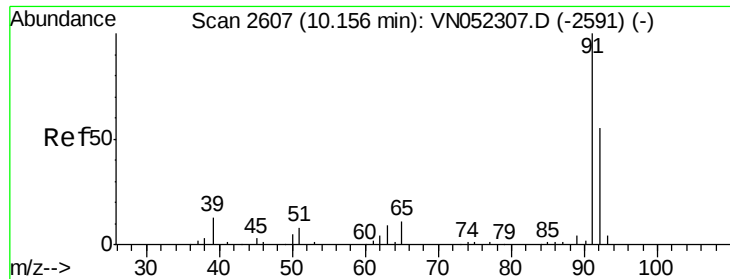
1000

500

0

Time-->





#52

Toluene

Concen: 0.251 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

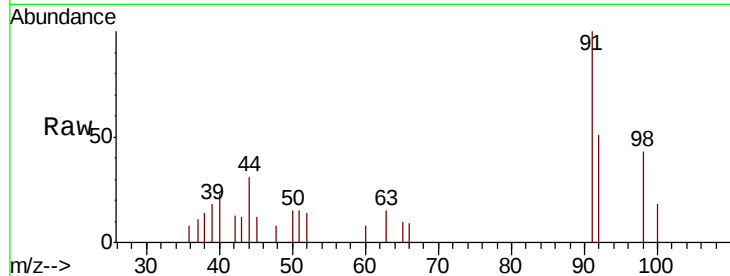
MDL-WATER-03-QT4-2018

Tot Ion: 92 Resp: 1879

Ion Ratio Lower Upper

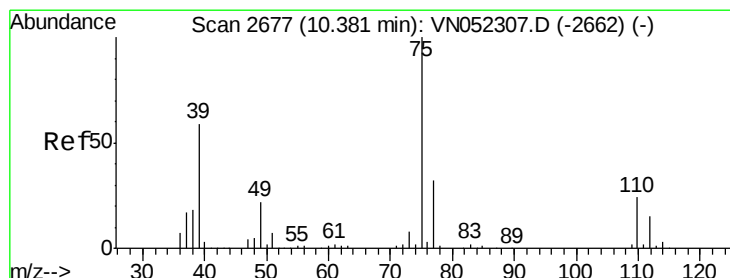
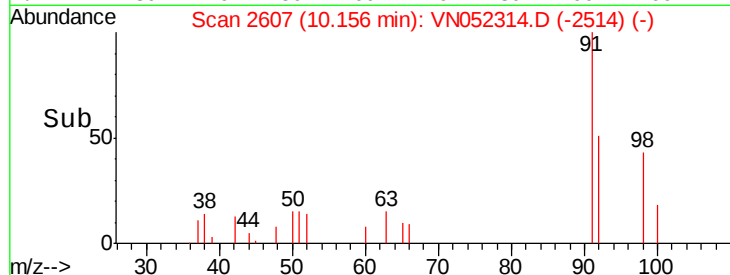
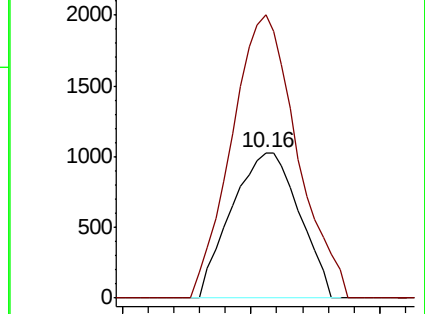
92 100

91 188.6 143.6 215.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.249 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VN052314.D

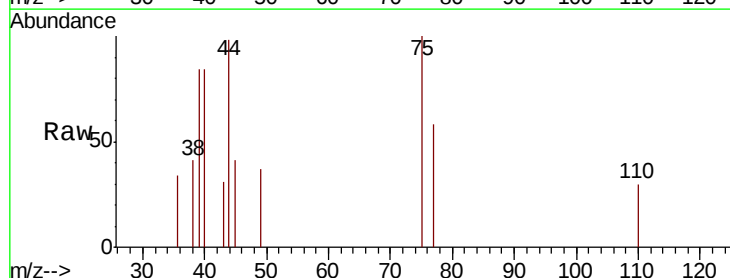
Acq: 14 Nov 2018 15:49

Tgt Ion: 75 Resp: 1059

Ion Ratio Lower Upper

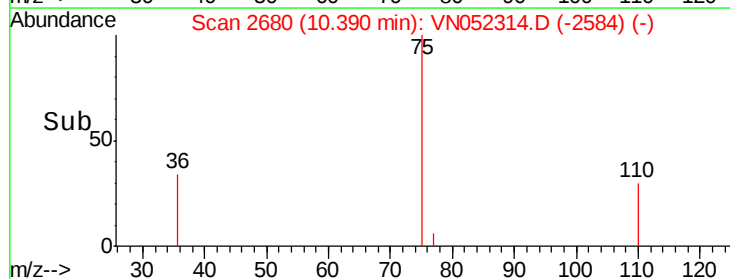
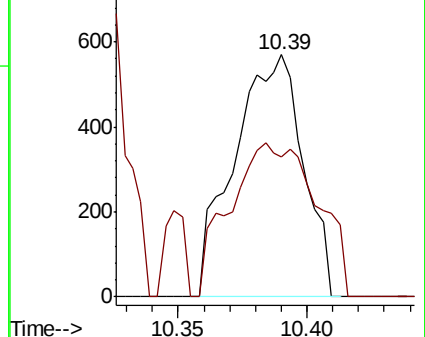
75 100

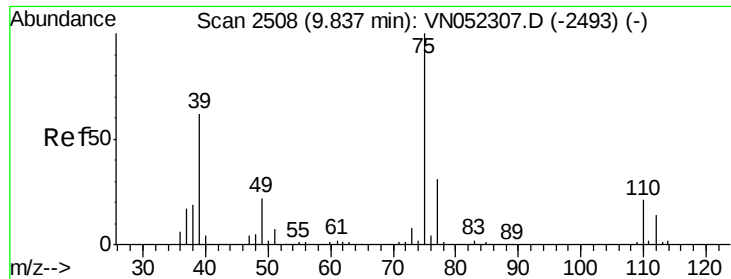
77 57.5 25.7 38.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#54

cis-1,3-Dichloropropene

Concen: 0.239 ug/l

RT: 9.84 min Scan# 2510

Delta R.T. 0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

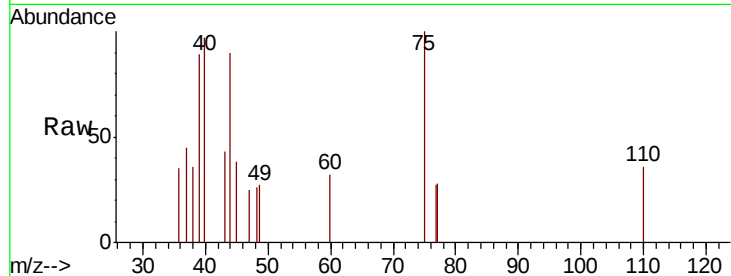
Tot Ion: 75 Resp: 1160

Ion Ratio Lower Upper

75 100

77 55.0 24.6 36.8#

39 56.6 49.9 74.9



Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

Ion 39.00 (38.70 to 39.70): VNO

9.84

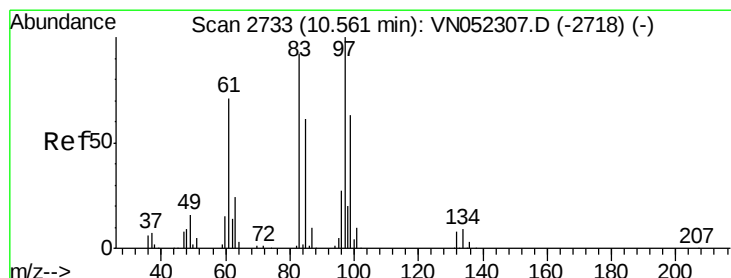
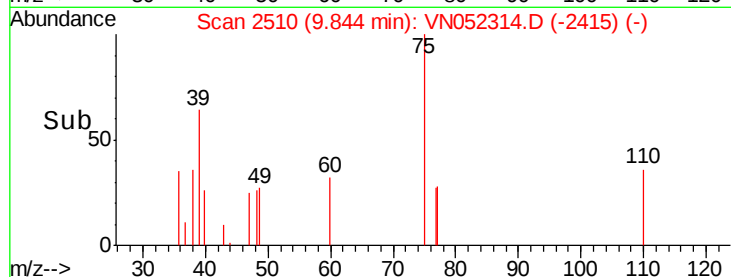
600

400

200

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.259 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Tgt Ion: 97 Resp: 704

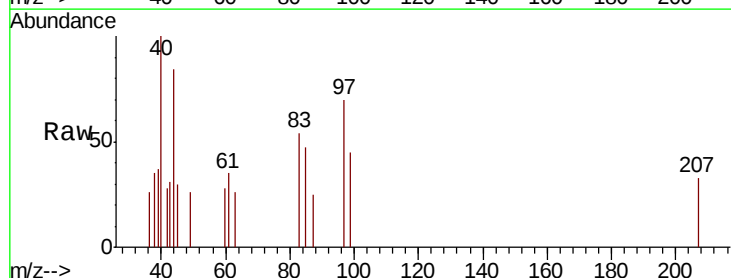
Ion Ratio Lower Upper

97 100

83 76.5 73.8 110.6

85 67.0 49.0 73.4

99 63.7 50.5 75.7



Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO

10.56

400

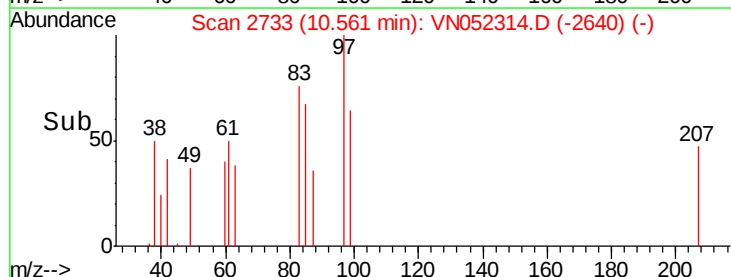
300

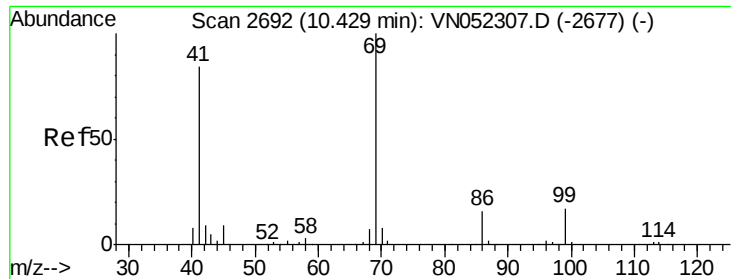
200

100

0

Time-->





#56

Ethyl methacrylate

Concen: 0.187 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

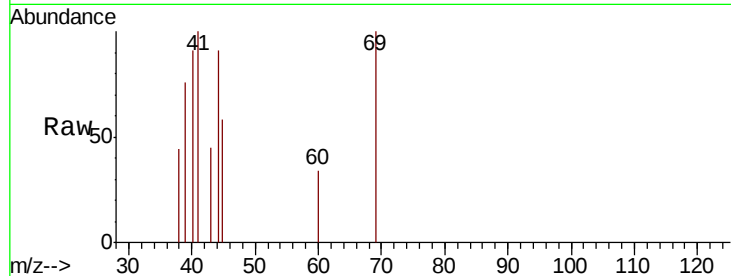
Tot Ion: 69 Resp: 669

Ion Ratio Lower Upper

69 100

41 88.9 64.8 97.2

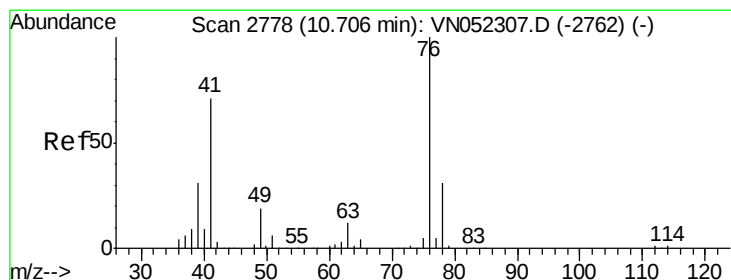
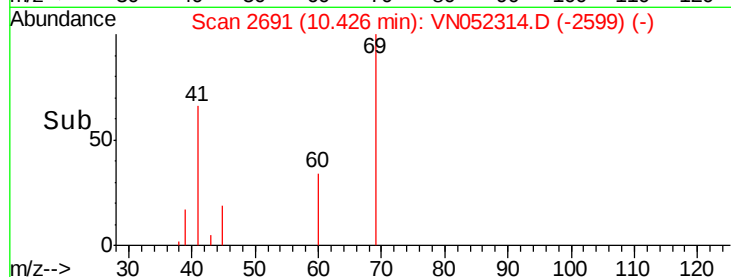
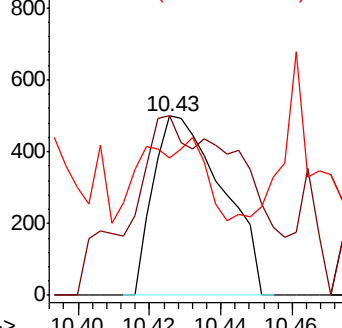
39 14.9 41.0 61.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.263 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN052314.D

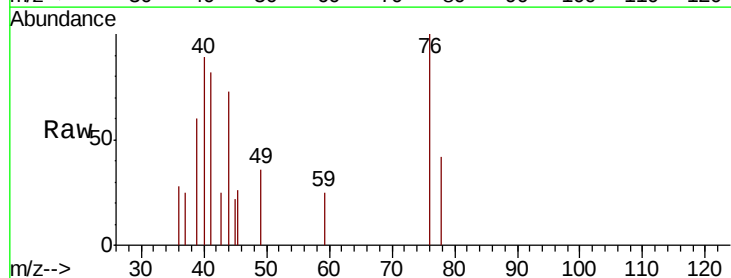
Acq: 14 Nov 2018 15:49

Tgt Ion: 76 Resp: 1262

Ion Ratio Lower Upper

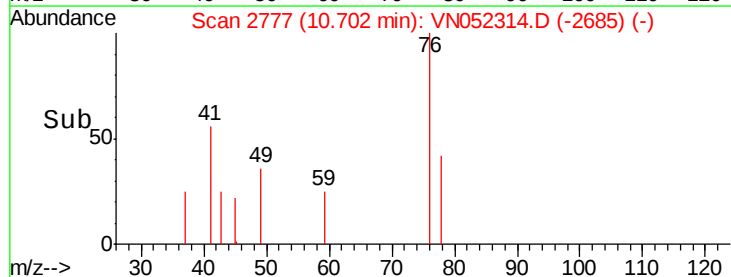
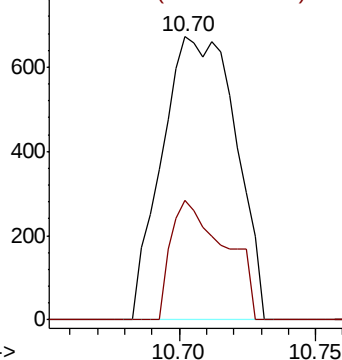
76 100

