

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051833.D
 Acq On : 12 Oct 2018 15:26
 Operator : MD\SY
 Sample : J5164-09 2.5ppb
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 28

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

Quant Time: Oct 12 16:10:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	126299	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	695401	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	581271	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	242078	31.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.00%
60) 4-Bromofluorobenzene	12.40	95	217660	25.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.57%
63) Toluene-d8	10.09	98	809645	32.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.93%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	13121	2.67 ug/l	96
3) Chloromethane	2.06	50	15363	2.96 ug/l	98
4) Vinyl Chloride	2.18	62	21608	2.79 ug/l	97
5) Bromomethane	2.57	94	22377	3.27 ug/l	86
6) Chloroethane	2.70	64	16747	3.00 ug/l	94
7) Trichlorofluoromethane	3.01	101	31745	2.88 ug/l	99
8) Diethyl Ether	3.41	74	9270	2.88 ug/l	74
9) 1,1,2-Trichlorotrifluoroet	3.76	101	18162	2.89 ug/l #	74
10) 1,1-Dichloroethene	3.74	96	16017	2.75 ug/l	84
11) Methyl Iodide	3.95	142	17041	2.02 ug/l	93
12) Methyl Acetate	4.34	43	10287	2.85 ug/l	97
13) Acrolein	3.78	56	101	0.42 ug/l	91
14) Acrylonitrile	4.99	53	8010	4.96 ug/l #	1
15) Acetone	3.83	58	3594	9.01 ug/l	77
16) Carbon Disulfide	4.06	76	35926	2.35 ug/l #	90
17) Allyl chloride	4.32	41	16745	2.43 ug/l	81
18) Methylene Chloride	4.55	84	19486	3.00 ug/l	94
19) trans-1,2-Dichloroethene	5.04	96	18636	2.81 ug/l	87
20) Diisopropyl ether	5.96	45	41473	2.70 ug/l #	86
21) 1,1-Dichloroethane	5.85	63	29122	2.71 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	20306	2.60 ug/l	84
23) tert-Butyl Alcohol	4.78	59	1759	4.14 ug/l #	100
24) Methyl tert-Butyl Ether	5.06	73	46786	2.79 ug/l #	60
25) Chloroform	7.37	83	33022	2.59 ug/l	97
26) Cyclohexane	7.65	56	24150	2.65 ug/l #	73
29) 1,1-Dichloropropene	7.79	75	23475	2.62 ug/l	93
30) 2-Butanone	6.85	43	22904	12.23 ug/l #	90
31) 2,2-Dichloropropane	6.83	77	25754	2.44 ug/l #	78
32) 1,1,1-Trichloroethane	7.57	97	31257	2.63 ug/l	95
33) Carbon Tetrachloride	7.78	117	26658	2.48 ug/l	93
34) Benzene	8.04	78	74634	2.81 ug/l #	68
35) Methacrylonitrile	7.18	41	939	0.38 ug/l #	75
36) 1,2-Dichloroethane	8.13	62	24445	2.88 ug/l	96
37) Trichloroethene	8.83	130	21829	2.65 ug/l	94
38) Methylcyclohexane	9.08	83	29231	2.54 ug/l	83
39) 1,2-Dichloropropane	9.12	63	16793	2.69 ug/l	96
40) Dibromomethane	9.21	93	11853	2.56 ug/l	91

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	22946	2.40	ug/l	92
42) Vinyl Acetate	5.90	43	133806	12.69	ug/l #	92
43) Ethyl Acetate	6.93	43	8891	2.19	ug/l #	71
44) Isopropyl Acetate	8.17	43	20733	2.55	ug/l	98
45) 1,4-Dioxane	9.21	88	3370	51.65	ug/l #	75
46) Methyl methacrylate	9.20	41	9543	2.55	ug/l	77
47) n-amyl Acetate	12.07	43	11867	1.74	ug/l #	80
48) t-1,3-Dichloropropene	10.38	75	20459	2.19	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	23646	2.30	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	16531	2.58	ug/l	96
51) Ethyl methacrylate	10.43	69	16804	2.29	ug/l	86
52) 1,3-Dichloropropane	10.71	76	25343	2.56	ug/l	97
53) Dibromochloromethane	10.90	129	17023	2.15	ug/l	91
54) 1,2-Dibromoethane	11.01	107	16523	2.46	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	36007	11.49	ug/l	93
56) Bromoform	12.13	173	9066	1.74	ug/l #	90
58) 4-Methyl-2-Pentanone	9.99	43	55695	14.32	ug/l #	89
59) 2-Hexanone	10.43	43	581	0.22	ug/l	96
61) Tetrachloroethene	10.63	164	21010	2.83	ug/l	91
62) Toluene	10.16	91	81697	2.83	ug/l	98
64) Chlorobenzene	11.43	112	51274	2.71	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	18234	2.51	ug/l	98
66) Ethyl Benzene	11.51	91	81130	2.54	ug/l	99
67) m/p-Xylenes	11.62	106	64029	4.95	ug/l	99
68) o-Xylene	11.95	106	31882	2.50	ug/l	94
69) Styrene	11.97	104	40170	2.05	ug/l	95
70) Isopropylbenzene	12.25	105	85288	2.51	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	16966	2.53	ug/l	93
72) 1,2,3-Trichloropropane	12.56	75	18224	3.45	ug/l	80
73) Bromobenzene	12.53	156	19407	2.30	ug/l	86
74) n-propylbenzene	12.59	91	81463	2.23	ug/l	93
75) 2-Chlorotoluene	12.68	91	52198	2.43	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	64373	2.29	ug/l	97
77) t-1,4-Dichloro-2-butene	12.31	75	2929	1.68	ug/l	85
78) 4-Chlorotoluene	12.78	91	43674	2.07	ug/l	96
79) tert-butylbenzene	12.99	119	63125	2.44	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	58902	2.10	ug/l	96
81) sec-Butylbenzene	13.17	105	73740	2.18	ug/l	97
82) p-Isopropyltoluene	13.29	119	60856	2.01	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	26775	1.80	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	24037	1.72	ug/l	94
85) n-Butylbenzene	13.62	91	34971	1.53	ug/l	98
86) Hexachloroethane	13.88	117	10432	2.00	ug/l	83
87) 1,2-Dichlorobenzene	13.65	146	26997	1.88	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	1864	1.86	ug/l #	78
89) 1,2,4-Trichlorobenzene	14.91	180	8125	8.58	ug/l	96
90) Hexachlorobutadiene	15.01	225	9424	2.03	ug/l	88
91) Naphthalene	15.13	128	20398	9.57	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	9351	1.43	ug/l	94

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QLast Update : Fri Oct 12 10:23:44 2018
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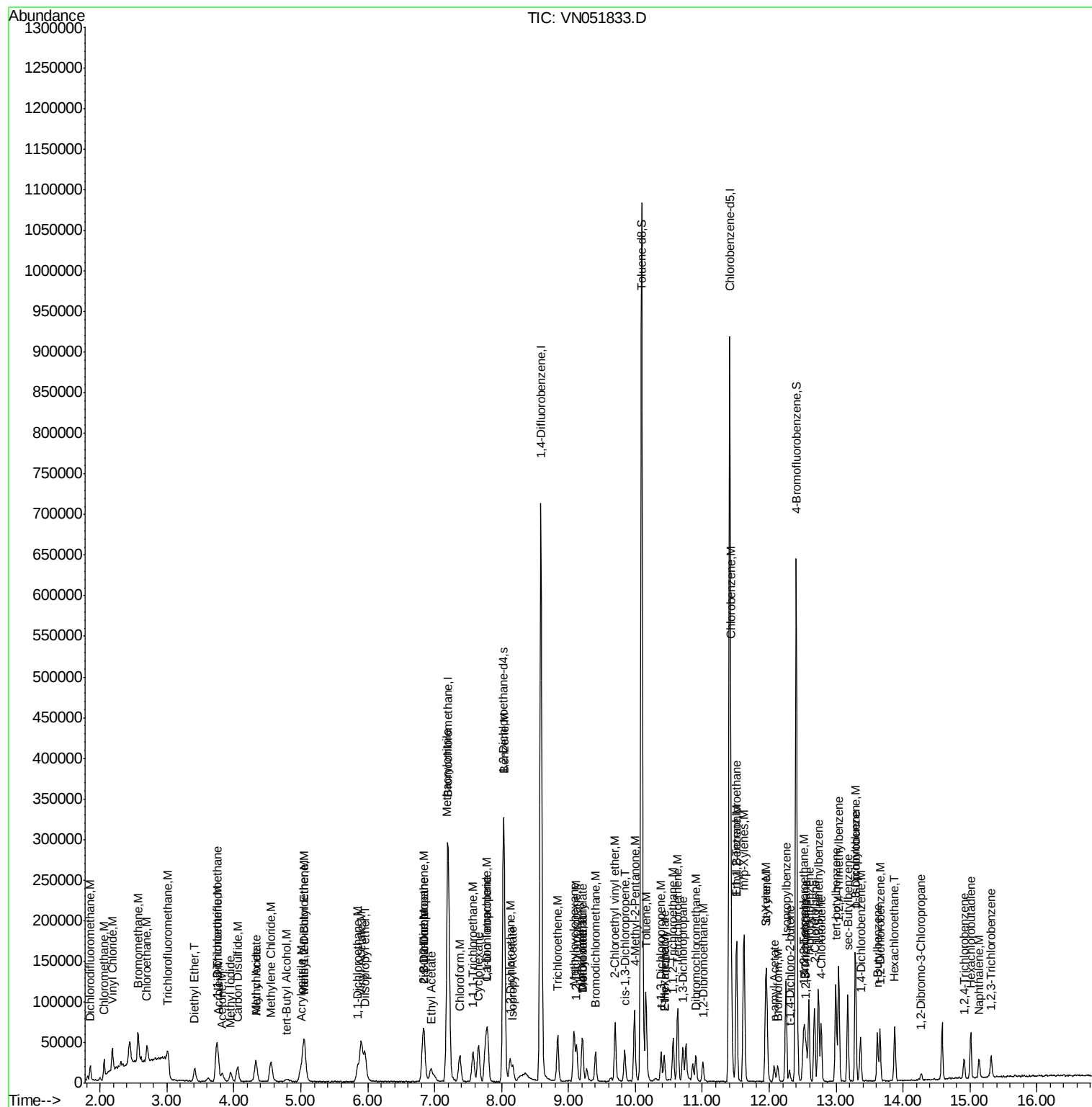
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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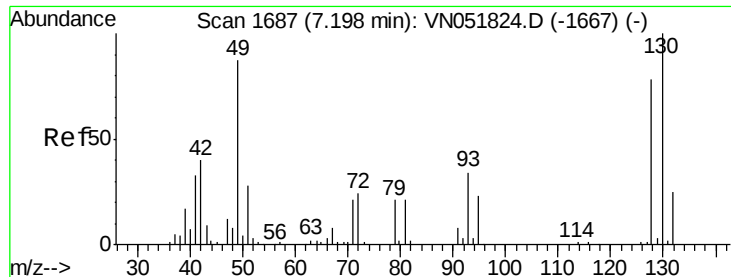
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 12 16:10:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

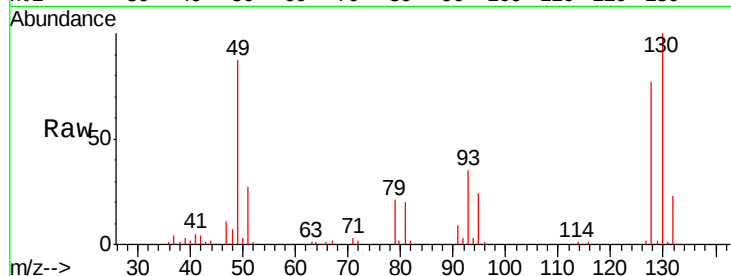
Tgt Ion:128 Resp: 126299

Ion Ratio Lower Upper

128 100

49 113.3 0.0 403.3

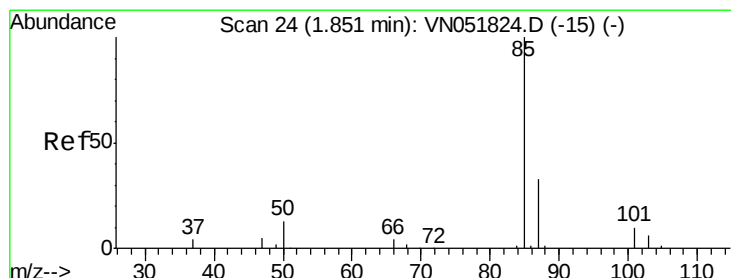
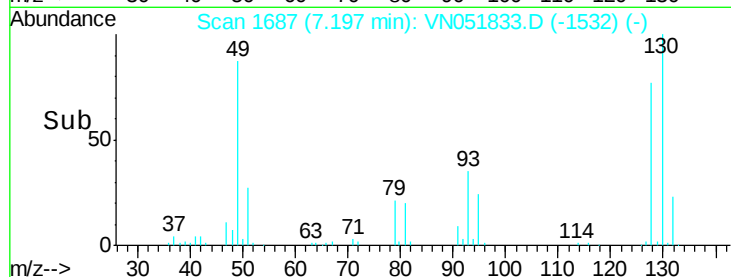
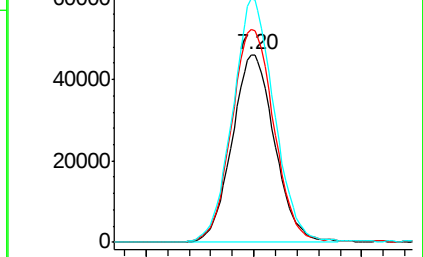
130 126.6 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.67 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051833.D

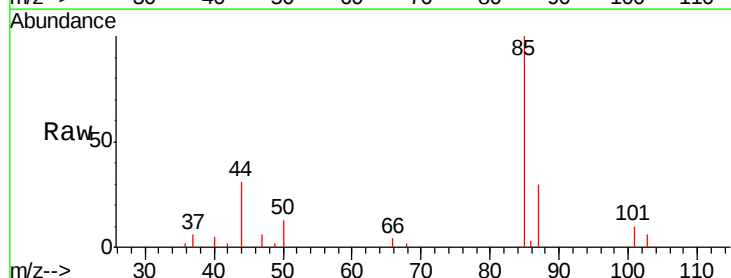
Acq: 12 Oct 2018 15:26

Tgt Ion: 85 Resp: 13121

Ion Ratio Lower Upper

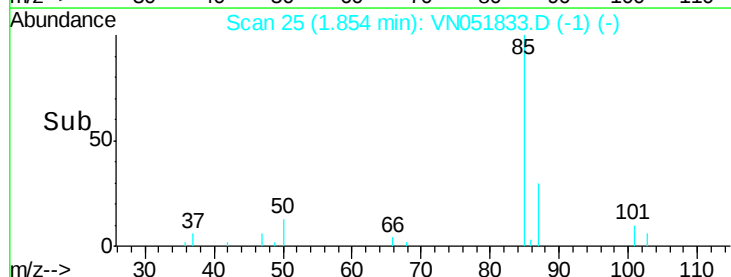
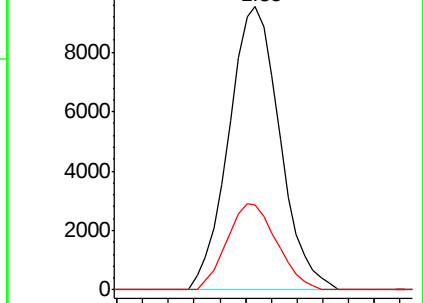
85 100

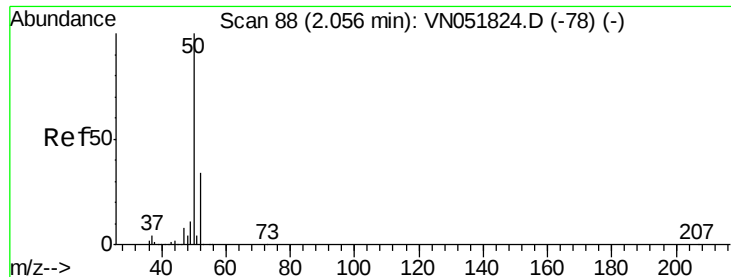
87 30.2 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 2.96 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

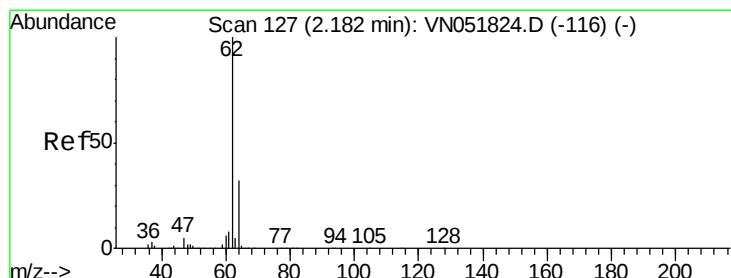
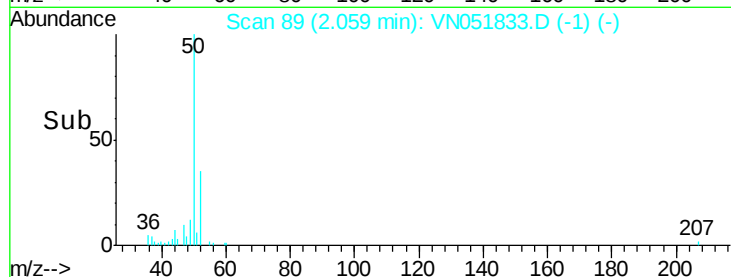
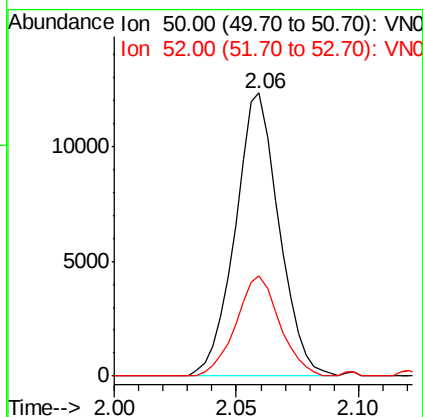
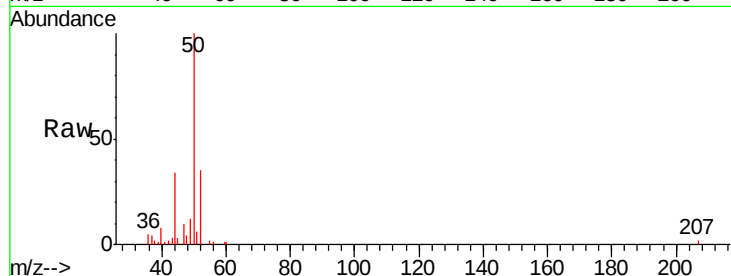
MDL-WATER-03-QT4-2018

Tgt Ion: 50 Resp: 15363

Ion Ratio Lower Upper

50 100

52 35.4 27.2 40.8



#4

Vinyl Chloride

Concen: 2.79 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051833.D

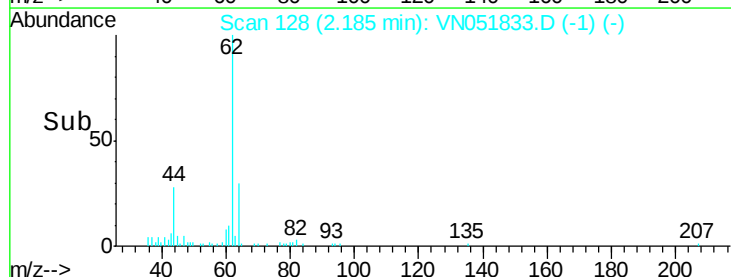
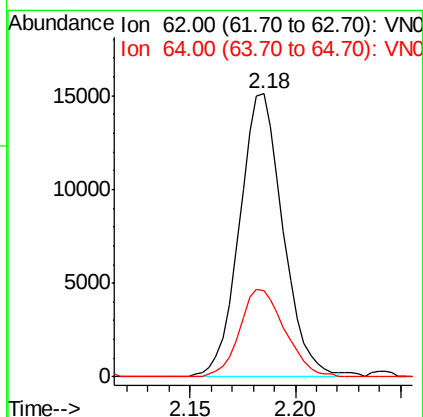
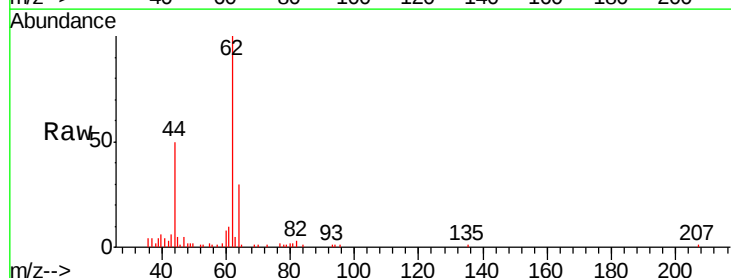
Acq: 12 Oct 2018 15:26

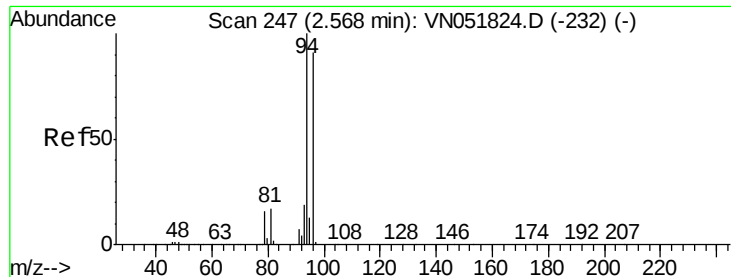
Tgt Ion: 62 Resp: 21608

Ion Ratio Lower Upper

62 100

64 30.3 25.4 38.2





#5

Bromomethane

Concen: 3.27 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

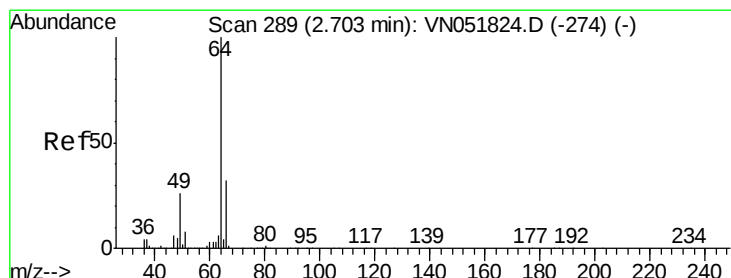
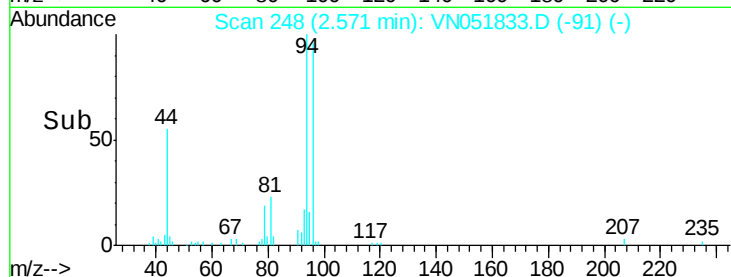
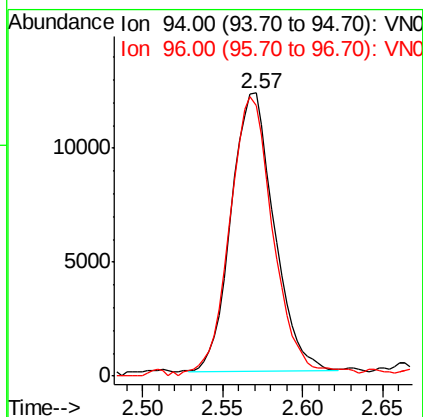
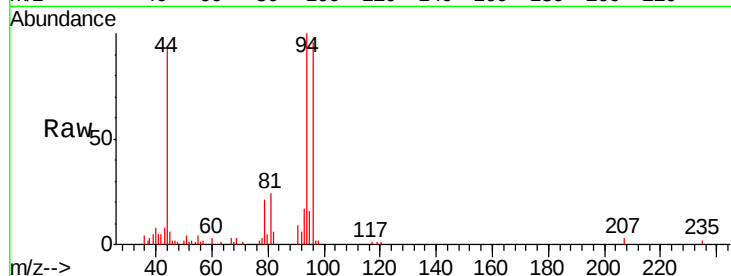
MDL-WATER-03-QT4-2018

Tgt Ion: 94 Resp: 22377

Ion Ratio Lower Upper

94 100

96 95.2 66.4 99.6



#6

Chloroethane

Concen: 3.00 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051833.D

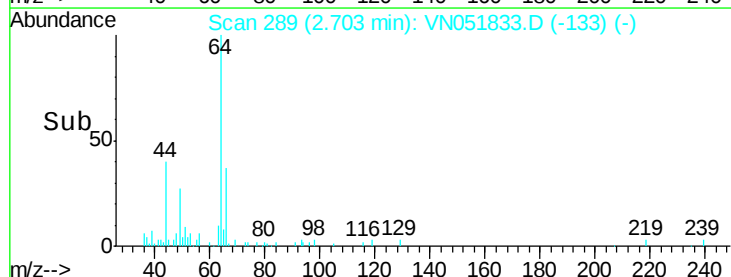
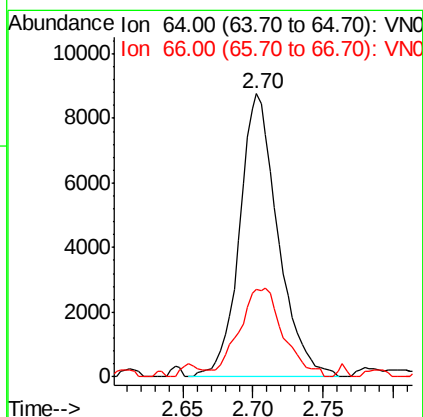
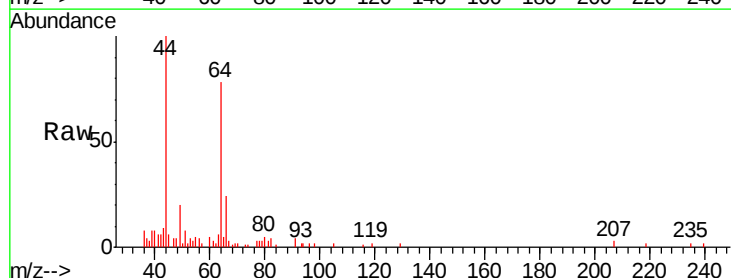
Acq: 12 Oct 2018 15:26

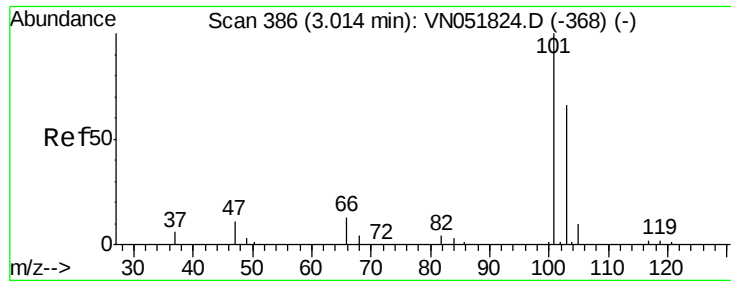
Tgt Ion: 64 Resp: 16747

Ion Ratio Lower Upper

64 100

66 28.8 25.8 38.6





#7

Trichlorofluoromethane

Concen: 2.88 ug/l

RT: 3.01 min Scan# 386

Delta R.T. 0.00 min

Lab File: VN051833.D

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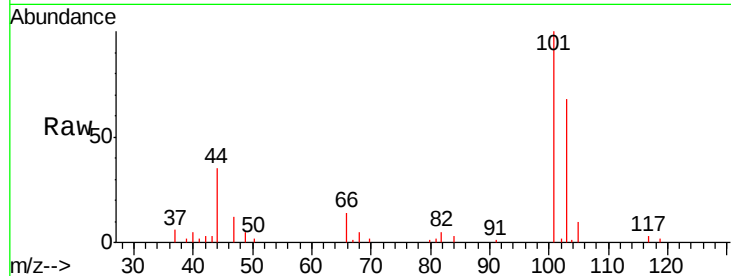
MDL-WATER-03-QT4-2018

Tgt Ion:101 Resp: 31745

Ion Ratio Lower Upper

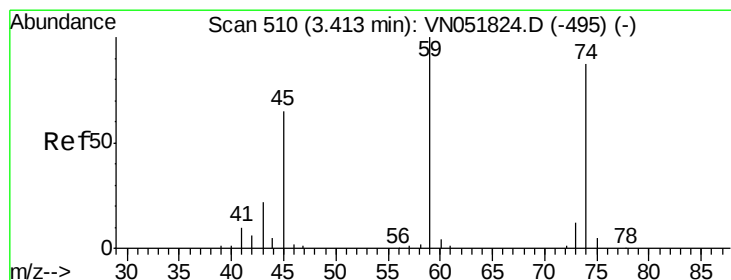
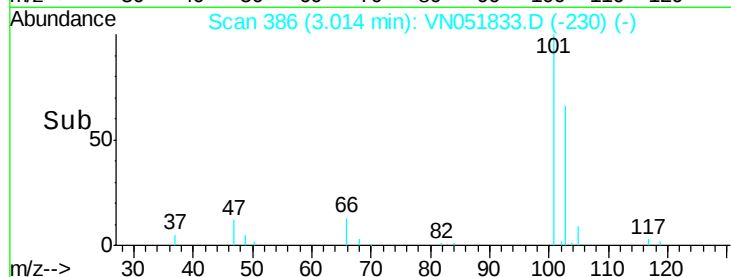
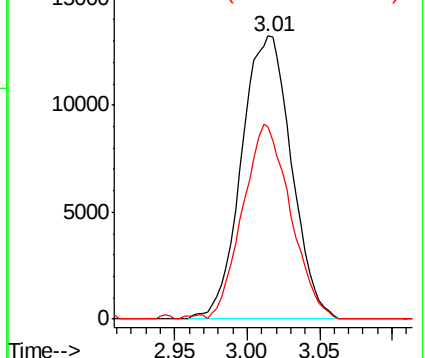
101 100

103 68.0 54.8 82.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.88 ug/l

RT: 3.41 min Scan# 509

Delta R.T. -0.00 min

Lab File: VN051833.D

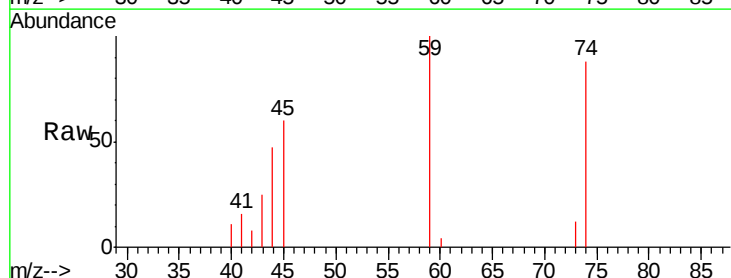
Acq: 12 Oct 2018 15:26

Tgt Ion: 74 Resp: 9270

Ion Ratio Lower Upper

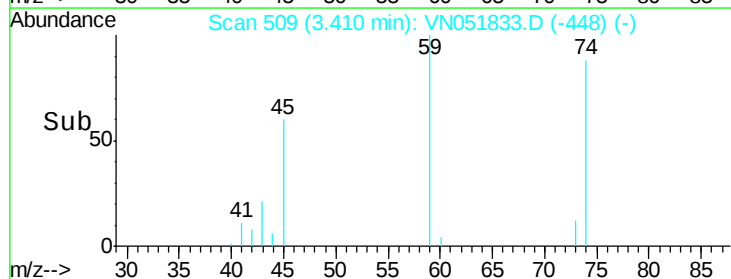
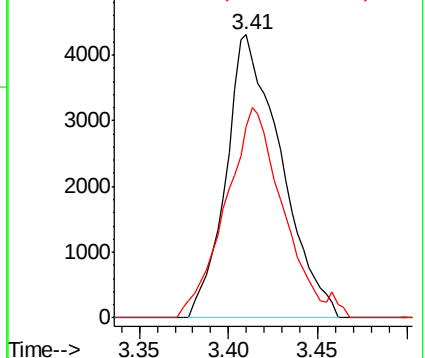
74 100

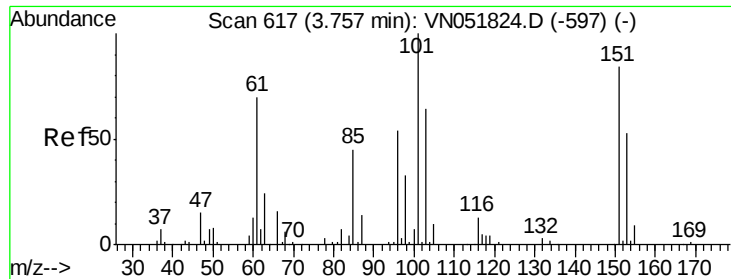
45 76.6 20.7 186.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.89 ug/l

