

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051834.D
 Acq On : 12 Oct 2018 15:50
 Operator : MD\SY
 Sample : J5164-08 10ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Quant Time: Oct 13 01:56:05 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	129602	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	738893	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	643005	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	252122	31.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.57%
60) 4-Bromofluorobenzene	12.40	95	263153	28.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.60%
63) Toluene-d8	10.09	98	861369	30.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	52511	10.429	ug/l 99
3) Chloromethane	2.06	50	59436	11.169	ug/l 99
4) Vinyl Chloride	2.18	62	87604	11.024	ug/l 99
5) Bromomethane	2.56	94	81580	11.619	ug/l 90
6) Chloroethane	2.70	64	66442	11.601	ug/l 96
7) Trichlorofluoromethane	3.01	101	130425	11.512	ug/l 94
8) Diethyl Ether	3.41	74	36769	11.148	ug/l 75
9) 1,1,2-Trichlorotrifluoroet	3.76	101	72869	11.294	ug/l # 41
10) 1,1-Dichloroethene	3.73	96	66196	11.094	ug/l 83
11) Methyl Iodide	3.95	142	84841	9.781	ug/l 96
12) Methyl Acetate	4.33	43	44653	12.051	ug/l 99
13) Acrolein	3.62	56	17783	72.843	ug/l 97
14) Acrylonitrile	4.99	53	89734	54.186	ug/l # 61
15) Acetone	3.82	58	20710	50.589	ug/l 96
16) Carbon Disulfide	4.05	76	155388	9.916	ug/l 99
17) Allyl chloride	4.32	41	71216	10.053	ug/l 83
18) Methylene Chloride	4.55	84	75685	11.344	ug/l 90
19) trans-1,2-Dichloroethene	5.04	96	74648	10.956	ug/l # 81
20) Diisopropyl ether	5.95	45	169145	10.721	ug/l # 87
21) 1,1-Dichloroethane	5.85	63	121369	11.009	ug/l # 96
22) cis-1,2-Dichloroethene	6.83	96	87324	10.912	ug/l # 80
23) tert-Butyl Alcohol	4.80	59	23149	53.076	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	191603	11.145	ug/l # 88
25) Chloroform	7.37	83	141462	10.816	ug/l 94
26) Cyclohexane	7.65	56	101033	10.810	ug/l # 74
29) 1,1-Dichloropropene	7.79	75	98564	10.349	ug/l 94
30) 2-Butanone	6.84	43	104721	52.605	ug/l # 90
31) 2,2-Dichloropropane	6.83	77	106272	9.485	ug/l # 78
32) 1,1,1-Trichloroethane	7.57	97	128560	10.181	ug/l 95
33) Carbon Tetrachloride	7.77	117	115497	10.110	ug/l 95
34) Benzene	8.04	78	300493	10.666	ug/l # 76
35) Methacrylonitrile	7.17	41	13973	5.342	ug/l 74
36) 1,2-Dichloroethane	8.13	62	99375	11.008	ug/l 98
37) Trichloroethene	8.84	130	91221	10.431	ug/l 96
38) Methylcyclohexane	9.08	83	123637	10.121	ug/l 82
39) 1,2-Dichloropropane	9.12	63	70080	10.563	ug/l 94
40) Dibromomethane	9.21	93	52852	10.733	ug/l 98

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

41) Bromodichloromethane	9.40	83	99890	9.821	ug/l	94
42) Vinyl Acetate	5.90	43	585783	52.272	ug/l #	91
43) Ethyl Acetate	6.94	43	39304	9.093	ug/l	99
44) Isopropyl Acetate	8.17	43	90051	10.430	ug/l	99
45) 1,4-Dioxane	9.20	88	14492	209.042	ug/l #	70
46) Methyl methacrylate	9.20	41	42111	10.574	ug/l	77
48) t-1,3-Dichloropropene	10.38	75	93018	9.378	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	105445	9.644	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	71594	10.523	ug/l	95
51) Ethyl methacrylate	10.43	69	78885	10.127	ug/l	82
52) 1,3-Dichloropropane	10.71	76	109528	10.431	ug/l	100
53) Dibromochloromethane	10.90	129	77813	9.245	ug/l	97
54) 1,2-Dibromoethane	11.01	107	72345	10.130	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	163810	49.194	ug/l #	94
56) Bromoform	12.13	173	45929	8.274	ug/l #	91
58) 4-Methyl-2-Pentanone	9.99	43	237902	55.288	ug/l #	88
59) 2-Hexanone	10.75	43	144572	49.802	ug/l #	91
61) Tetrachloroethene	10.63	164	91881	11.173	ug/l	96
62) Toluene	10.16	91	340792	10.669	ug/l	96
64) Chlorobenzene	11.43	112	216222	10.335	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	80534	10.029	ug/l	98
66) Ethyl Benzene	11.51	91	369898	10.478	ug/l	99
67) m/p-Xylenes	11.62	106	292785	20.456	ug/l	100
68) o-Xylene	11.95	106	145723	10.328	ug/l	91
69) Styrene	11.97	104	208743	9.642	ug/l	97
70) Isopropylbenzene	12.25	105	390447	10.377	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	78634	10.582	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	92330	15.795	ug/l	69
73) Bromobenzene	12.53	156	88680	9.515	ug/l	86
74) n-propylbenzene	12.59	91	401926	9.931	ug/l	97
75) 2-Chlorotoluene	12.67	91	242633	10.225	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	309759	9.955	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	15130	7.826	ug/l	96
78) 4-Chlorotoluene	12.77	91	222851	9.559	ug/l	93
79) tert-butylbenzene	12.99	119	292698	10.229	ug/l	94
80) 1,2,4-Trimethylbenzene	13.04	105	309723	9.960	ug/l	98
81) sec-Butylbenzene	13.17	105	367338	9.813	ug/l	97
82) p-Isopropyltoluene	13.29	119	320420	9.566	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	147212	8.952	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	131262	8.478	ug/l	98
85) n-Butylbenzene	13.62	91	224288	8.880	ug/l	96
86) Hexachloroethane	13.88	117	50030	8.662	ug/l	88
87) 1,2-Dichlorobenzene	13.65	146	146628	9.209	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10718	9.659	ug/l #	90
89) 1,2,4-Trichlorobenzene	14.91	180	45515	12.059	ug/l	96
90) Hexachlorobutadiene	15.01	225	49591	9.665	ug/l	97
91) Naphthalene	15.13	128	93324	12.819	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	50398	6.957	ug/l	91