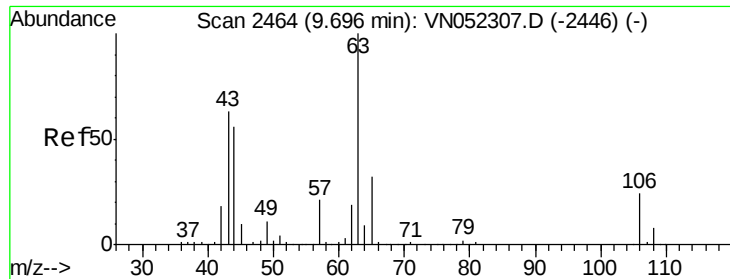
78 31.3 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

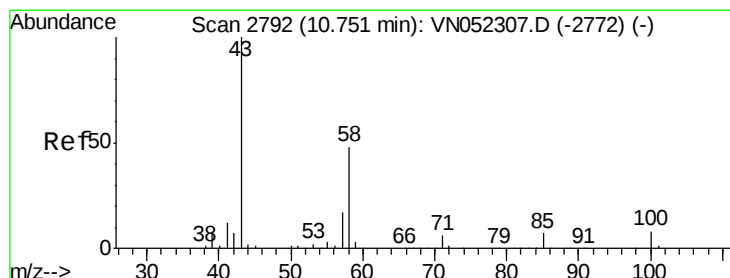
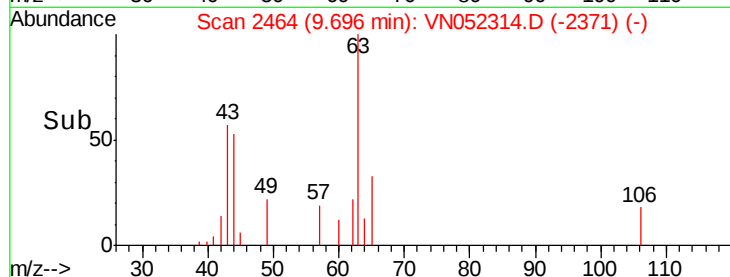
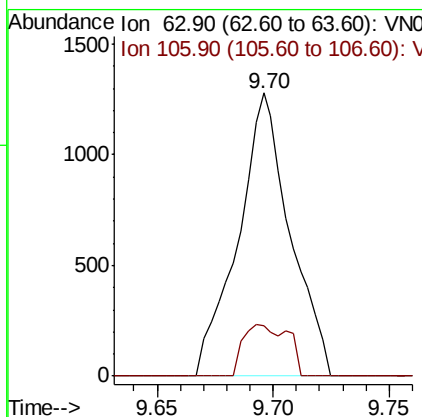
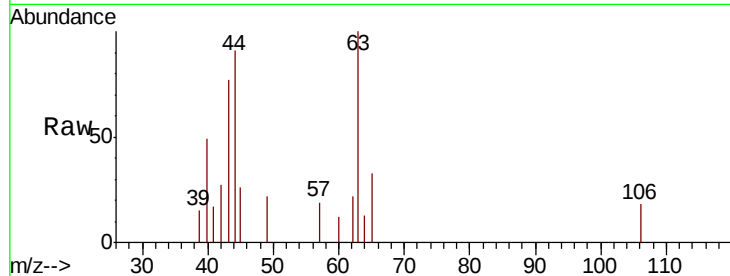




#58
2-Chloroethyl Vinyl ether
Concen: 0.982 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

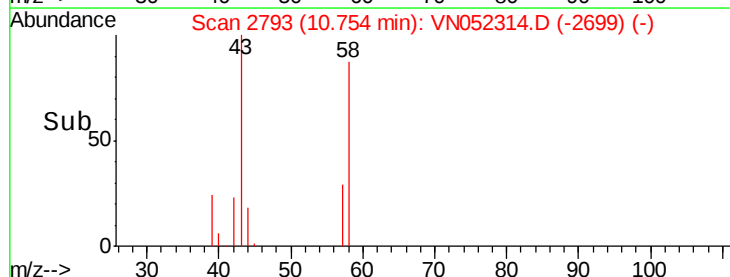
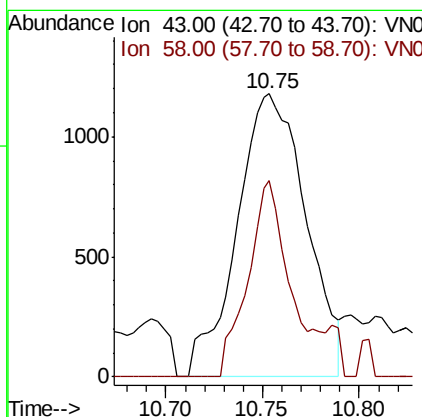
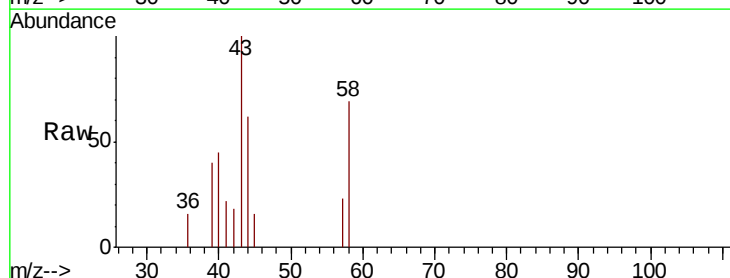
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

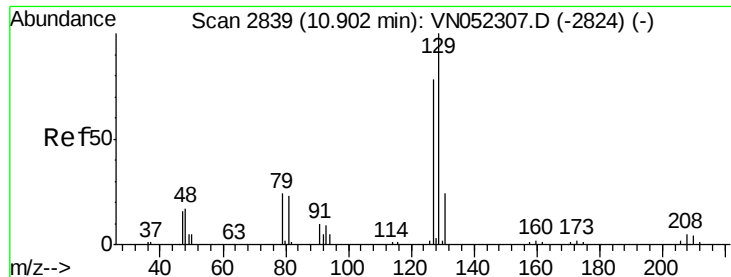
Tot Ion: 63 Resp: 1996
Ion Ratio Lower Upper
63 100
106 15.5 19.3 28.9#



#59
2-Hexanone
Concen: 1.376 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 43 Resp: 2923
Ion Ratio Lower Upper
43 100
58 43.4 23.5 70.6





#60

Dibromochloromethane

Concen: 0.165 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

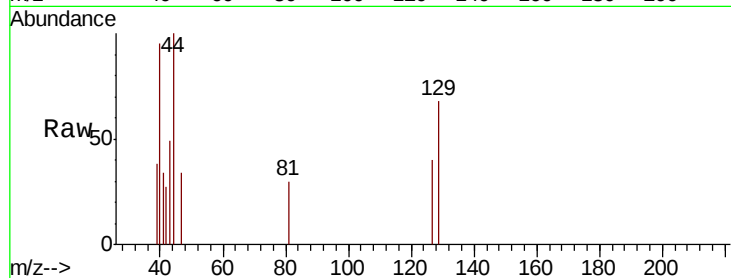
MDL-WATER-03-QT4-2018

Tot Ion:129 Resp: 485

Ion Ratio Lower Upper

129 100

127 86.0 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

400

300

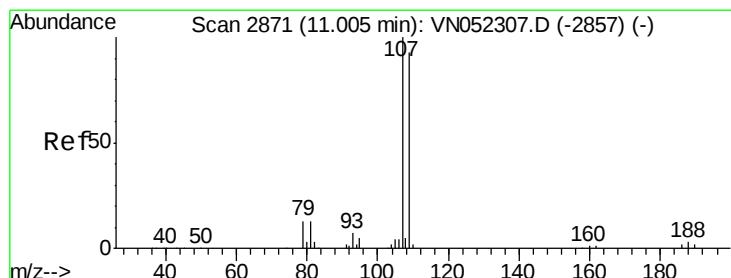
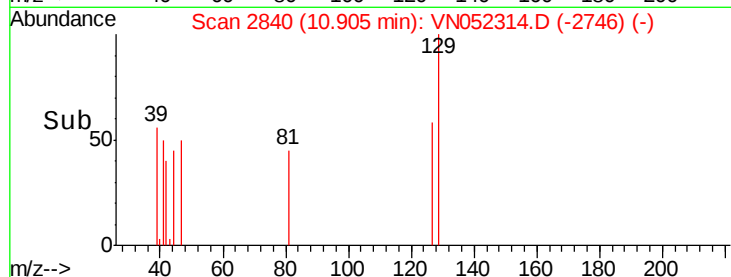
200

100

0

10.88 10.90 10.92

Time-->



#61

1,2-Dibromoethane

Concen: 0.243 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. 0.01 min

Lab File: VN052314.D

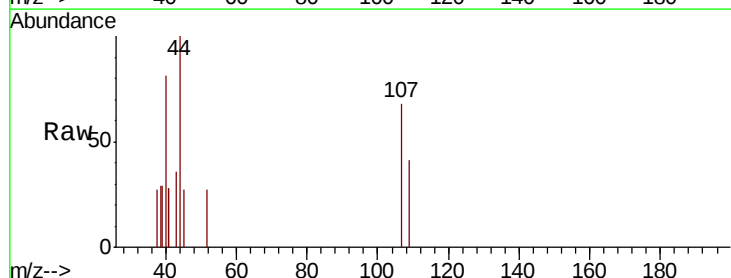
Acq: 14 Nov 2018 15:49

Tgt Ion:107 Resp: 656

Ion Ratio Lower Upper

107 100

109 81.1 74.9 112.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

600

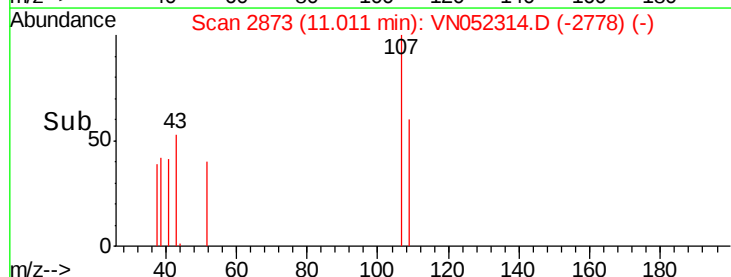
400

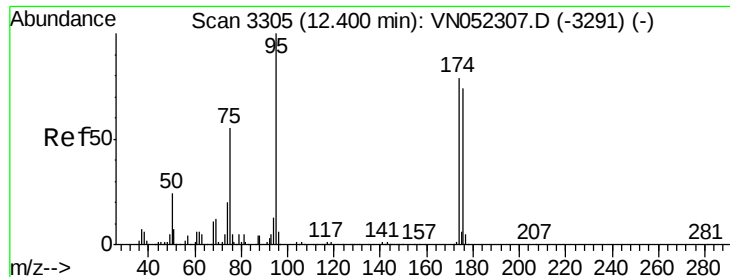
200

0

11.00

Time-->





#62

4-Bromofluorobenzene

Concen: 0.243 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

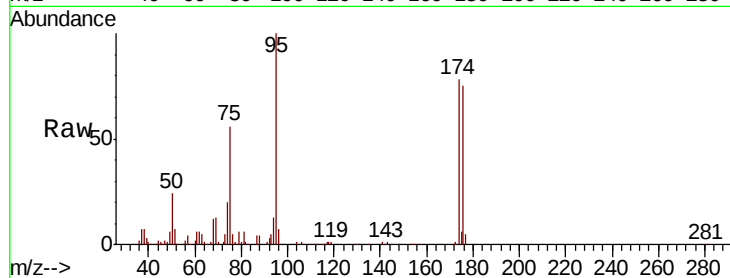
Tot Ion: 95 Resp: 154755

Ion Ratio Lower Upper

95 100

174 78.4 0.0 156.0

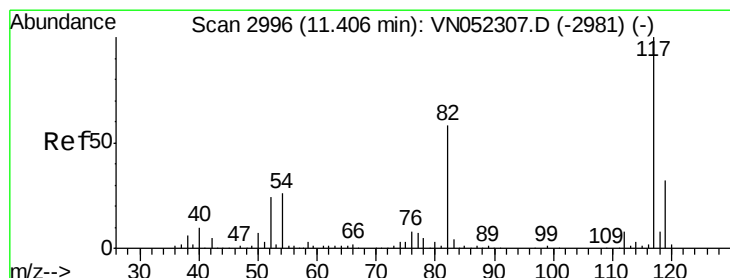
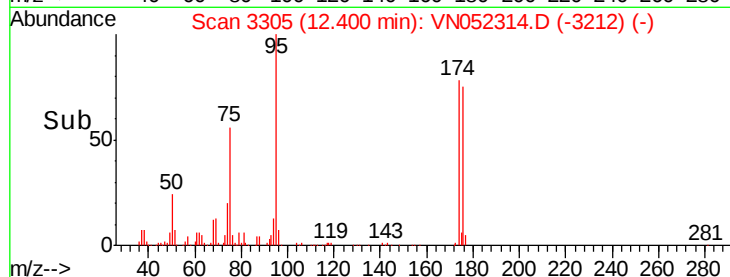
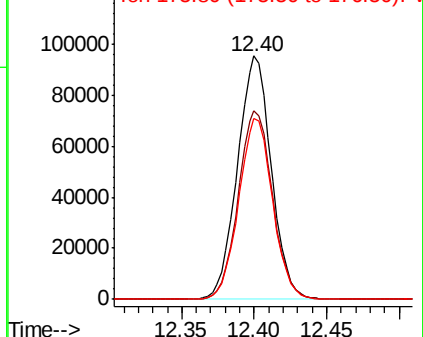
176 74.4 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052314.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN052314.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN052314.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