RT: 3.76 min Scan# 617

Delta R.T. -0.00 min

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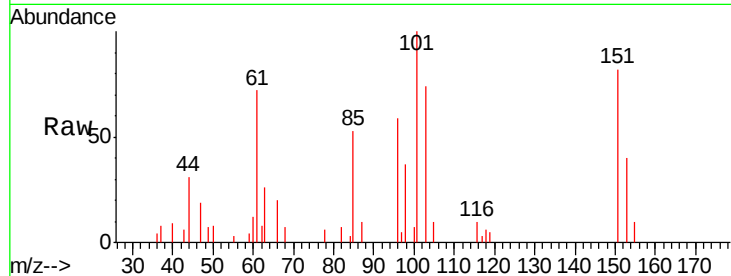
Tgt Ion: 101 Resp: 18162

Ion Ratio Lower Upper

101 100

85 48.3 0.0 46.0#

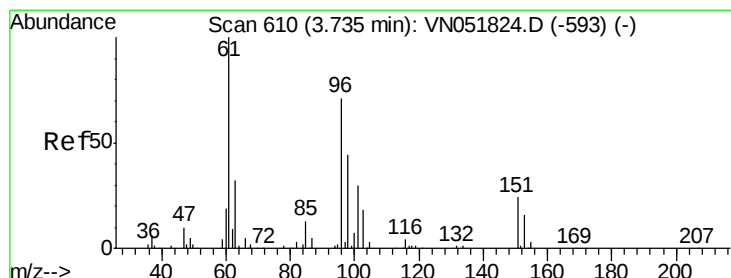
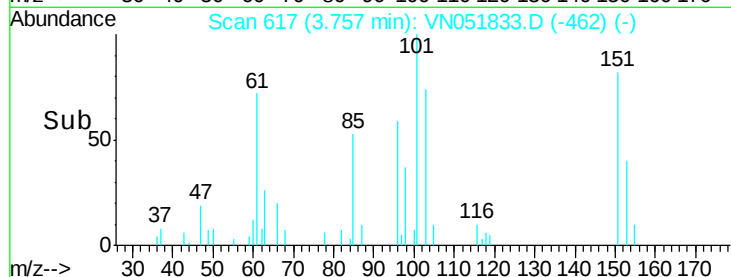
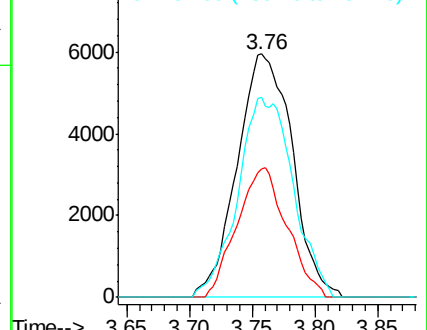
151 48.1 0.0 82.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.75 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

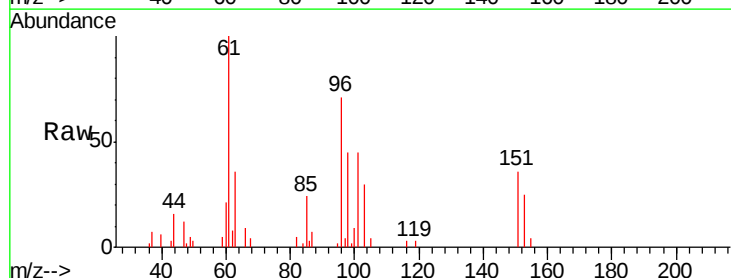
Tgt Ion: 96 Resp: 16017

Ion Ratio Lower Upper

96 100

61 138.0 133.0 199.6

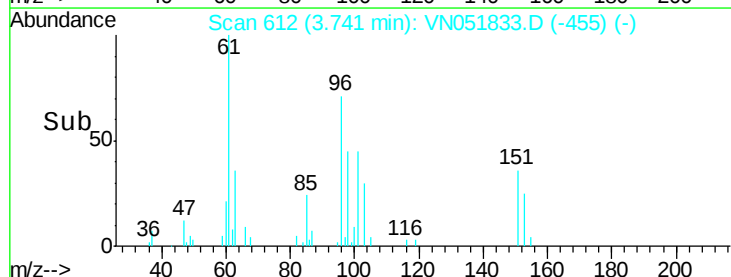
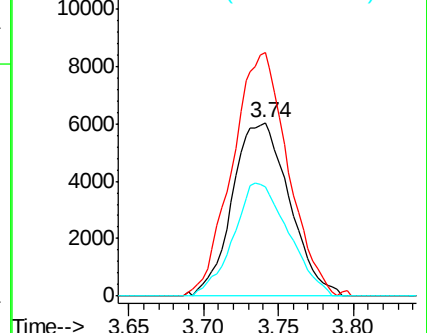
98 62.7 52.6 78.8

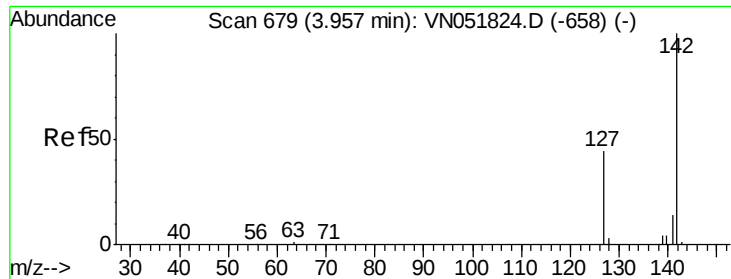


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

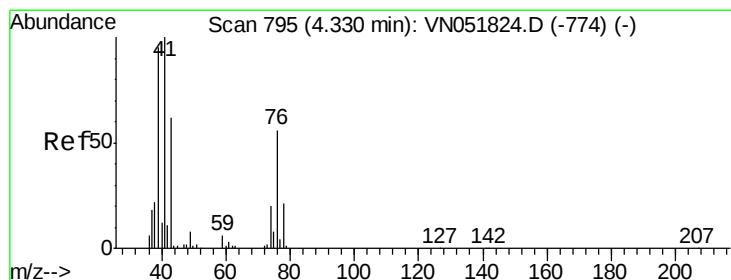
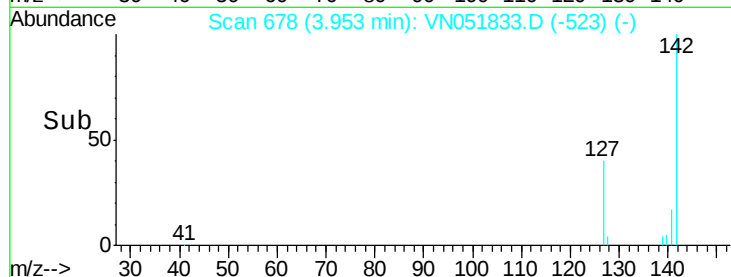
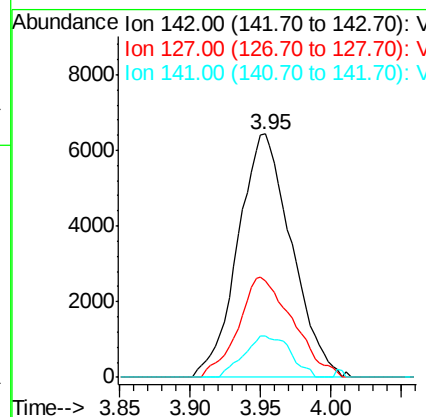
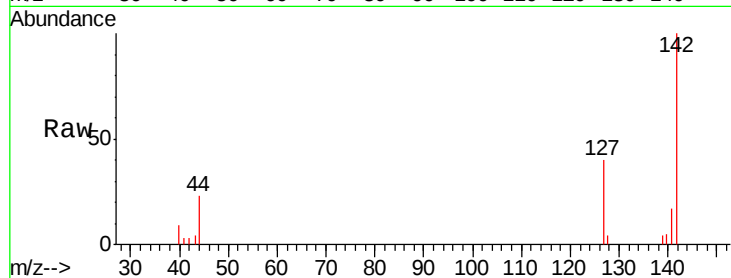




#11
Methyl Iodide
Concen: 2.02 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

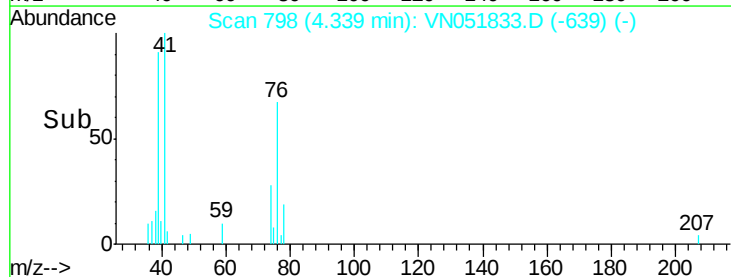
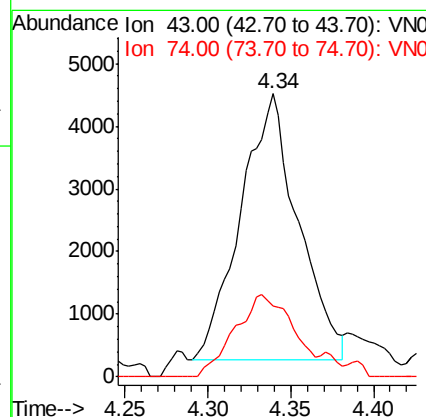
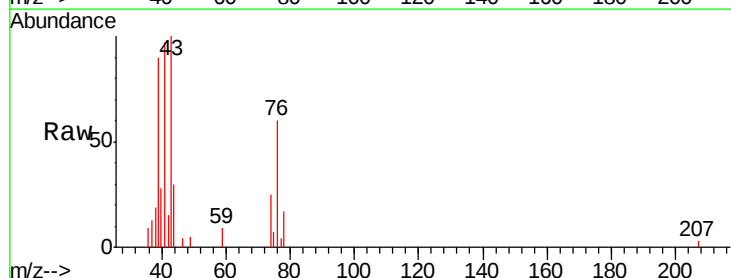
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

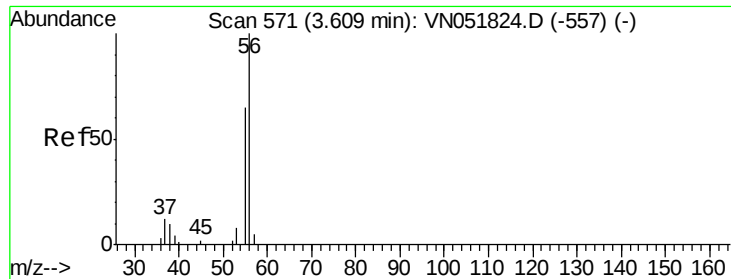
Tgt Ion: 142 Resp: 17041
Ion Ratio Lower Upper
142 100
127 43.5 19.7 59.0
141 15.8 6.3 18.9



#12
Methyl Acetate
Concen: 2.85 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion: 43 Resp: 10287
Ion Ratio Lower Upper
43 100
74 25.7 21.8 32.6

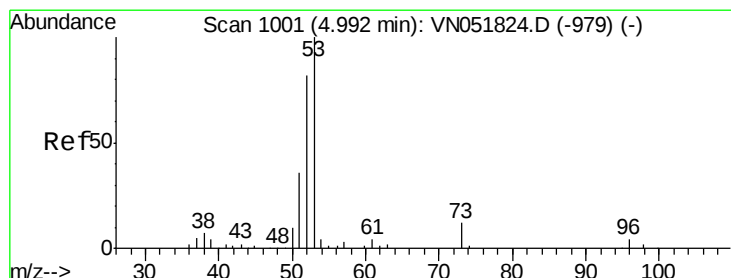
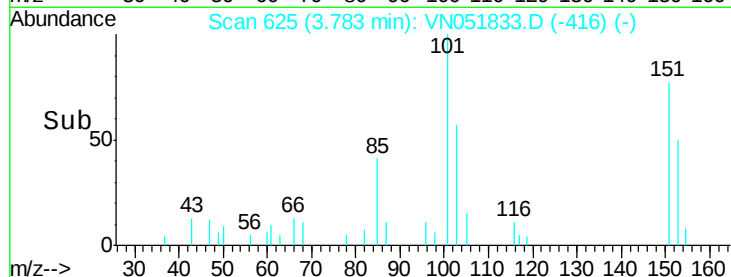
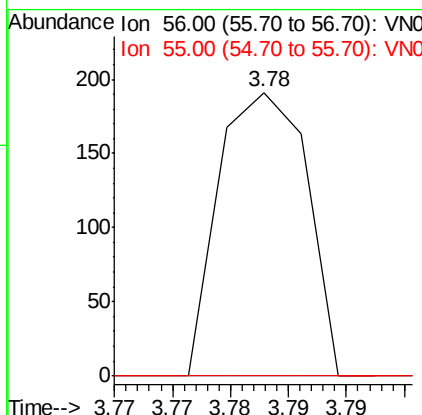
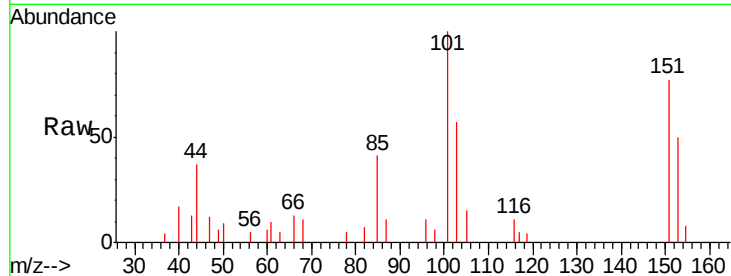




#13
 Acrolein
 Concen: 0.42 ug/l
 RT: 3.78 min Scan# 625
 Delta R.T. 0.17 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

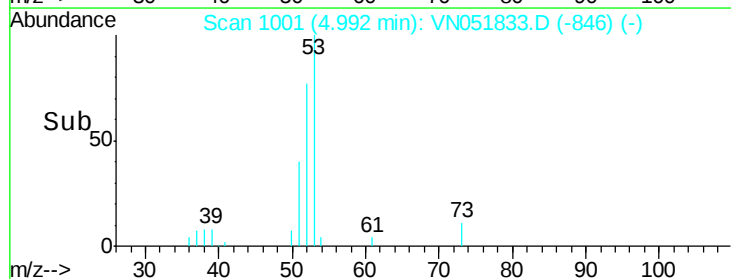
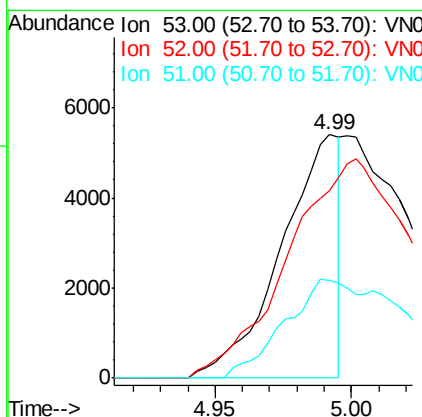
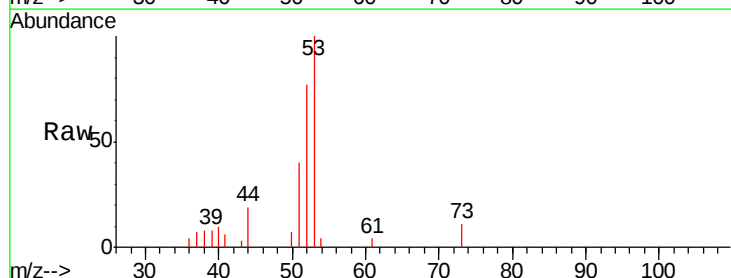
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

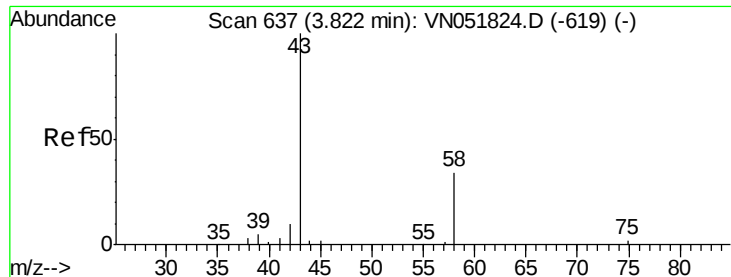
Tgt Ion: 56 Resp: 101
 Ion Ratio Lower Upper
 56 100
 55 72.3 64.0 96.0



#14
 Acrylonitrile
 Concen: 4.96 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 53 Resp: 8010
 Ion Ratio Lower Upper
 53 100
 52 215.5 18.3 54.8#
 51 47.5 19.7 59.1





#15

Acetone

Concen: 9.01 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

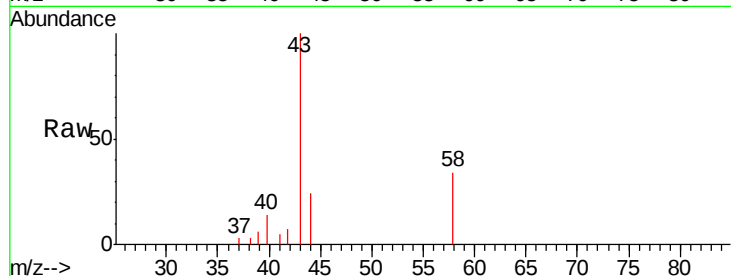
MDL-WATER-03-QT4-2018

Tgt Ion: 58 Resp: 3594

Ion Ratio Lower Upper

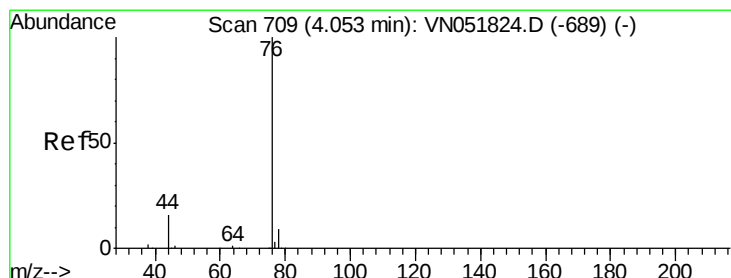
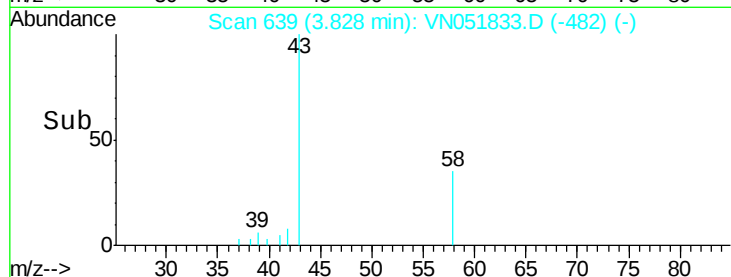
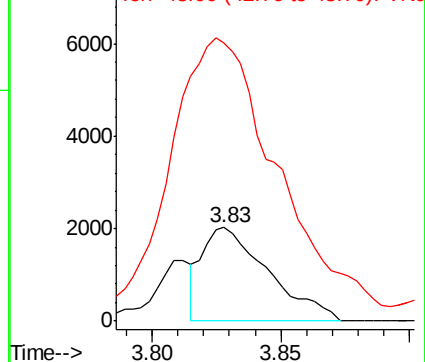
58 100

43 245.4 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 2.35 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN051833.D

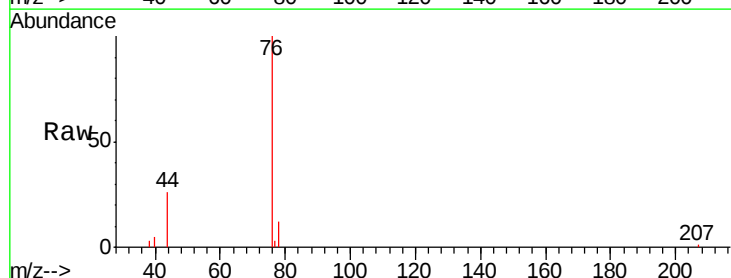
Acq: 12 Oct 2018 15:26

Tgt Ion: 76 Resp: 35926

Ion Ratio Lower Upper

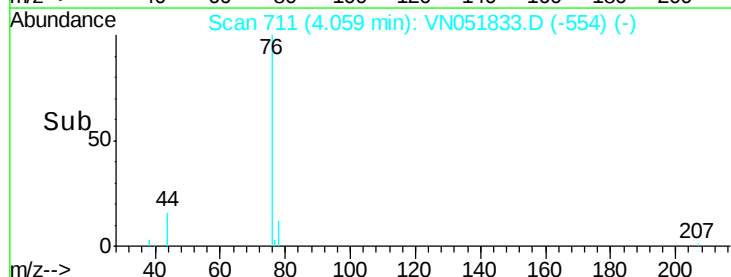
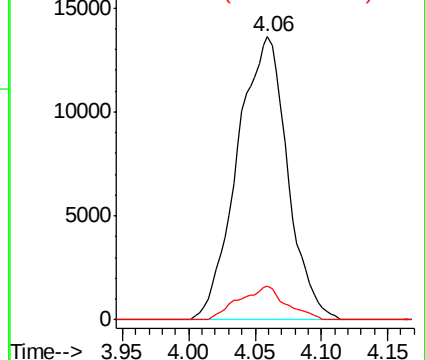
76 100

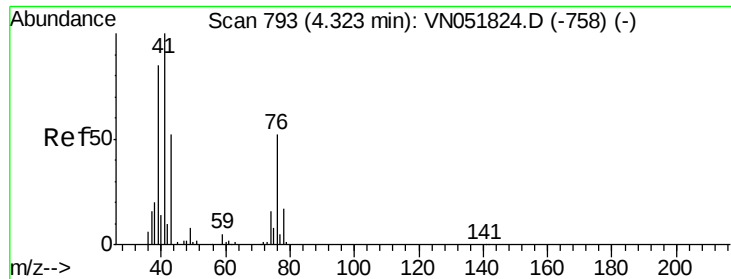
78 11.9 6.7 10.1#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

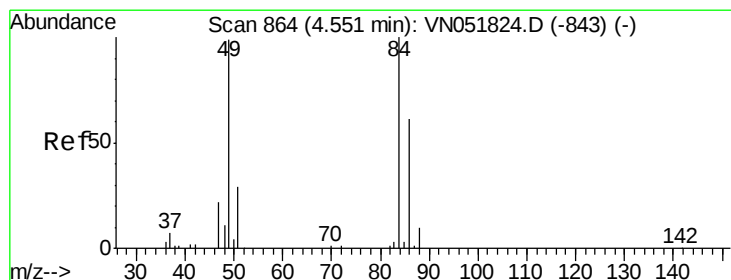
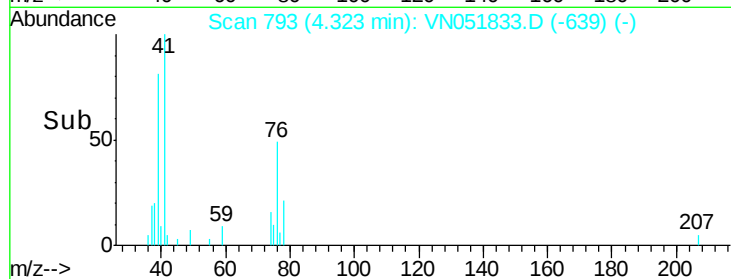
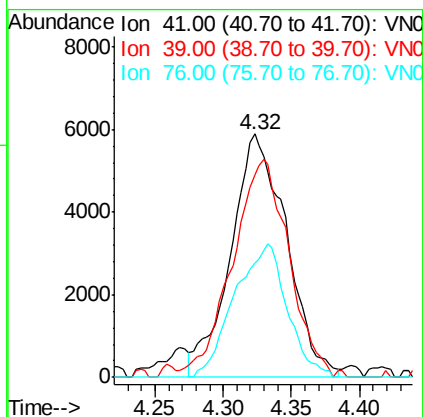
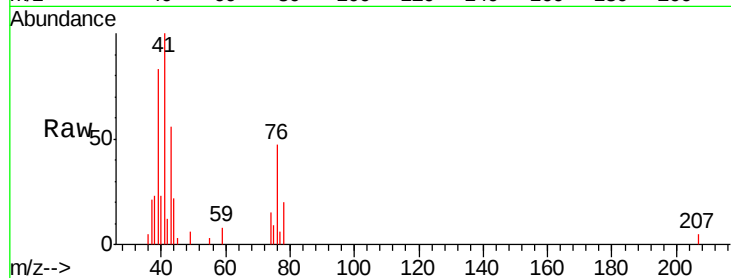




#17
 Allyl chloride
 Concen: 2.43 ug/l
 RT: 4.32 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

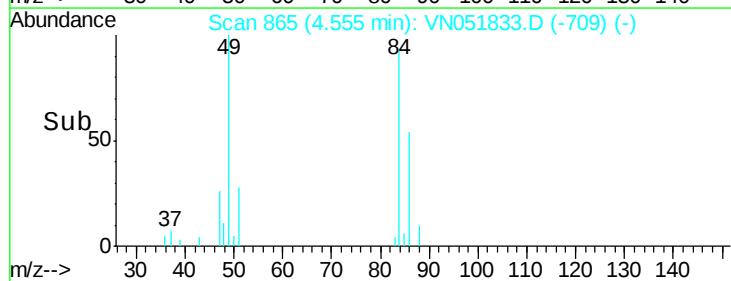
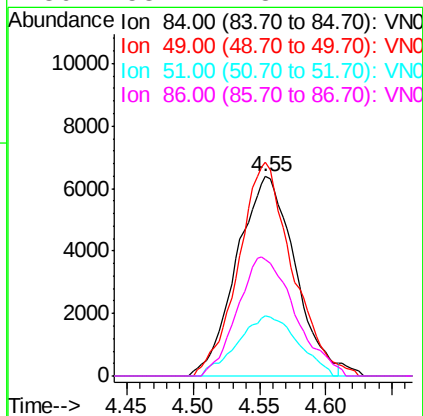
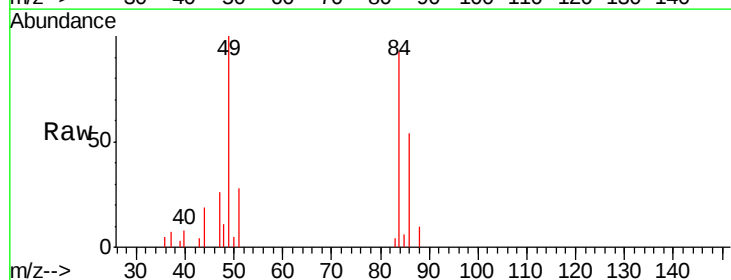
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

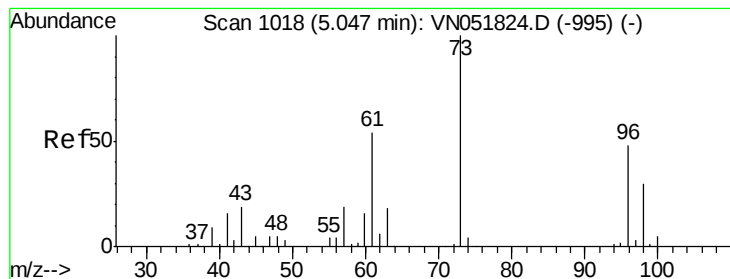
Tgt Ion: 41 Resp: 16745
 Ion Ratio Lower Upper
 41 100
 39 83.0 32.6 97.8
 76 48.4 20.2 60.5



#18
 Methylene Chloride
 Concen: 3.00 ug/l
 RT: 4.55 min Scan# 865
 Delta R.T. 0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 84 Resp: 19486
 Ion Ratio Lower Upper
 84 100
 49 107.3 91.6 137.4
 51 30.4 29.8 44.6
 86 58.4 48.2 72.4





#19

trans-1,2-Dichloroethene

Concen: 2.81 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

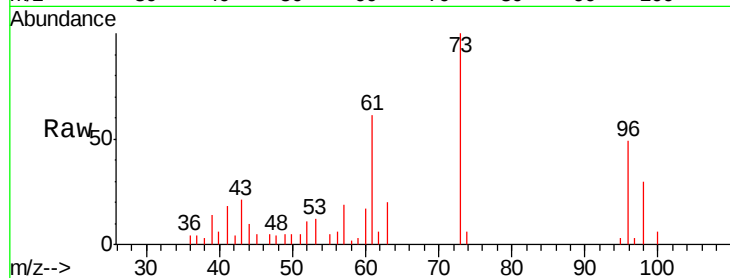
Tgt Ion: 96 Resp: 18636

Ion Ratio Lower Upper

96 100

61 120.0 112.3 168.5

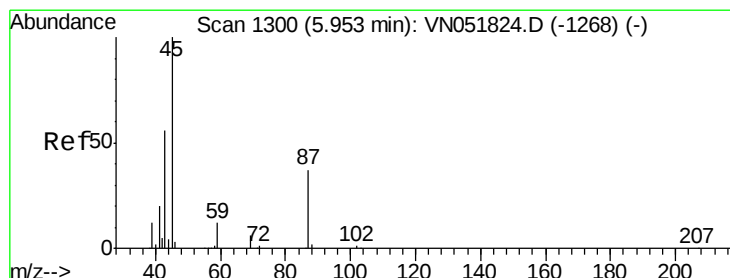
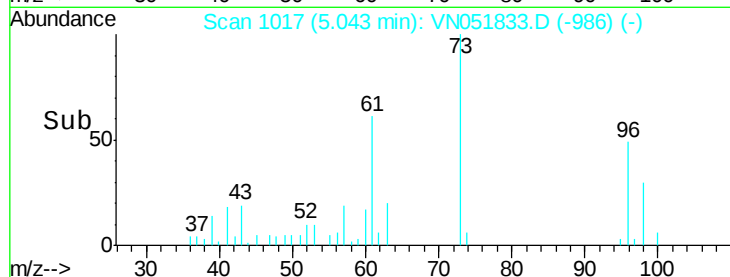
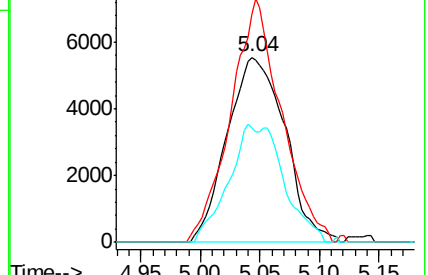
98 61.7 47.1 70.7



Abundance Ion 96.00 (95.70 to 96.70): VN051824.D (-995) (-)

Ion 61.00 (60.70 to 61.70): VN051824.D (-995) (-)

Ion 98.00 (97.70 to 98.70): VN051824.D (-995) (-)



#20

Diisopropyl ether

Concen: 2.70 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Tgt Ion: 45 Resp: 41473

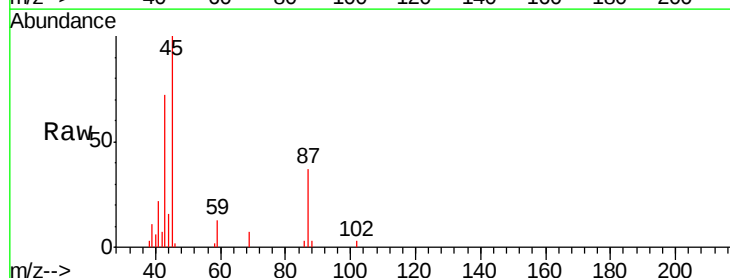
Ion Ratio Lower Upper

45 100

43 66.2 62.1 93.1

87 36.9 19.9 29.9#

59 13.2 9.8 14.6

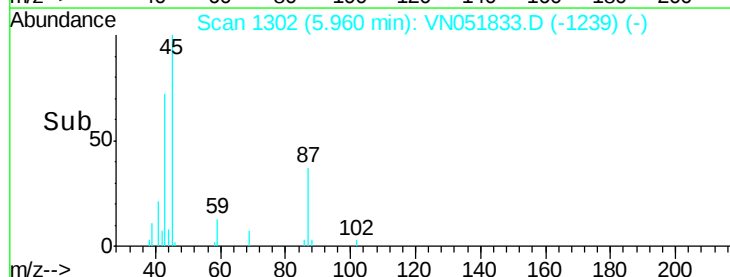
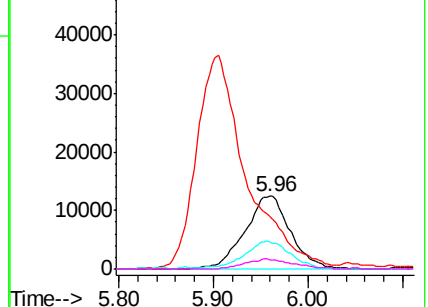