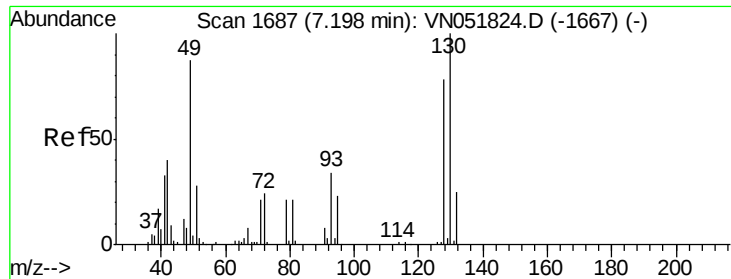
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

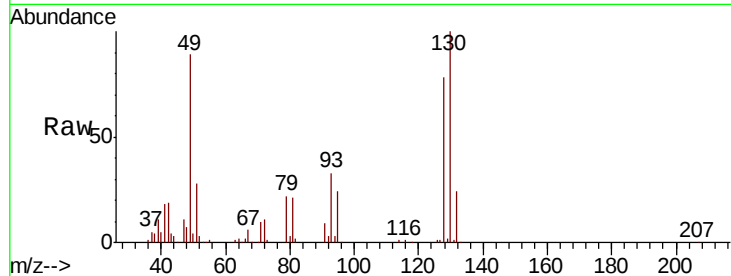
Tot Ion:128 Resp: 129602

Ion Ratio Lower Upper

128 100

49 115.9 0.0 403.3

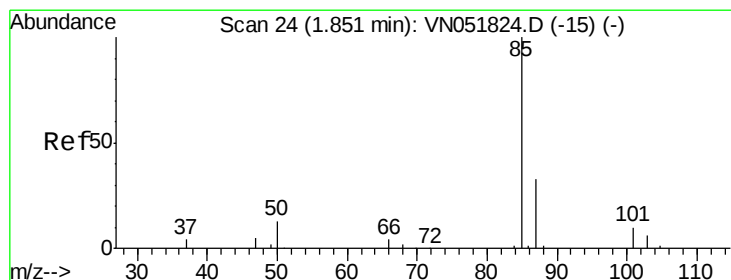
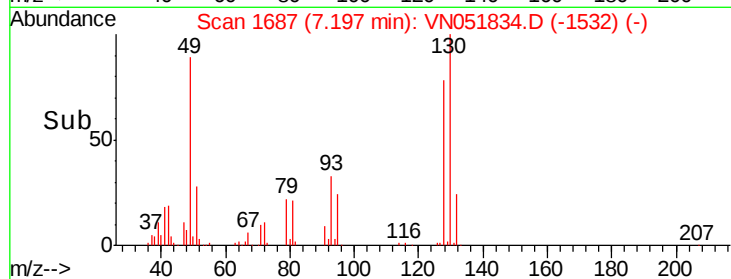
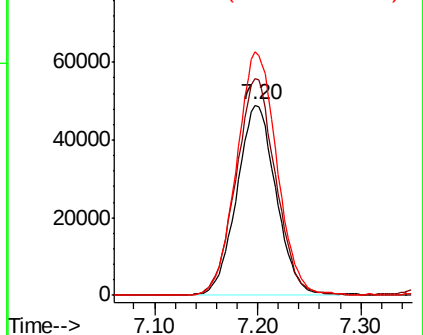
130 130.7 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.429 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051834.D

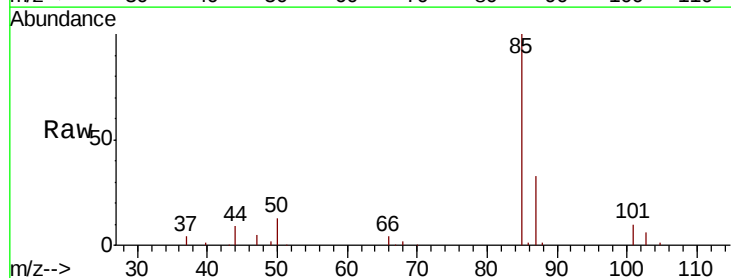
Acq: 12 Oct 2018 15:50

Tgt Ion: 85 Resp: 52511

Ion Ratio Lower Upper

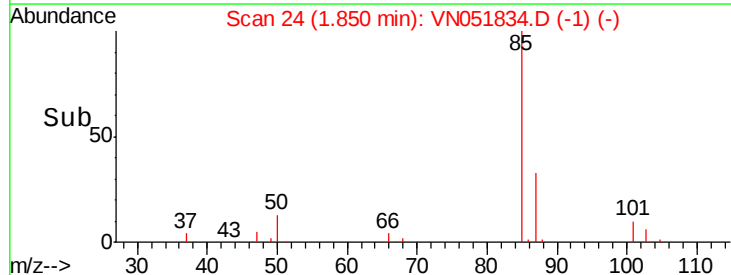
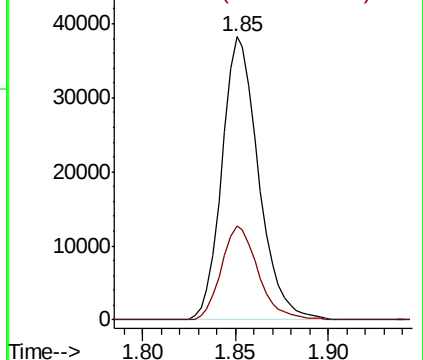
85 100

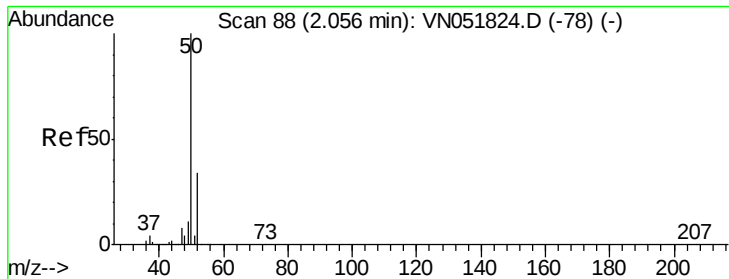
87 33.1 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 11.169 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