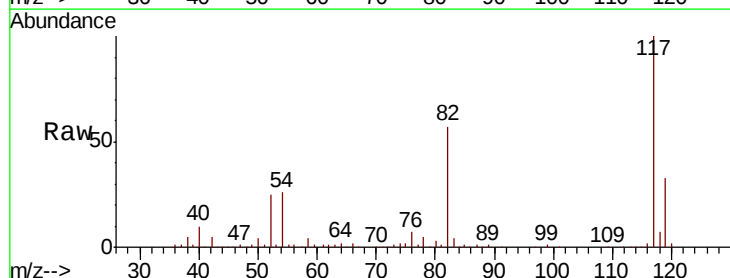
Tgt Ion: 117 Resp: 370155

Ion Ratio Lower Upper

117 100

82 57.5 46.5 69.7

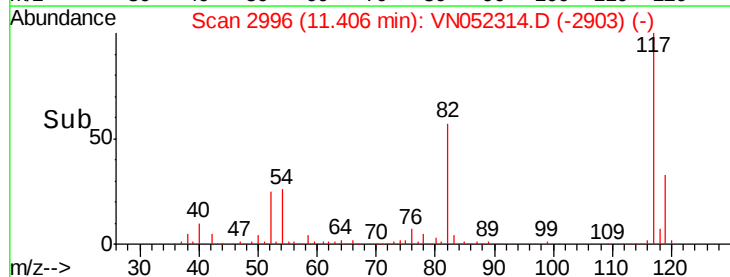
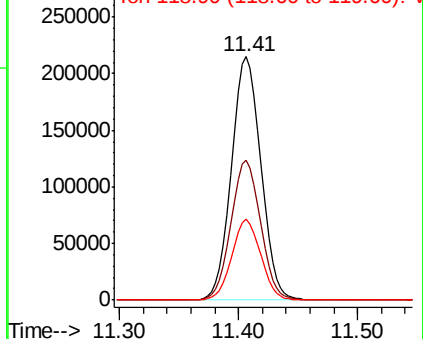
119 33.1 25.7 38.5

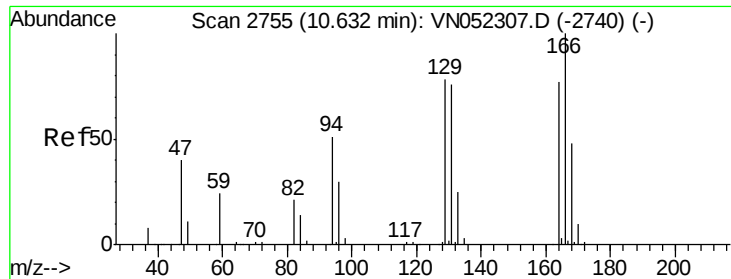


Abundance Ion 116.90 (116.60 to 117.60): VN052314.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052314.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052314.D (-2903) (-)





#64

Tetrachloroethene

Concen: 0.269 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

Tot Ion:164 Resp: 708

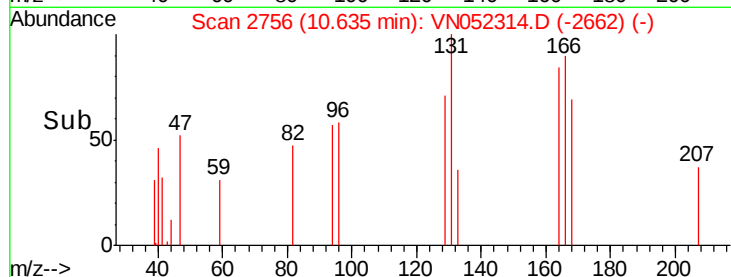
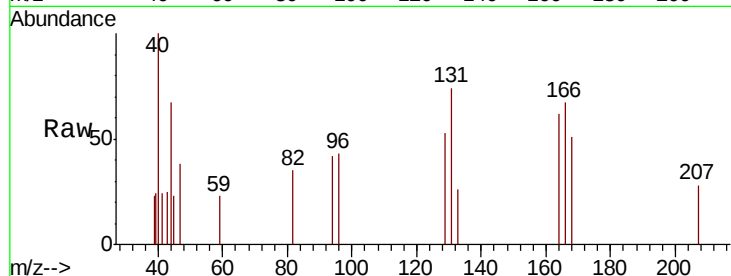
Ion Ratio Lower Upper

164 100

166 107.9 103.8 155.6

129 84.4 80.7 121.1

131 119.3 78.5 117.7#

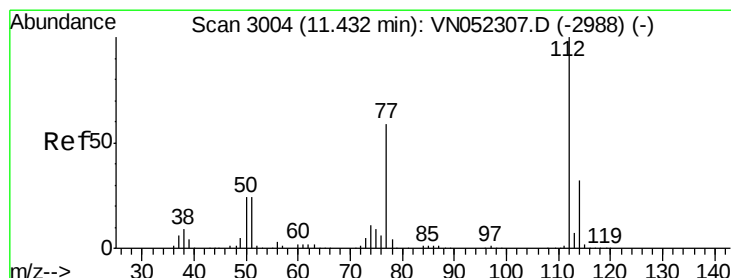
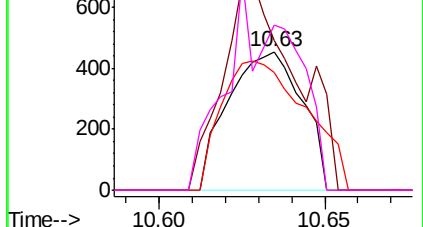


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.283 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052314.D

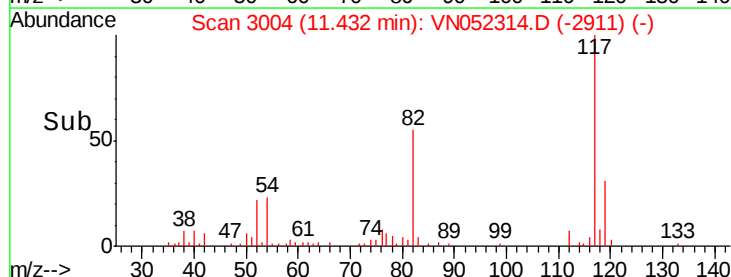
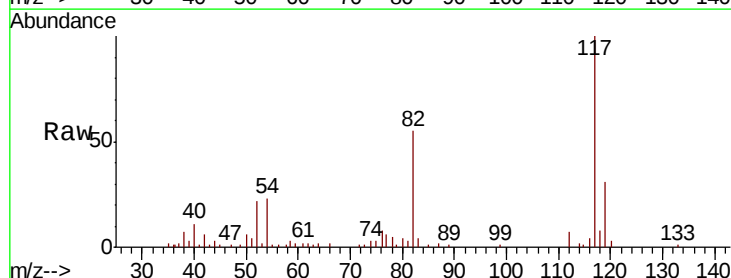
Acq: 14 Nov 2018 15:49

Tgt Ion:112 Resp: 2211

Ion Ratio Lower Upper

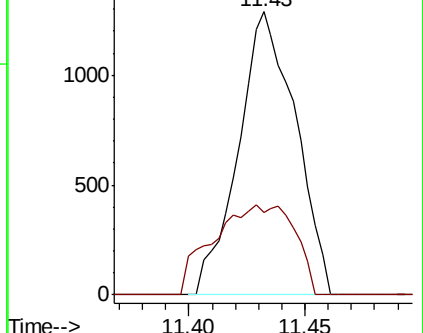
112 100

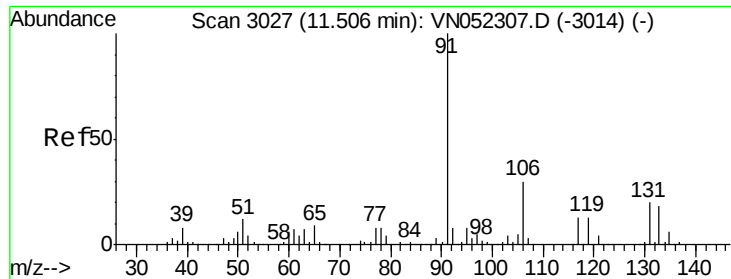
114 29.2 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

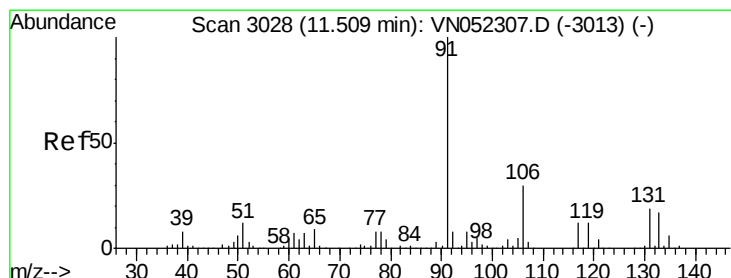
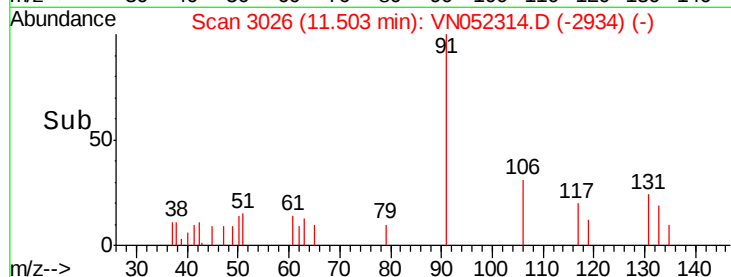
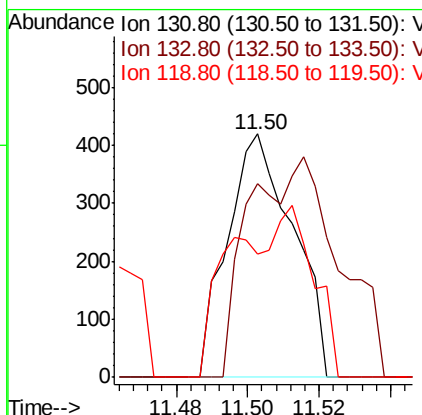
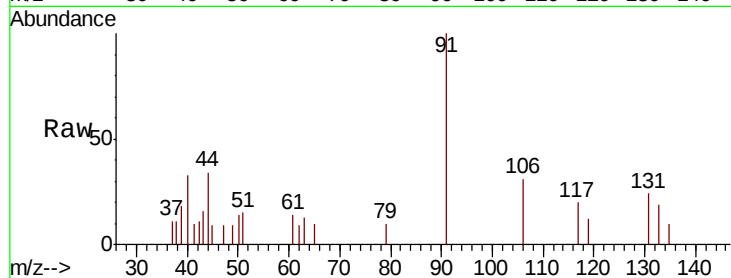




#66
 1,1,1,2-Tetrachloroethane
 Concen: 0.199 ug/l
 RT: 11.50 min Scan# 3026
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

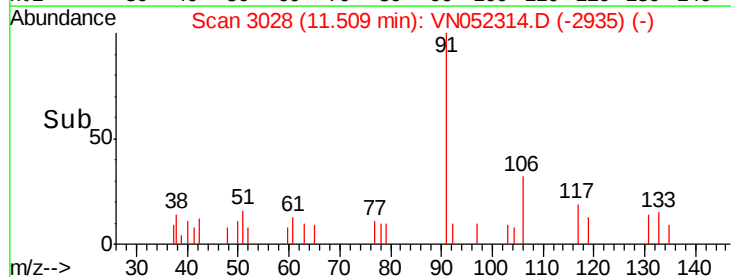
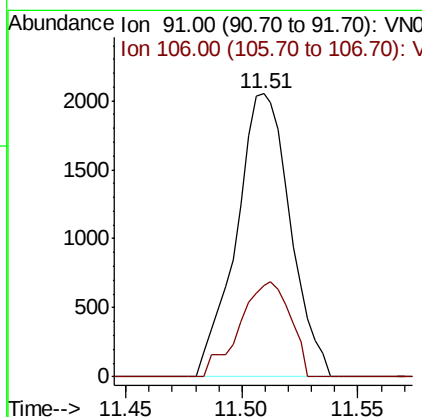
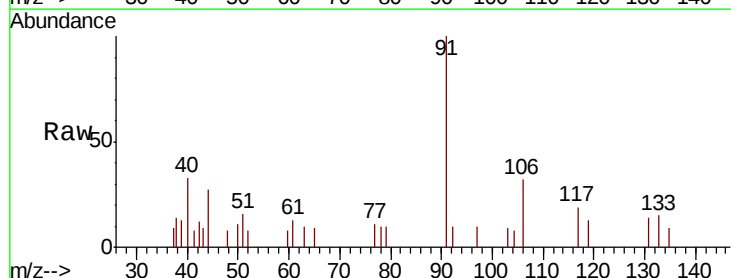
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

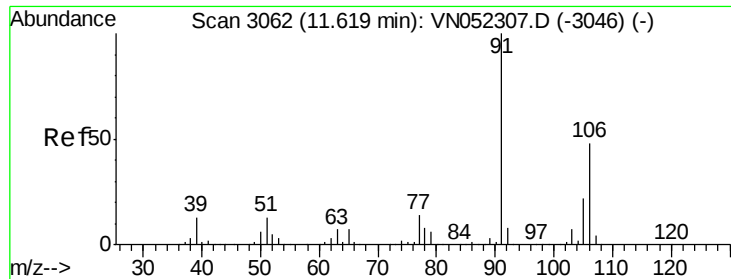
Tot Ion:131 Resp: 532
 Ion Ratio Lower Upper
 131 100
 133 52.4 47.4 142.3
 119 0.0 33.3 99.9#



#67
 Ethyl Benzene
 Concen: 0.244 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Tgt Ion: 91 Resp: 3320
 Ion Ratio Lower Upper
 91 100
 106 32.5 24.2 36.2

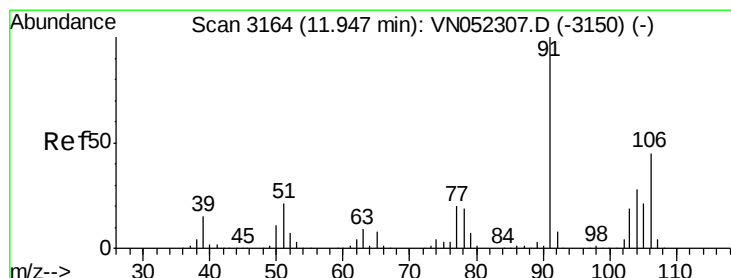
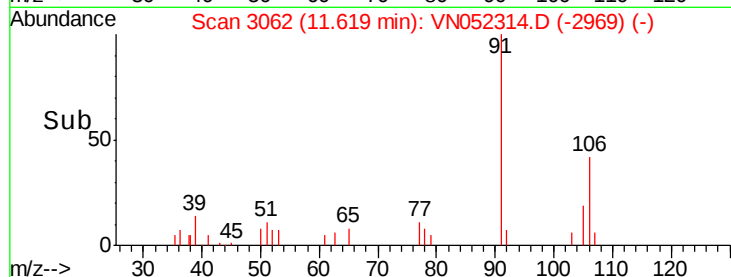
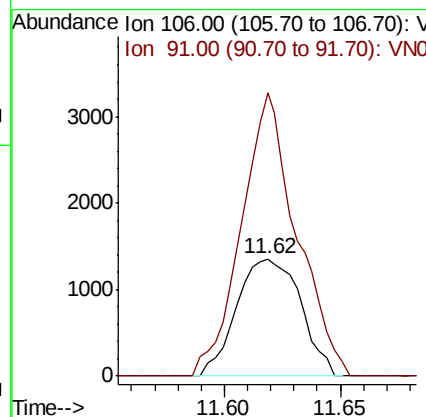
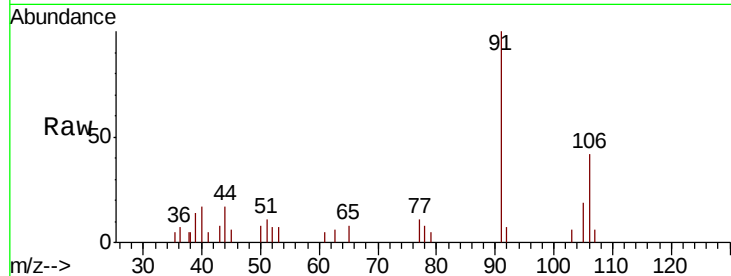