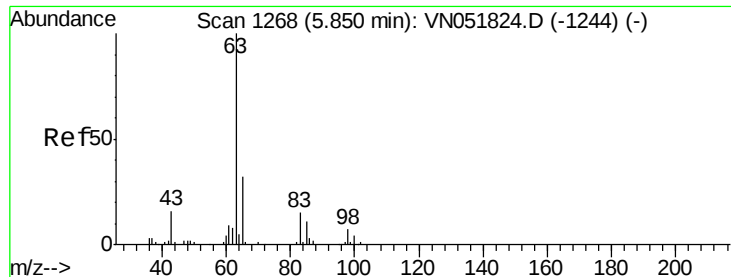
Abundance Ion 45.00 (44.70 to 45.70): VN051824.D (-1268) (-)

Ion 43.00 (42.70 to 43.70): VN051824.D (-1268) (-)

Ion 87.00 (86.70 to 87.70): VN051824.D (-1268) (-)

Ion 59.00 (58.70 to 59.70): VN051824.D (-1268) (-)

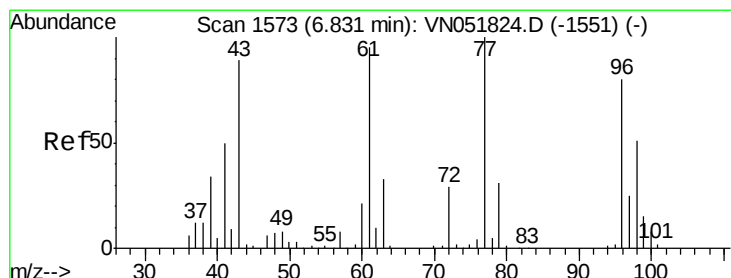
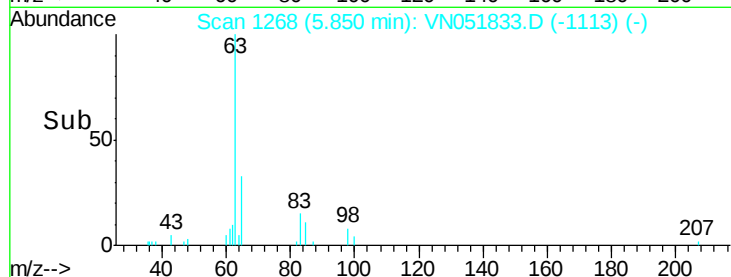
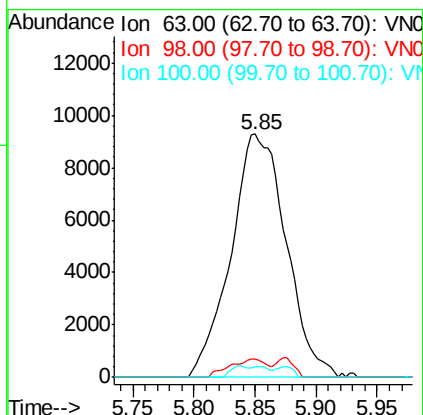
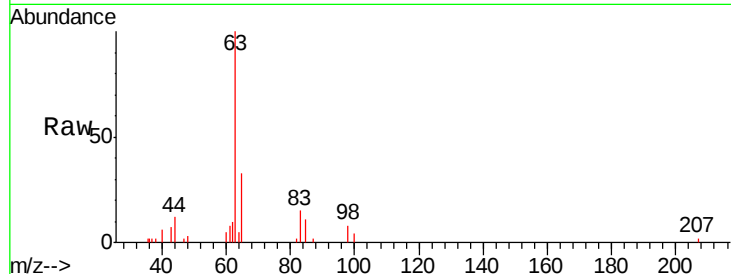




#21
 1,1-Dichloroethane
 Concen: 2.71 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

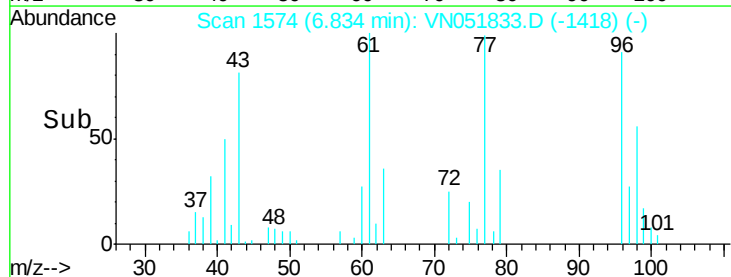
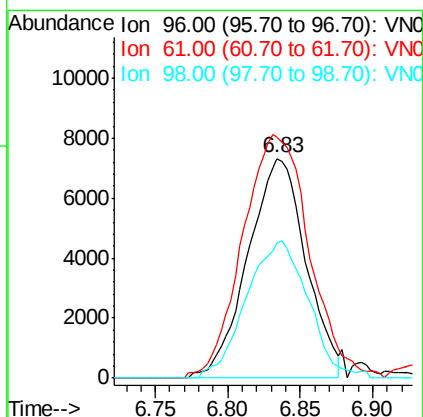
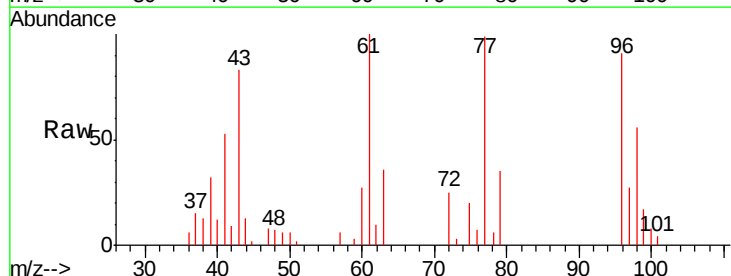
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

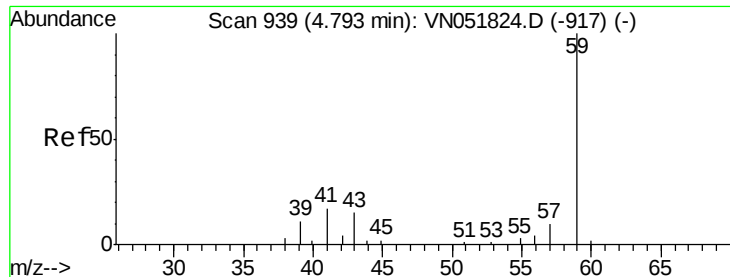
Tgt Ion: 63 Resp: 29122
 Ion Ratio Lower Upper
 63 100
 98 7.6 4.1 12.3
 100 4.4 1.6 4.7



#22
 cis-1,2-Dichloroethene
 Concen: 2.60 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 96 Resp: 20306
 Ion Ratio Lower Upper
 96 100
 61 127.2 124.5 186.7
 98 66.5 51.9 77.9

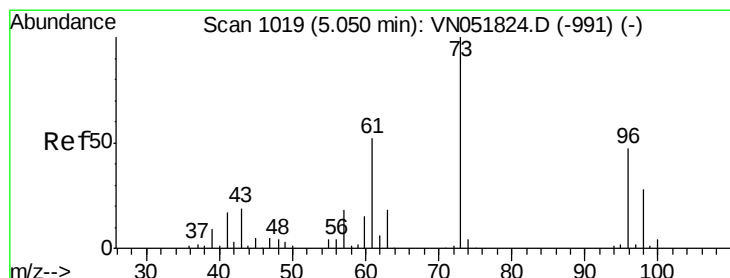
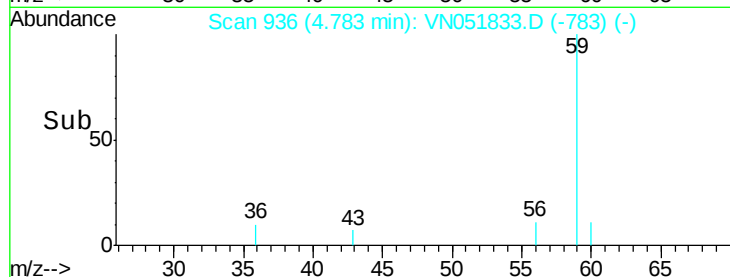
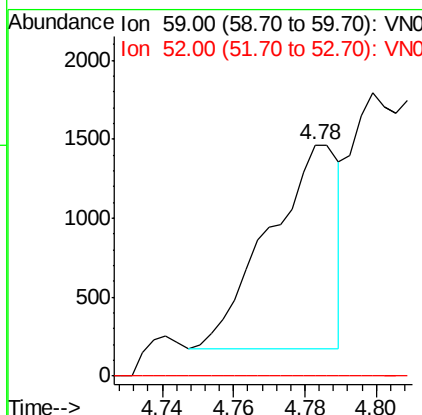
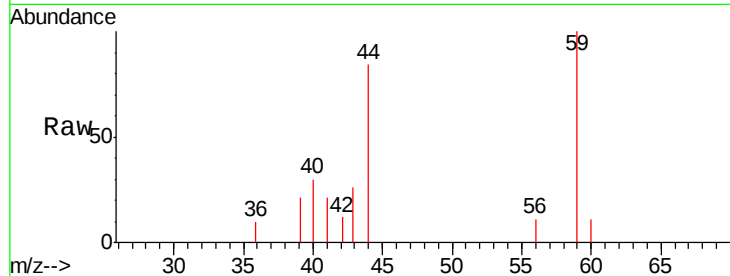




#23
 tert-Butyl Alcohol
 Concen: 4.14 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

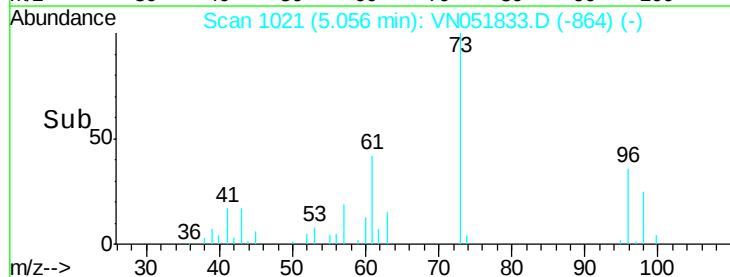
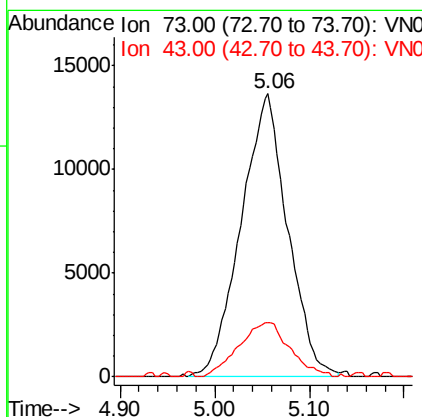
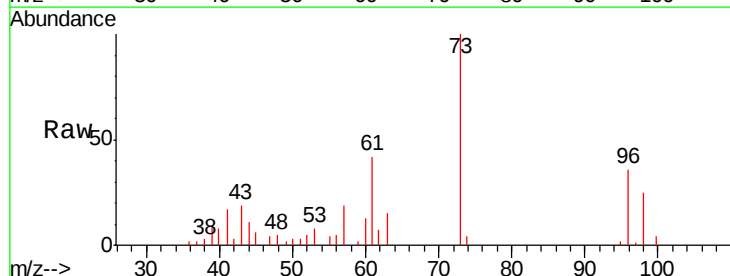
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

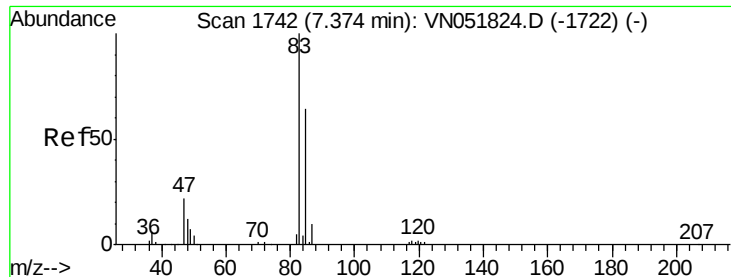
Tgt Ion: 59 Resp: 1759
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#24
 Methyl tert-Butyl Ether
 Concen: 2.79 ug/l
 RT: 5.06 min Scan# 1021
 Delta R.T. 0.01 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 73 Resp: 46786
 Ion Ratio Lower Upper
 73 100
 43 20.4 5.4 8.0#





#25

Chloroform

Concen: 2.59 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

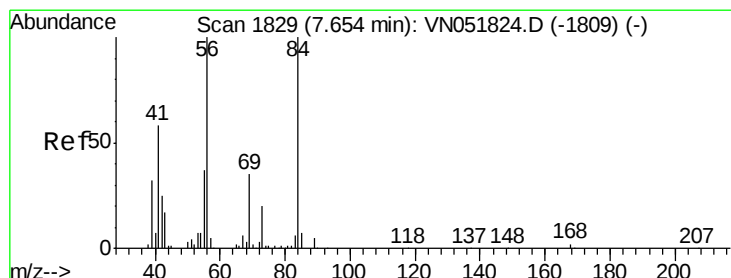
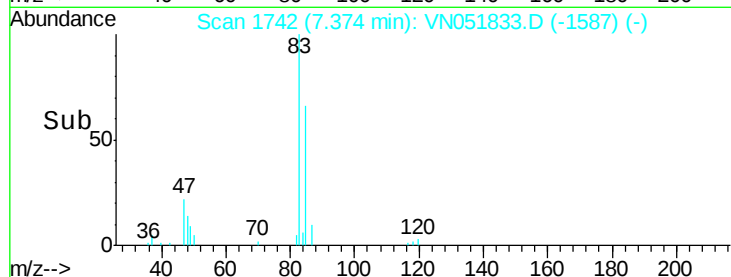
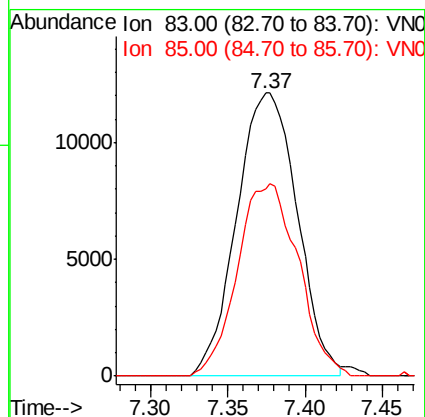
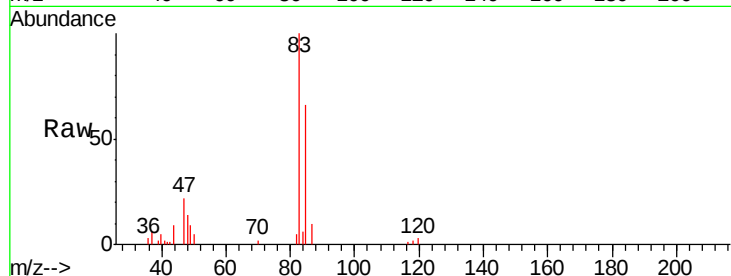
MDL-WATER-03-QT4-2018

Tgt Ion: 83 Resp: 33022

Ion Ratio Lower Upper

83 100

85 66.0 54.6 82.0



#26

Cyclohexane

Concen: 2.65 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

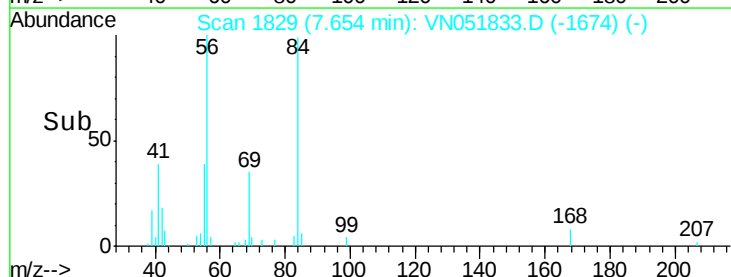
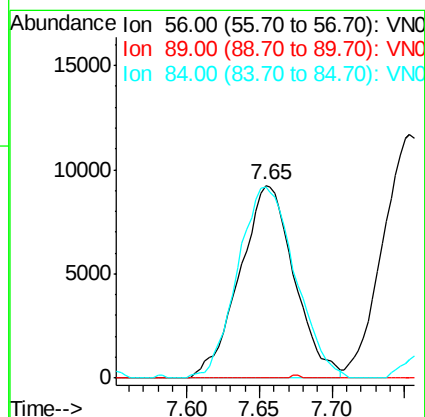
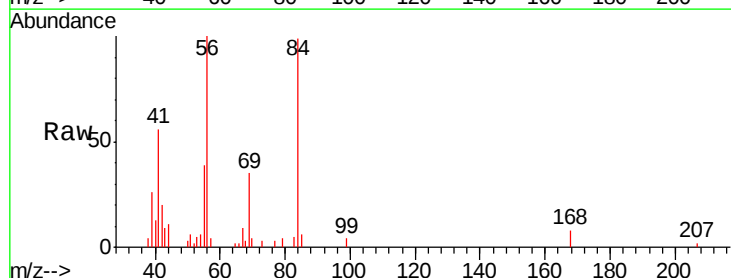
Tgt Ion: 56 Resp: 24150

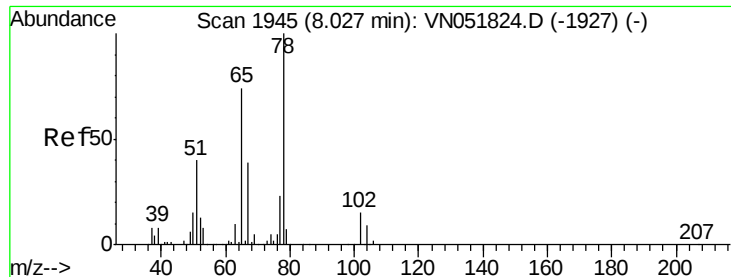
Ion Ratio Lower Upper

56 100

89 0.2 1.5 2.3#

84 104.7 64.2 96.4#

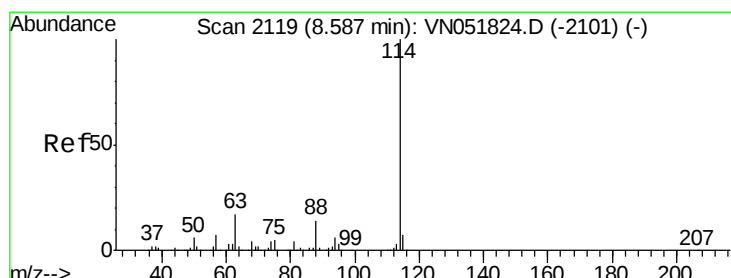
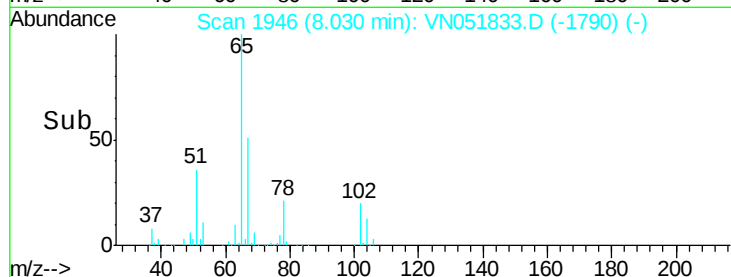
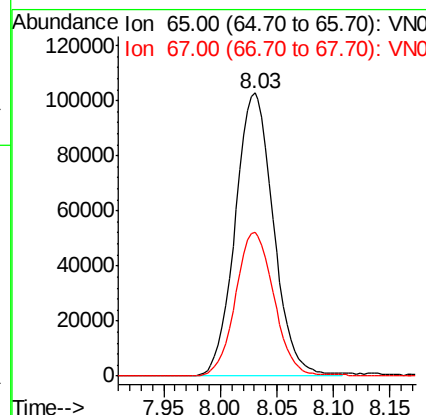
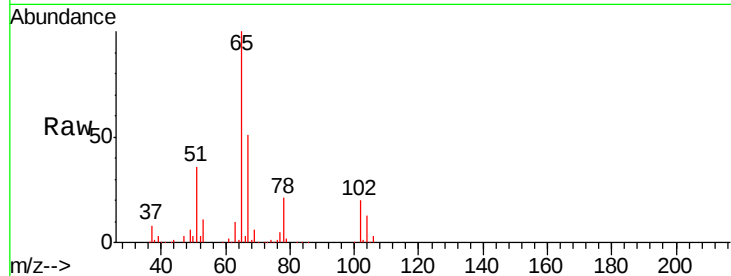




#27
 1,2-Dichloroethane-d4
 Concen: 2.65 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

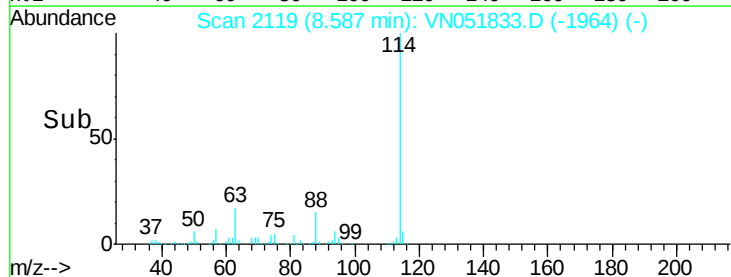
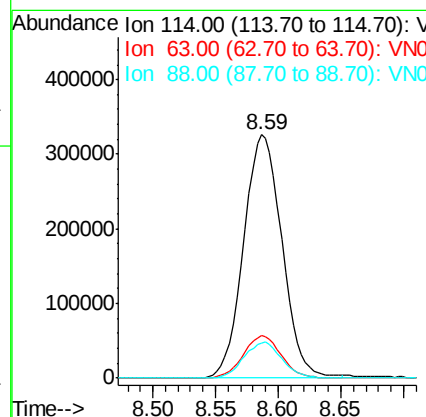
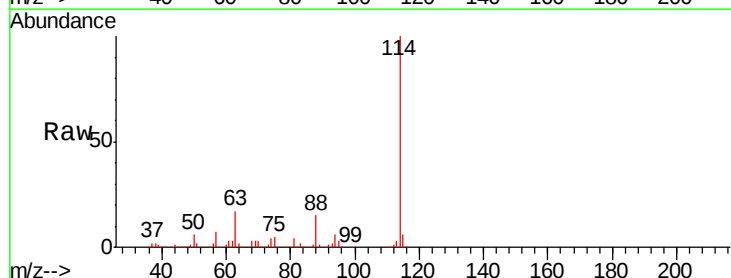
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

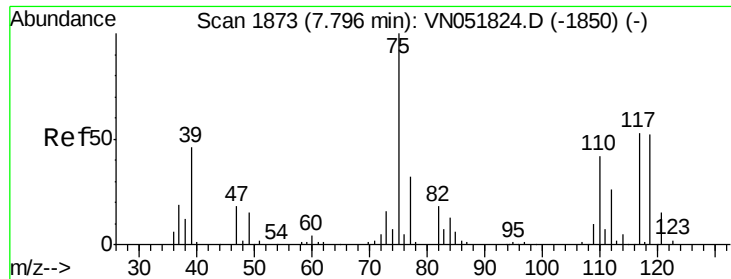
Tgt Ion: 65 Resp: 242078
 Ion Ratio Lower Upper
 65 100
 67 51.2 41.8 62.8



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 114 Resp: 695401
 Ion Ratio Lower Upper
 114 100
 63 17.2 16.2 24.2
 88 14.6 12.2 18.4

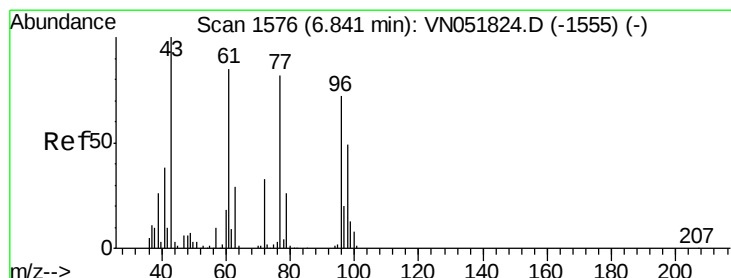
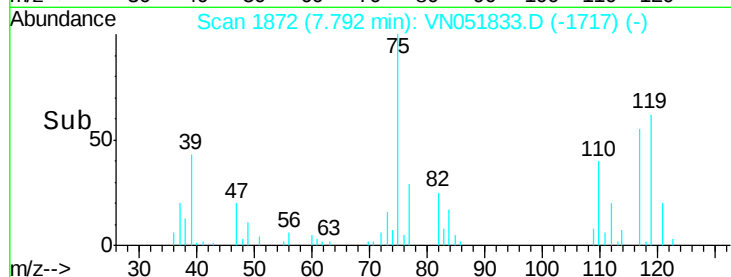
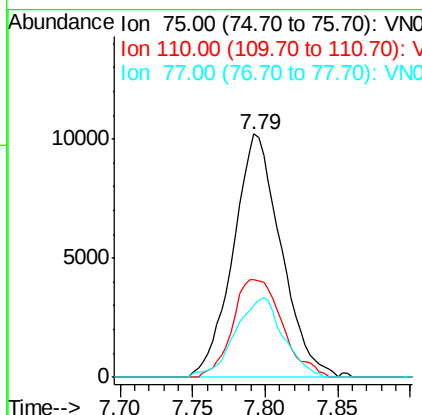
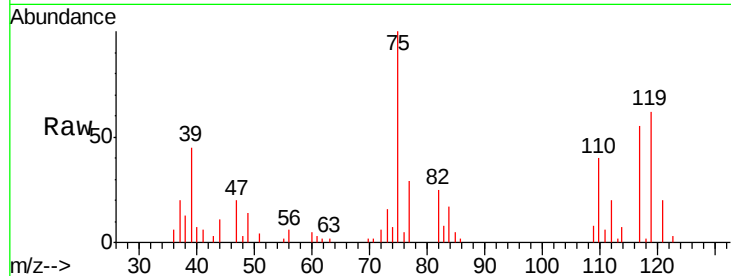




#29
 1,1-Dichloropropene
 Concen: 2.62 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

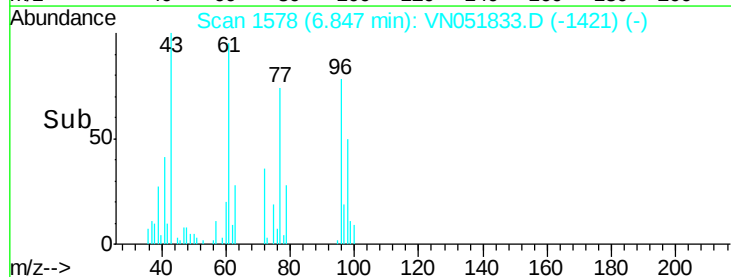
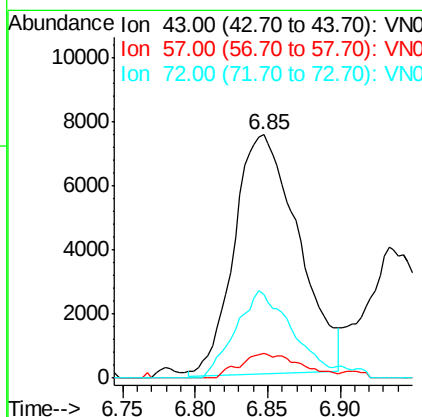
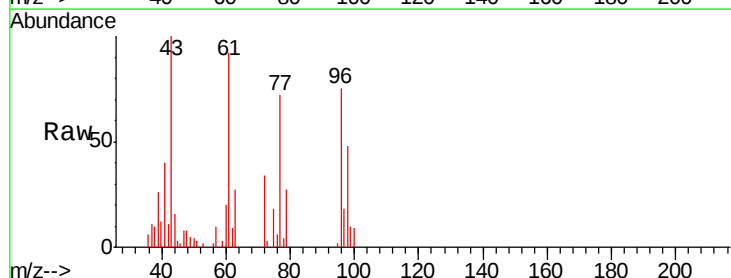
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

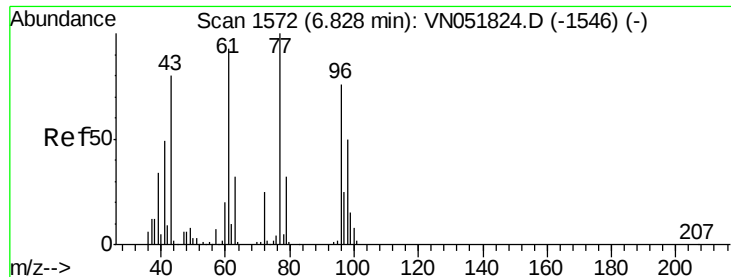
Tgt Ion: 75 Resp: 23475
 Ion Ratio Lower Upper
 75 100
 110 41.8 0.0 70.8
 77 32.6 0.0 61.6



#30
 2-Butanone
 Concen: 12.23 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 43 Resp: 22904
 Ion Ratio Lower Upper
 43 100
 57 2.4 4.5 6.7#
 72 32.4 21.5 32.3#





#31

2,2-Dichloropropane

Concen: 2.44 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

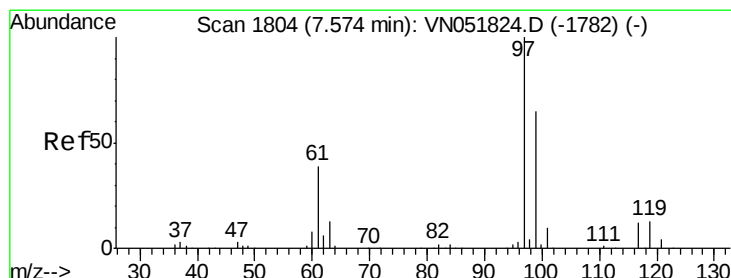
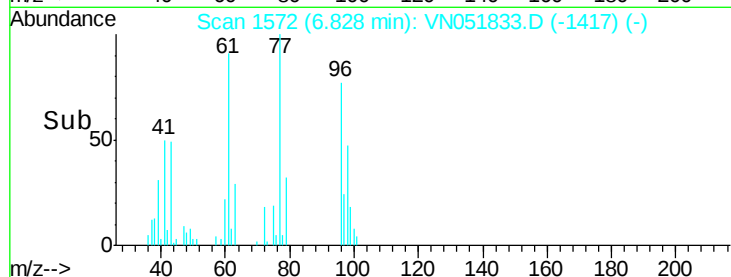
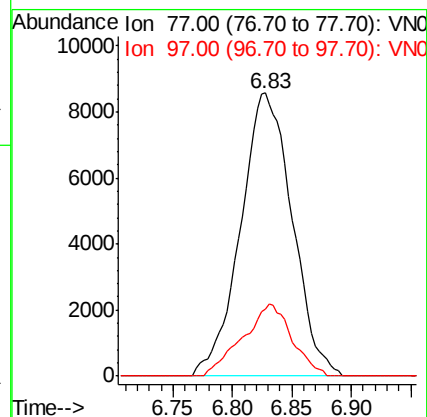
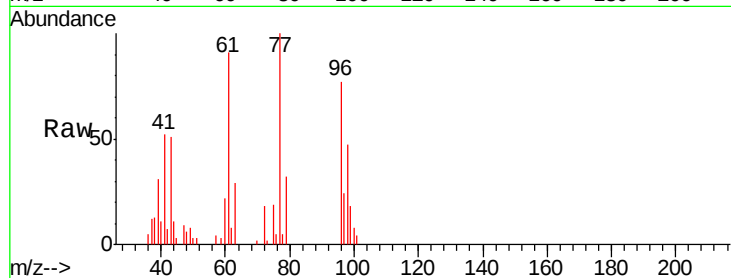
MDL-WATER-03-QT4-2018

Tgt Ion: 77 Resp: 25754

Ion Ratio Lower Upper

77 100

97 24.3 12.0 18.0#



#32

1,1,1-Trichloroethane

Concen: 2.63 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

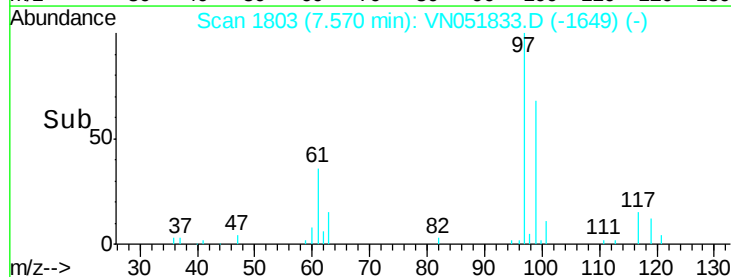
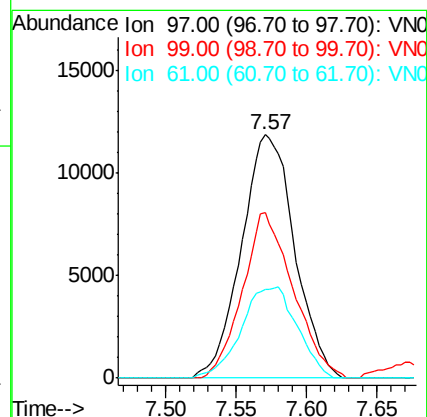
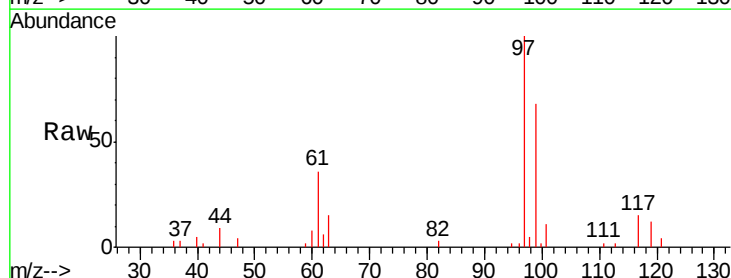
Tgt Ion: 97 Resp: 31257