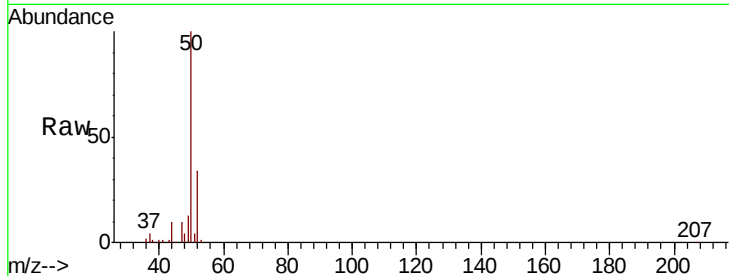
LOQ-WATER-02-QT4-2018

Tot Ion: 50 Resp: 59436

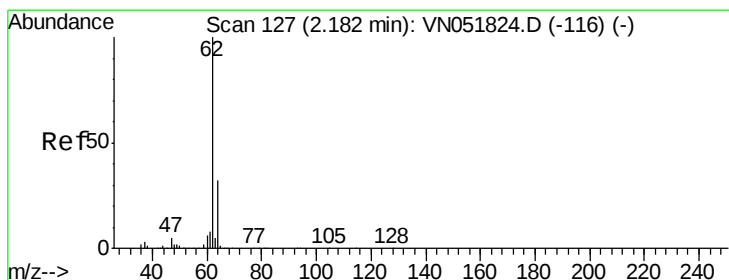
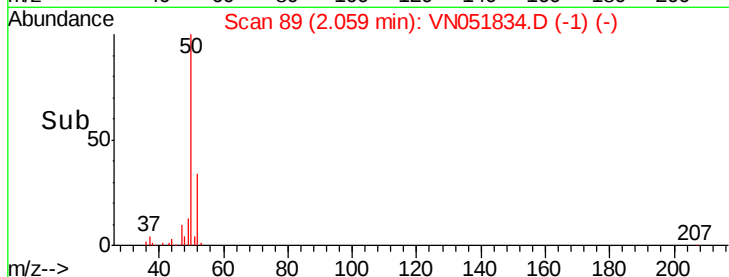
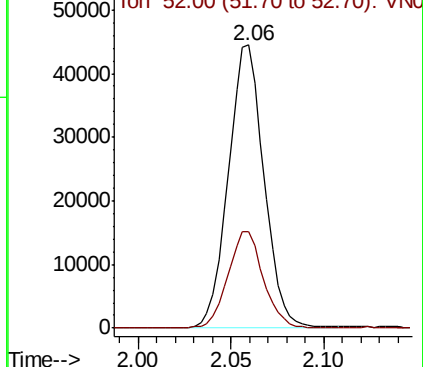
Ion Ratio Lower Upper

50 100

52 34.3 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): VN051824.D (-78) (-)



#4

Vinyl Chloride

Concen: 11.024 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051834.D

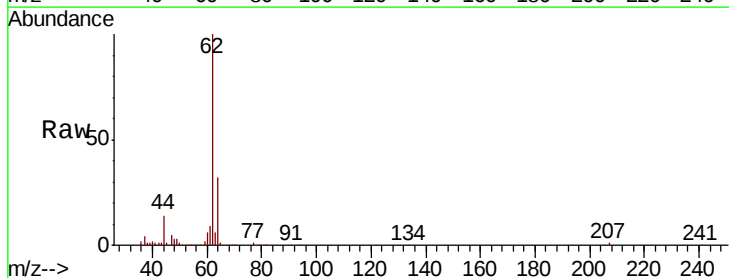
Acq: 12 Oct 2018 15:50

Tgt Ion: 62 Resp: 87604

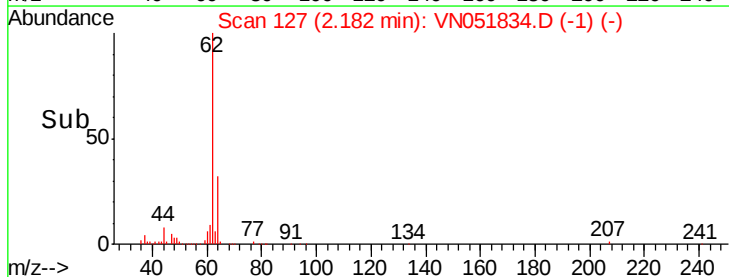
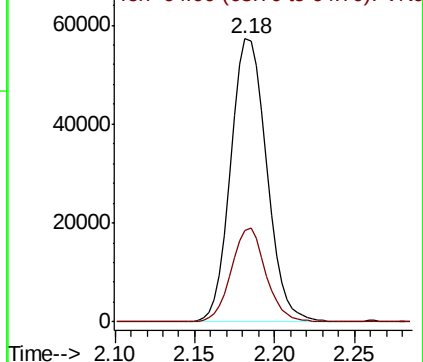
Ion Ratio Lower Upper

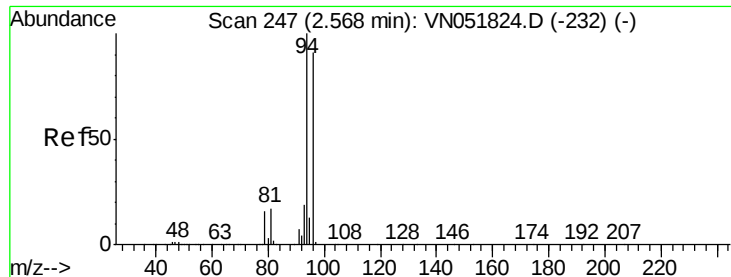
62 100

64 32.5 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VN051824.D (-116) (-)