#68
m/p-Xylenes
Concen: 0.522 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

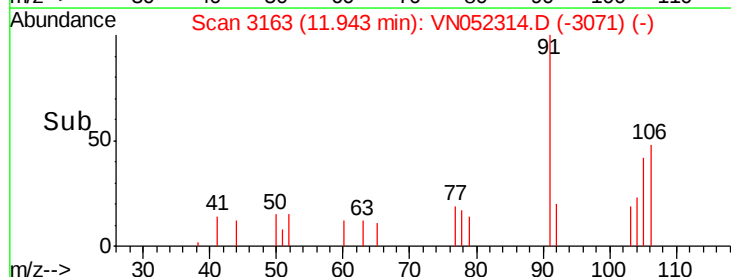
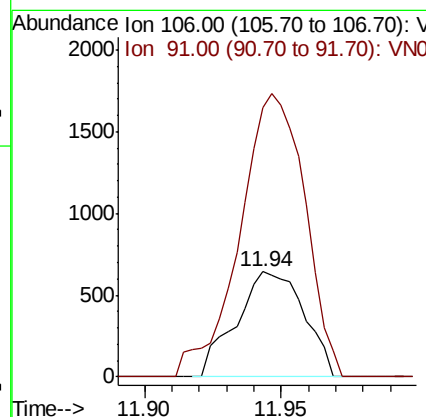
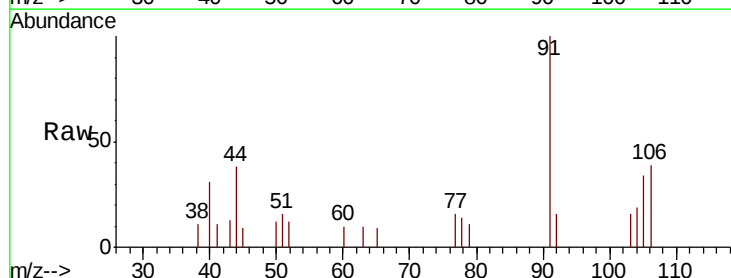
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

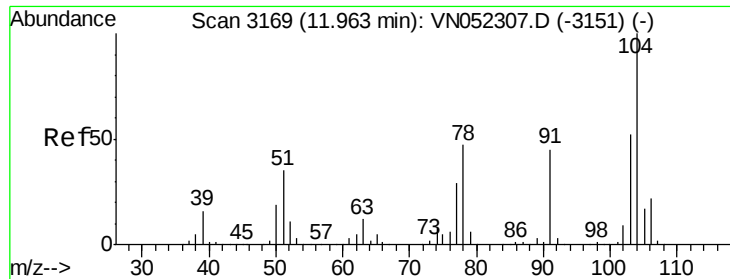
Tot Ion:106 Resp: 2589
Ion Ratio Lower Upper
106 100
91 209.0 165.5 248.3



#69
o-Xylene
Concen: 0.233 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion:106 Resp: 1106
Ion Ratio Lower Upper
106 100
91 259.9 110.0 330.0

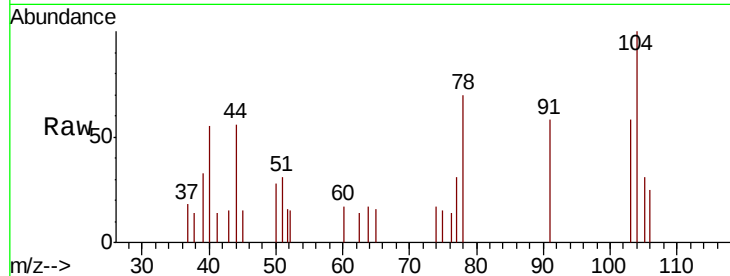




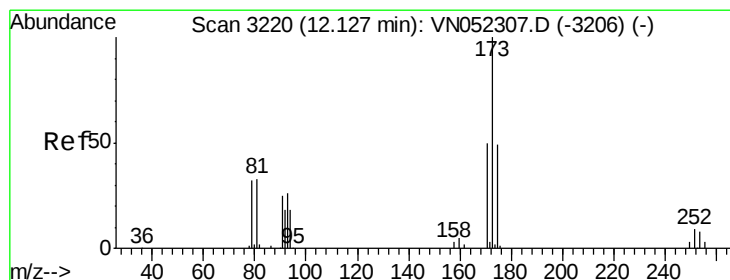
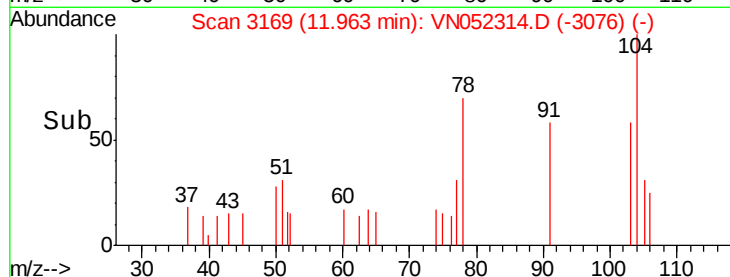
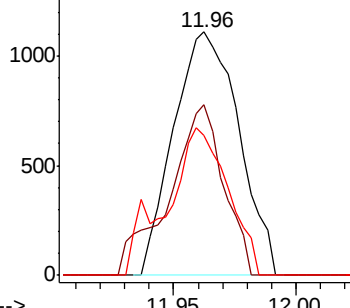
#70
Stvrene
Concen: 0.270 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion:104 Resp: 2059
Ion Ratio Lower Upper
104 100
78 58.3 42.7 64.1
103 47.5 45.4 68.0

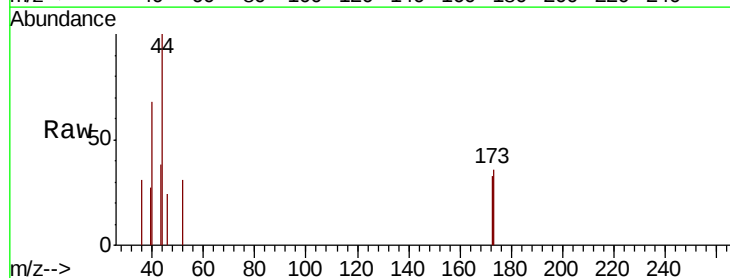


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

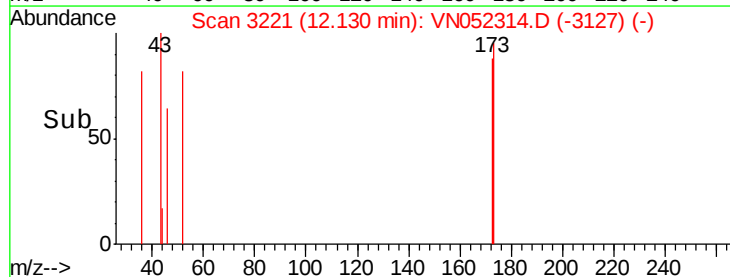
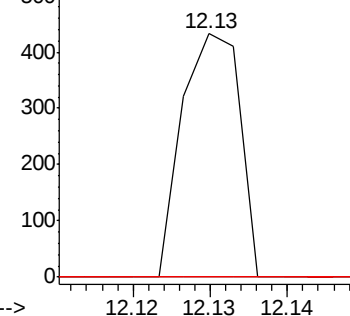


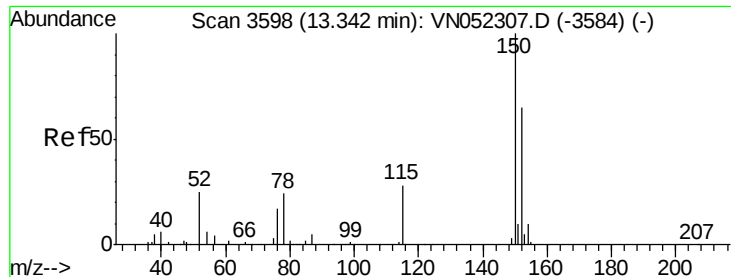
#71
Bromoform
Concen: 0.143 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion:173 Resp: 225
Ion Ratio Lower Upper
173 100
175 0.0 25.0 75.0#
254 0.0 0.0 0.0



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: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

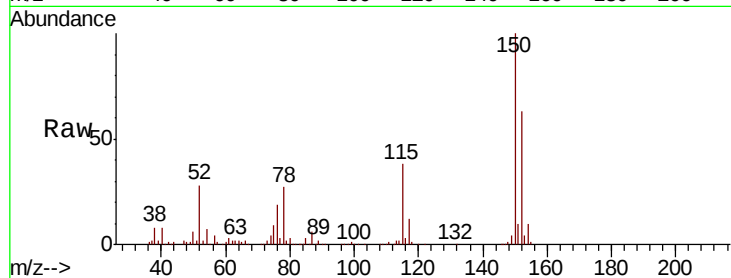
Tot Ion:152 Resp: 127825

Ion Ratio Lower Upper

152 100

115 60.5 30.3 91.0

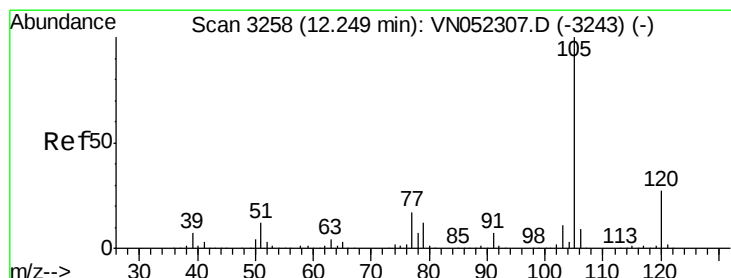
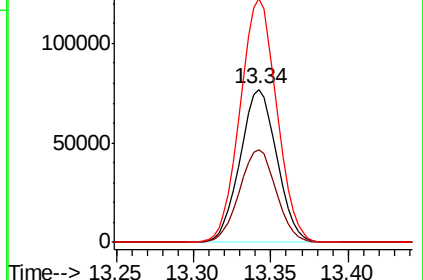
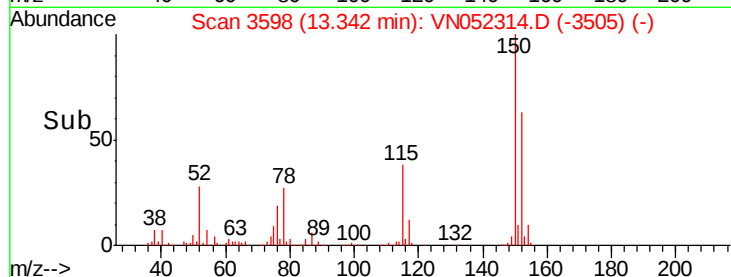
150 158.3 0.0 348.2



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



#73

Isopropylbenzene

Concen: 0.285 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052314.D

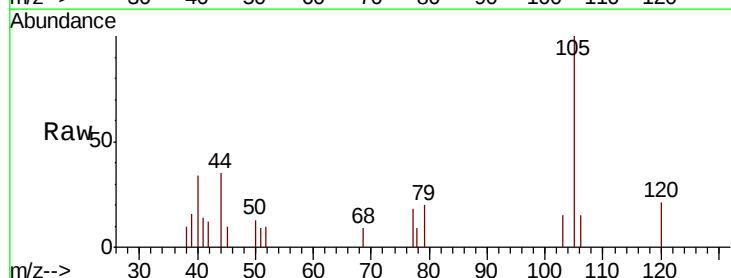
Acq: 14 Nov 2018 15:49

Tgt Ion:105 Resp: 2925

Ion Ratio Lower Upper

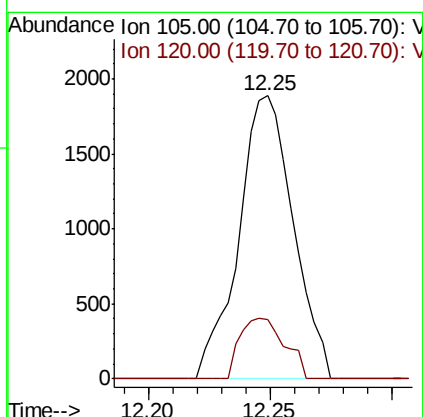
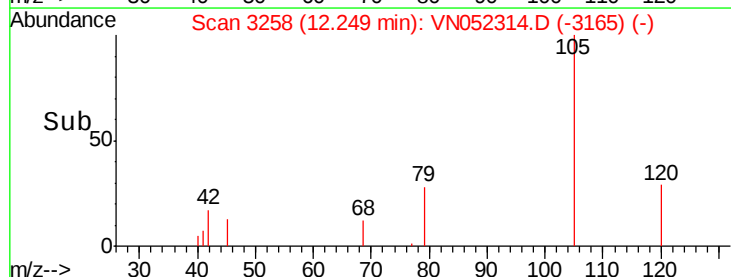
105 100

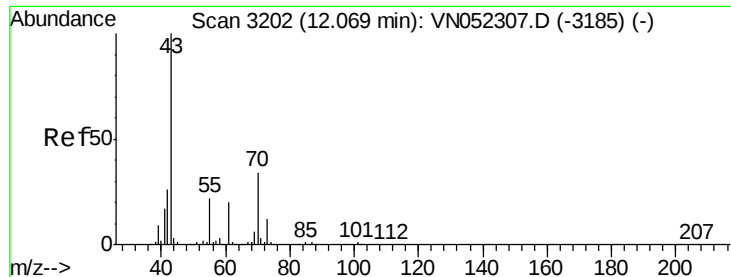
120 17.6 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.413 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 1513