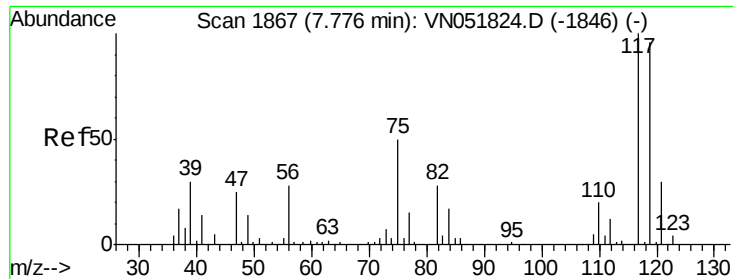
Ion Ratio Lower Upper

97 100

99 64.7 51.6 77.4

61 39.0 37.4 56.0

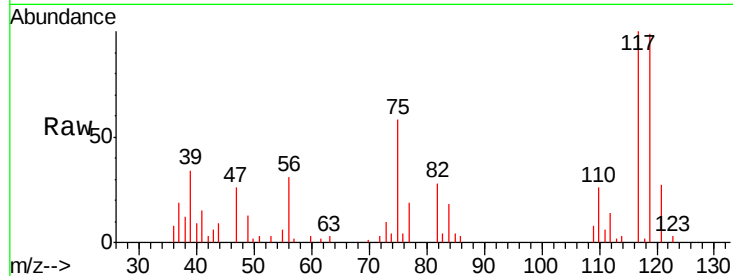




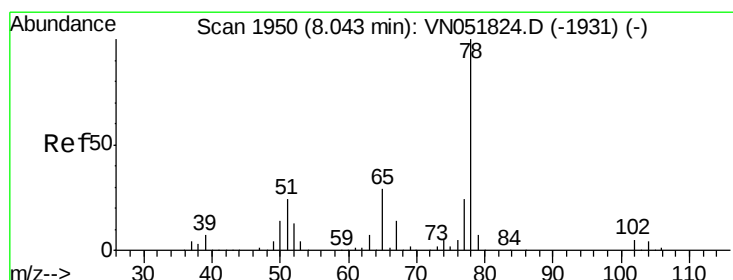
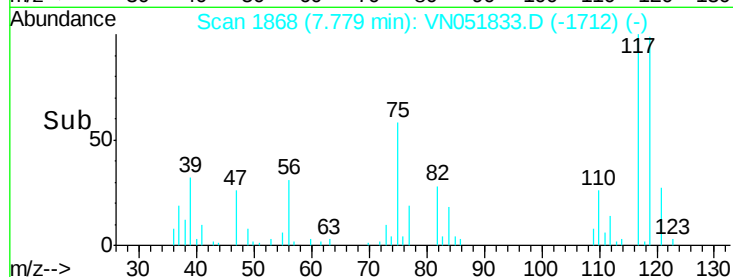
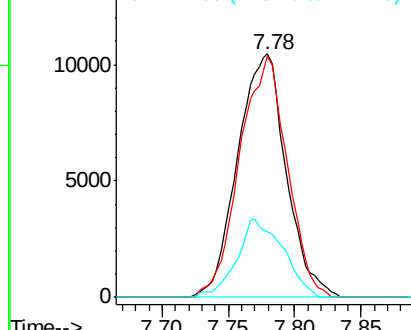
#33
Carbon Tetrachloride
Concen: 2.48 ug/l
RT: 7.78 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

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

Tgt Ion: 117 Resp: 26658
Ion Ratio Lower Upper
117 100
119 98.8 85.1 127.7
121 27.1 24.2 36.2

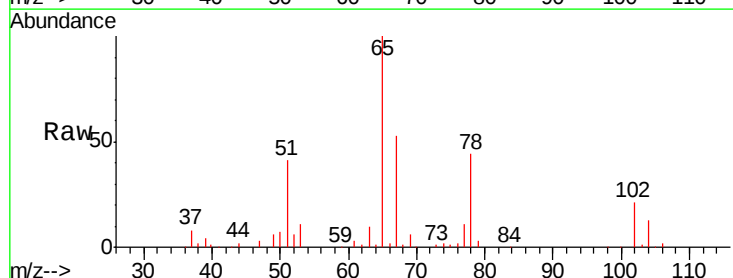


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

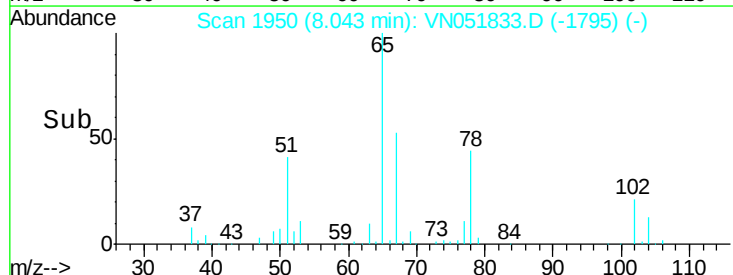
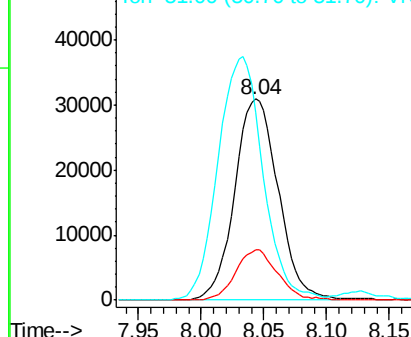


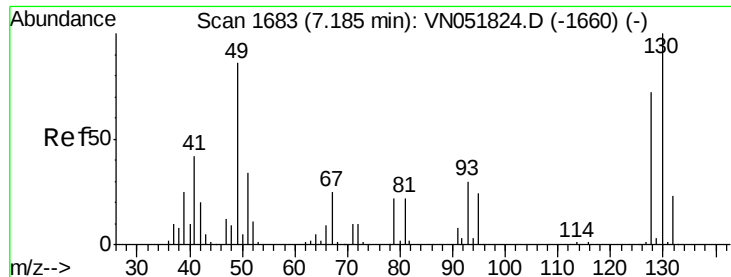
#34
Benzene
Concen: 2.81 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion: 78 Resp: 74634
Ion Ratio Lower Upper
78 100
77 25.1 18.8 28.2
51 90.5 46.2 69.4#



Abundance Ion 78.10 (77.80 to 78.80): V
Ion 77.00 (76.70 to 77.70): V
Ion 51.00 (50.70 to 51.70): V

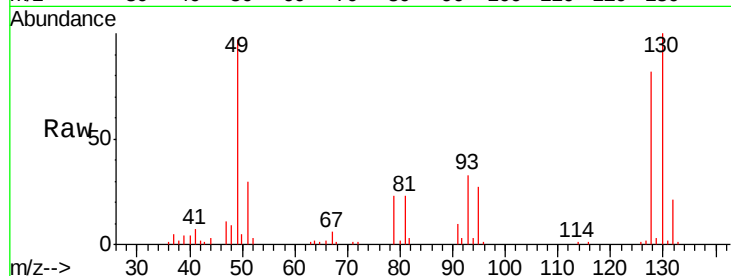




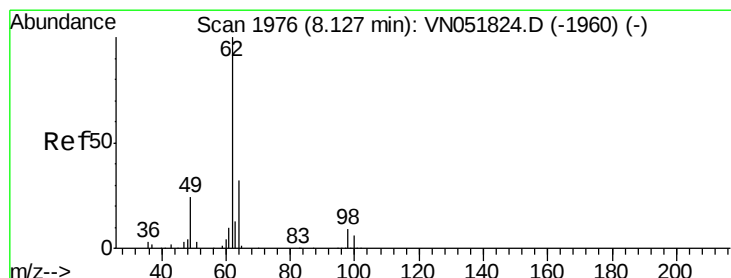
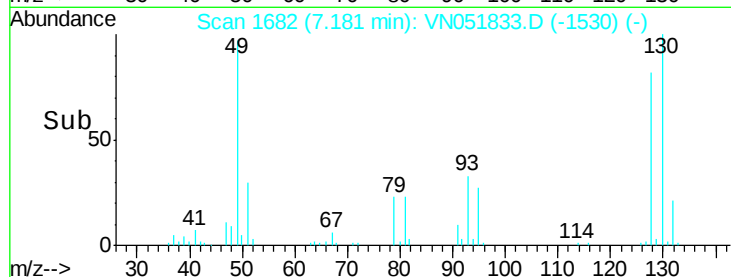
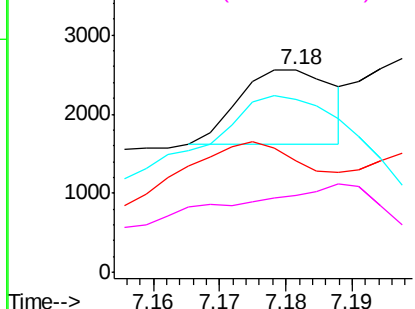
#35
Methacrylonitrile
Concen: 0.38 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. -0.01 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

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

Tgt Ion:	41	Resp:	939
Ion	Ratio	Lower	Upper
41	100		
39	16.0	22.6	67.7#
67	68.5	28.9	86.8
52	15.0	11.3	33.9

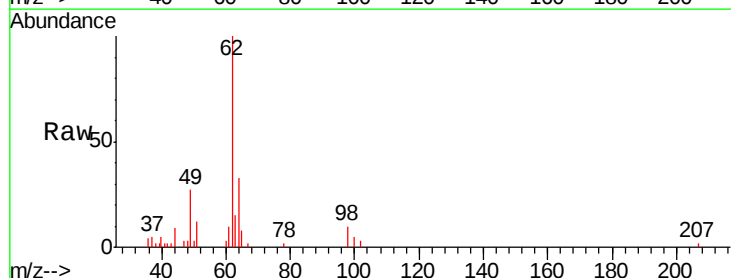


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

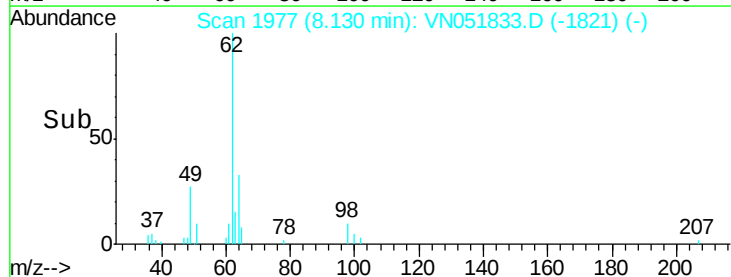
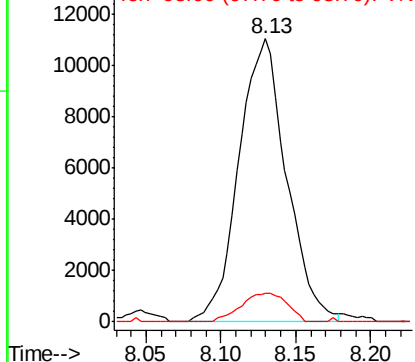


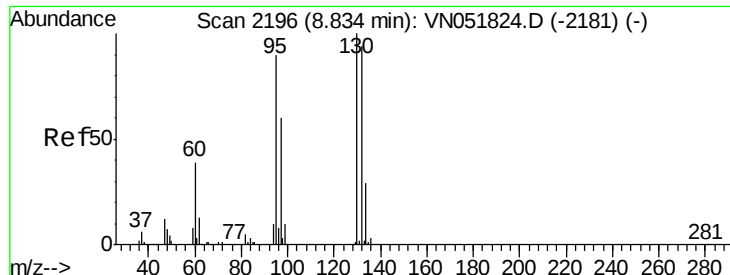
#36
1,2-Dichloroethane
Concen: 2.88 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion:	62	Resp:	24445
Ion	Ratio	Lower	Upper
62	100		
98	9.9	6.9	10.3



Abundance Ion 62.00 (61.70 to 62.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

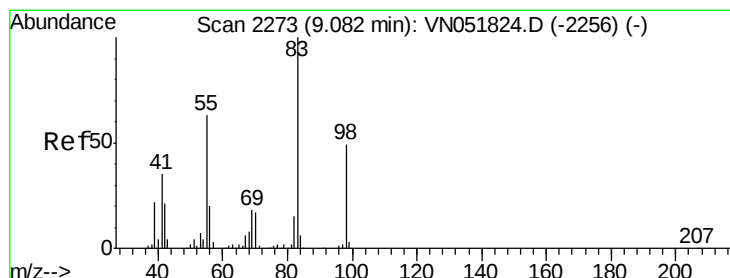
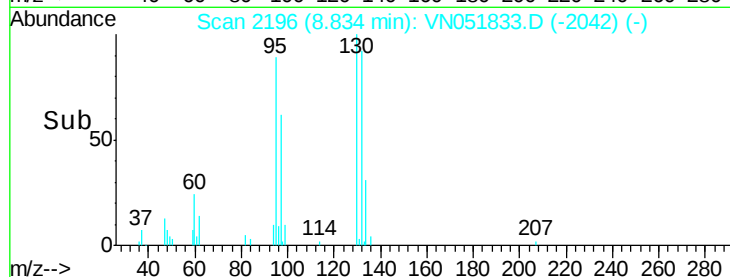
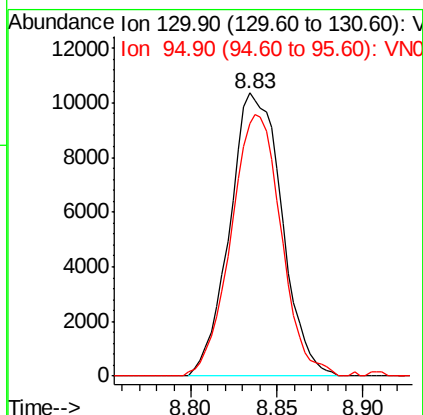
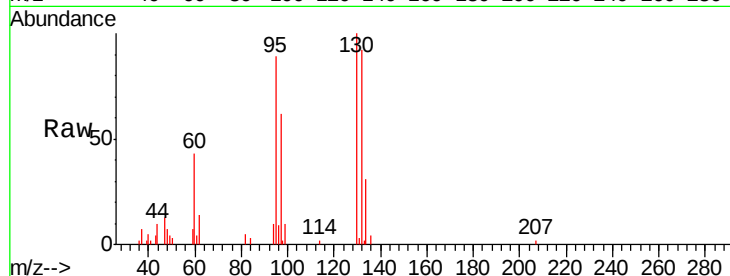




#37
 Trichloroethene
 Concen: 2.65 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

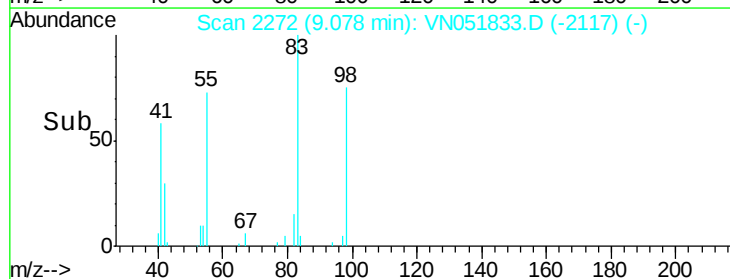
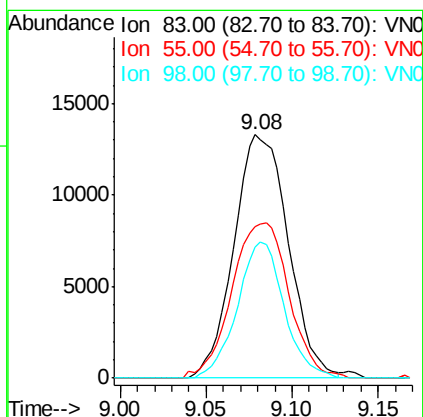
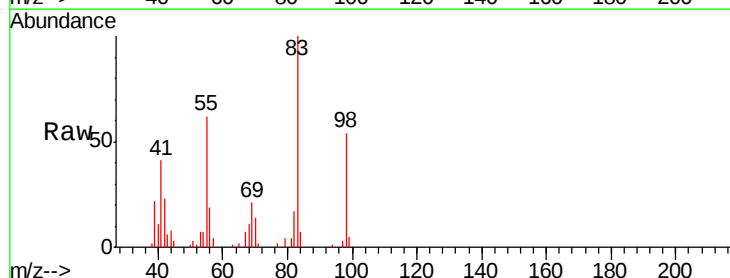
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

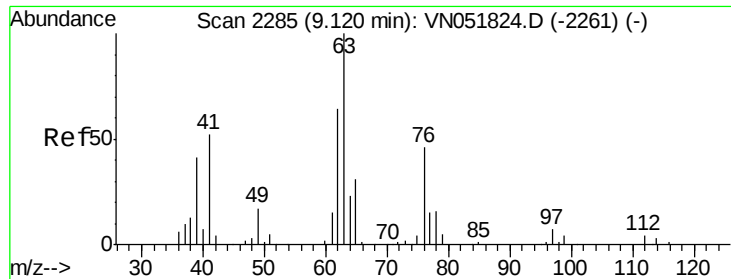
Tgt Ion: 130 Resp: 21829
 Ion Ratio Lower Upper
 130 100
 95 89.3 76.4 114.6



#38
 Methylcyclohexane
 Concen: 2.54 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 83 Resp: 29231
 Ion Ratio Lower Upper
 83 100
 55 67.0 43.0 129.2
 98 48.1 21.3 63.7

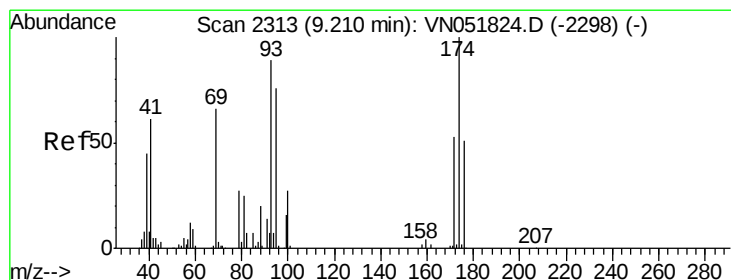
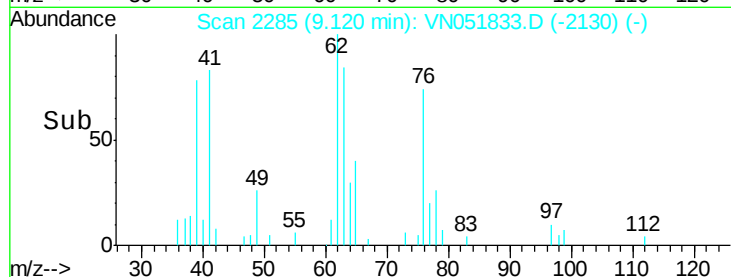
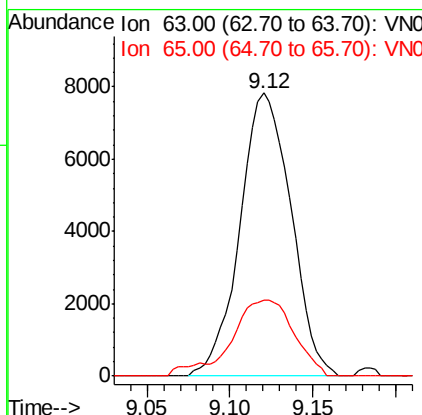
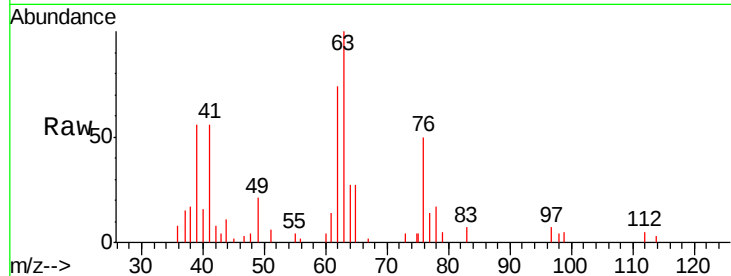




#39
 1,2-Dichloropropane
 Concen: 2.69 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

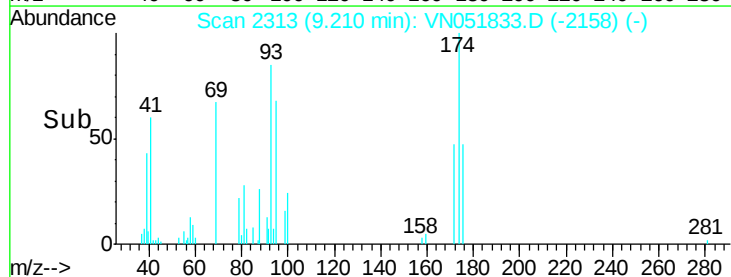
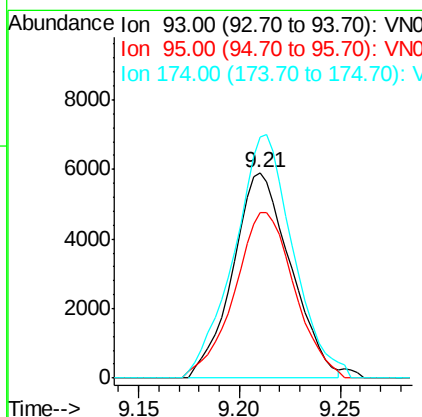
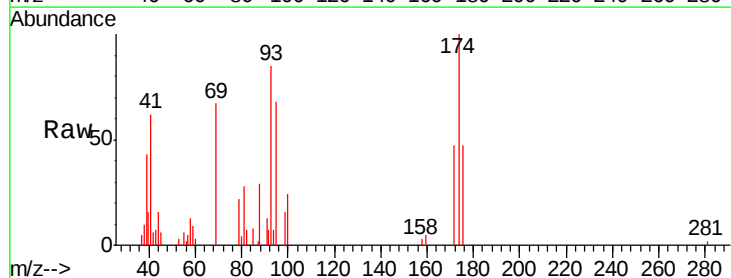
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

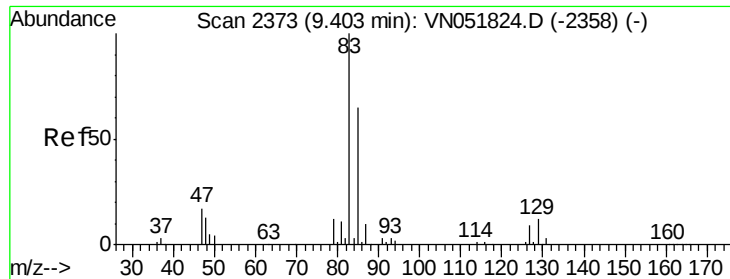
Tgt Ion: 63 Resp: 16793
 Ion Ratio Lower Upper
 63 100
 65 26.8 23.2 34.8



#40
 Dibromomethane
 Concen: 2.56 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 93 Resp: 11853
 Ion Ratio Lower Upper
 93 100
 95 83.4 0.0 162.0
 174 120.5 0.0 214.0

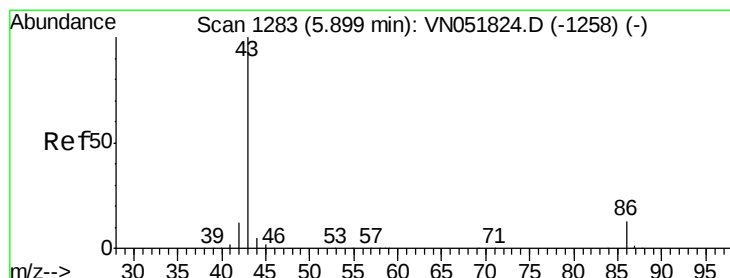
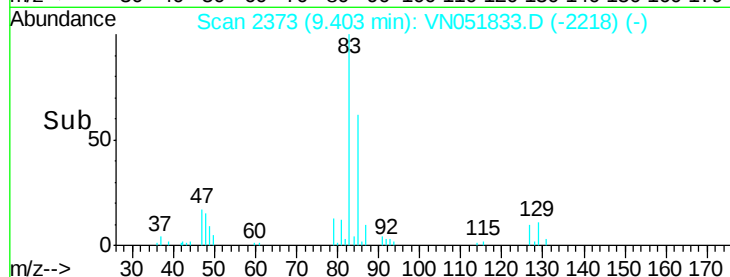
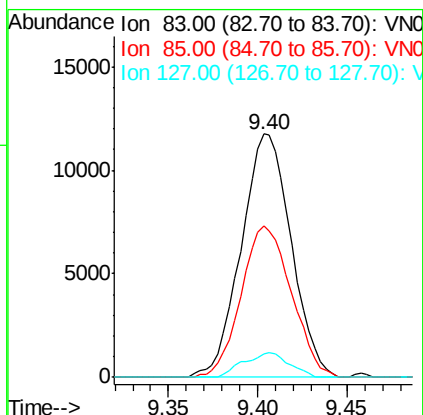
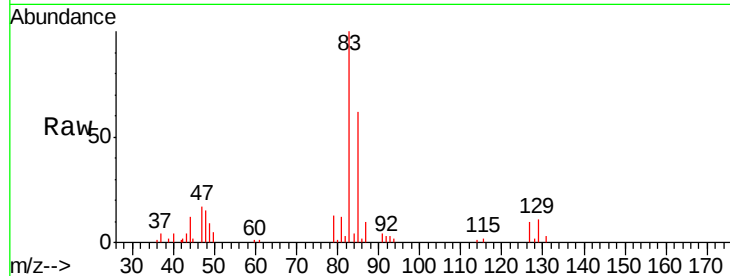




#41
 Bromodichloromethane
 Concen: 2.40 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

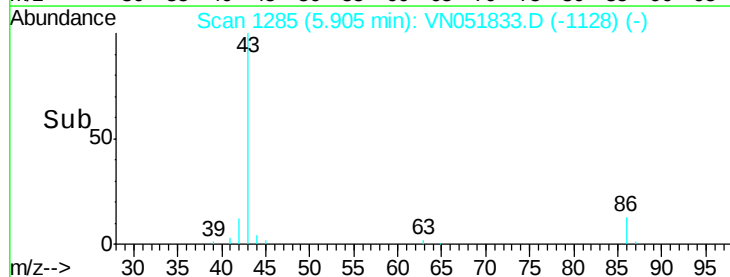
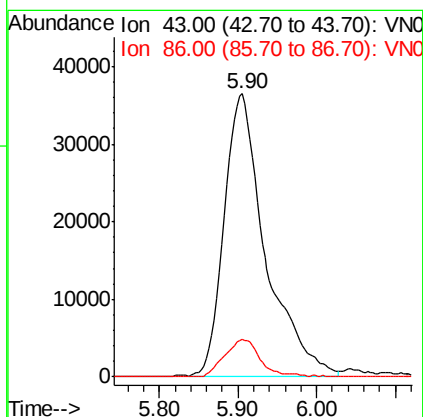
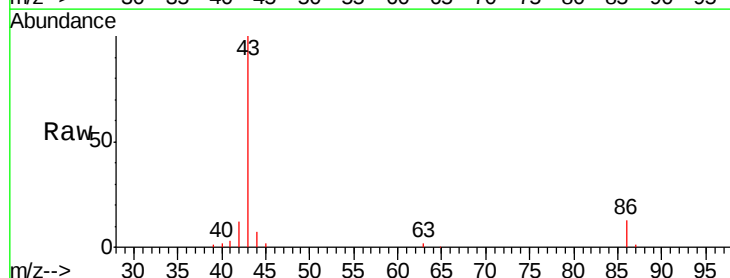
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

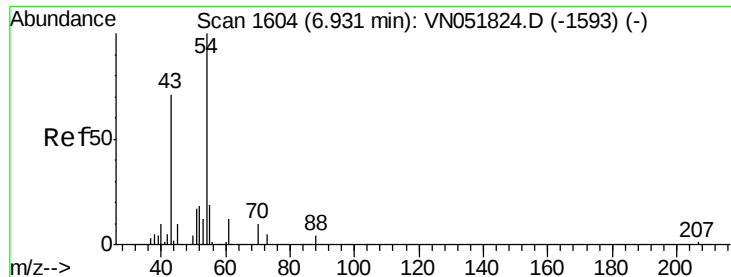
Tgt Ion: 83 Resp: 22946
 Ion Ratio Lower Upper
 83 100
 85 62.0 55.7 83.5
 127 9.7 8.2 12.4



#42
 Vinyl Acetate
 Concen: 12.69 ug/l
 RT: 5.90 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 43 Resp: 133806
 Ion Ratio Lower Upper
 43 100
 86 11.0 6.5 9.7#





#43

Ethyl Acetate

Concen: 2.19 ug/l

RT: 6.93 min Scan# 1605

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

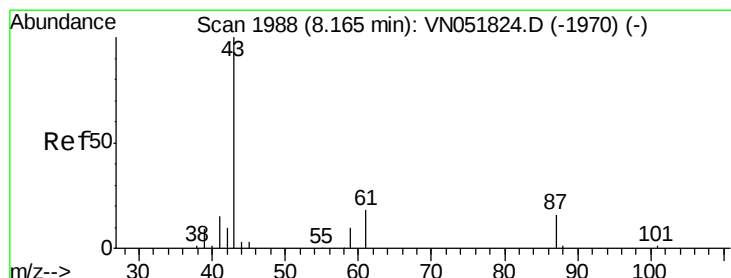
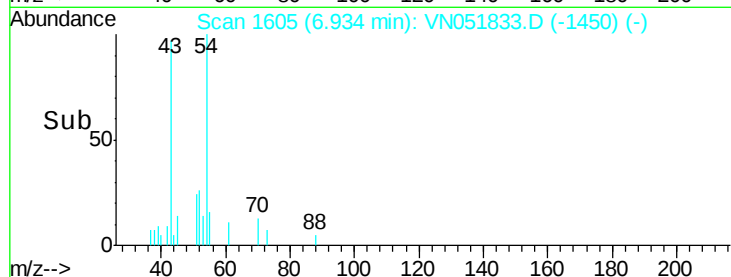
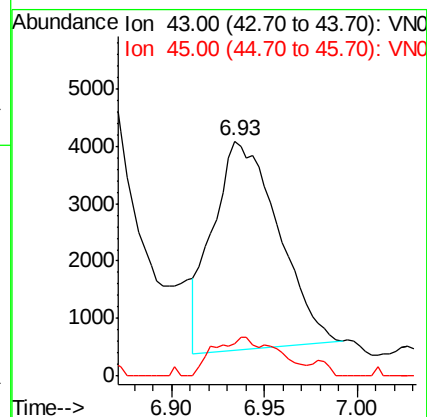
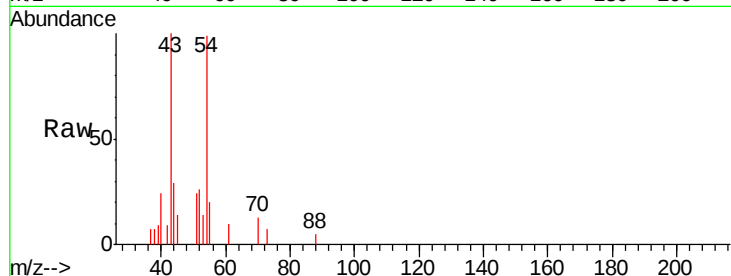
MDL-WATER-03-QT4-2018