#5

Bromomethane

Concen: 11.619 ug/l

RT: 2.56 min Scan# 244

Delta R.T. -0.01 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

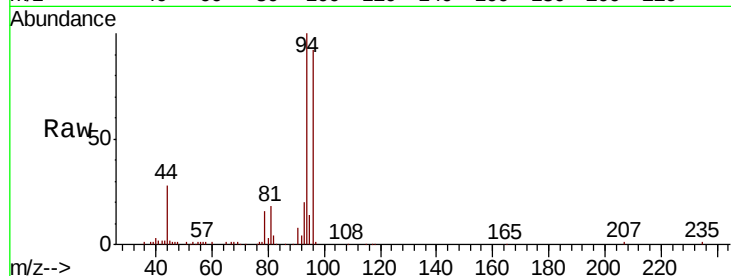
LOQ-WATER-02-QT4-2018

Tot Ion: 94 Resp: 81580

Ion Ratio Lower Upper

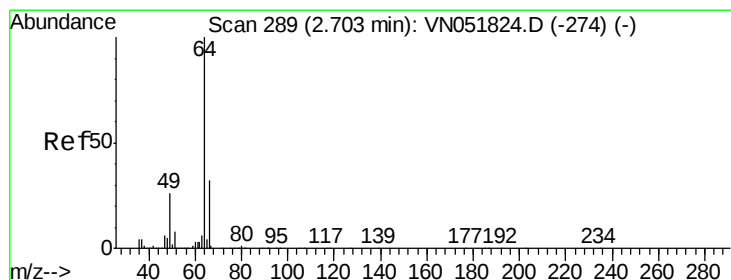
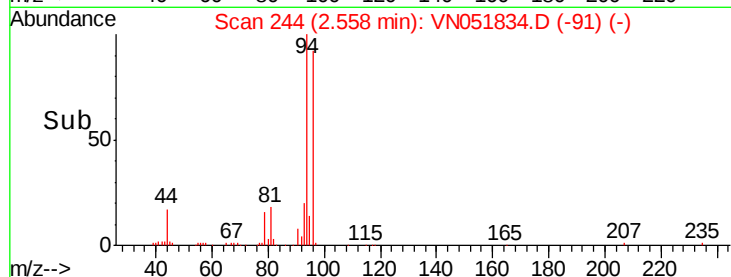
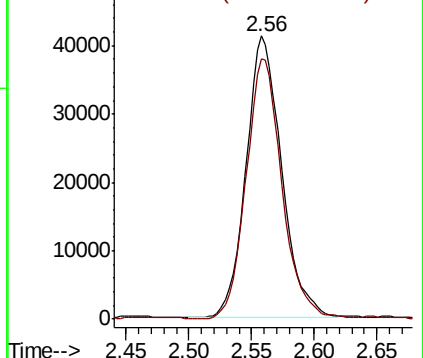
94 100

96 92.3 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 11.601 ug/l

RT: 2.70 min Scan# 288

Delta R.T. -0.00 min

Lab File: VN051834.D

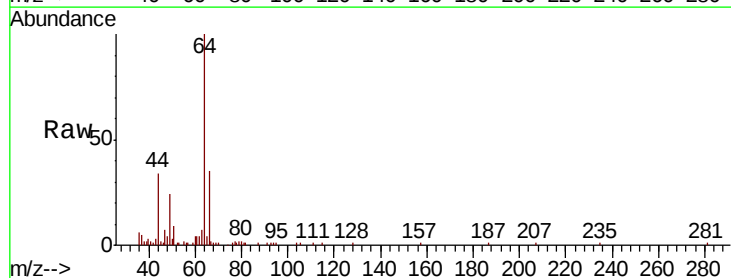
Acq: 12 Oct 2018 15:50

Tgt Ion: 64 Resp: 66442

Ion Ratio Lower Upper

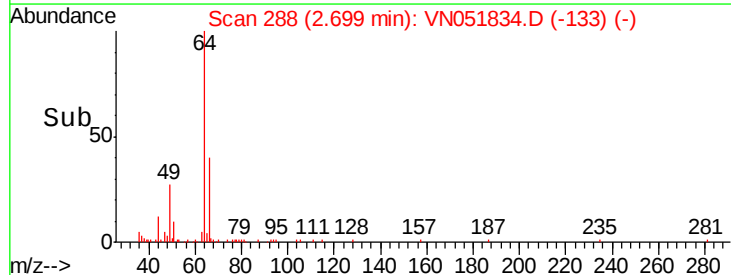
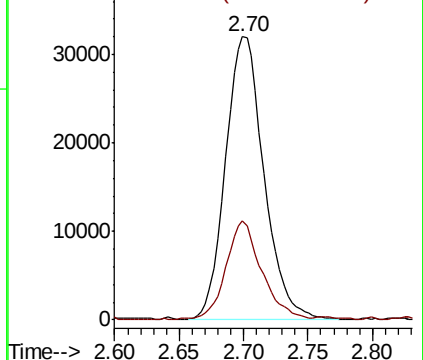
64 100

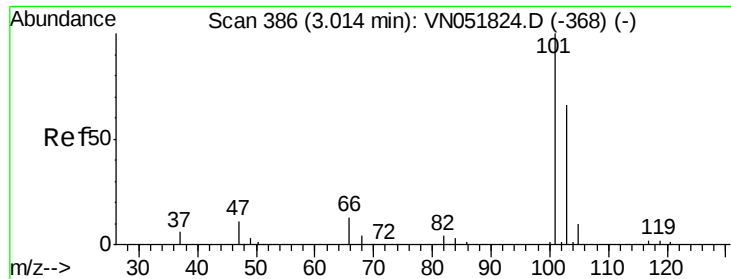
66 34.2 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