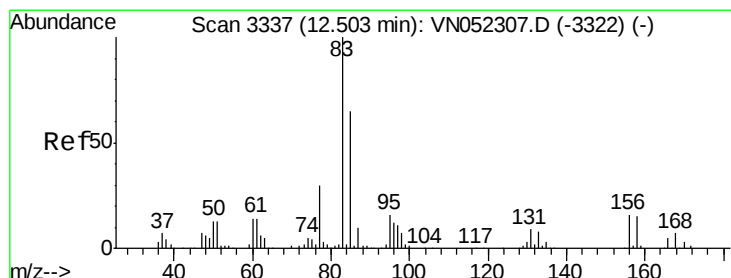
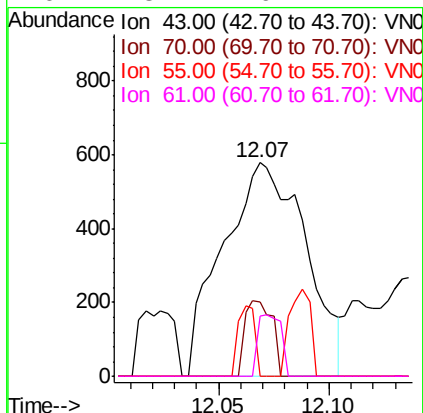
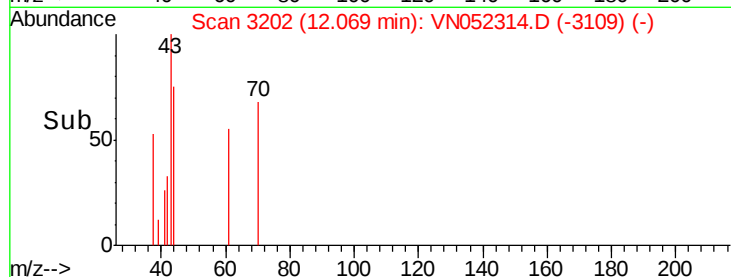
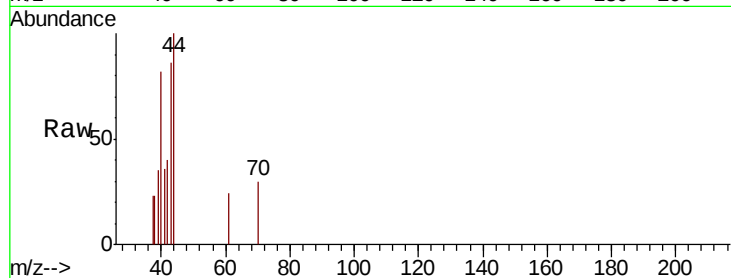
Ion Ratio Lower Upper

43 100

70 11.6 27.1 40.7#

55 6.7 17.4 26.0#

61 8.1 16.1 24.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.206 ug/l

RT: 12.49 min Scan# 3334

Delta R.T. -0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

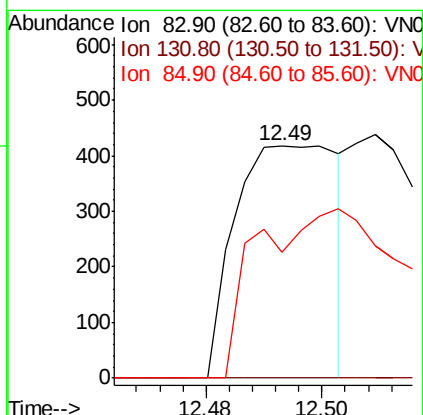
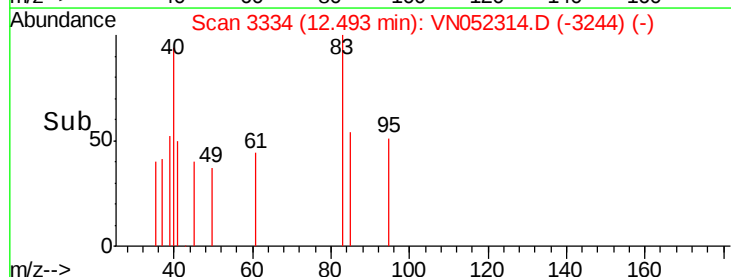
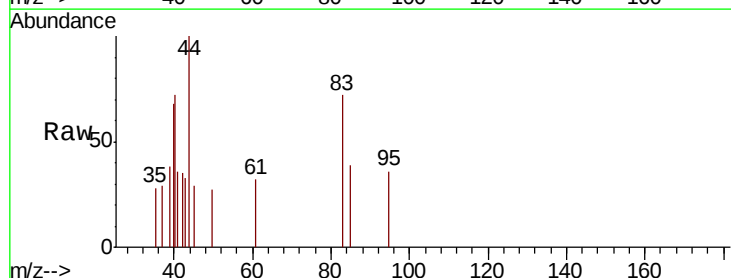
Tgt Ion: 83 Resp: 512

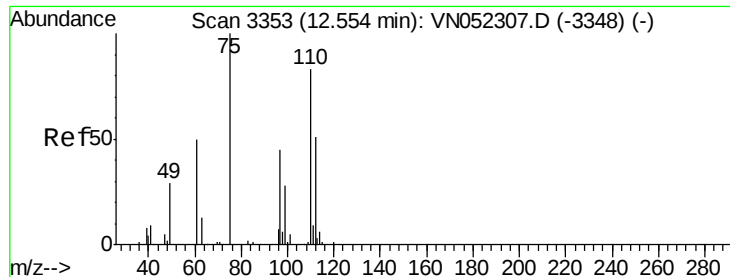
Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 27.7 32.4 97.2#





#76

1,2,3-Trichloropropane

Concen: 39.617 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

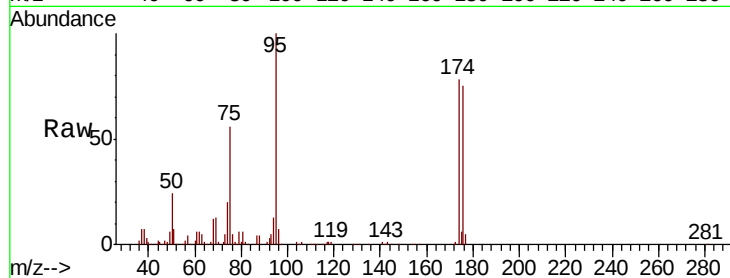
MDL-WATER-03-QT4-2018

Tot Ion: 75 Resp: 85927

Ion Ratio Lower Upper

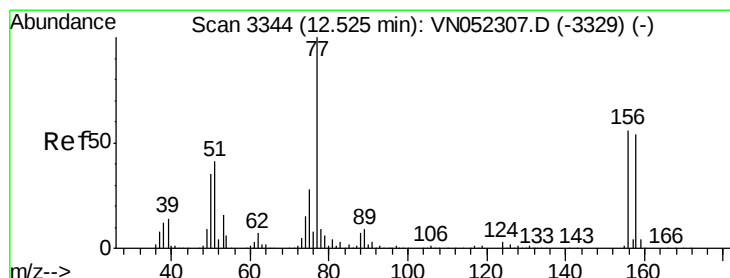
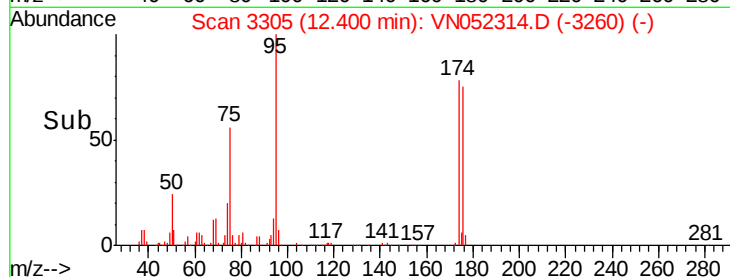
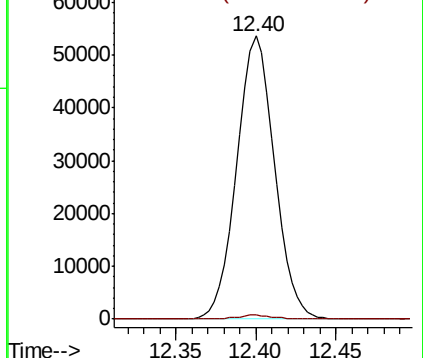
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: 0.330 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

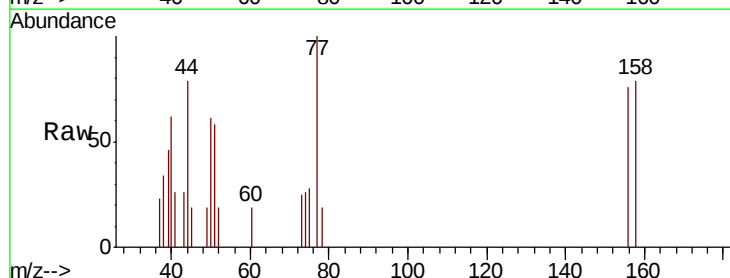
Tgt Ion: 156 Resp: 789

Ion Ratio Lower Upper

156 100

77 228.1 103.6 310.9

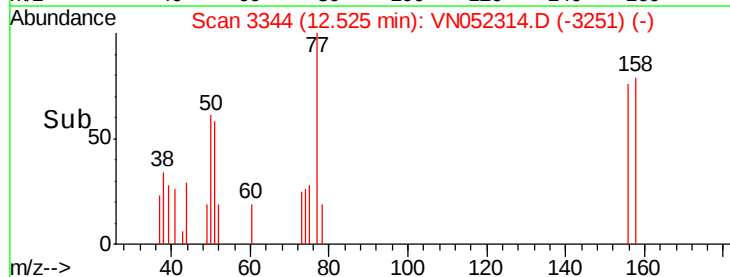
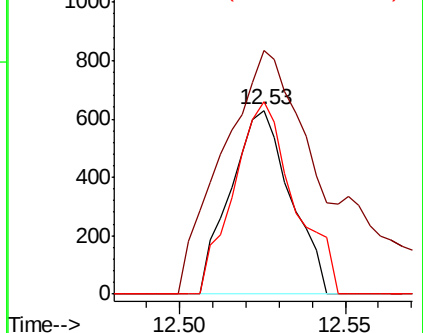
158 106.6 48.1 144.4

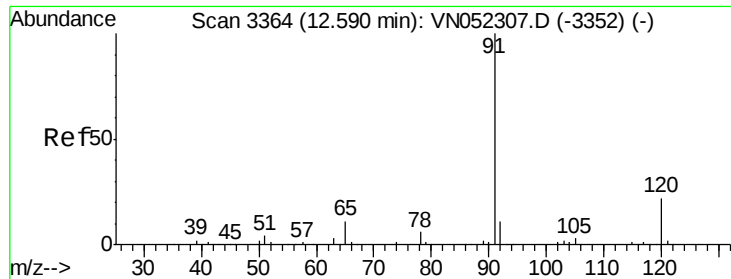


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

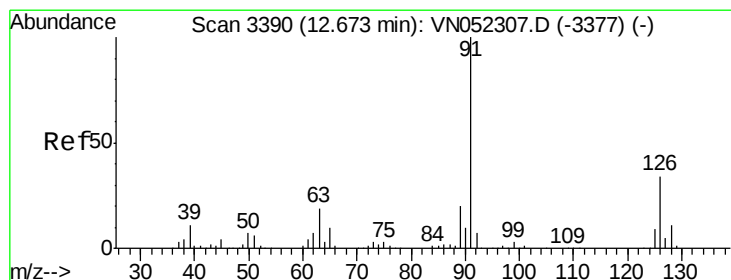
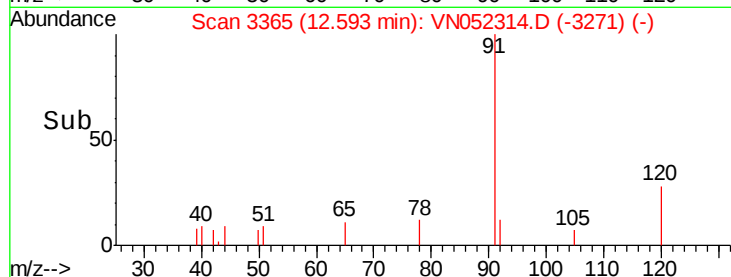
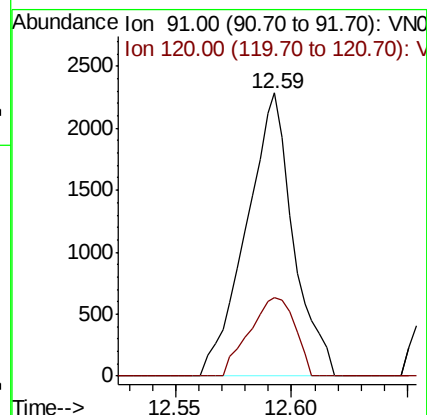
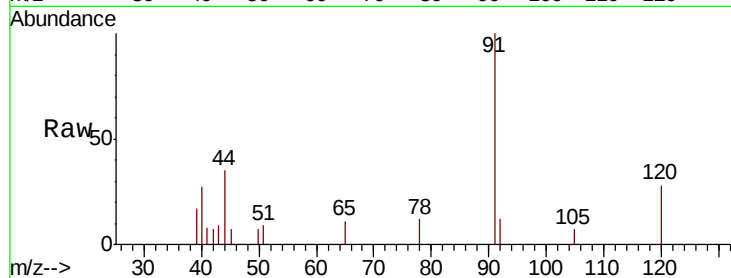




#78
n-propylbenzene
Concen: 0.268 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

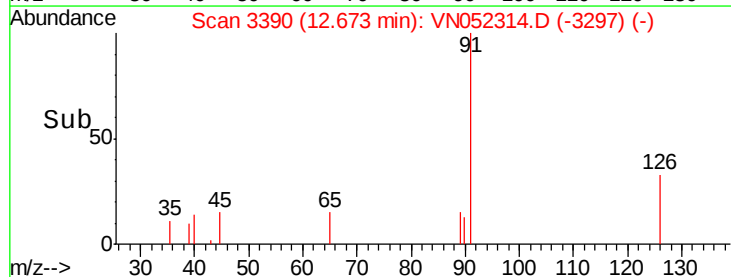
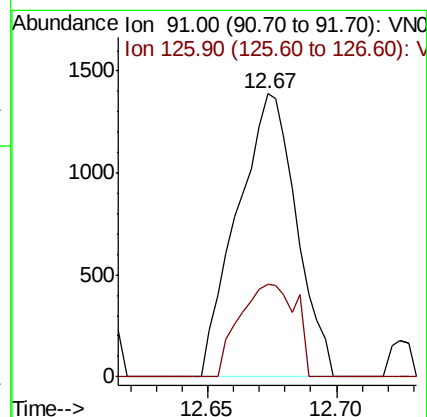
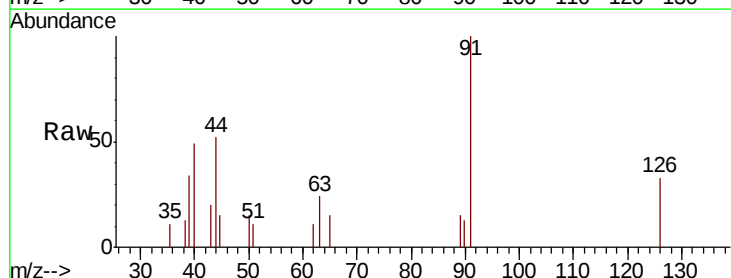
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