Tgt Ion: 43 Resp: 8891

Ion Ratio Lower Upper

43 100

45 2.1 11.0 16.6#



#44

Isopropyl Acetate

Concen: 2.55 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051833.D

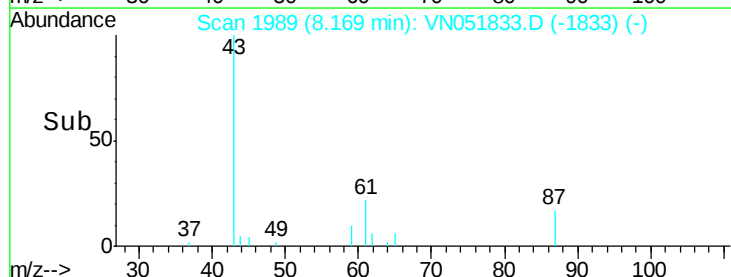
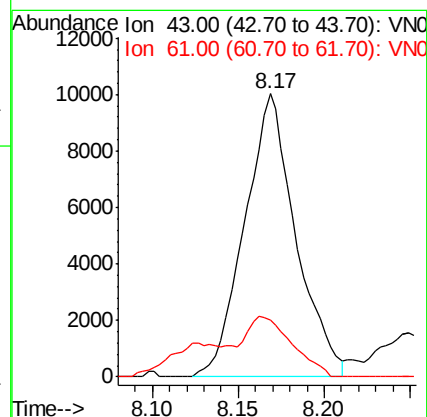
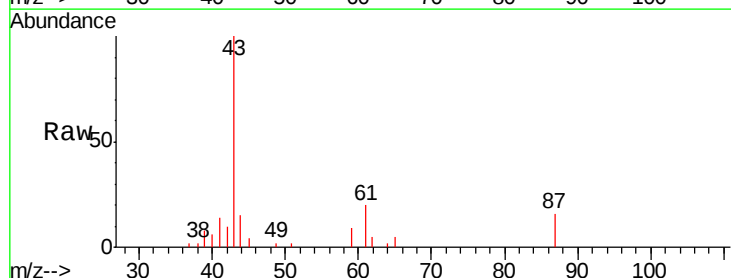
Acq: 12 Oct 2018 15:26

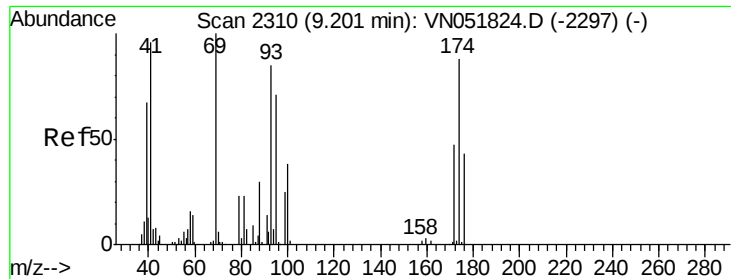
Tgt Ion: 43 Resp: 20733

Ion Ratio Lower Upper

43 100

61 19.1 15.9 23.9

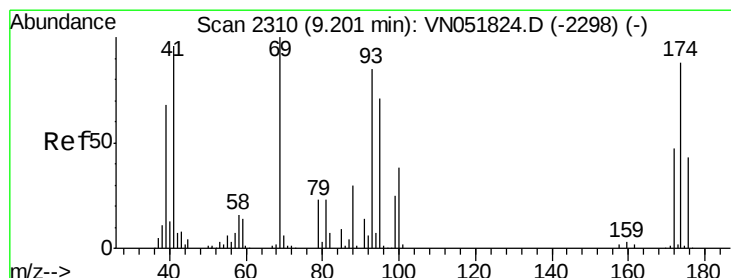
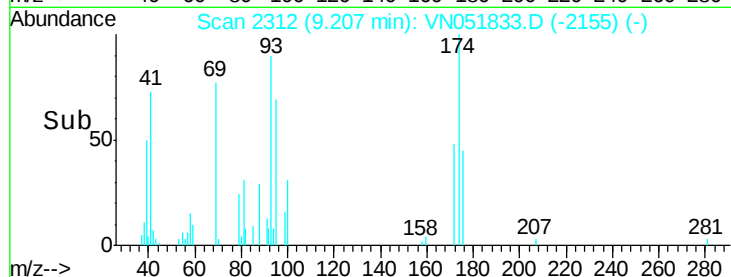
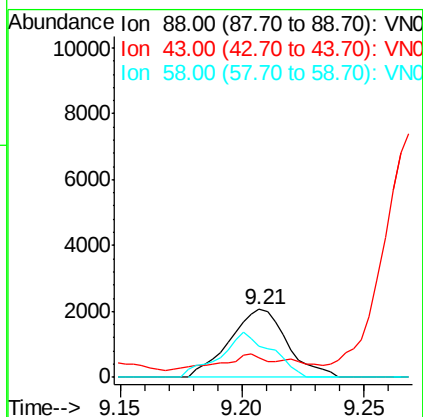
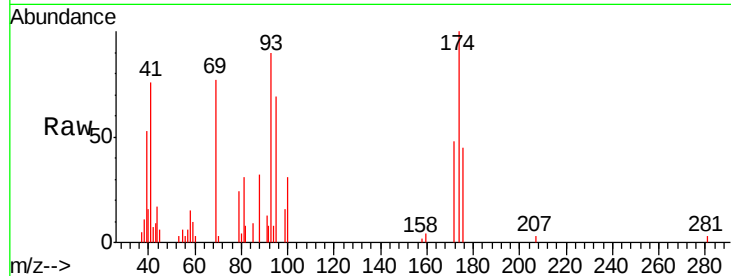




#45
 1,4-Dioxane
 Concen: 51.65 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.01 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

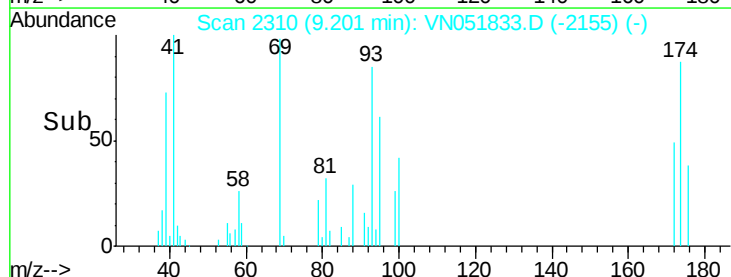
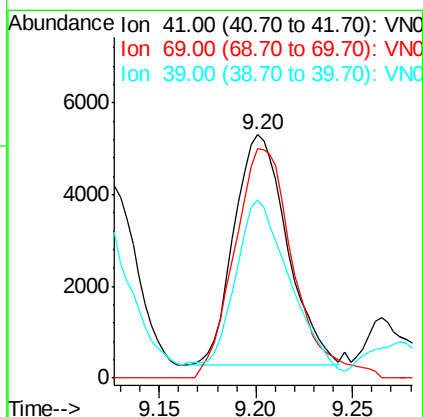
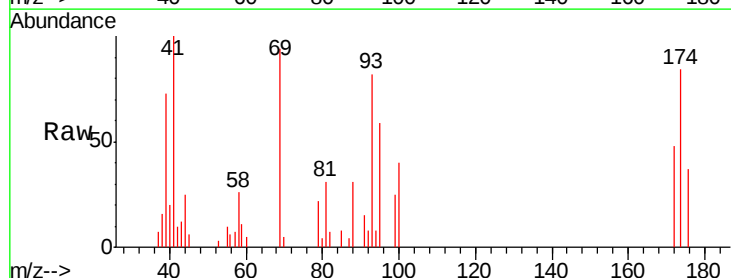
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

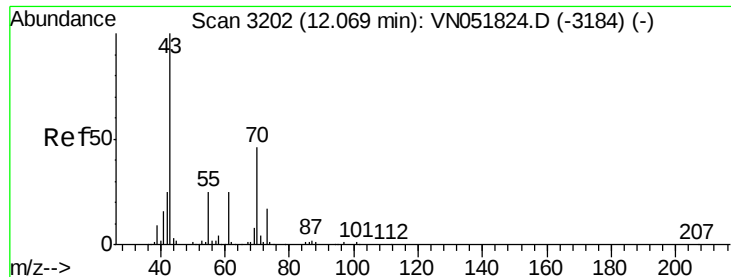
Tgt Ion: 88 Resp: 3370
 Ion Ratio Lower Upper
 88 100
 43 19.4 26.2 39.2#
 58 59.3 65.6 98.4#



#46
 Methyl methacrylate
 Concen: 2.55 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 41 Resp: 9543
 Ion Ratio Lower Upper
 41 100
 69 99.9 40.7 122.1
 39 73.3 27.3 81.9





#47

n-amy1 Acetate

Concen: 1.74 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

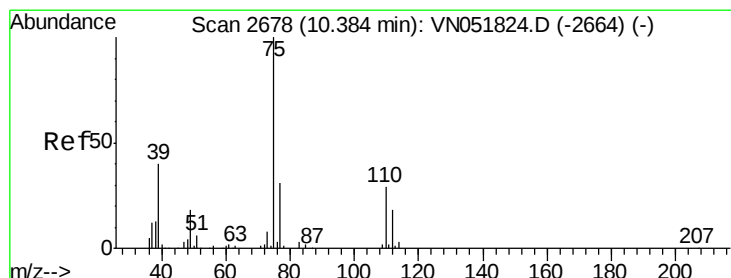
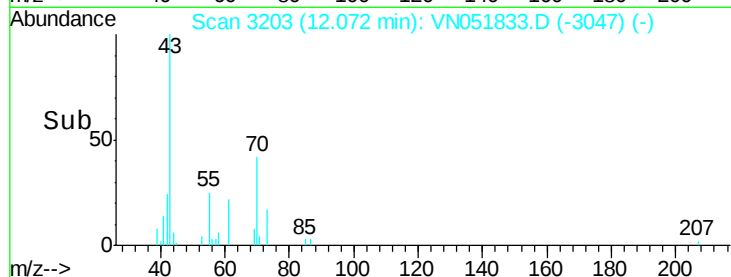
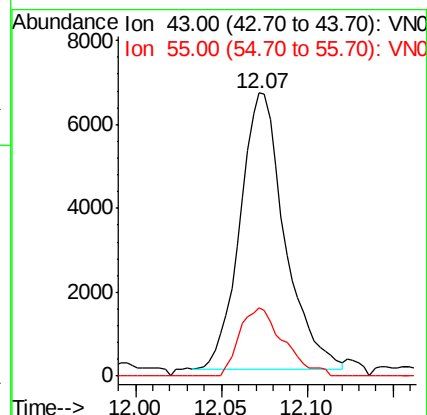
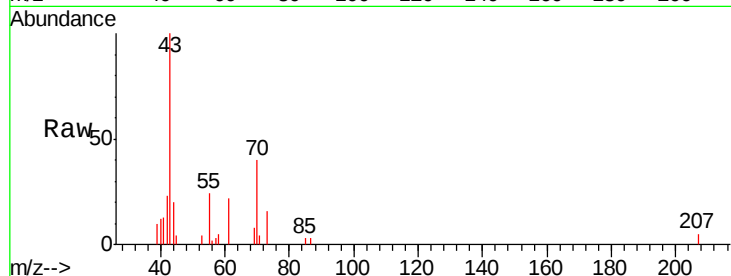
MDL-WATER-03-QT4-2018

Tgt Ion: 43 Resp: 11867

Ion Ratio Lower Upper

43 100

55 23.8 12.2 18.4#



#48

t-1,3-Dichloropropene

Concen: 2.19 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051833.D

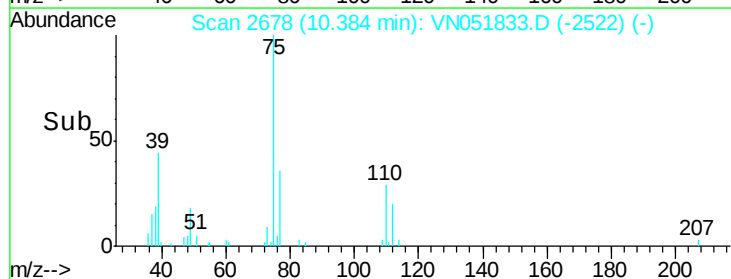
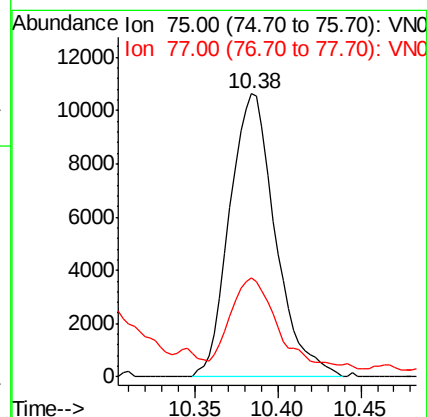
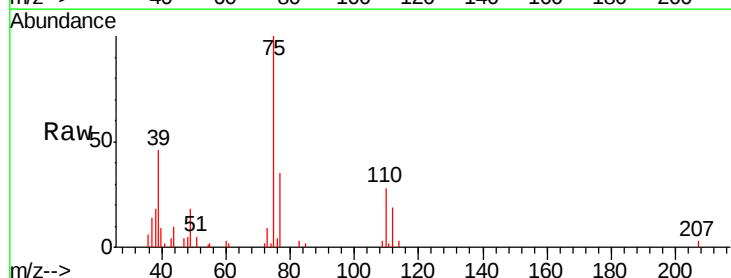
Acq: 12 Oct 2018 15:26

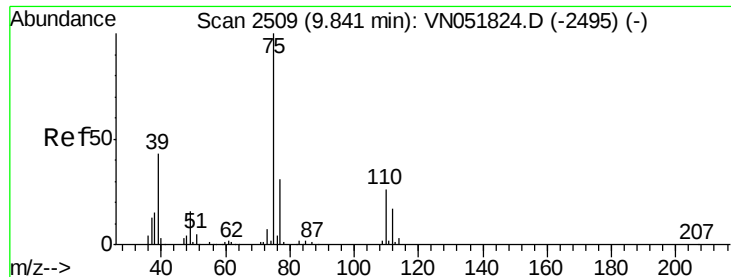
Tgt Ion: 75 Resp: 20459

Ion Ratio Lower Upper

75 100

77 30.5 24.6 37.0

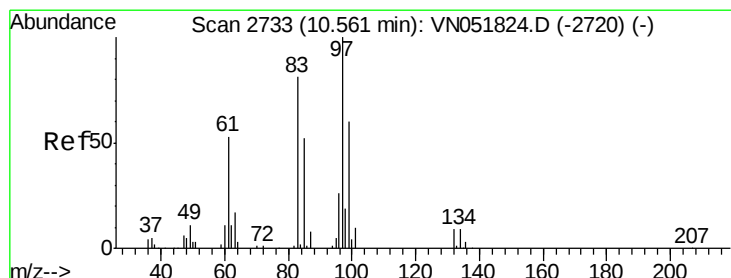
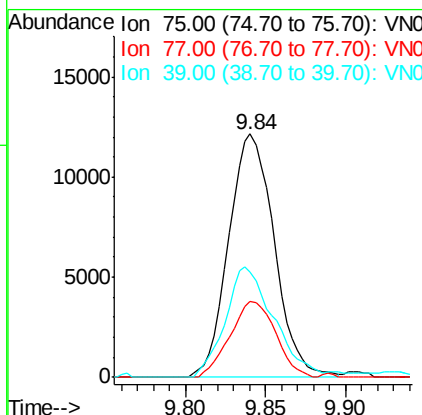
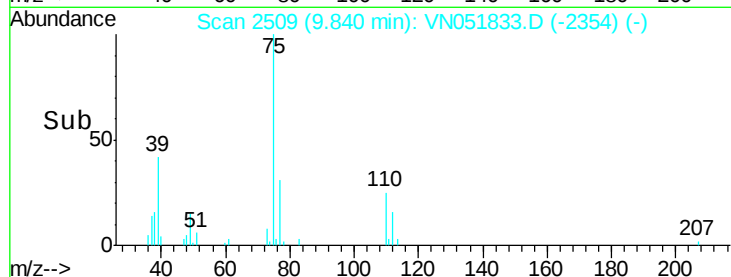
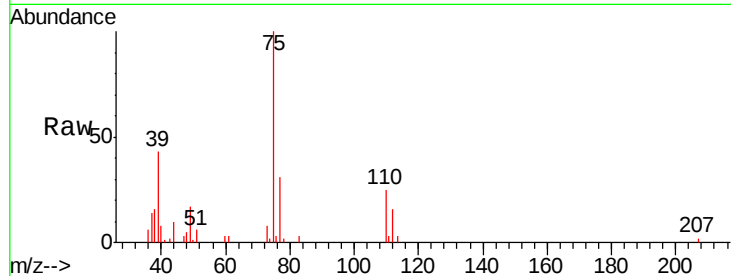




#49
 cis-1,3-Dichloropropene
 Concen: 2.30 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

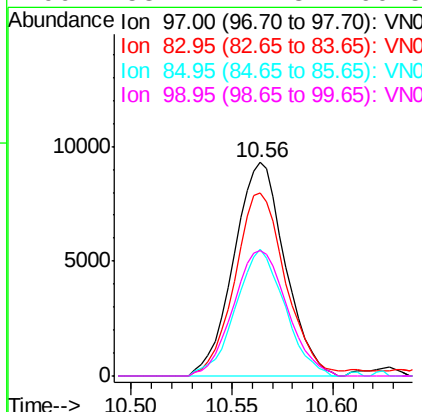
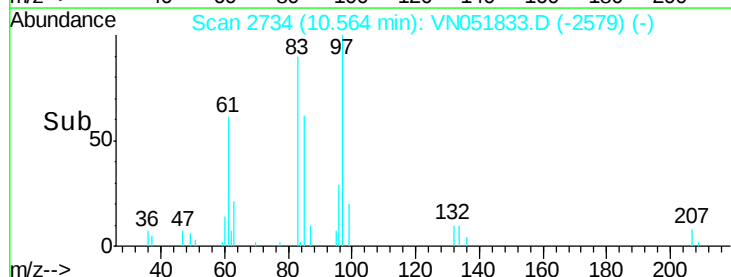
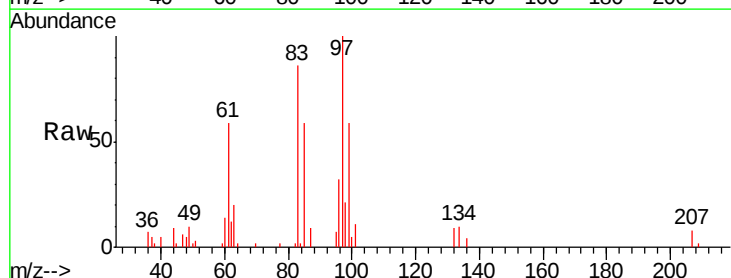
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

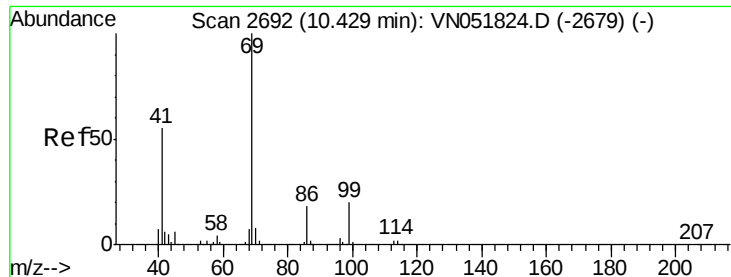
Tgt Ion: 75 Resp: 23646
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.2 34.8
 39 43.5 34.6 52.0



#50
 1,1,2-Trichloroethane
 Concen: 2.58 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 97 Resp: 16531
 Ion Ratio Lower Upper
 97 100
 83 85.8 68.2 102.4
 85 59.3 42.5 63.7
 99 58.7 44.3 66.5





#51

Ethyl methacrylate

Concen: 2.29 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

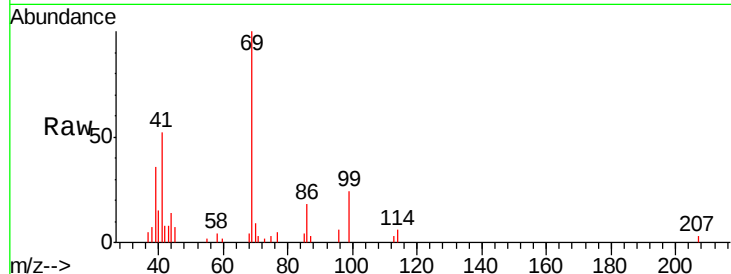
Tgt Ion: 69 Resp: 16804

Ion Ratio Lower Upper

69 100

41 51.9 34.4 103.1

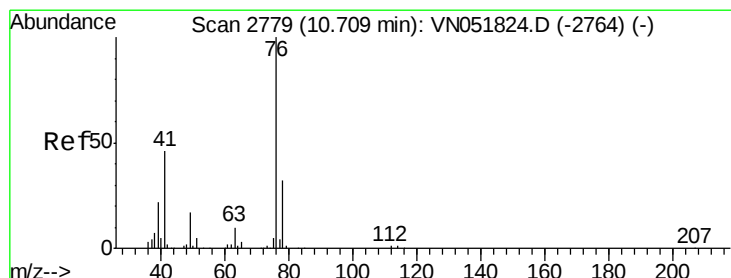
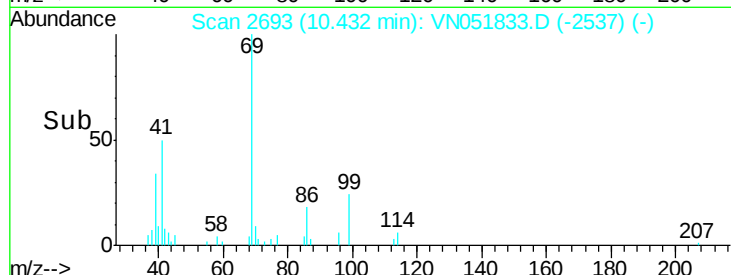
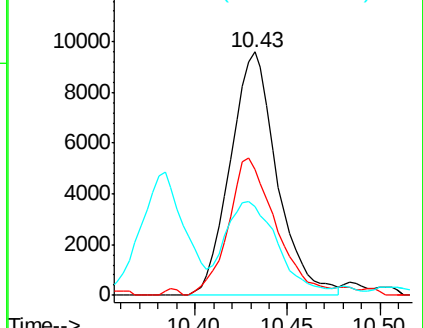
39 32.6 16.3 48.8



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



#52

1,3-Dichloropropane

Concen: 2.56 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN051833.D

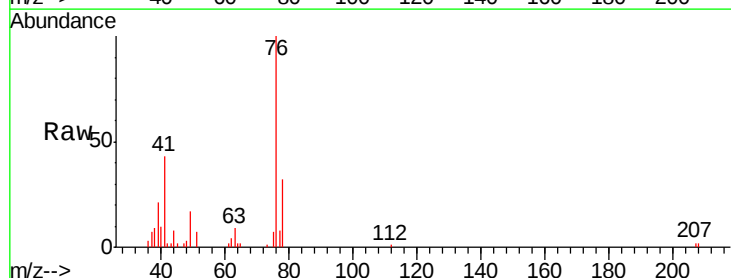
Acq: 12 Oct 2018 15:26

Tgt Ion: 76 Resp: 25343

Ion Ratio Lower Upper

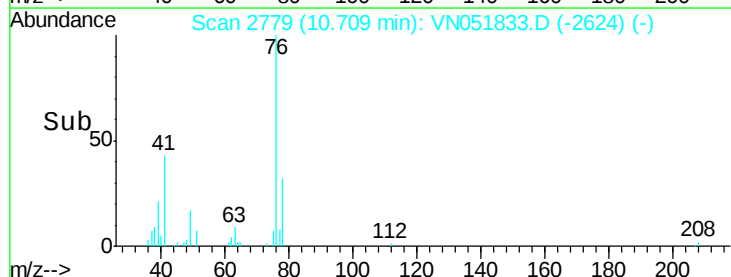
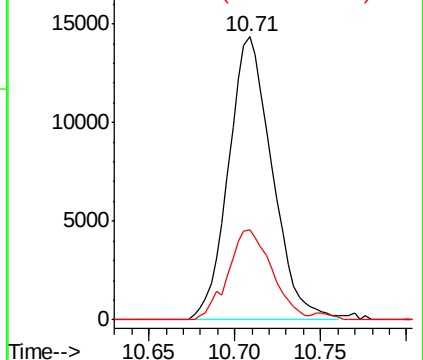
76 100

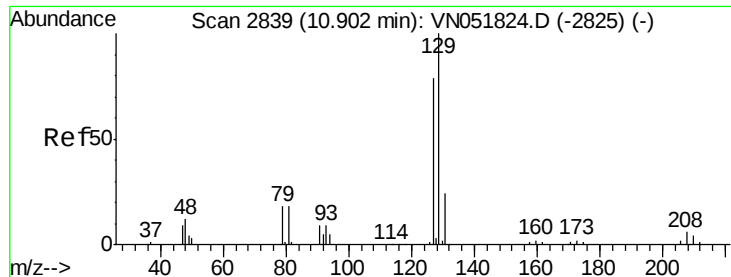
78 31.8 0.0 67.6



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 2.15 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

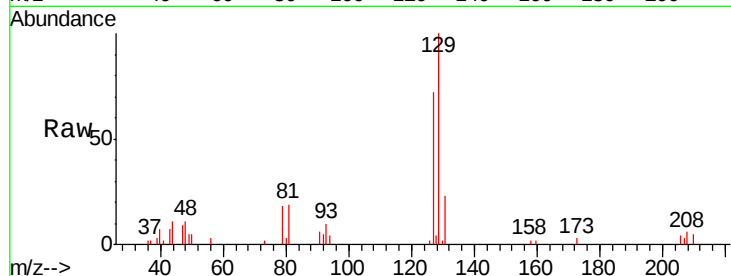
MDL-WATER-03-QT4-2018

Tgt Ion:129 Resp: 17023

Ion Ratio Lower Upper

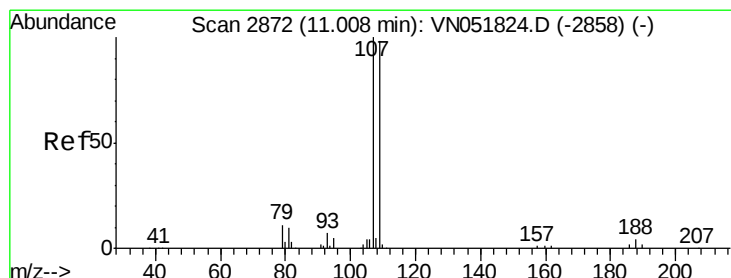
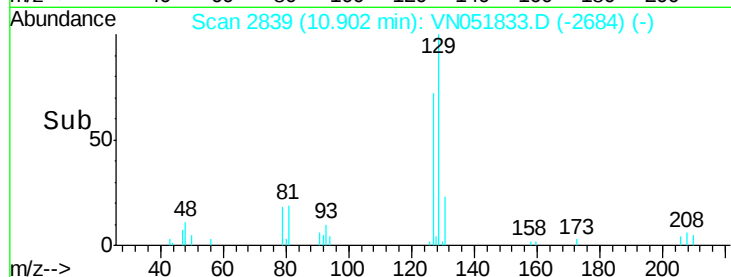
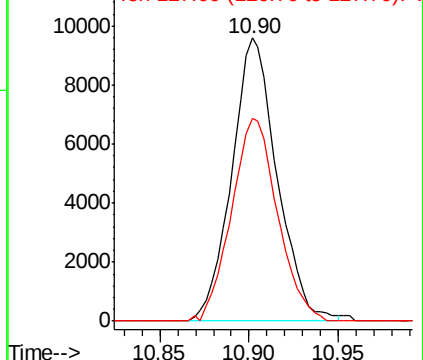
129 100

127 72.6 40.2 120.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 2.46 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. 0.00 min

Lab File: VN051833.D

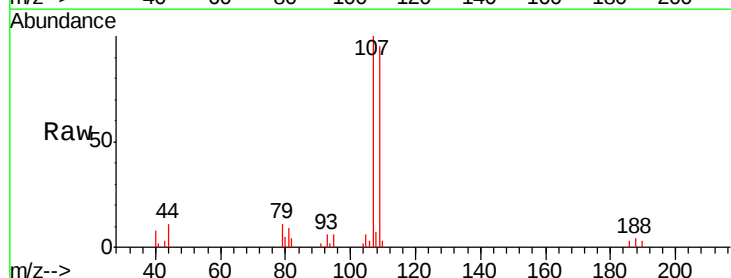
Acq: 12 Oct 2018 15:26

Tgt Ion:107 Resp: 16523

Ion Ratio Lower Upper

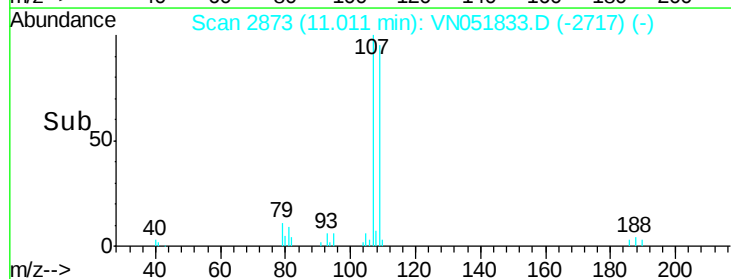
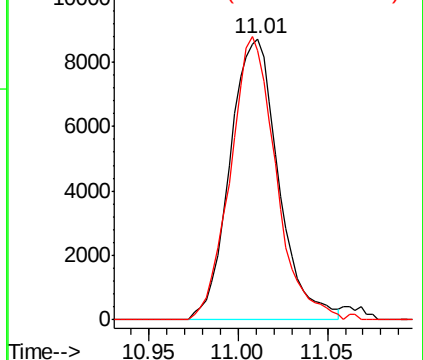
107 100

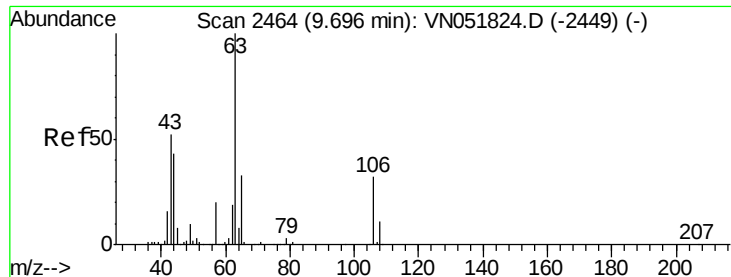
109 94.6 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 11.49 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

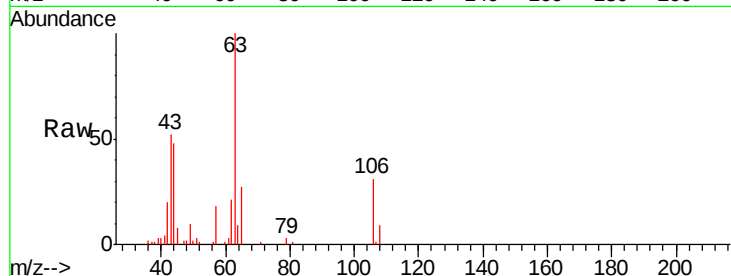
Tgt Ion: 63 Resp: 36007

Ion Ratio Lower Upper

63 100

65 28.7 25.4 38.0

106 31.6 21.2 31.8

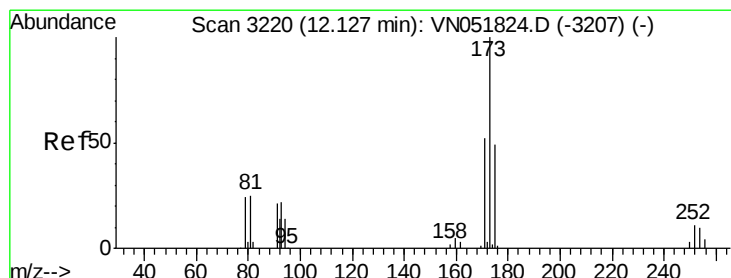
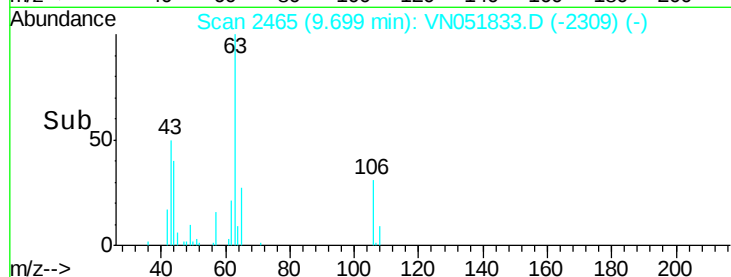
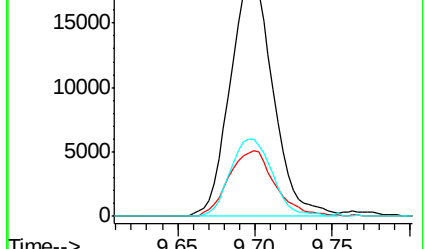


Abundance Ion 63.00 (62.70 to 63.70): VN051824.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN051824.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN051824.D (-2449) (-)