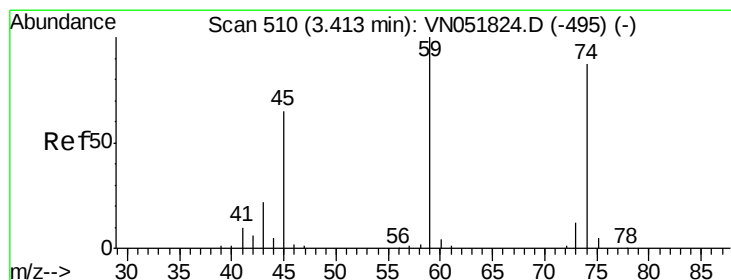
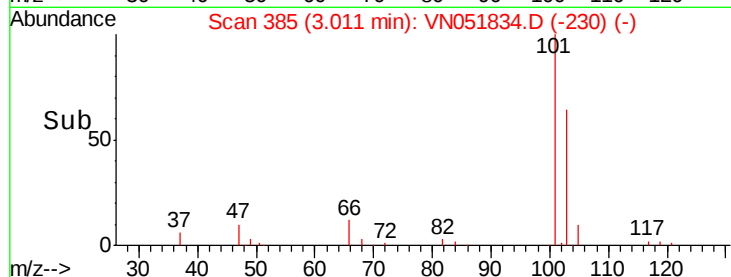
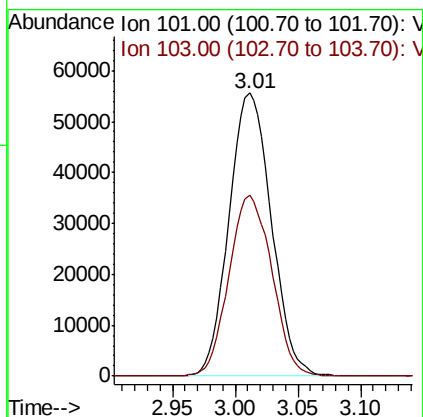
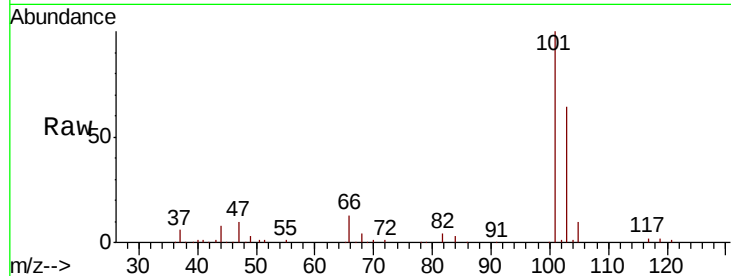


#7

Trichlorofluoromethane
 Concen: 11.512 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

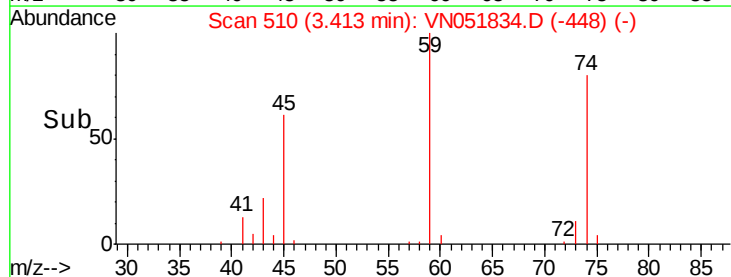
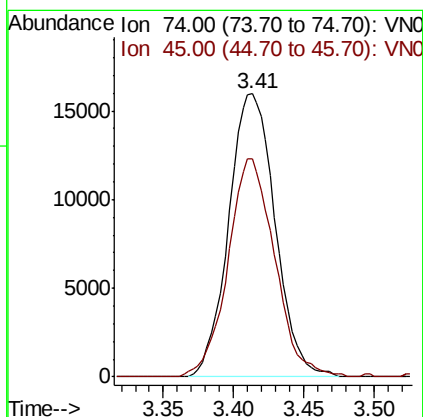
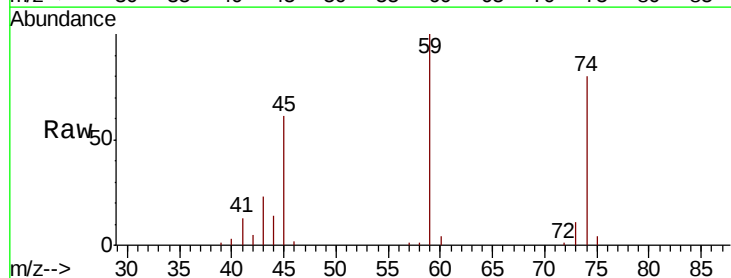
Tot Ion:101 Resp: 130425
 Ion Ratio Lower Upper
 101 100
 103 64.0 54.8 82.2

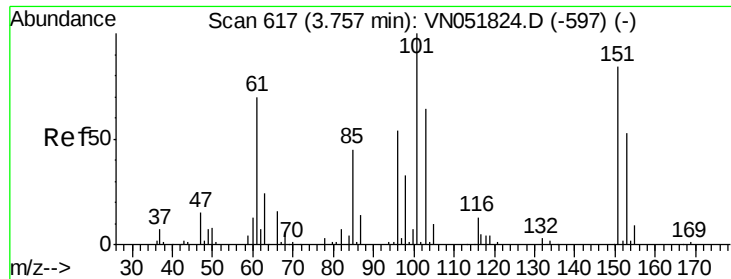


#8

Diethyl Ether
 Concen: 11.148 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 74 Resp: 36769
 Ion Ratio Lower Upper
 74 100
 45 77.6 20.7 186.5

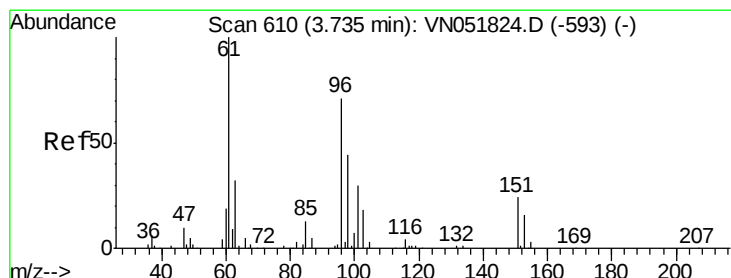
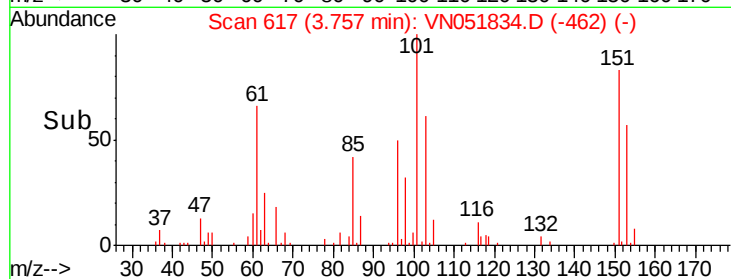
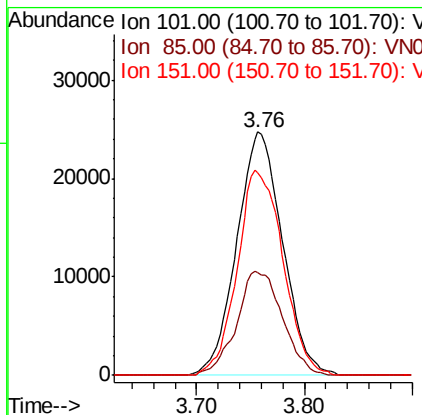
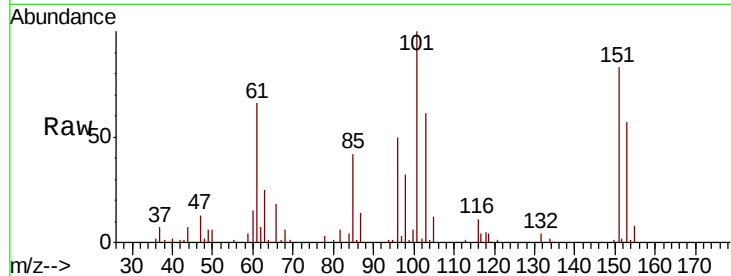