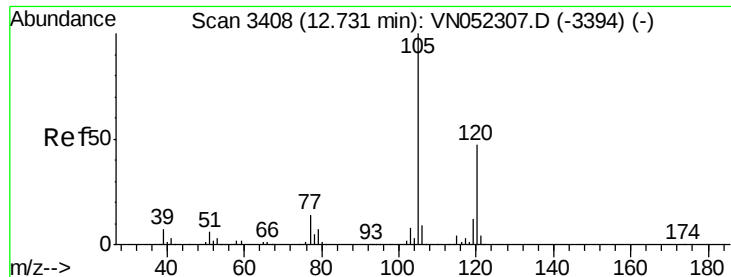
Tot Ion: 91 Resp: 3225
Ion Ratio Lower Upper
91 100
120 26.9 11.1 33.1



#79
2-Chlorotoluene
Concen: 0.317 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 91 Resp: 2225
Ion Ratio Lower Upper
91 100
126 31.0 17.0 51.0





#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

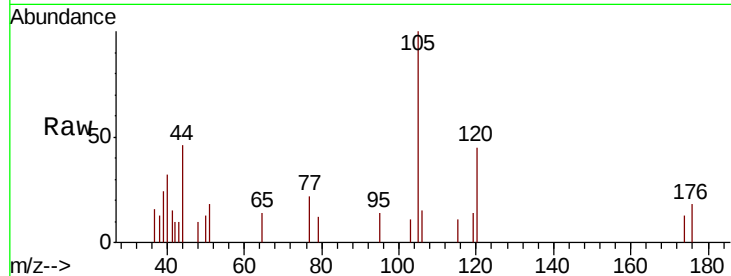
MDL-WATER-03-QT4-2018

Tot Ion:105 Resp: 2186

Ion Ratio Lower Upper

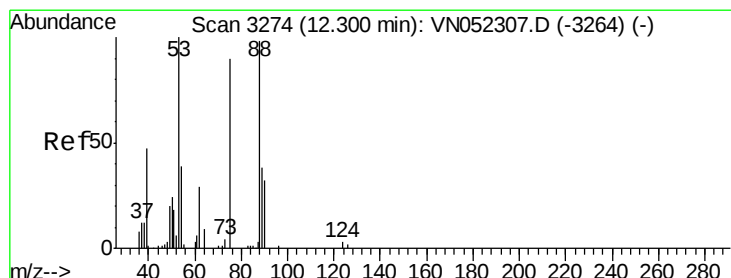
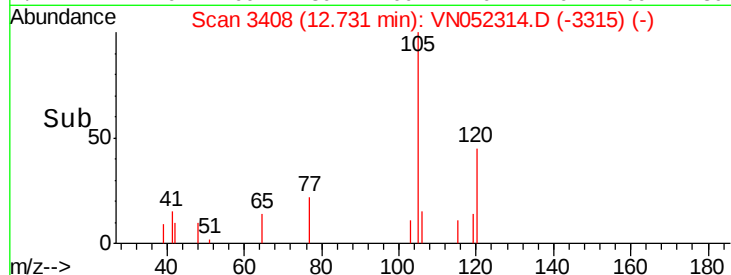
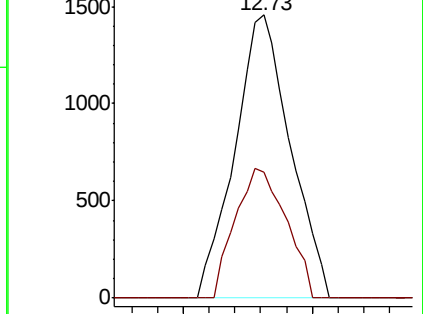
105 100

120 42.0 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 128.493 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

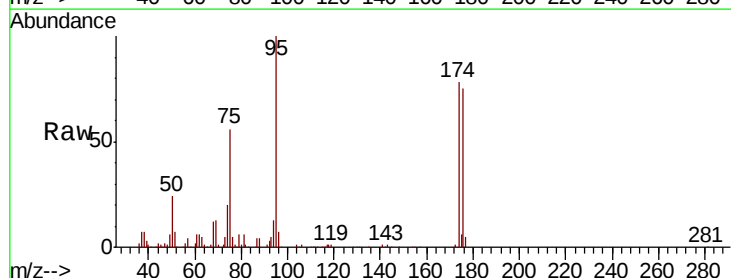
Tgt Ion: 75 Resp: 85927

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

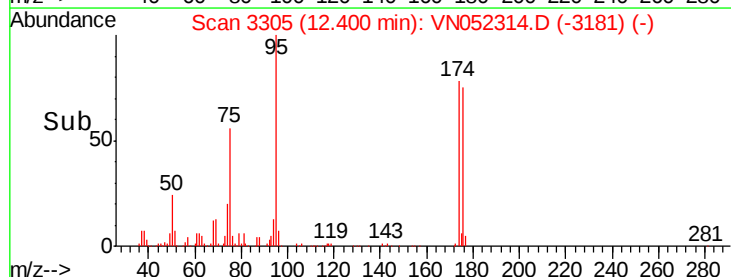
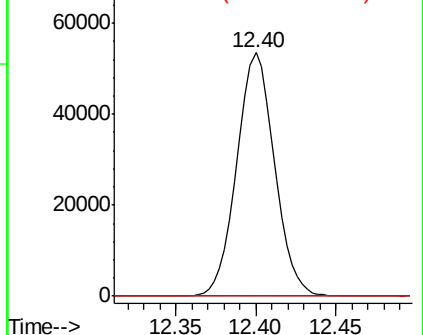
89 0.0 35.4 53.0#

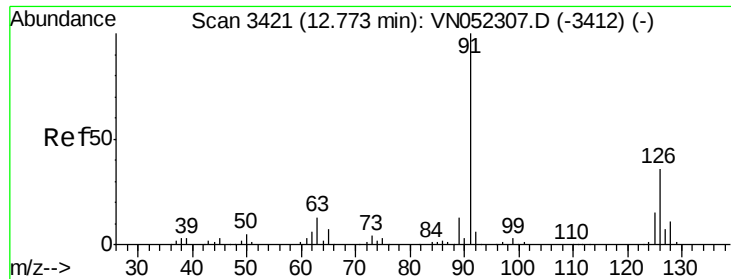


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.356 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

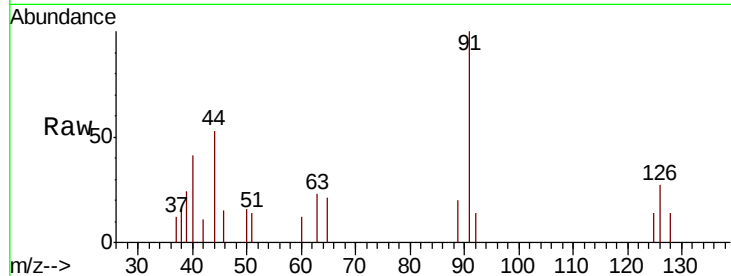
MDL-WATER-03-QT4-2018

Tot Ion: 91 Resp: 2564

Ion Ratio Lower Upper

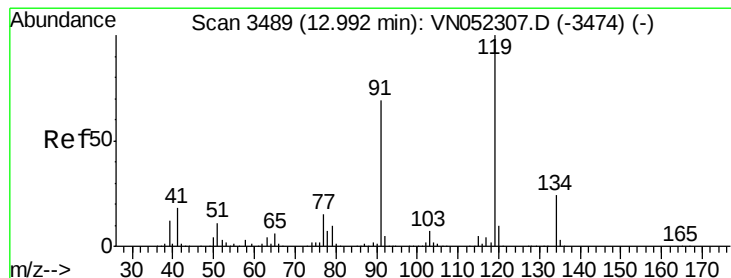
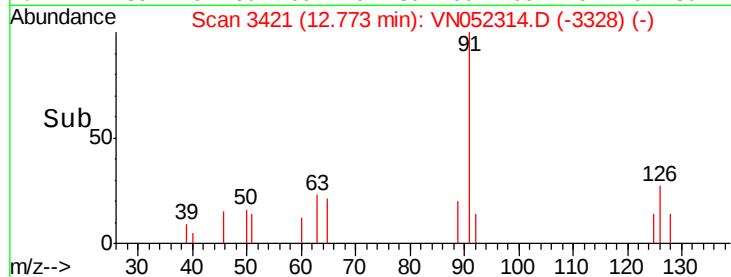
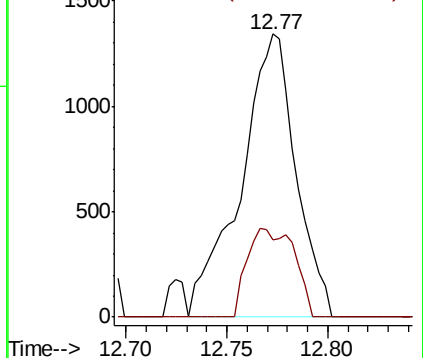
91 100

126 26.8 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VN052307.D (-3412) (-)

Ion 125.90 (125.60 to 126.60): VN052307.D (-3412) (-)



#83

tert-Butylbenzene

Concen: 0.299 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

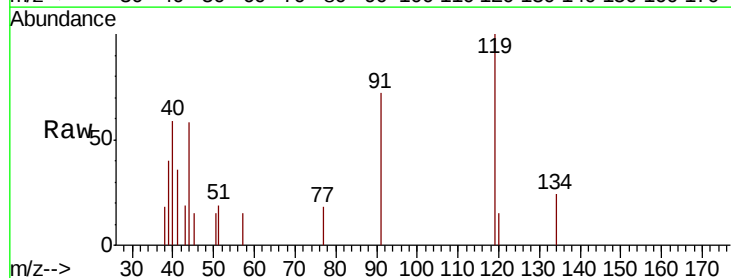
Tgt Ion: 119 Resp: 2159

Ion Ratio Lower Upper

119 100

91 67.8 33.8 101.3

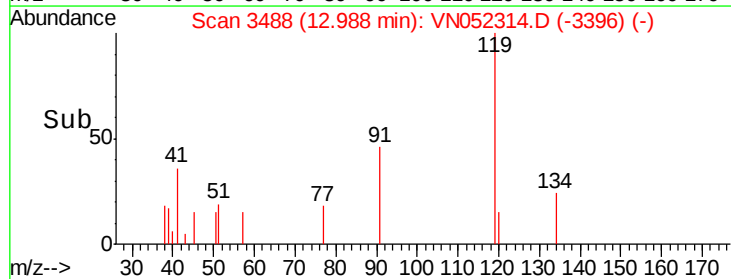
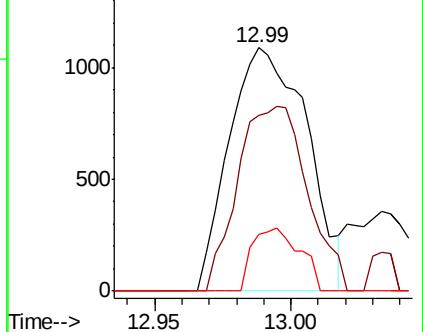
134 15.7 11.9 35.9

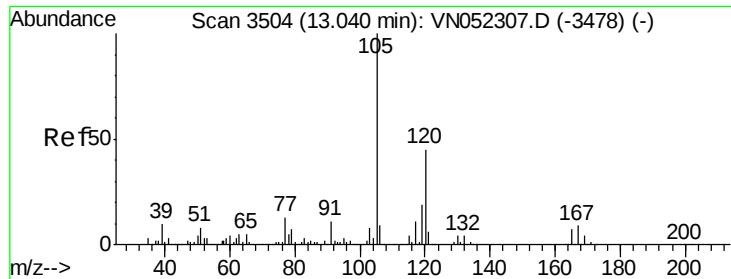


Abundance Ion 119.00 (118.70 to 119.70): VN052307.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN052307.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN052307.D (-3474) (-)

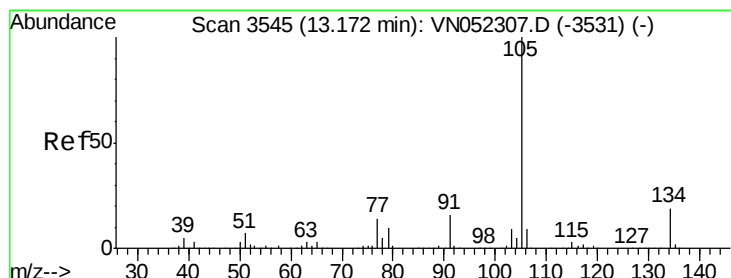
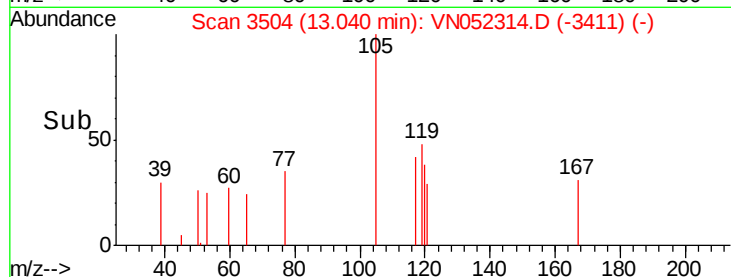
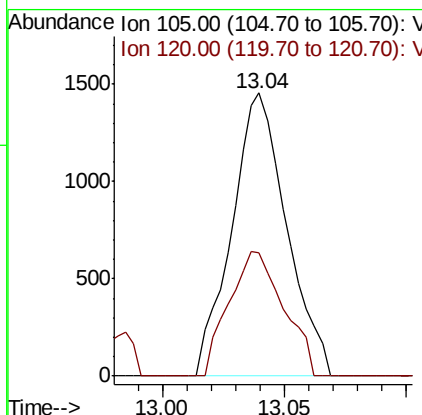
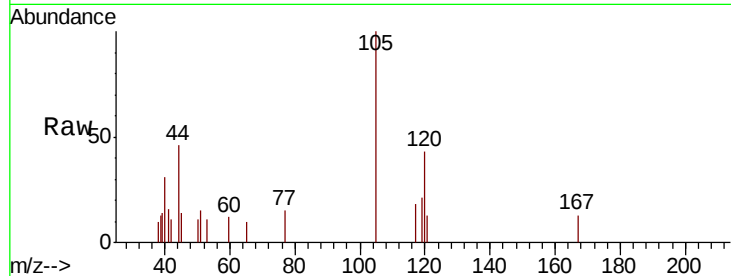