Time-->



#56

Bromoform

Concen: 1.74 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

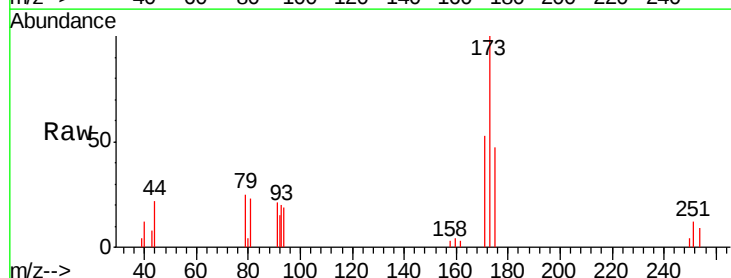
Tgt Ion: 173 Resp: 9066

Ion Ratio Lower Upper

173 100

175 49.9 35.8 53.8

254 3.9 8.6 13.0#

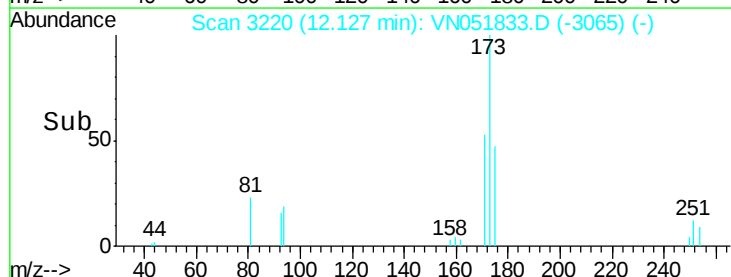
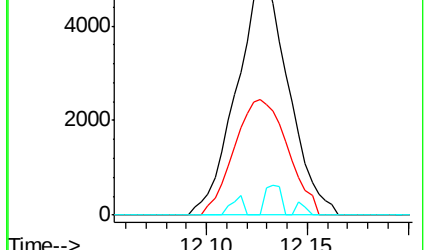


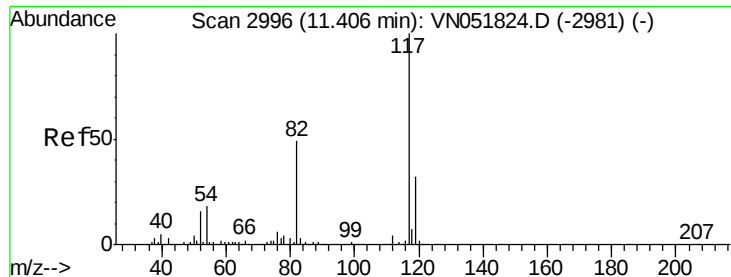
Abundance Ion 173.00 (172.70 to 173.70): VN051824.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN051824.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN051824.D (-3207) (-)

Time-->

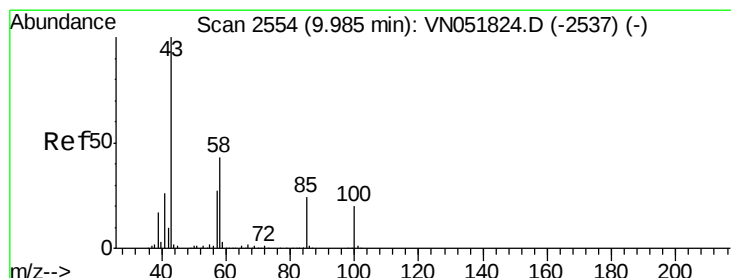
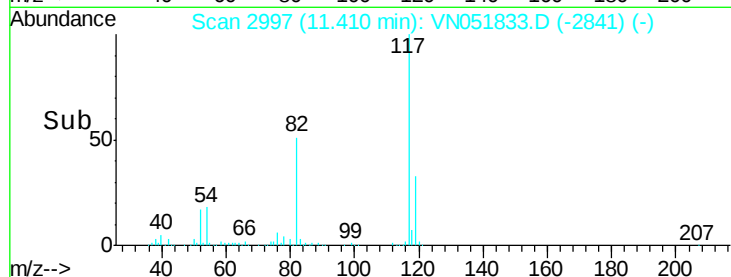
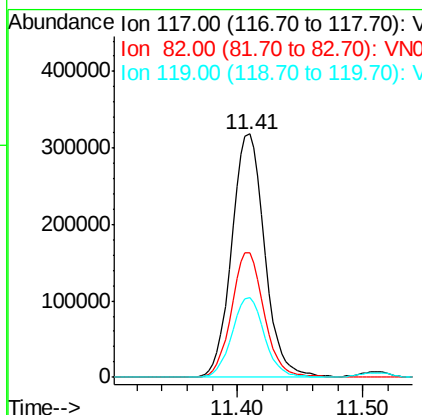
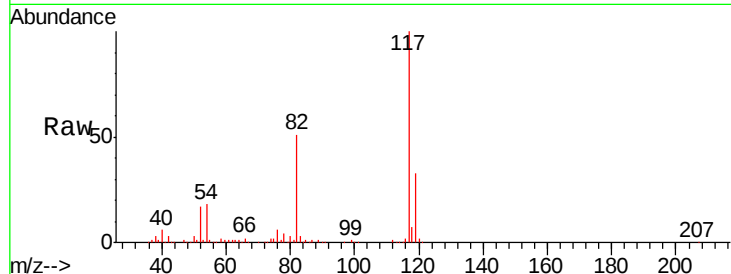




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

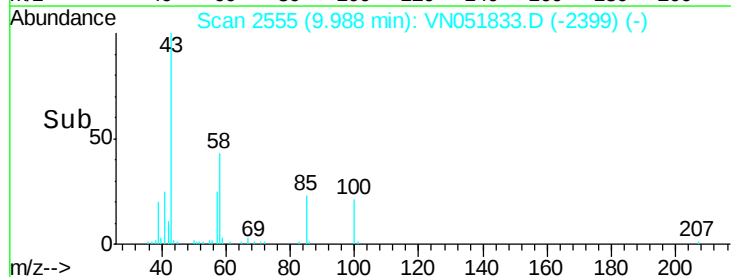
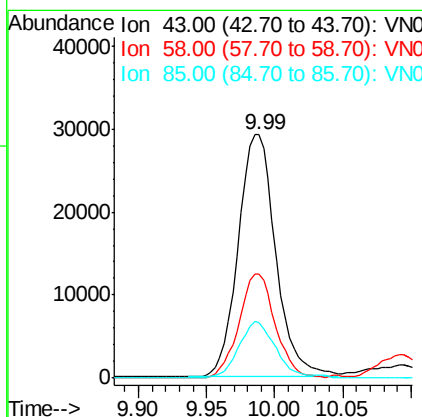
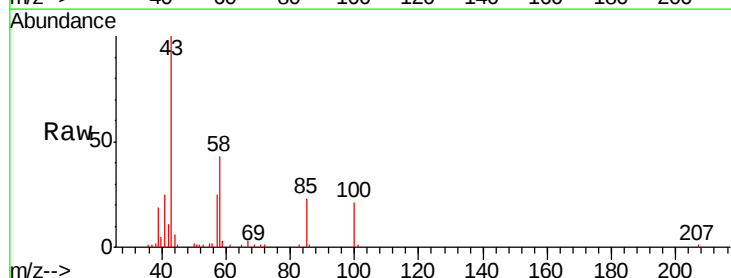
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

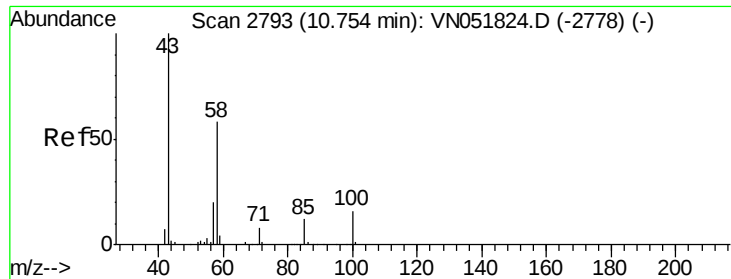
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.8	44.1	66.1
119	32.3	25.8	38.8



#58
4-Methyl-2-Pentanone
Concen: 14.32 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.6	29.3	43.9
85	22.7	12.6	18.8

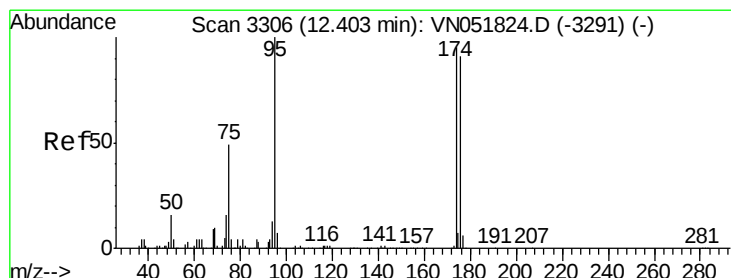
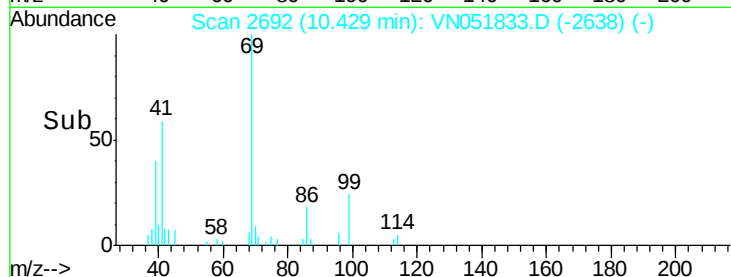
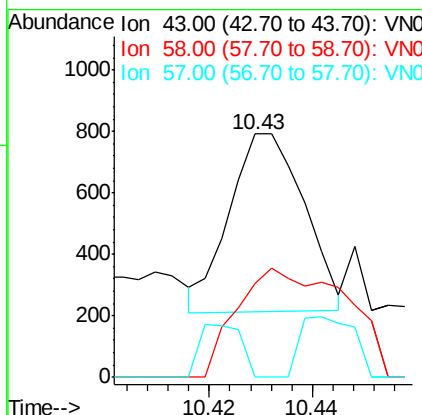
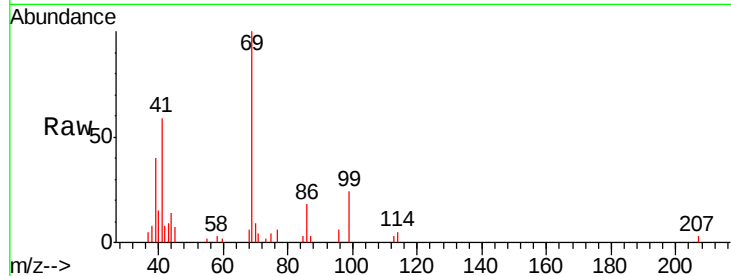




#59
2-Hexanone
Concen: 0.22 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. -0.32 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

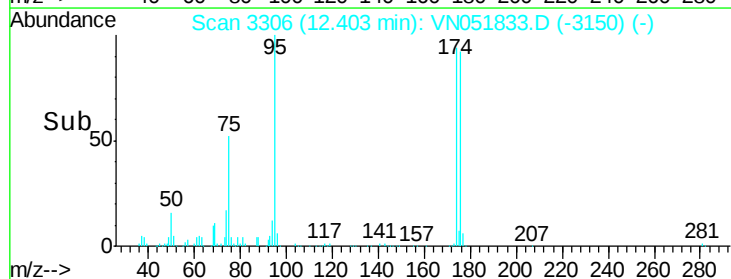
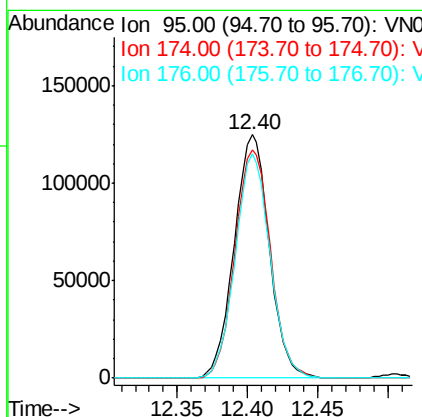
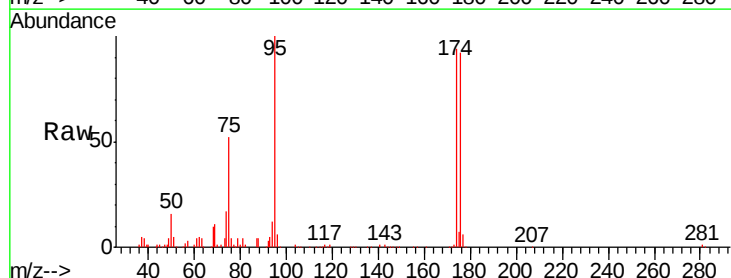
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

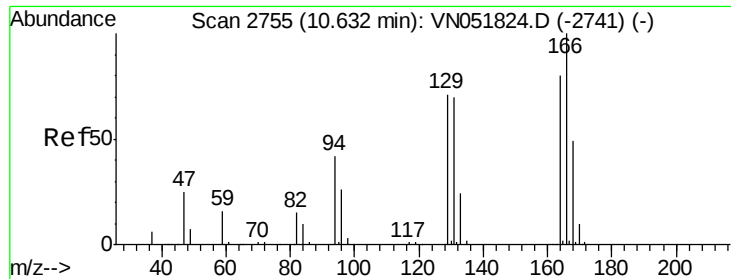
Tgt Ion: 43 Resp: 581
Ion Ratio Lower Upper
43 100
58 55.4 41.3 61.9
57 16.4 13.4 20.0



#60
4-Bromofluorobenzene
Concen: 0.22 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion: 95 Resp: 217660
Ion Ratio Lower Upper
95 100
174 95.0 73.5 110.3
176 91.6 70.2 105.2





#61

Tetrachloroethene

Concen: 2.83 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:164 Resp: 21010

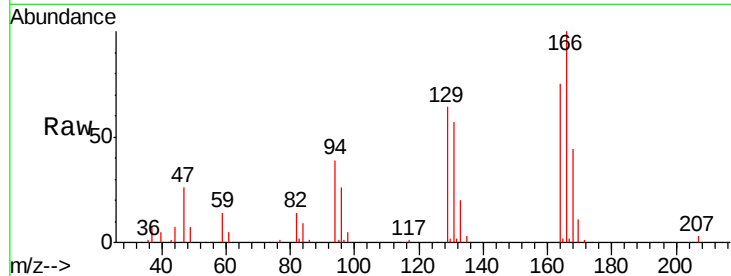
Ion Ratio Lower Upper

164 100

166 133.6 98.7 148.1

129 85.5 69.6 104.4

131 76.0 72.4 108.6

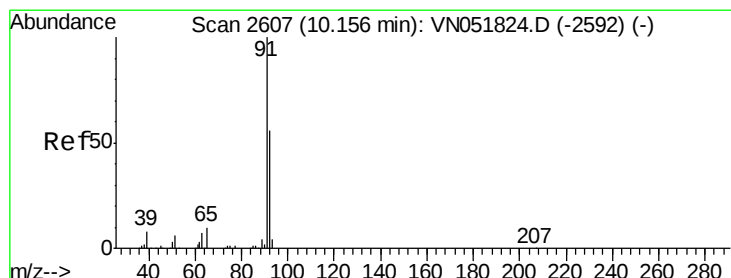
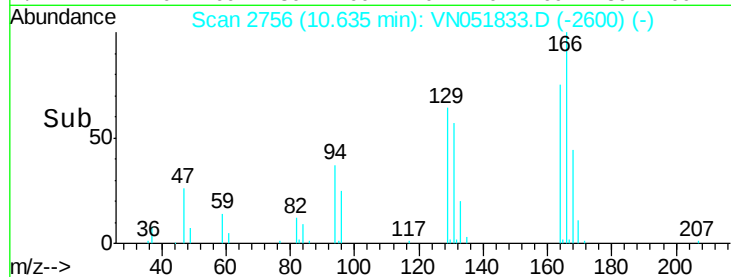
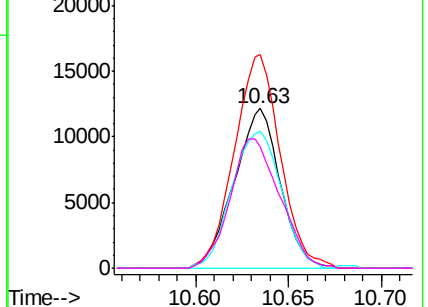


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 2.83 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051833.D

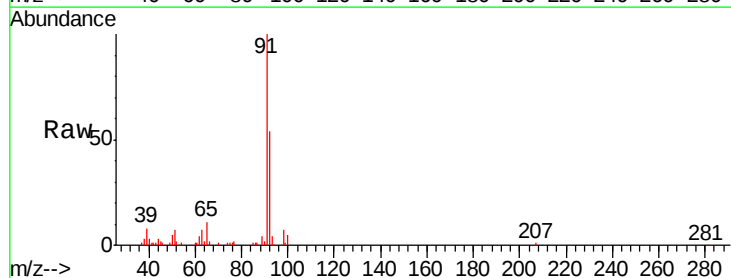
Acq: 12 Oct 2018 15:26

Tgt Ion: 91 Resp: 81697

Ion Ratio Lower Upper

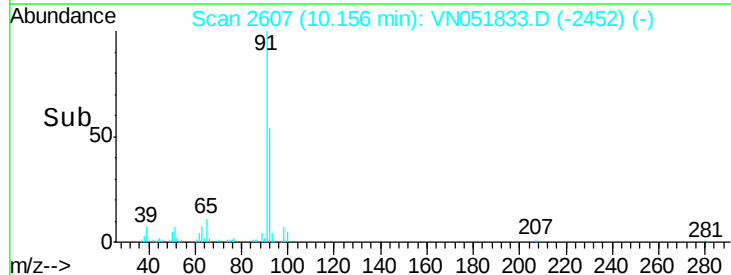
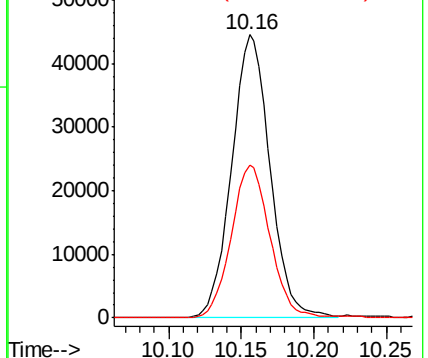
91 100

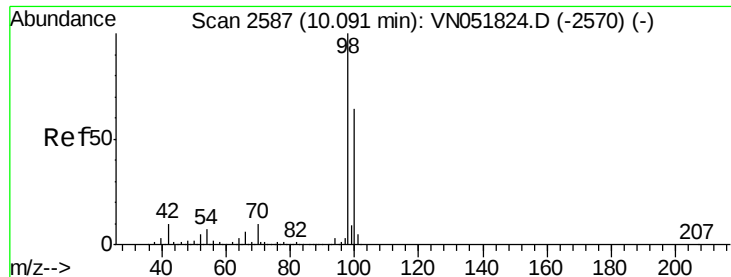
92 54.5 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 2.83 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

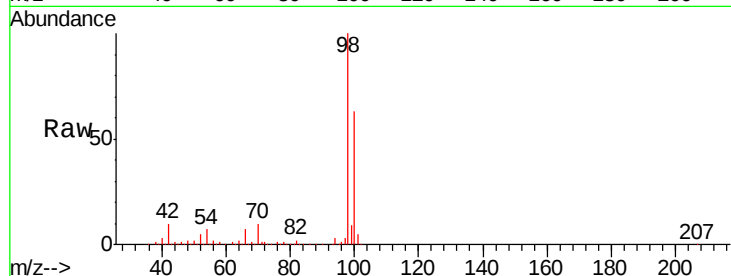
MDL-WATER-03-QT4-2018

Tgt Ion: 98 Resp: 809645

Ion Ratio Lower Upper

98 100

100 63.5 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051824.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051824.D (-2570) (-)

10.09

400000

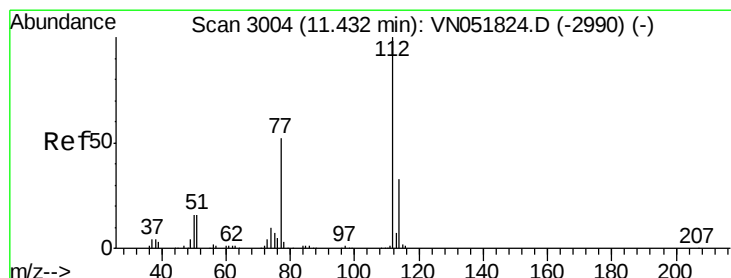
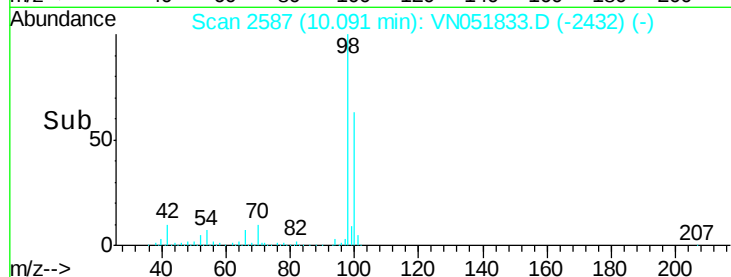
300000

200000

100000

0

Time-->



#64

Chlorobenzene

Concen: 2.71 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051833.D

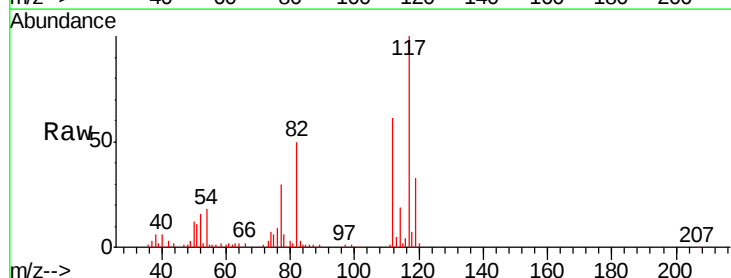
Acq: 12 Oct 2018 15:26

Tgt Ion: 112 Resp: 51274

Ion Ratio Lower Upper

112 100

114 31.7 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): VN051824.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN051824.D (-2990) (-)

11.43

30000

25000

20000

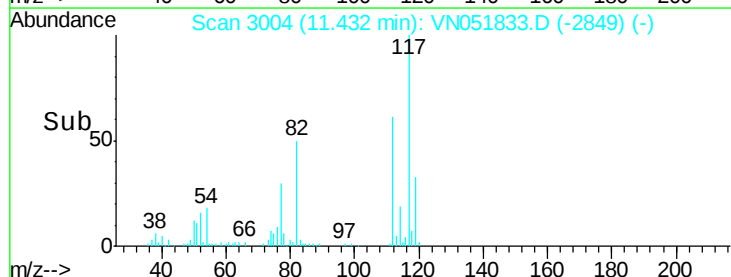
15000

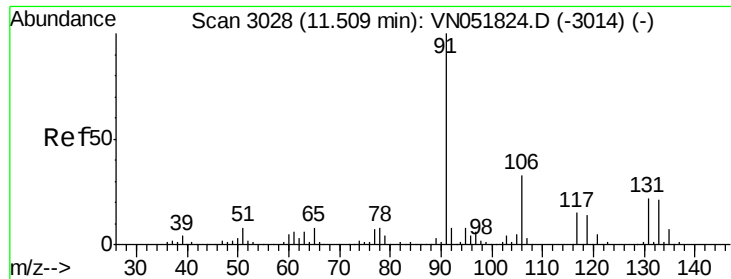
10000

5000

0

Time-->

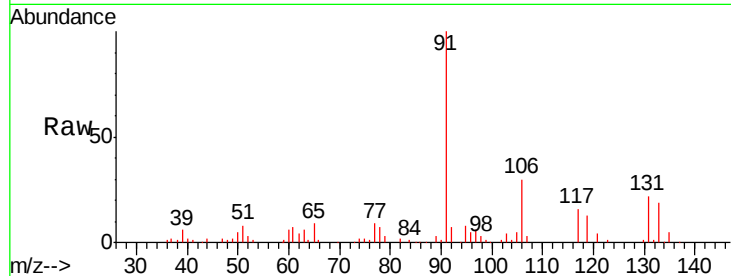




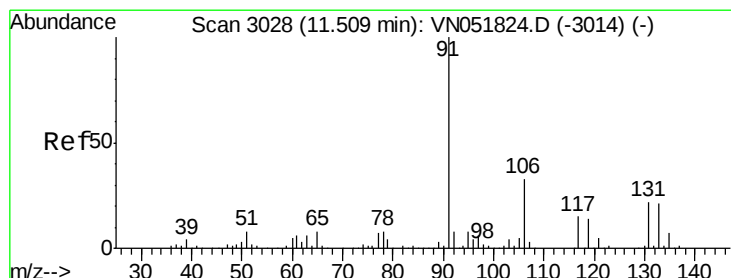
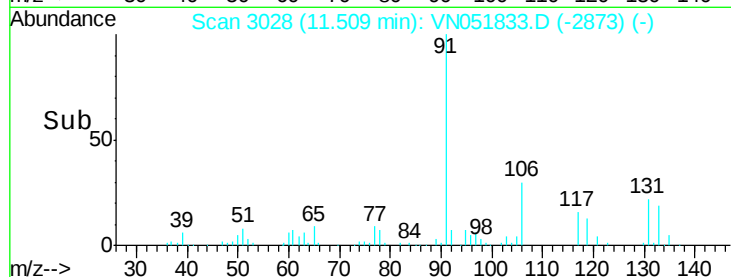
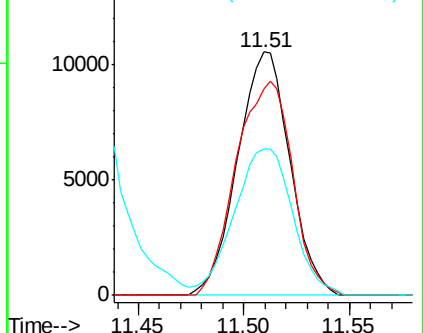
#65
 1,1,1,2-Tetrachloroethane
 Concen: 2.51 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

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

Tgt Ion: 131 Resp: 18234
 Ion Ratio Lower Upper
 131 100
 133 94.9 0.0 190.4
 119 67.6 0.0 128.0

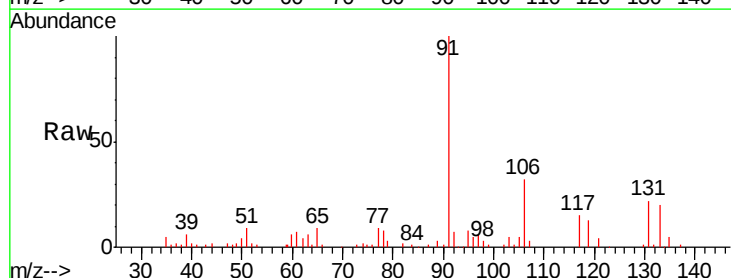


Abundance Ion 131.00 (130.70 to 131.70): V
 Ion 133.00 (132.70 to 133.70): V
 Ion 119.00 (118.70 to 119.70): V

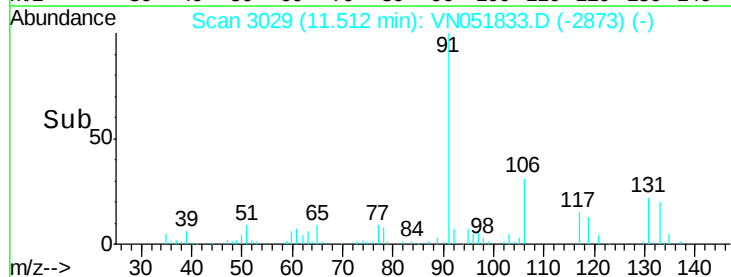
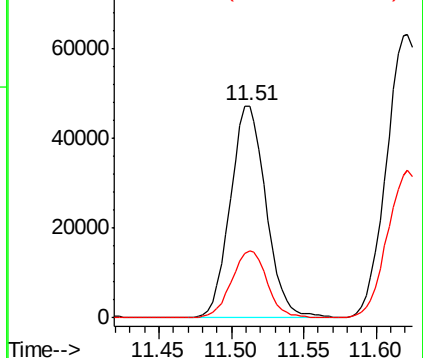


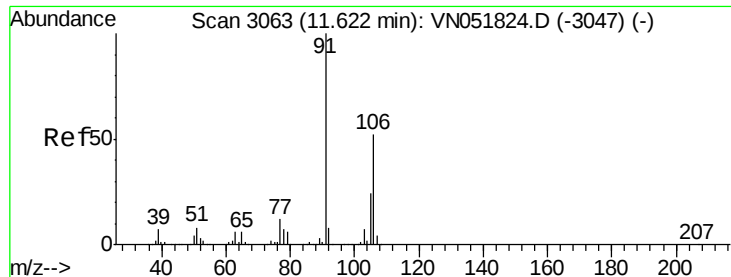
#66
 Ethyl Benzene
 Concen: 2.54 ug/l
 RT: 11.51 min Scan# 3029
 Delta R.T. 0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 91 Resp: 81130
 Ion Ratio Lower Upper
 91 100
 106 31.8 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 4.95 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

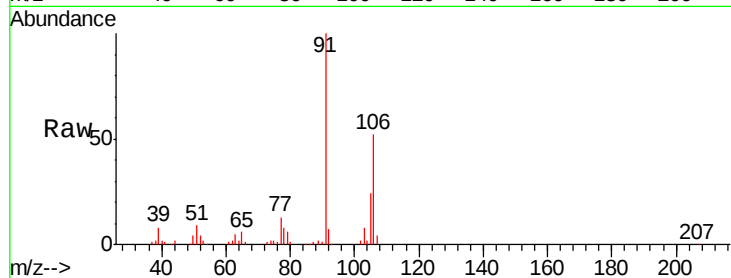
MDL-WATER-03-QT4-2018

Tgt Ion:106 Resp: 64029

Ion Ratio Lower Upper

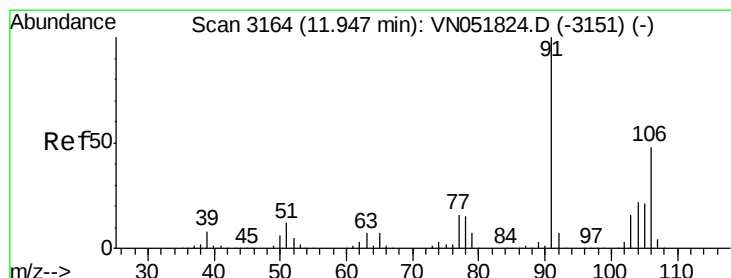
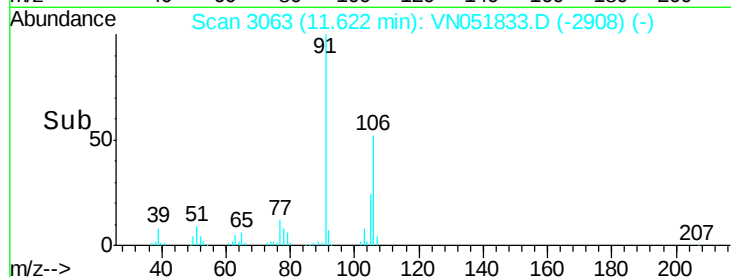
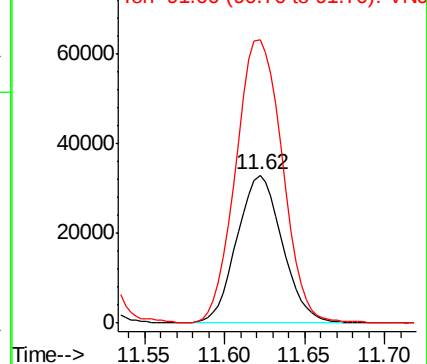
106 100

91 197.0 158.8 238.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 2.50 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN051833.D

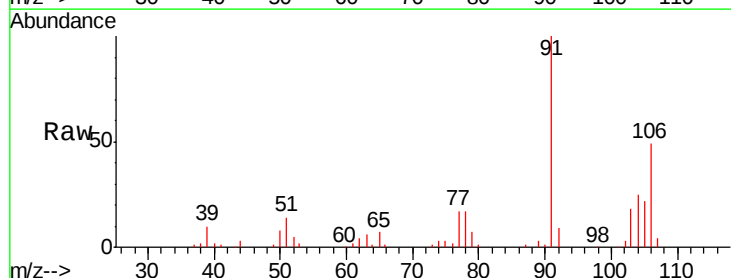
Acq: 12 Oct 2018 15:26

Tgt Ion:106 Resp: 31882

Ion Ratio Lower Upper

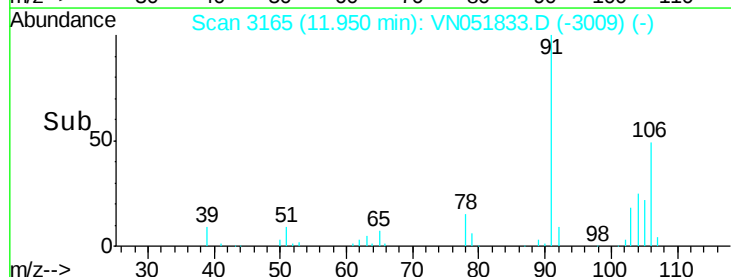
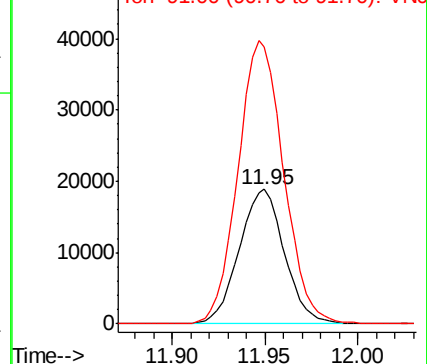
106 100