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.294 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

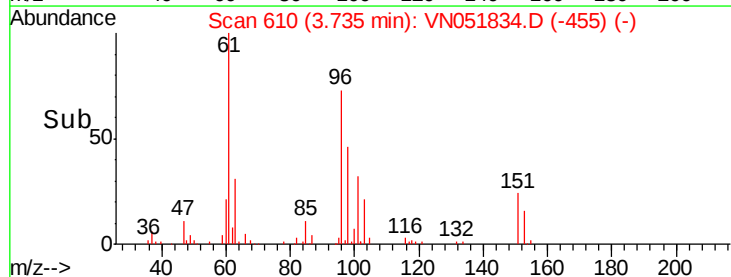
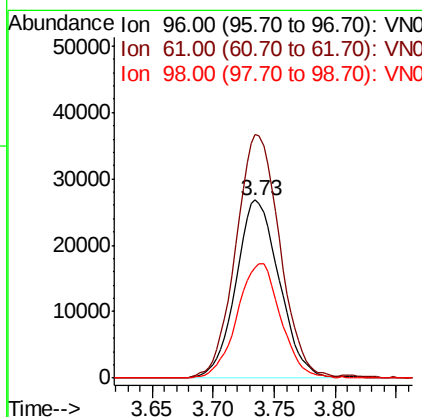
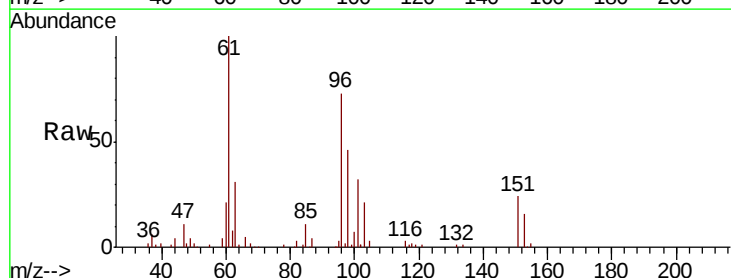
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

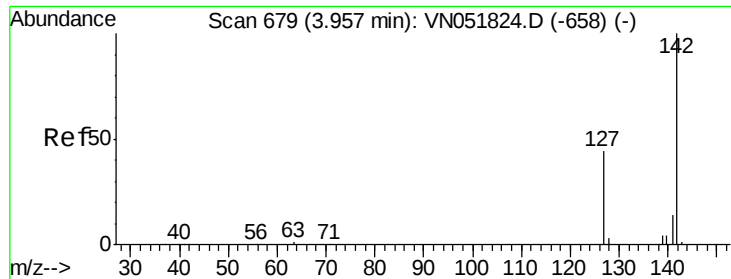
Tot Ion:101 Resp: 72869
 Ion Ratio Lower Upper
 101 100
 85 42.8 0.0 46.0
 151 84.3 0.0 82.2#



#10
 1,1-Dichloroethene
 Concen: 11.094 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 96 Resp: 66196
 Ion Ratio Lower Upper
 96 100
 61 136.7 133.0 199.6
 98 62.2 52.6 78.8

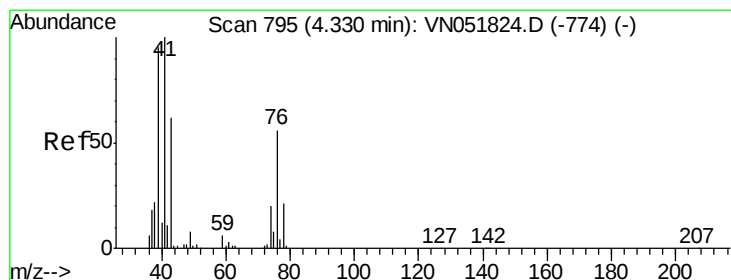
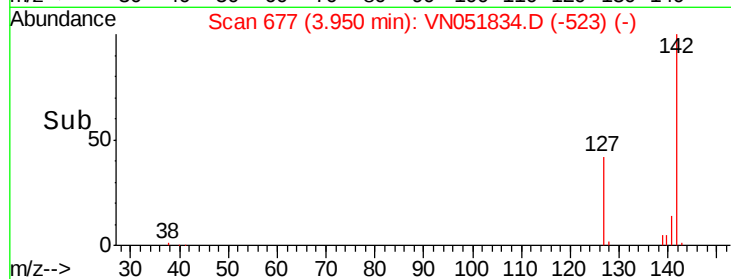
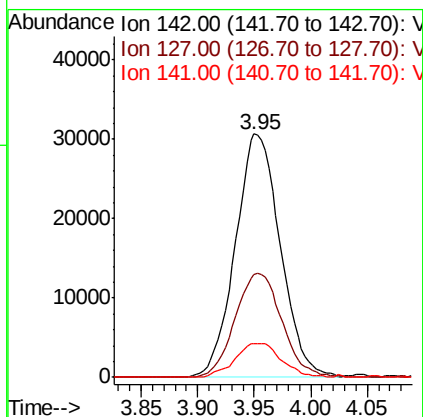
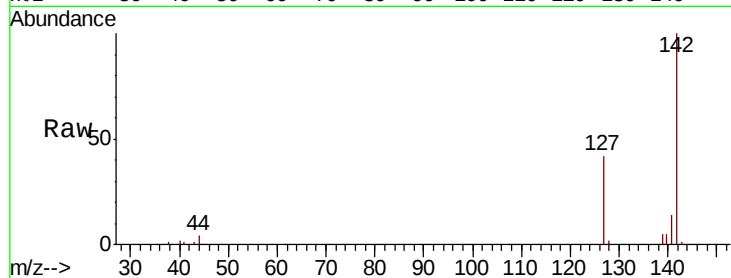