#84
 1,2,4-Trimethylbenzene
 Concen: 0.276 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

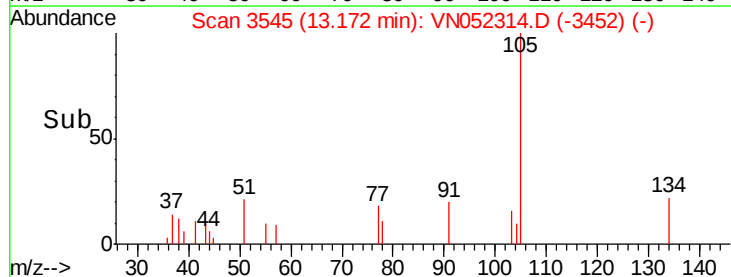
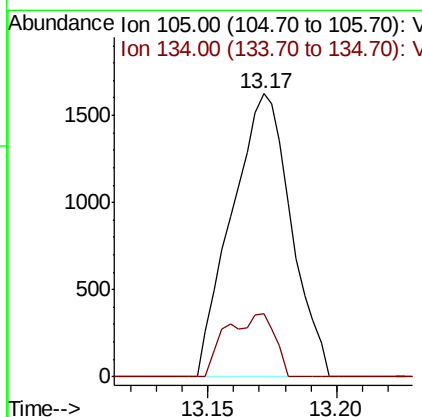
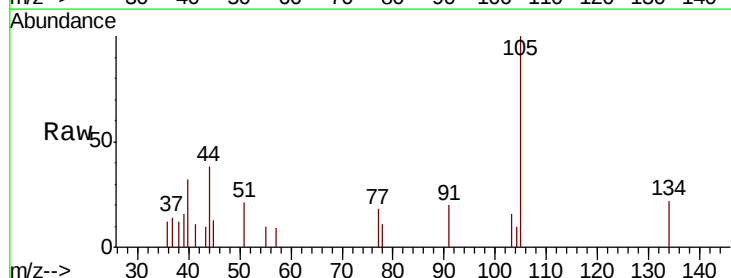
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

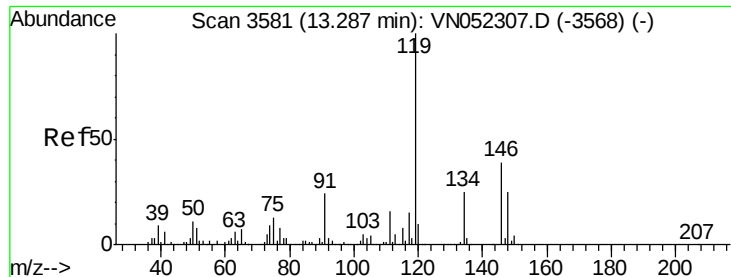
Tot Ion:105 Resp: 2262
 Ion Ratio Lower Upper
 105 100
 120 44.1 22.5 67.5



#85
 sec-Butylbenzene
 Concen: 0.265 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Tgt Ion:105 Resp: 2606
 Ion Ratio Lower Upper
 105 100
 134 18.2 9.5 28.5

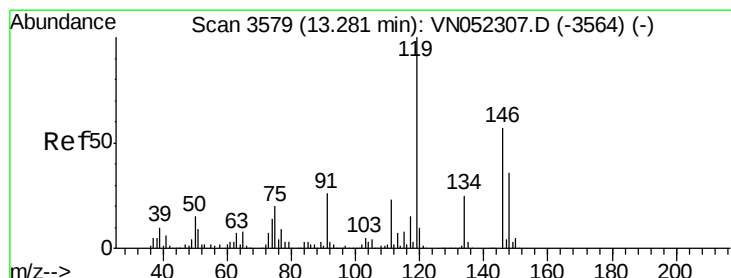
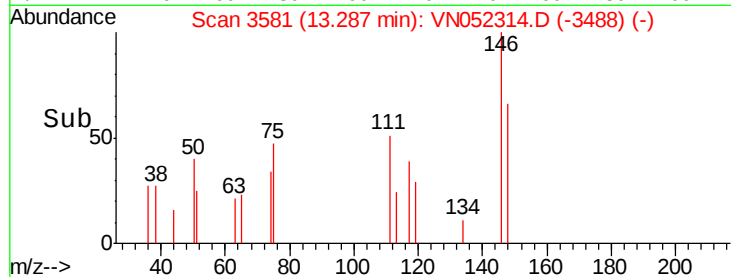
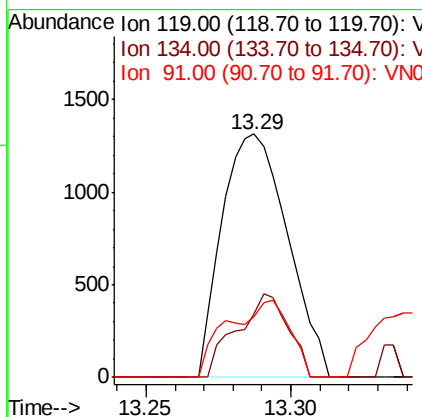
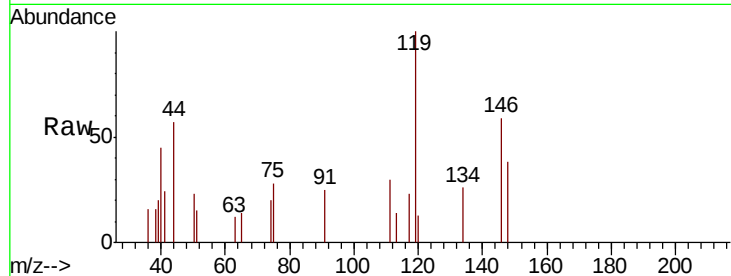




#86
p-Isopropyltoluene
Concen: 0.248 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

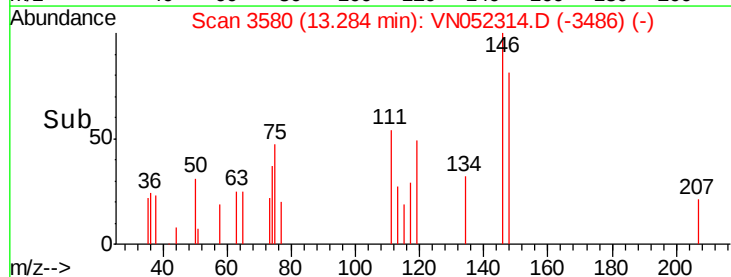
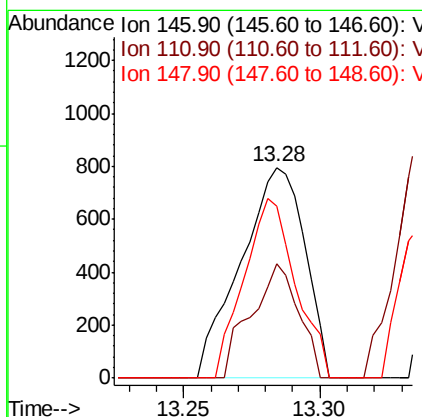
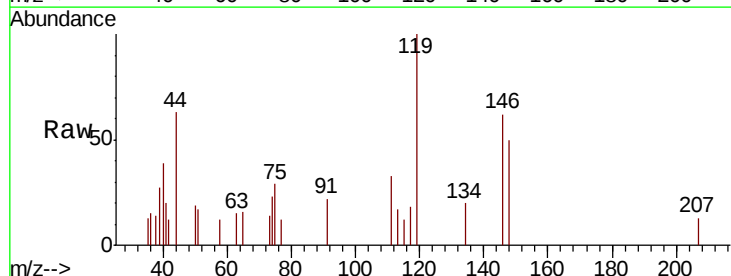
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

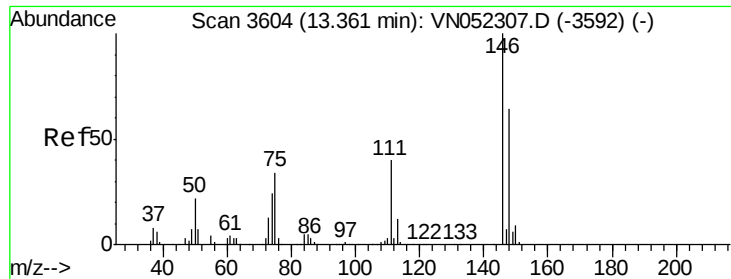
Tot Ion:119 Resp: 2065
Ion Ratio Lower Upper
119 100
134 26.7 13.0 38.9
91 30.1 12.4 37.0



#87
1,3-Dichlorobenzene
Concen: 0.306 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion:146 Resp: 1298
Ion Ratio Lower Upper
146 100
111 40.4 20.3 61.0
148 68.4 31.8 95.4

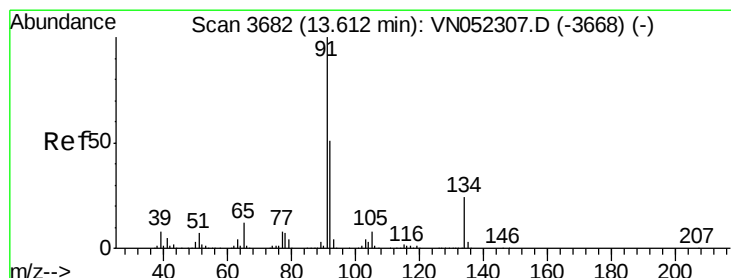
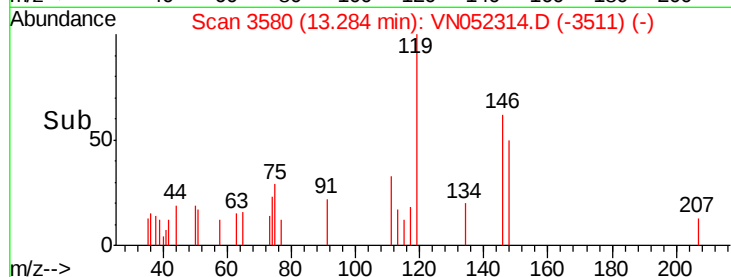
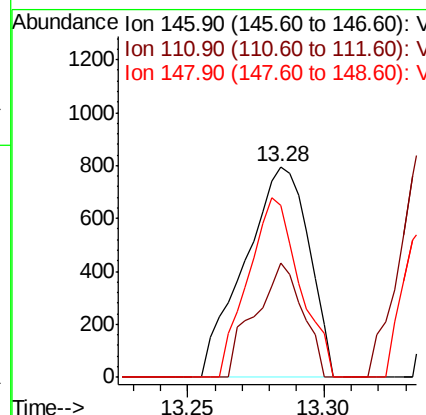
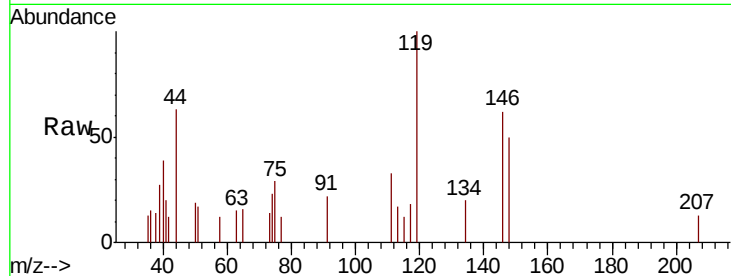




#88
 1,4-Dichlorobenzene
 Concen: 0.307 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

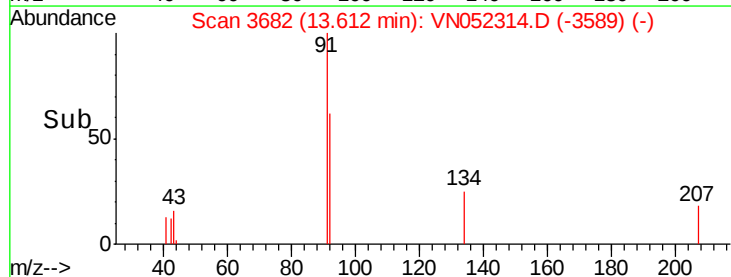
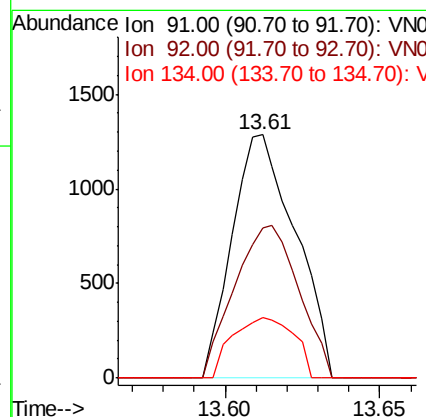
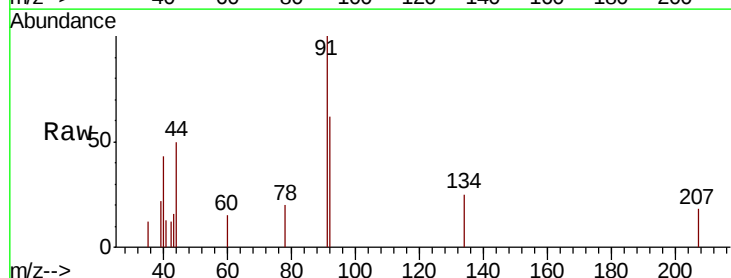
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

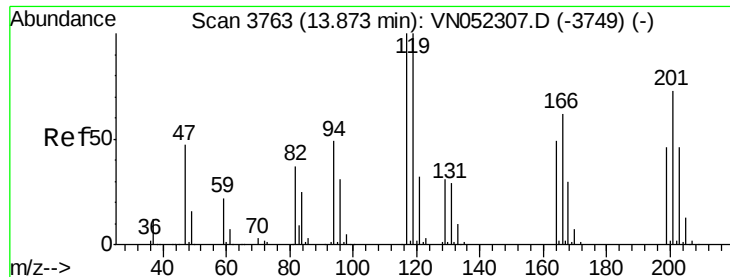
Tot Ion:146 Resp: 1298
 Ion Ratio Lower Upper
 146 100
 111 40.4 20.6 61.8
 148 68.4 32.4 97.2



#89
 n-Butylbenzene
 Concen: 0.256 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. -0.00 min
 Lab File: VN052314.D
 Acq: 14 Nov 2018 15:49