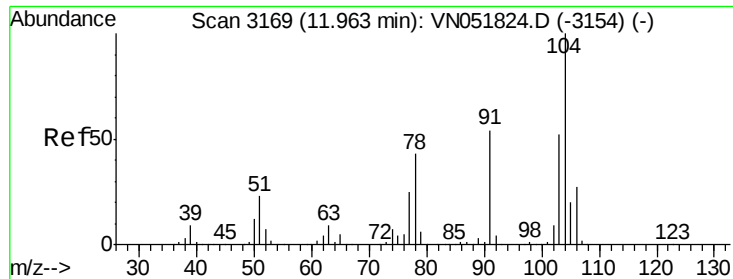
91 212.8 111.1 333.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

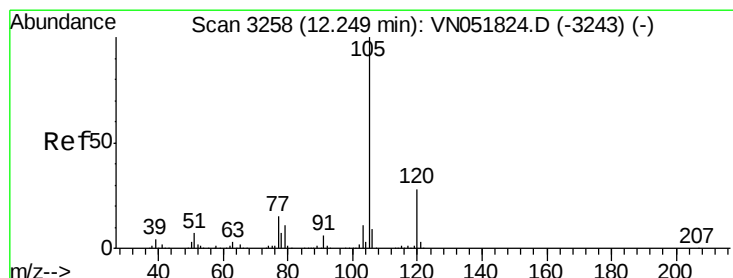
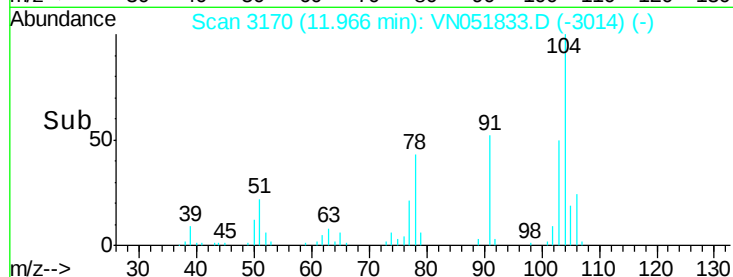
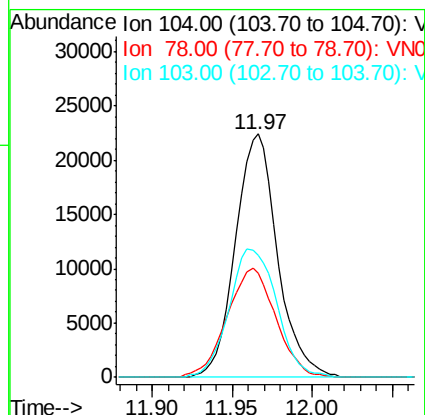
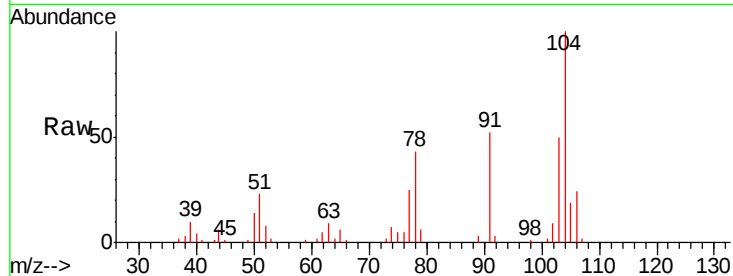




#69
Styrene
Concen: 2.05 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

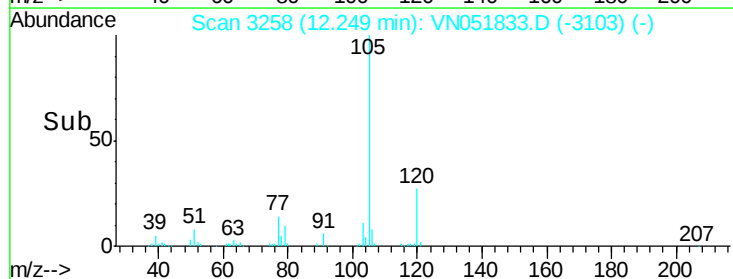
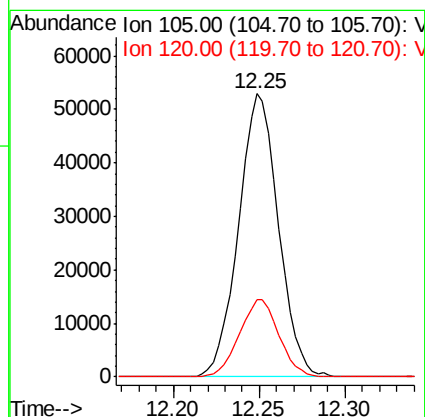
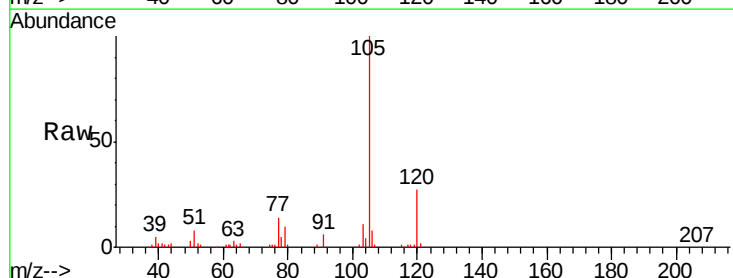
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

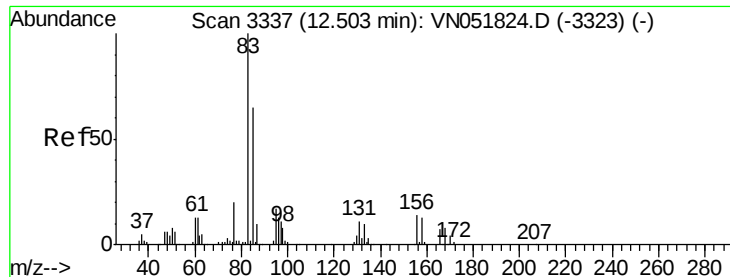
Tgt Ion:104 Resp: 40170
Ion Ratio Lower Upper
104 100
78 52.2 40.6 60.8
103 60.0 44.0 66.0



#70
Isopropylbenzene
Concen: 2.51 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion:105 Resp: 85288
Ion Ratio Lower Upper
105 100
120 27.1 19.0 35.4

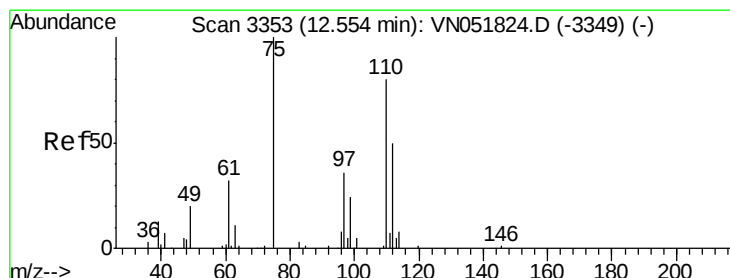
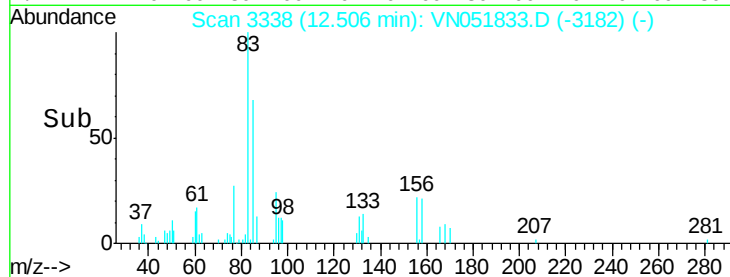
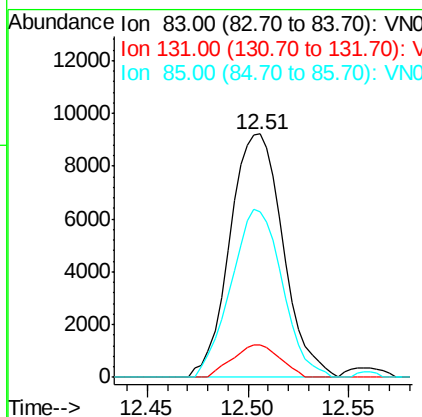
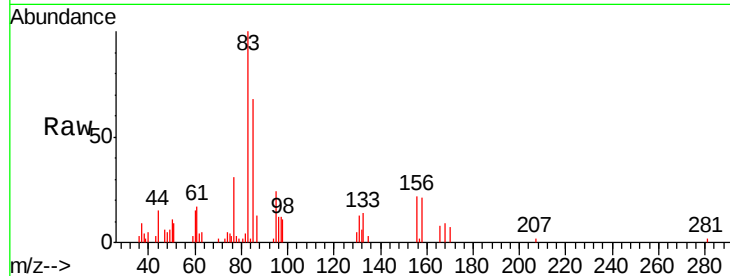




#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.53 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

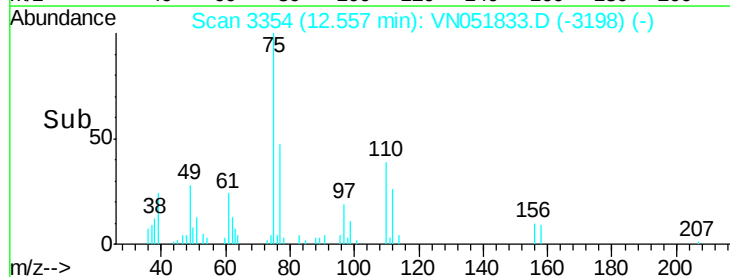
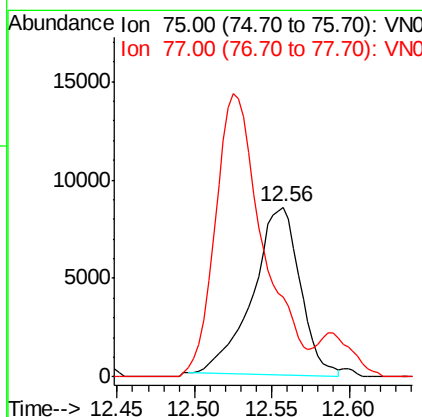
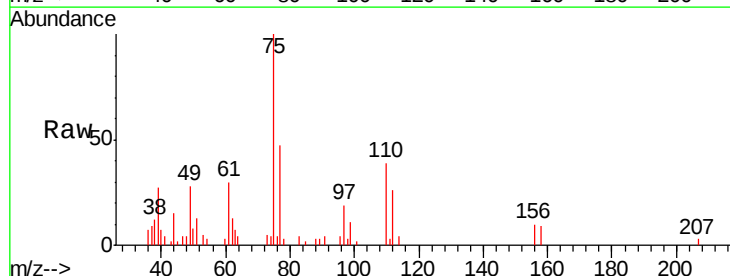
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

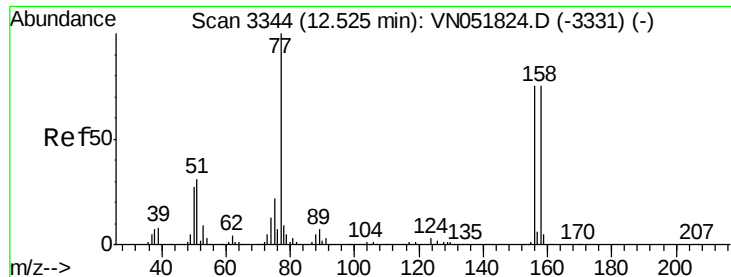
Tgt Ion: 83 Resp: 16966
 Ion Ratio Lower Upper
 83 100
 131 12.0 5.5 16.4
 85 66.8 30.6 91.8



#72
 1,2,3-Trichloropropane
 Concen: 3.45 ug/l
 RT: 12.56 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion: 75 Resp: 18224
 Ion Ratio Lower Upper
 75 100
 77 169.1 0.0 400.0





#73

Bromobenzene

Concen: 2.30 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

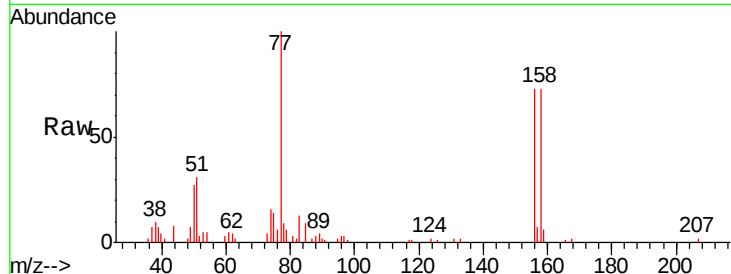
Tgt Ion:156 Resp: 19407

Ion Ratio Lower Upper

156 100

77 158.8 0.0 377.4

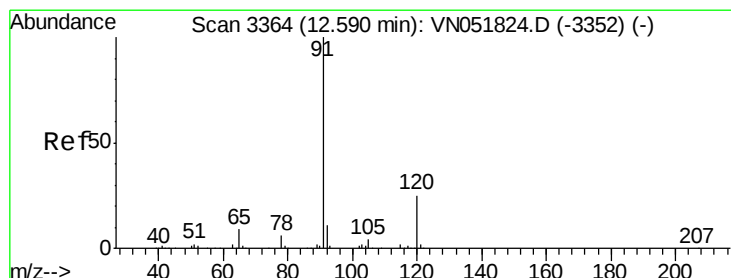
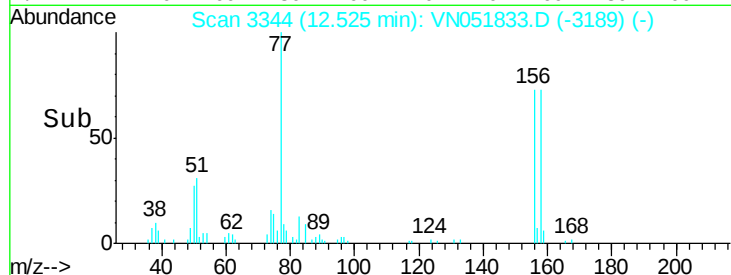
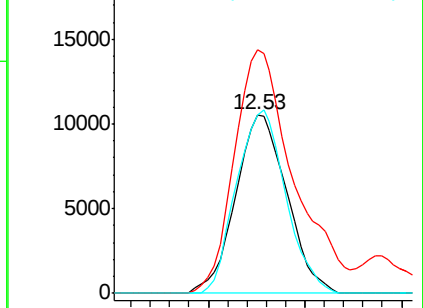
158 99.1 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 2.23 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051833.D

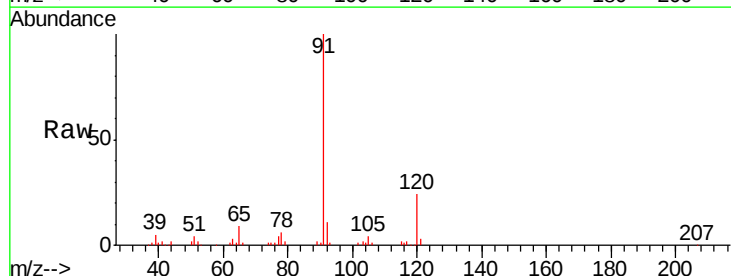
Acq: 12 Oct 2018 15:26

Tgt Ion: 91 Resp: 81463

Ion Ratio Lower Upper

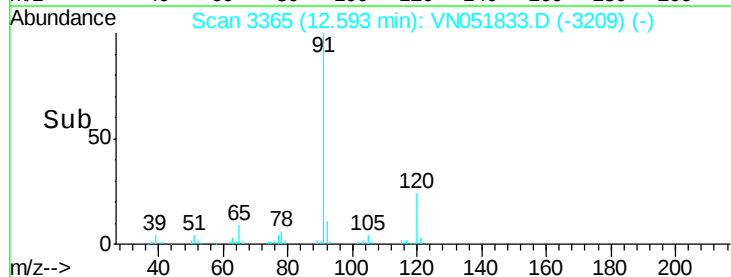
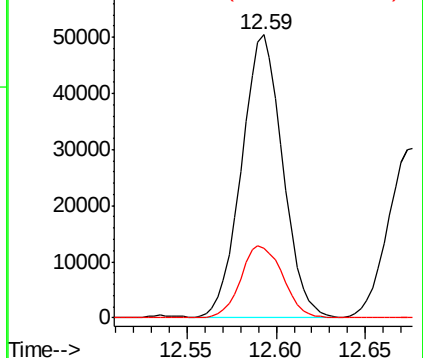
91 100

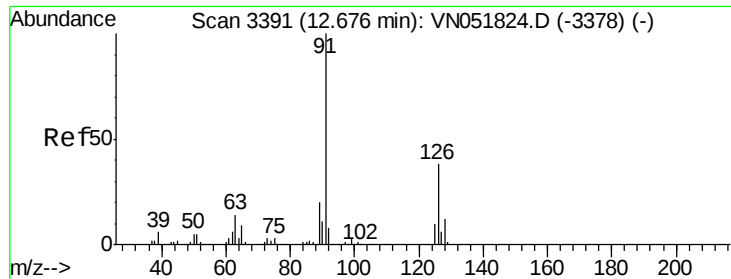
120 25.9 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.43 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

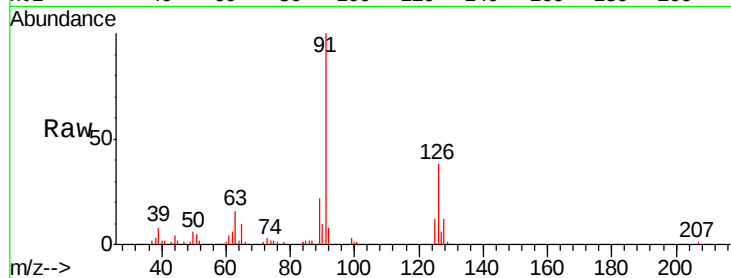
MDL-WATER-03-QT4-2018

Tgt Ion: 91 Resp: 52198

Ion Ratio Lower Upper

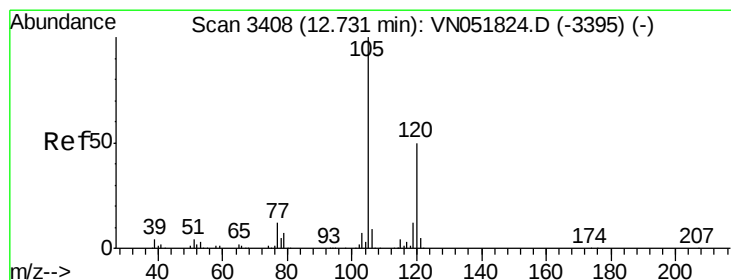
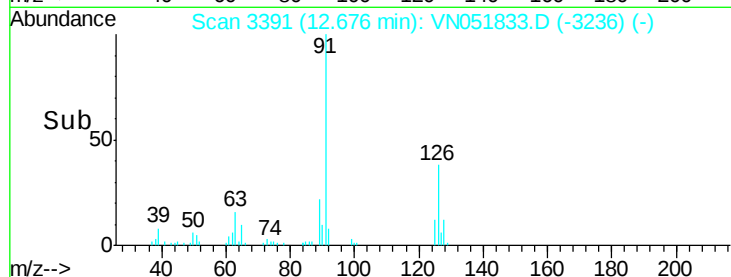
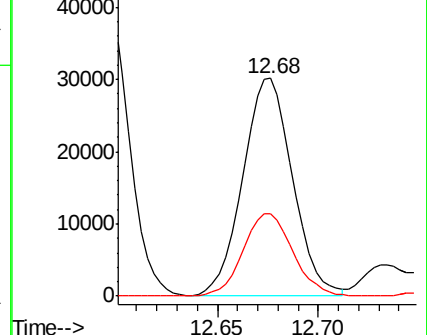
91 100

126 37.8 0.0 67.6



Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN051824.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 2.29 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051833.D

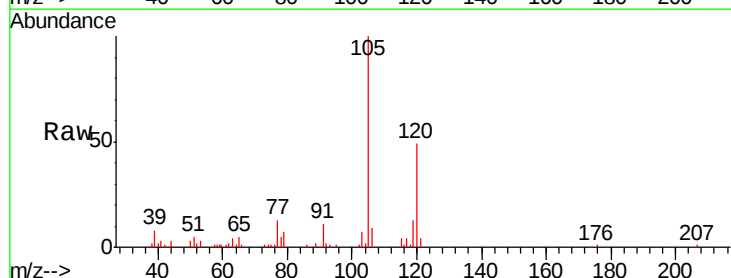
Acq: 12 Oct 2018 15:26

Tgt Ion: 105 Resp: 64373

Ion Ratio Lower Upper

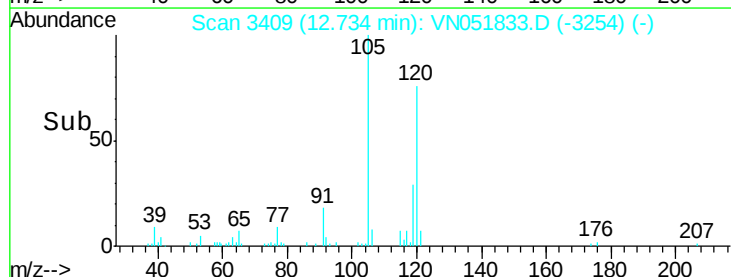
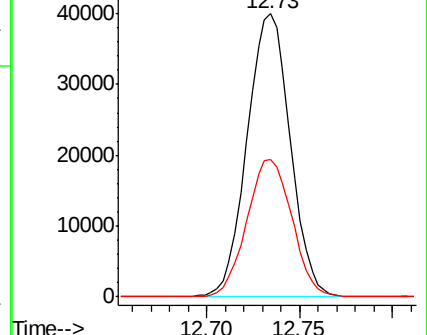
105 100

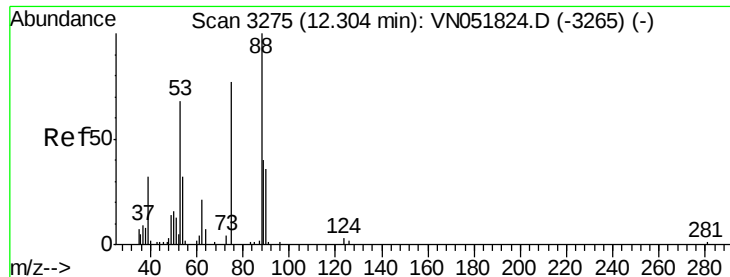
120 50.9 0.0 98.2



Abundance Ion 105.00 (104.70 to 105.70): VN051824.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN051824.D (-3395) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 1.68 ug/l

RT: 12.31 min Scan# 3276

Delta R.T. 0.01 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

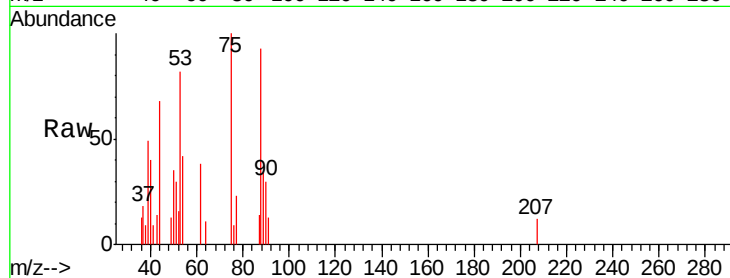
Tgt Ion: 75 Resp: 2929

Ion Ratio Lower Upper

75 100

53 81.8 46.3 138.9

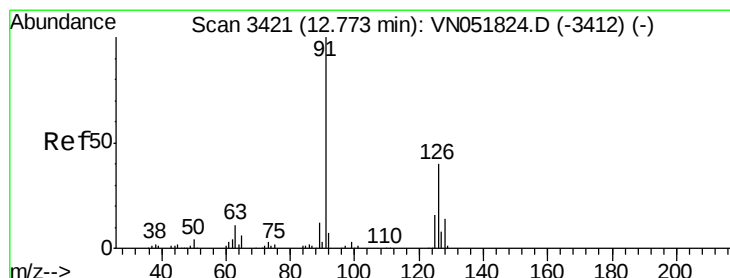
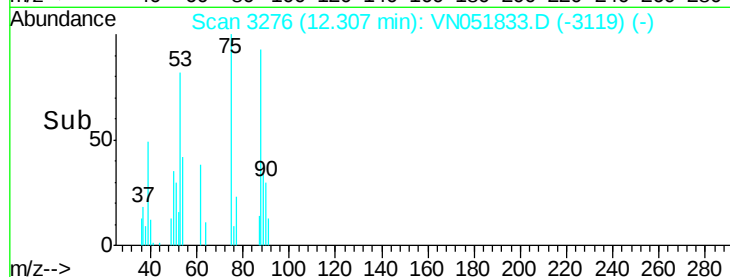
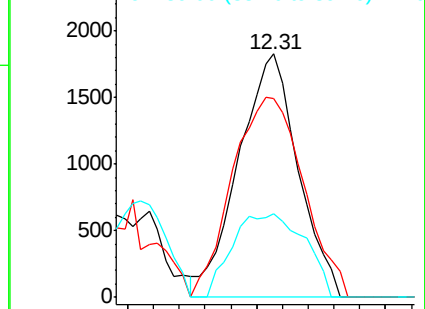
89 34.5 24.6 73.8



Abundance Ion 75.00 (74.70 to 75.70): VN051833.D (-3119) (-)

Ion 53.00 (52.70 to 53.70): VN051833.D (-3119) (-)

Ion 89.00 (88.70 to 89.70): VN051833.D (-3119) (-)



#78

4-Chlorotoluene

Concen: 2.07 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN051833.D

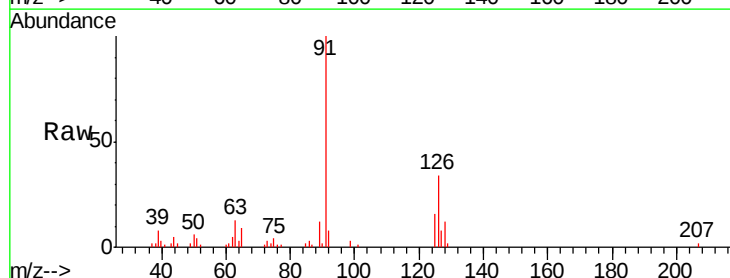
Acq: 12 Oct 2018 15:26

Tgt Ion: 91 Resp: 43674

Ion Ratio Lower Upper

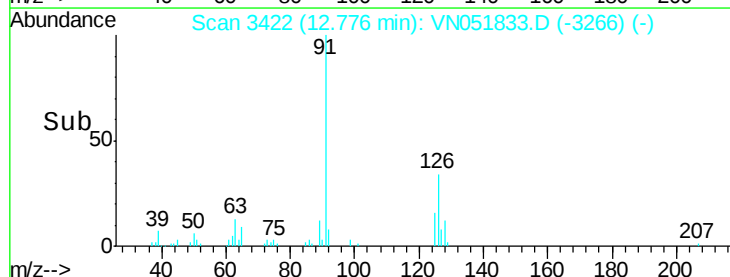
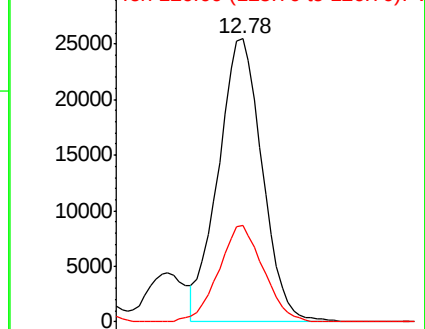
91 100

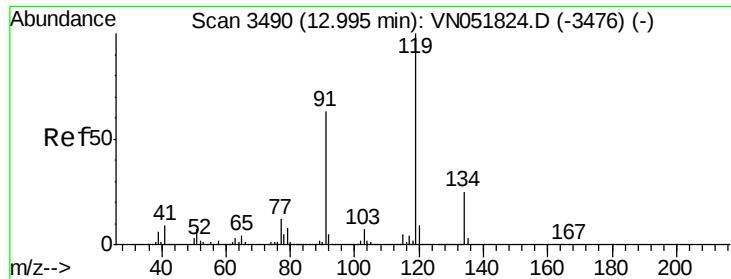
126 34.6 0.0 65.2



Abundance Ion 91.00 (90.70 to 91.70): VN051833.D (-3266) (-)

Ion 126.00 (125.70 to 126.70): VN051833.D (-3266) (-)

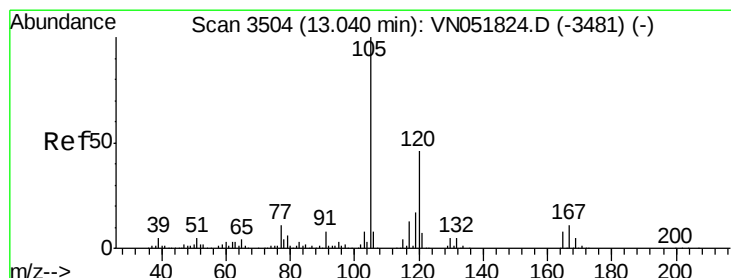
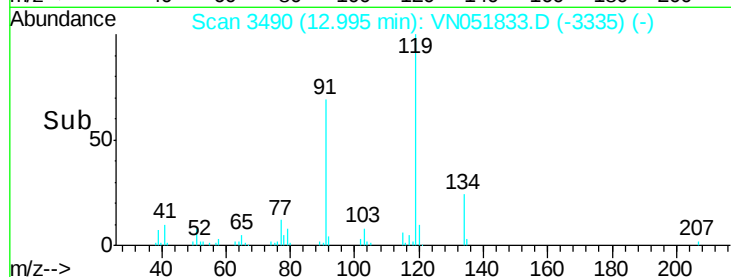
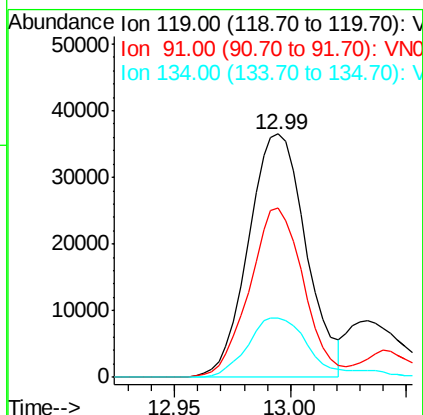
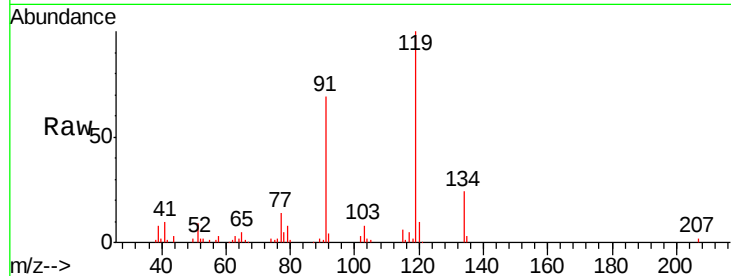




#79
tert-butylbenzene
Concen: 2.44 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

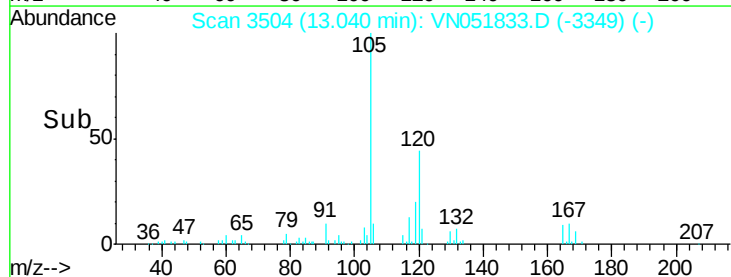
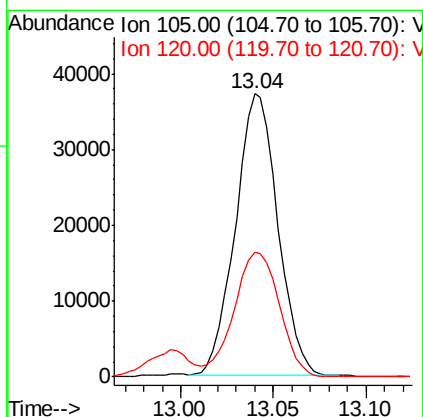
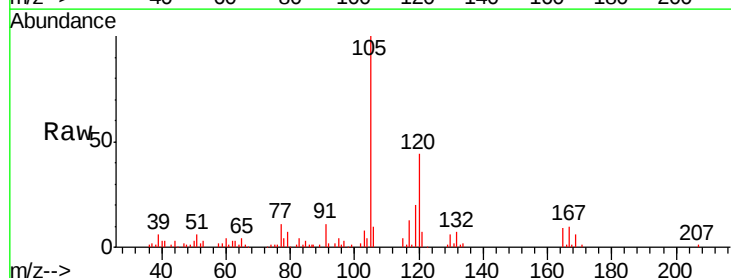
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