#11
Methvl Iodide
Concen: 9.781 ug/l
RT: 3.95 min Scan# 677
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

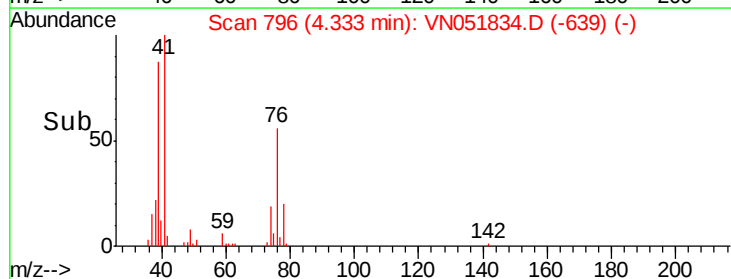
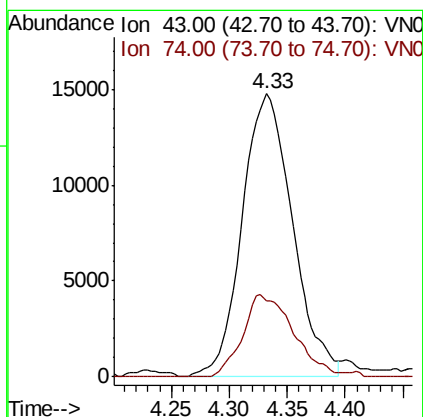
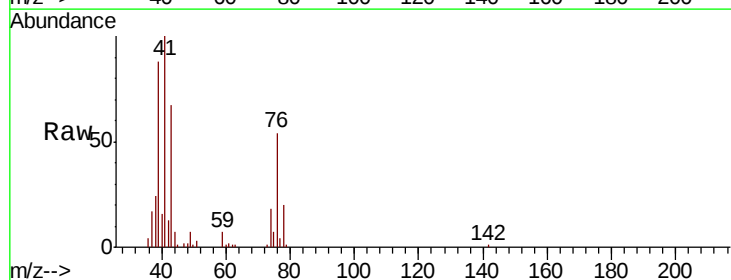
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

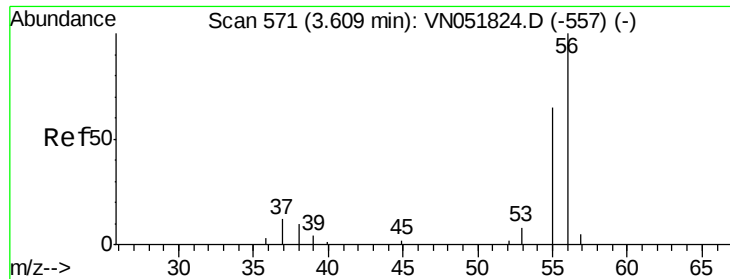
Tot Ion:142 Resp: 84841
Ion Ratio Lower Upper
142 100
127 42.1 19.7 59.0
141 13.4 6.3 18.9



#12
Methyl Acetate
Concen: 12.051 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 43 Resp: 44653
Ion Ratio Lower Upper
43 100
74 26.6 21.8 32.6





#13

Acrolein

Concen: 72.843 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

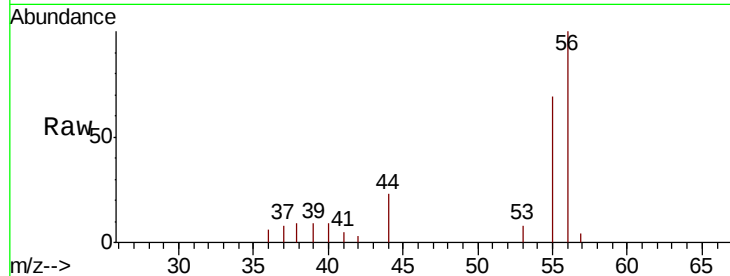
LOQ-WATER-02-QT4-2018

Tot Ion: 56 Resp: 17783

Ion Ratio Lower Upper

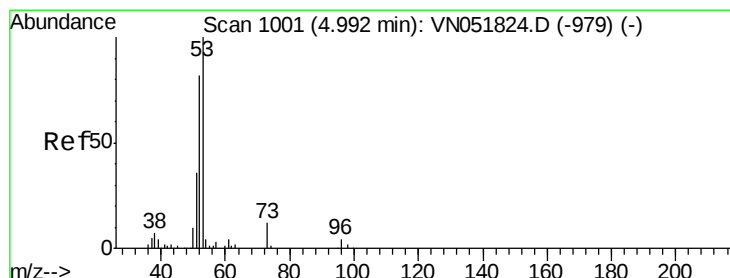
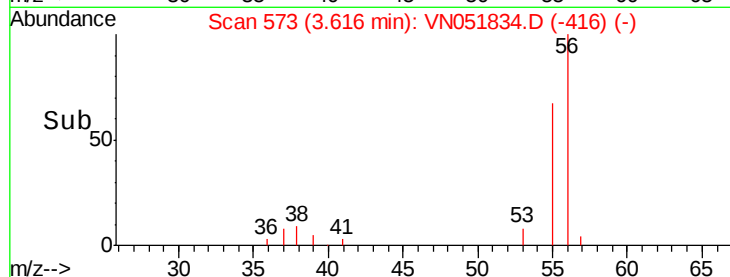
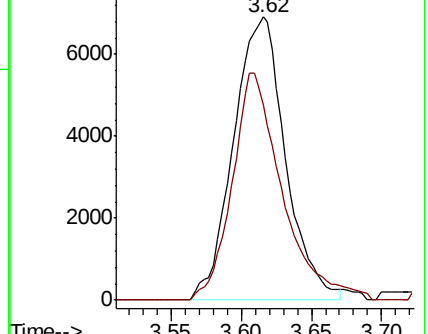
56 100

55 77.4 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 54.186 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