Tgt Ion: 91 Resp: 1832
 Ion Ratio Lower Upper
 91 100
 92 63.7 25.4 76.2
 134 24.2 12.2 36.4

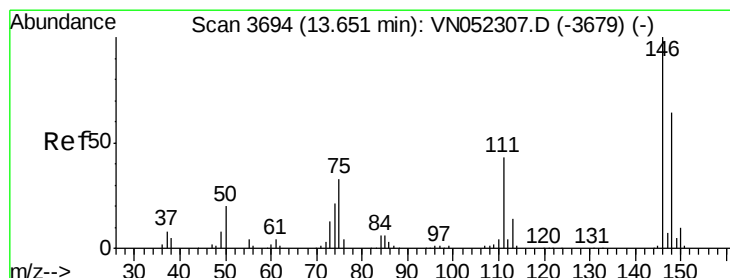
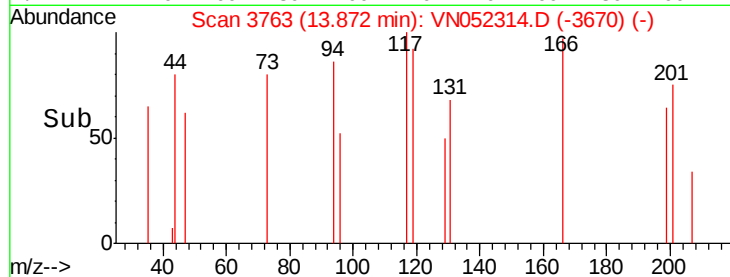
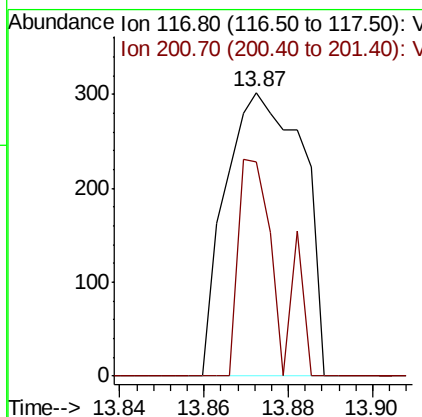
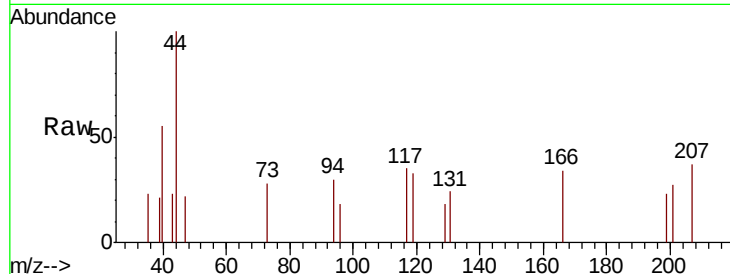




#90
Hexachloroethane
Concen: 0.260 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

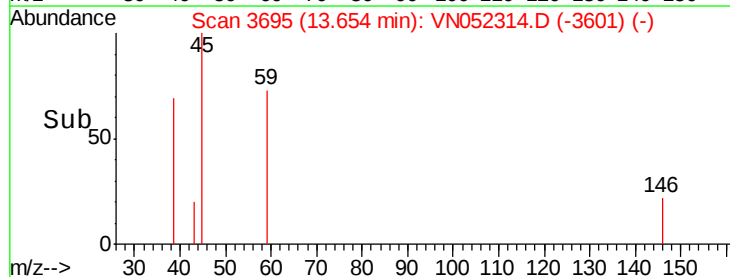
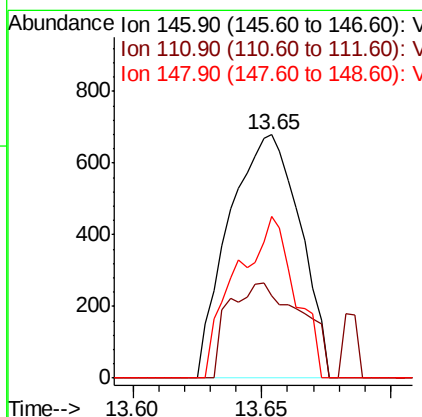
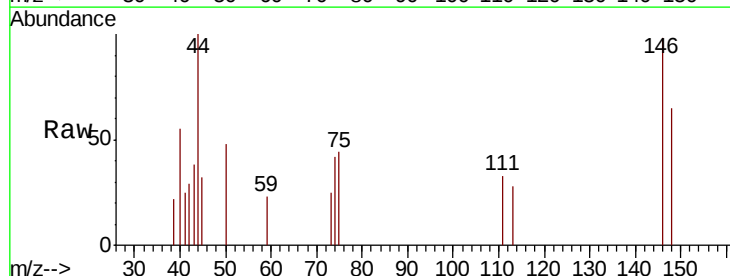
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

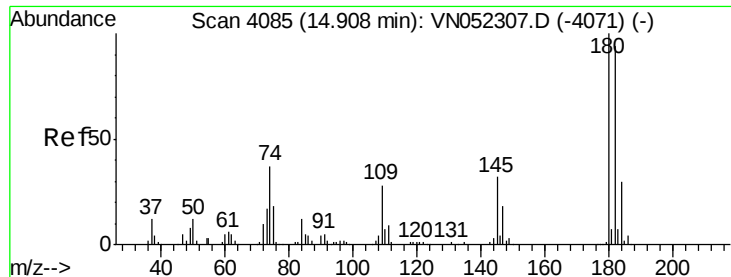
Tot Ion:117 Resp: 384
Ion Ratio Lower Upper
117 100
201 38.5 35.3 105.9



#91
1,2-Dichlorobenzene
Concen: 0.317 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN052314.D
Acq: 14 Nov 2018 15:49

Tgt Ion:146 Resp: 1305
Ion Ratio Lower Upper
146 100
111 40.0 21.3 63.9
148 55.5 31.6 94.8





#93

1,2,4-Trichlorobenzene

Concen: 2.471 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

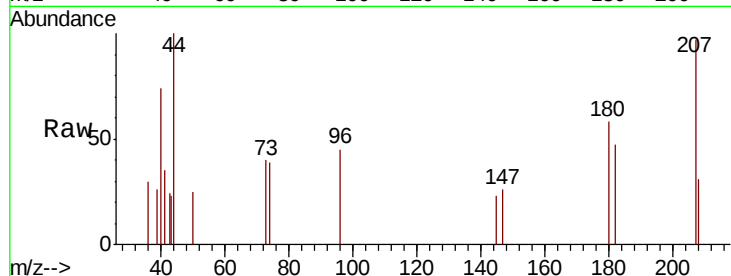
Tot Ion:180 Resp: 430

Ion Ratio Lower Upper

180 100

182 124.9 47.6 142.9

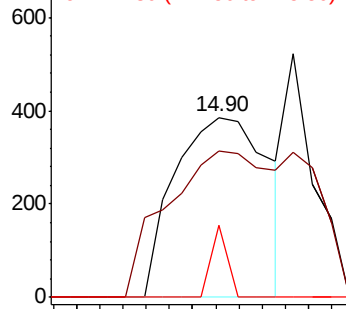
145 7.0 15.5 46.5#



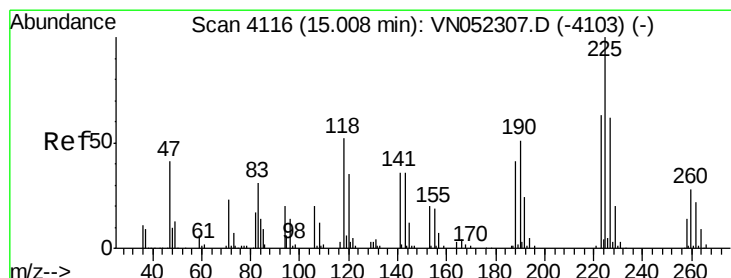
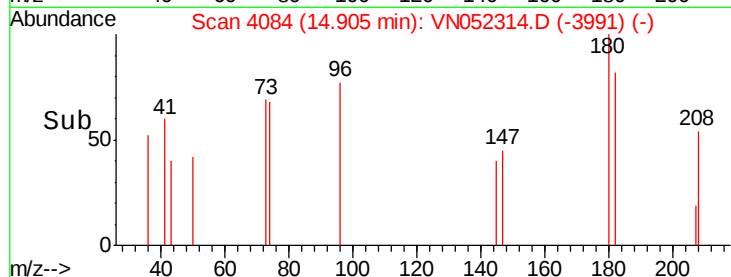
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#94

Hexachlorobutadiene

Concen: 0.377 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

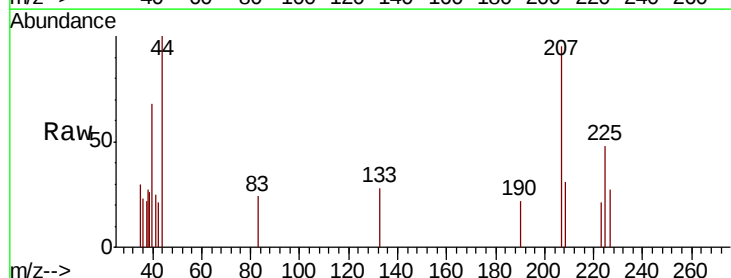
Tgt Ion:225 Resp: 355

Ion Ratio Lower Upper

225 100

223 27.6 31.9 95.5#

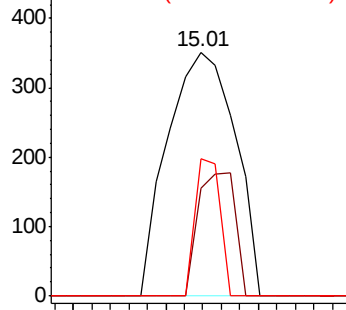
227 21.1 31.6 95.0#



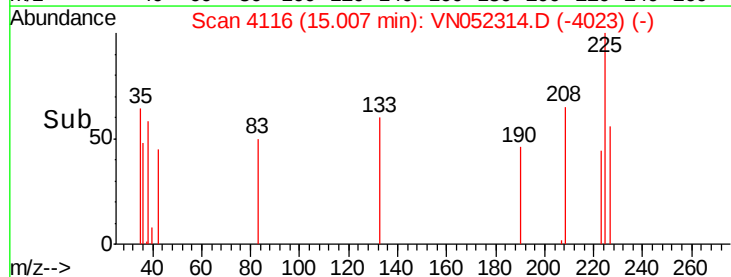
Abundance Ion 224.70 (224.40 to 225.40): V

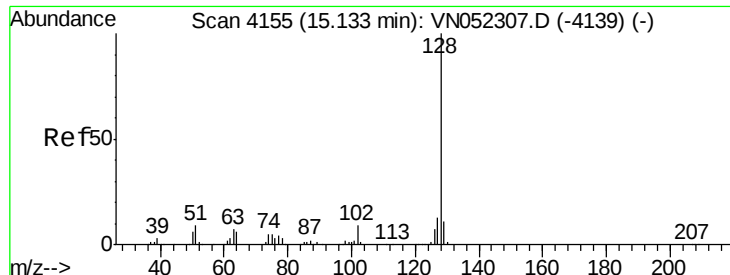
Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->





#95

Naphthalene

Concen: 2.890 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

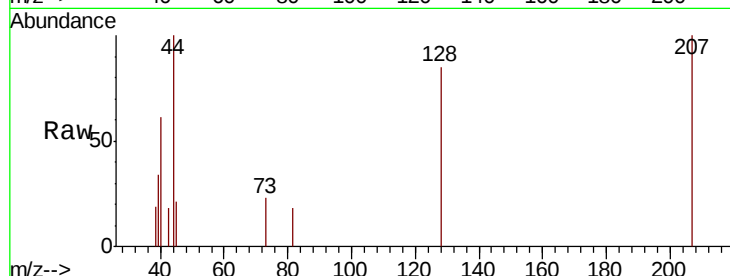
Tot Ion:128 Resp: 1362

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

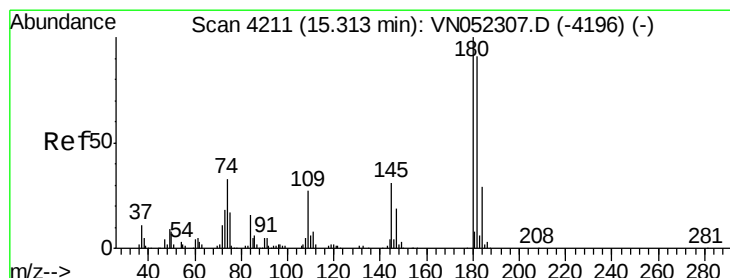
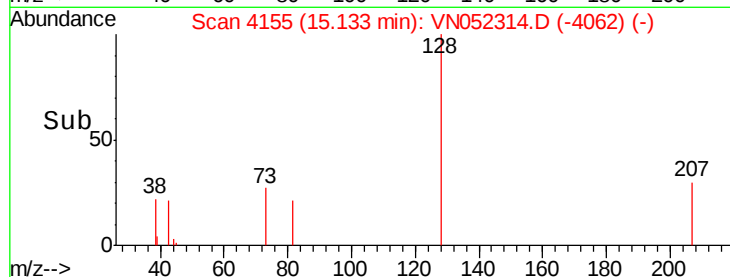
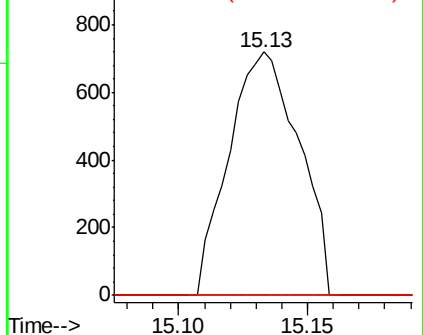
129 0.0 8.6 13.0#



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: 0.319 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. -0.01 min

Lab File: VN052314.D

Acq: 14 Nov 2018 15:49

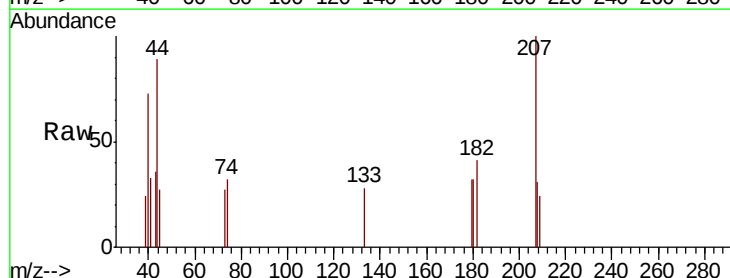
Tgt Ion:180 Resp: 499

Ion Ratio Lower Upper

180 100

182 71.3 46.5 139.3

145 0.0 16.4 49.2#



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