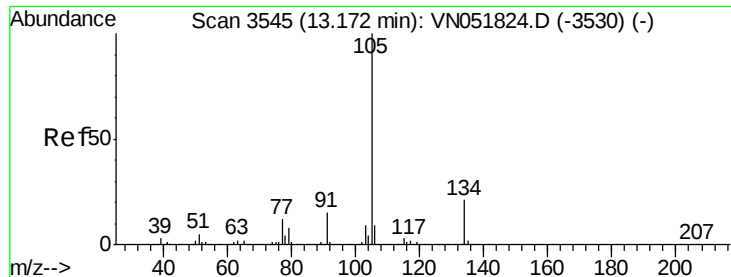
Tgt Ion:119 Resp: 63125
Ion Ratio Lower Upper
119 100
91 65.4 0.0 131.6
134 25.2 0.0 46.2



#80
1,2,4-Trimethylbenzene
Concen: 2.10 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion:105 Resp: 58902
Ion Ratio Lower Upper
105 100
120 47.6 0.0 89.6

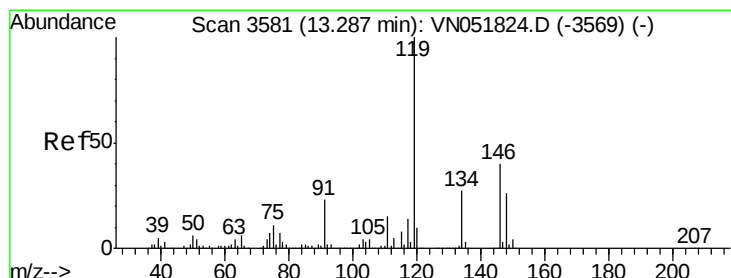
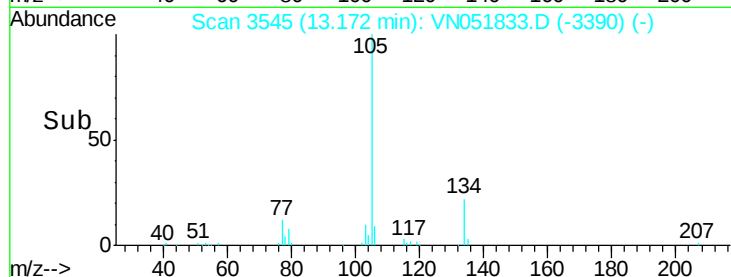
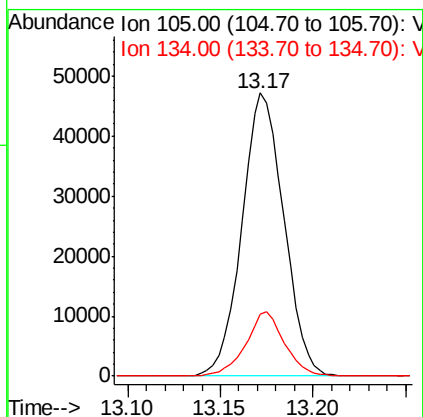
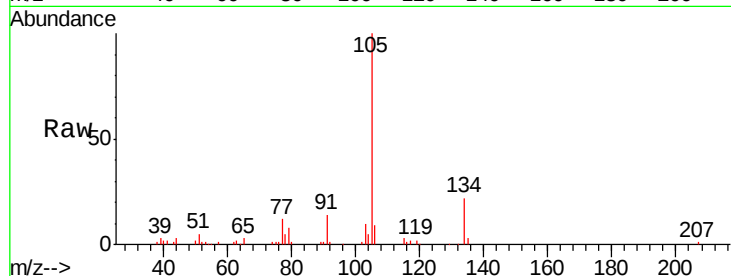




#81
 sec-Butylbenzene
 Concen: 2.18 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

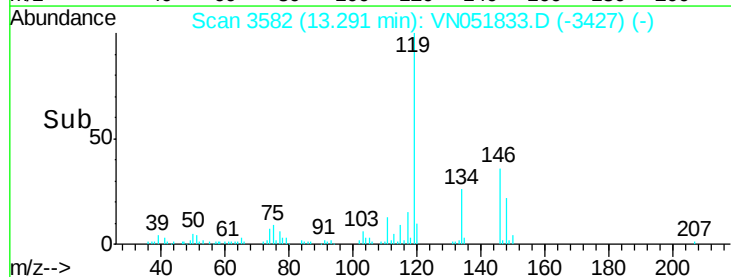
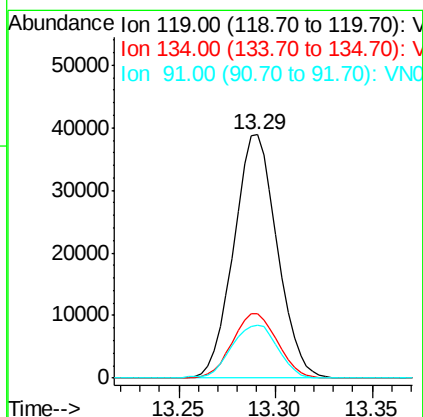
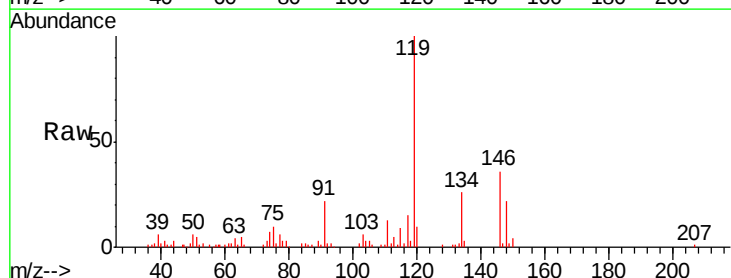
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

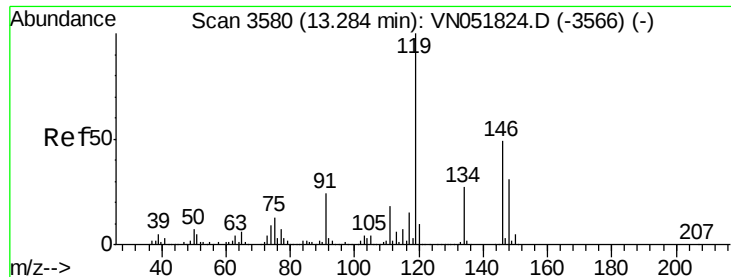
Tgt Ion:105 Resp: 73740
 Ion Ratio Lower Upper
 105 100
 134 21.0 0.0 39.4



#82
 p-Isopropyltoluene
 Concen: 2.01 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion:119 Resp: 60856
 Ion Ratio Lower Upper
 119 100
 134 27.5 0.0 53.6
 91 23.0 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 1.80 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

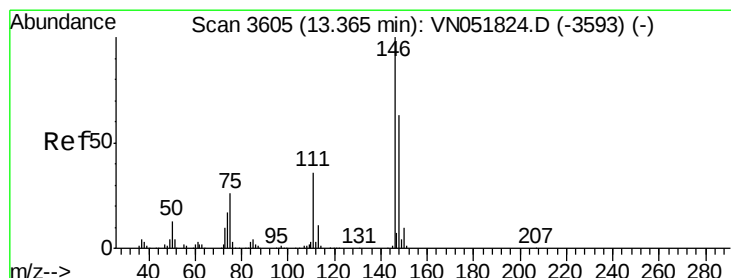
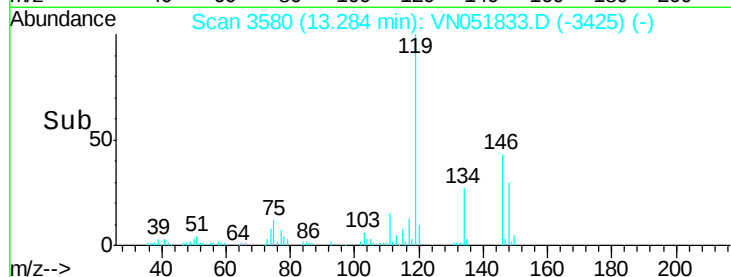
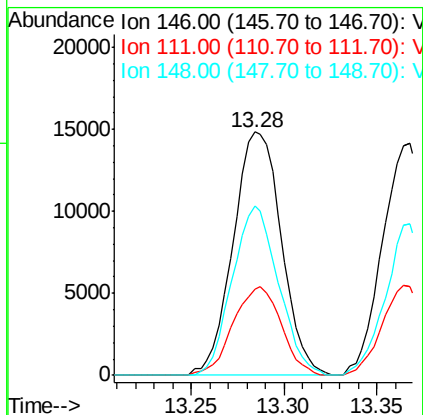
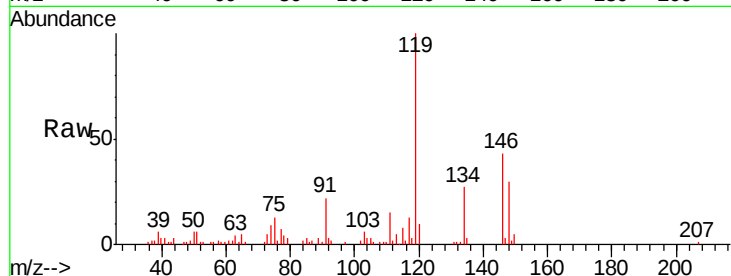
Tgt Ion:146 Resp: 26775

Ion Ratio Lower Upper

146 100

111 36.2 18.1 54.3

148 66.5 31.3 93.8



#84

1,4-Dichlorobenzene

Concen: 1.72 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

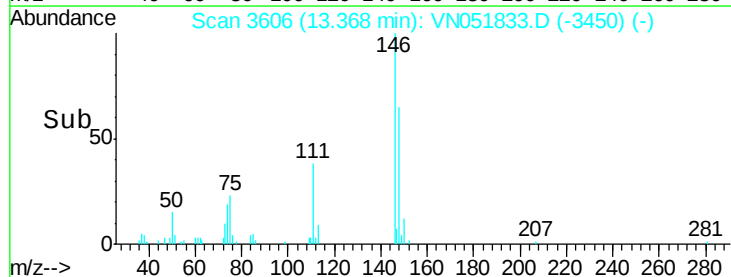
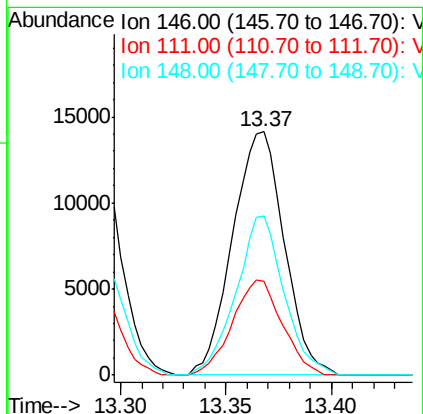
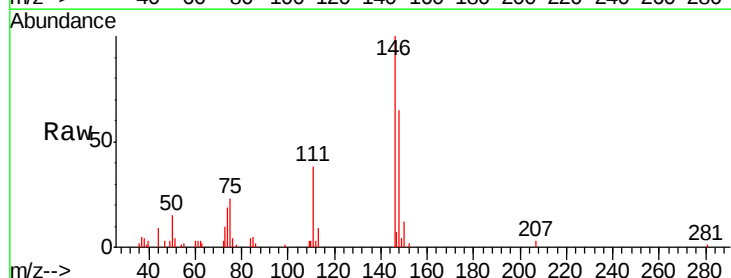
Tgt Ion:146 Resp: 24037

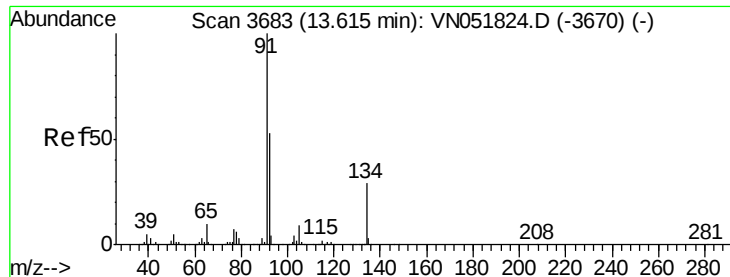
Ion Ratio Lower Upper

146 100

111 37.6 17.4 52.2

148 60.7 32.8 98.3

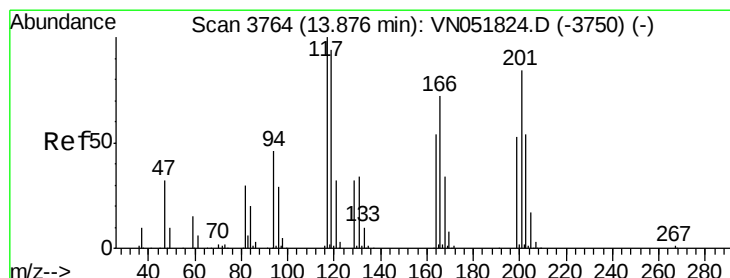
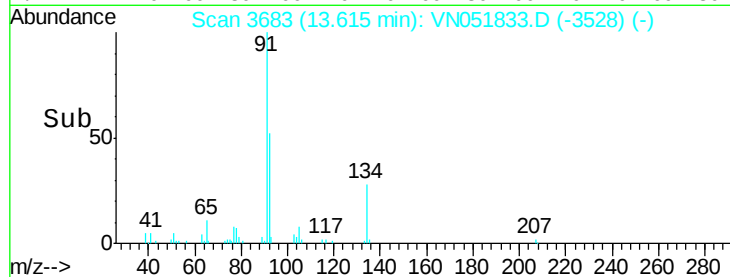
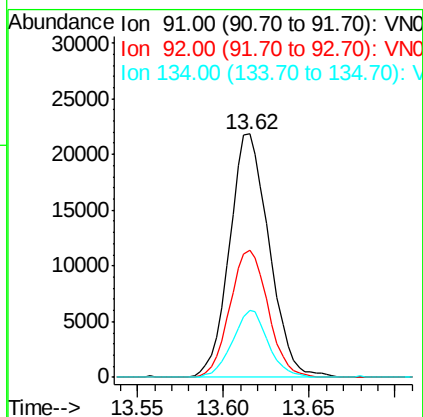
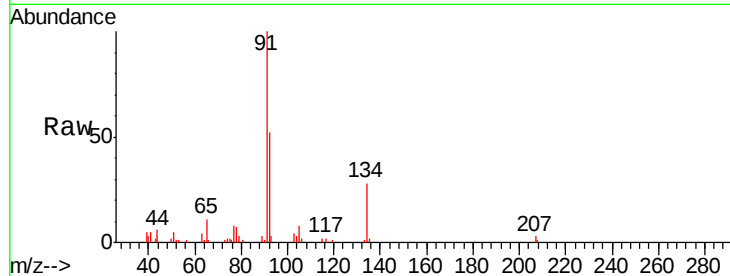




#85
n-Butylbenzene
Concen: 1.53 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

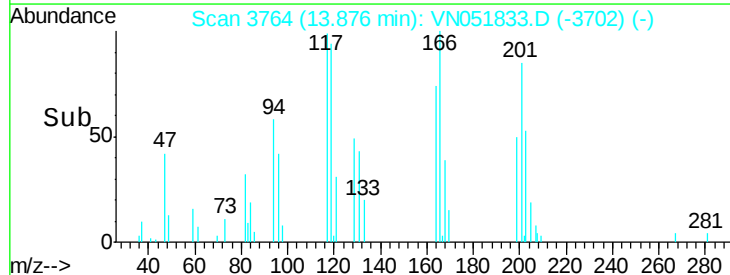
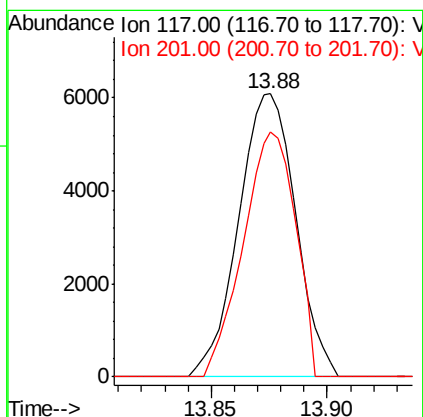
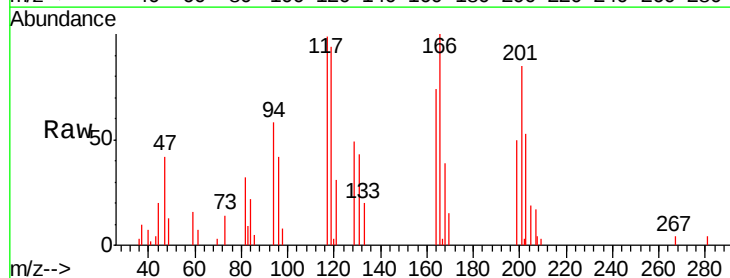
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

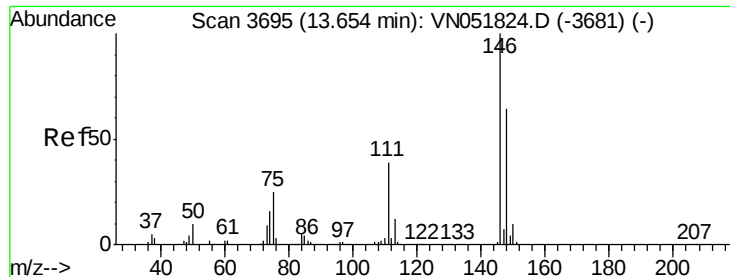
Tgt Ion: 91 Resp: 34971
Ion Ratio Lower Upper
91 100
92 50.2 0.0 97.4
134 24.7 0.0 49.6



#86
Hexachloroethane
Concen: 2.00 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN051833.D
Acq: 12 Oct 2018 15:26

Tgt Ion: 117 Resp: 10432
Ion Ratio Lower Upper
117 100
201 79.3 47.8 143.3





#87

1,2-Dichlorobenzene

Concen: 1.88 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

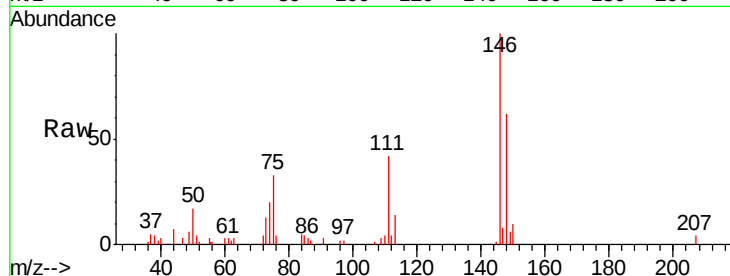
Tgt Ion:146 Resp: 26997

Ion Ratio Lower Upper

146 100

111 41.0 20.8 62.2

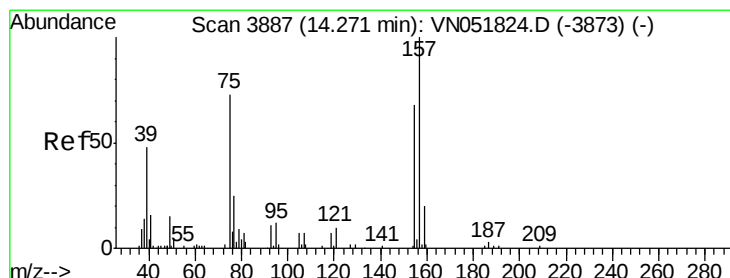
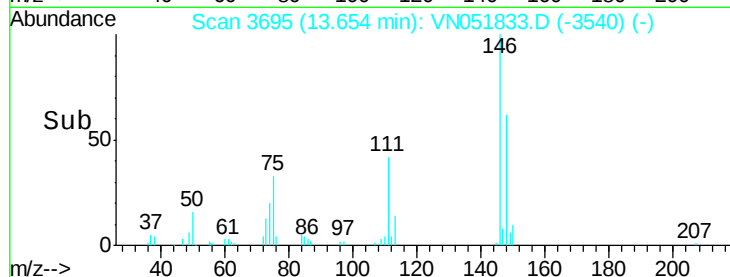
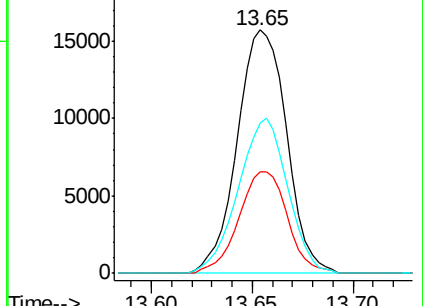
148 63.6 33.2 99.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 1.86 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

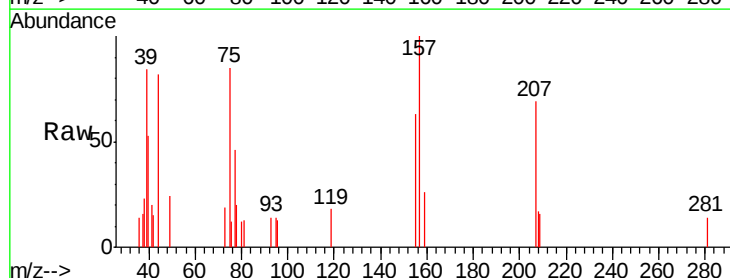
Tgt Ion: 75 Resp: 1864

Ion Ratio Lower Upper

75 100

155 82.2 57.0 85.6

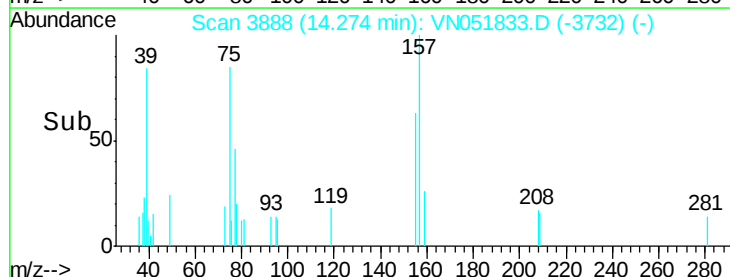
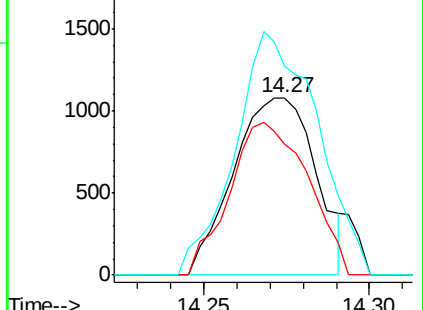
157 137.8 87.4 131.0#

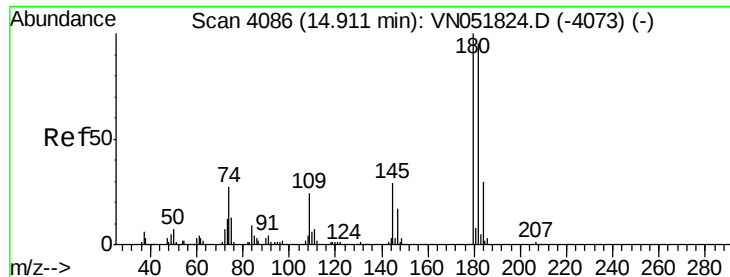


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

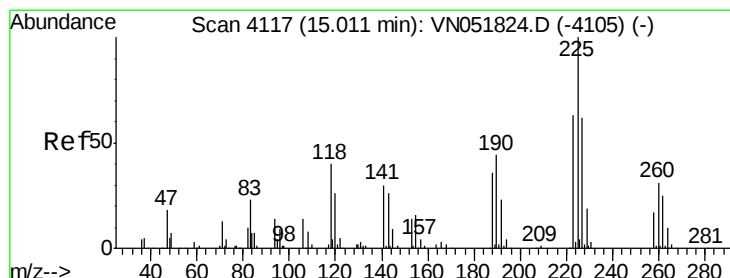
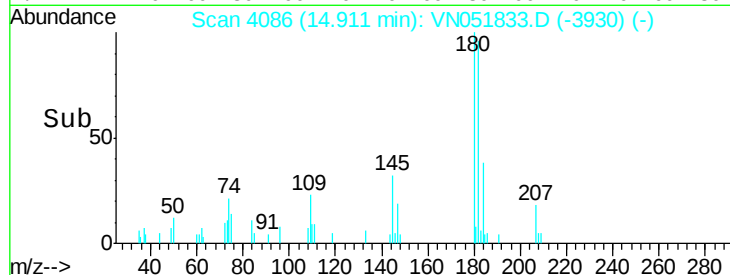
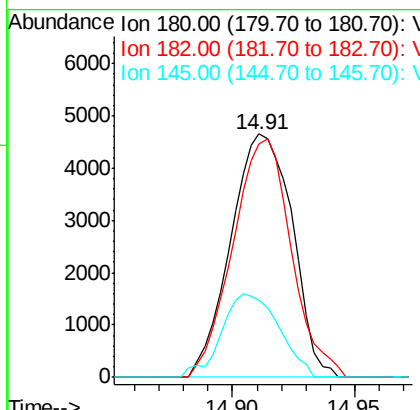
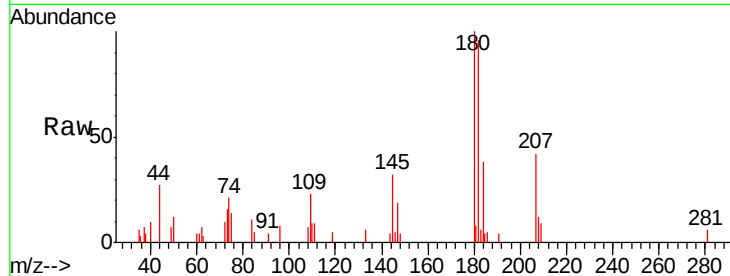




#89
 1,2,4-Trichlorobenzene
 Concen: 8.58 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

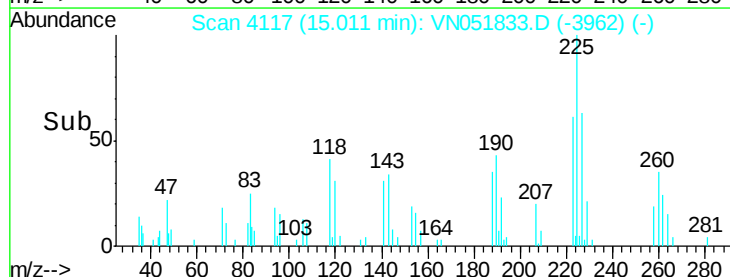
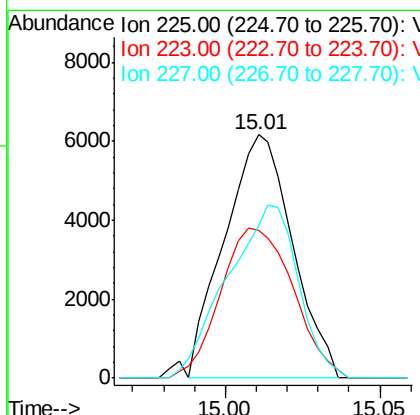
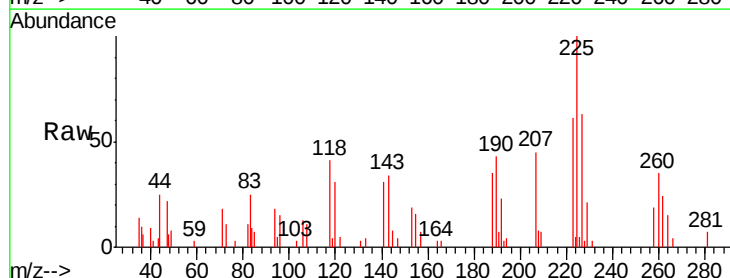
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

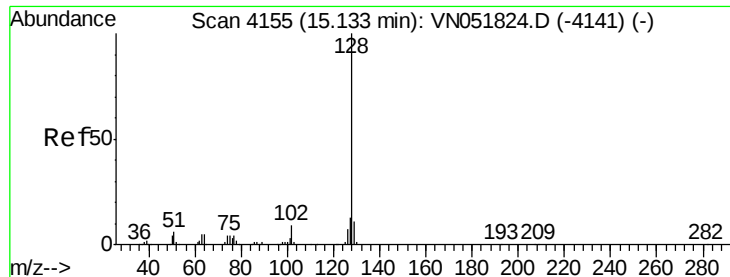
Tgt Ion:180 Resp: 8125
 Ion Ratio Lower Upper
 180 100
 182 93.2 77.7 116.5
 145 30.7 23.4 35.2



#90
 Hexachlorobutadiene
 Concen: 2.03 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051833.D
 Acq: 12 Oct 2018 15:26

Tgt Ion:225 Resp: 9424
 Ion Ratio Lower Upper
 225 100
 223 65.9 0.0 117.0
 227 74.1 0.0 127.0





#91

Naphthalene

Concen: 9.57 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

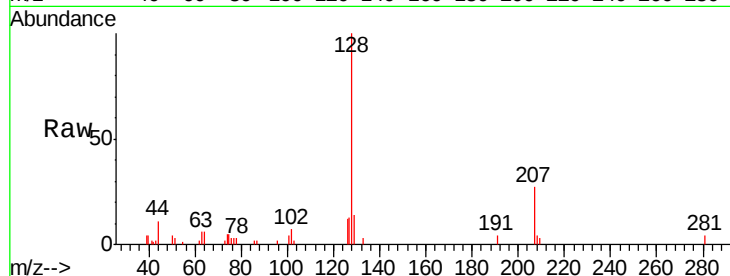
Tgt Ion:128 Resp: 20398

Ion Ratio Lower Upper

128 100

127 13.5 10.1 15.1

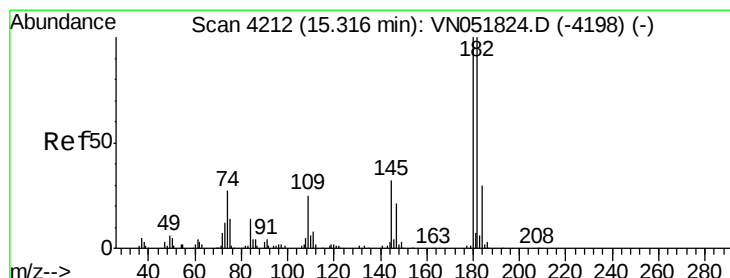
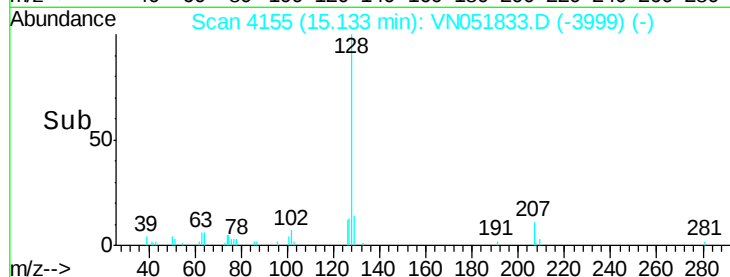
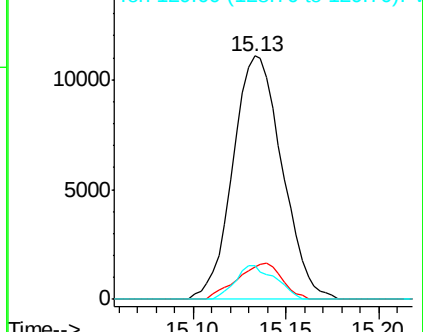
129 11.3 8.4 12.6



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



#92

1,2,3-Trichlorobenzene

Concen: 1.43 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051833.D

Acq: 12 Oct 2018 15:26

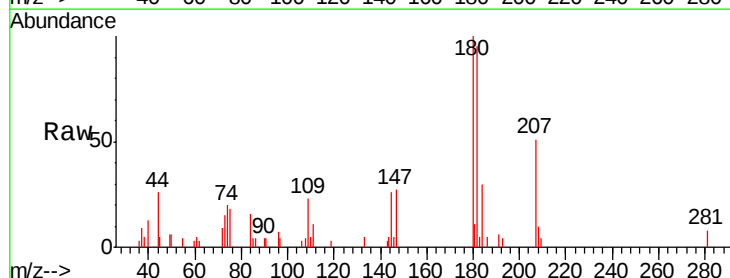
Tgt Ion:180 Resp: 9351

Ion Ratio Lower Upper

180 100

182 102.6 0.0 198.0

145 27.1 0.0 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