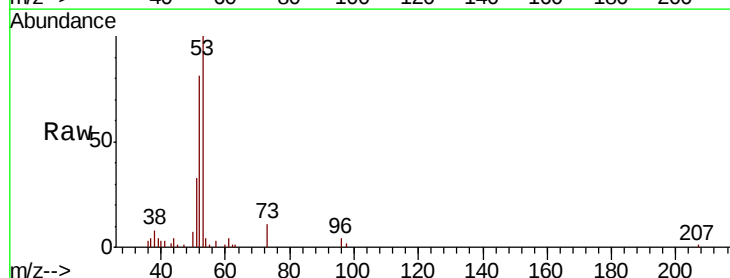
Tgt Ion: 53 Resp: 89734

Ion Ratio Lower Upper

53 100

52 82.0 18.3 54.8#

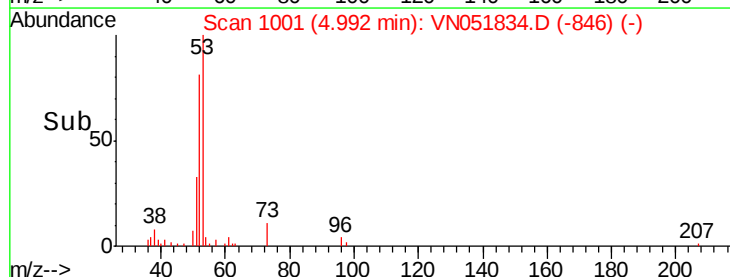
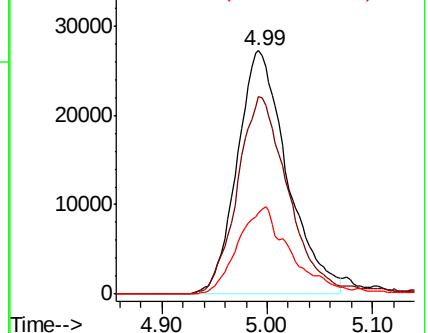
51 37.5 19.7 59.1

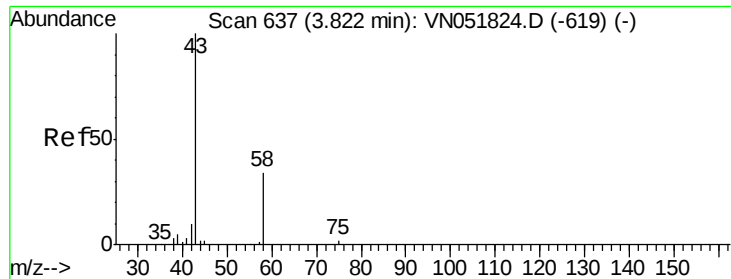


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 50.589 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

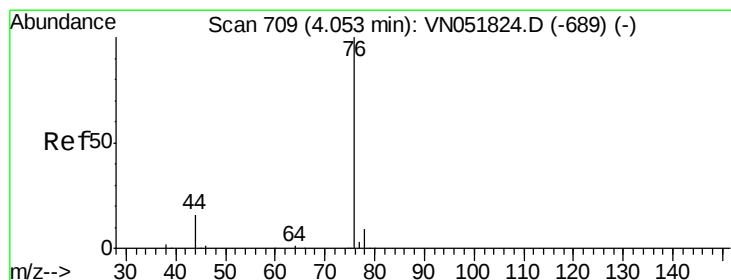
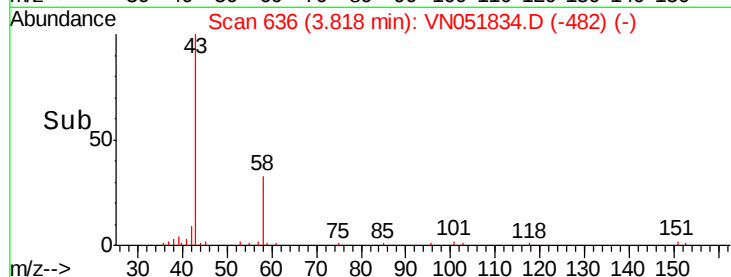
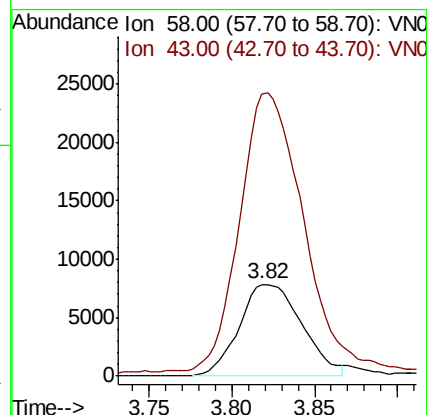
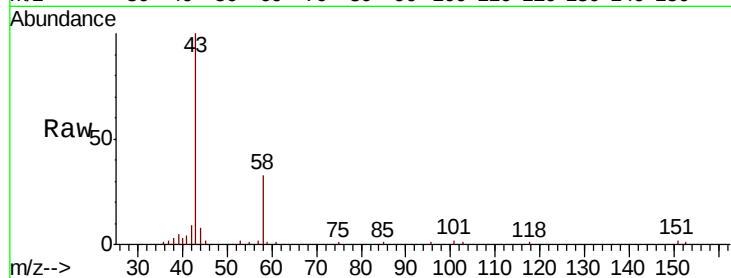
LOQ-WATER-02-QT4-2018

Tot Ion: 58 Resp: 20710

Ion Ratio Lower Upper

58 100

43 298.7 232.2 348.2



#16

Carbon Disulfide

Concen: 9.916 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN051834.D

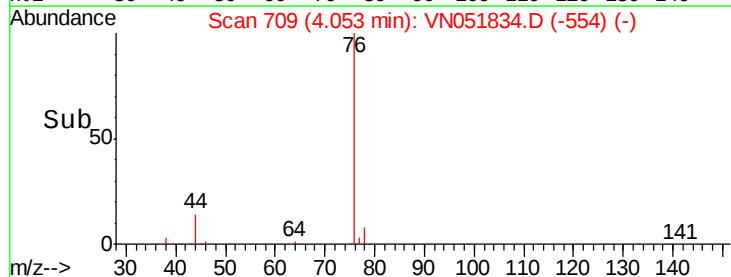
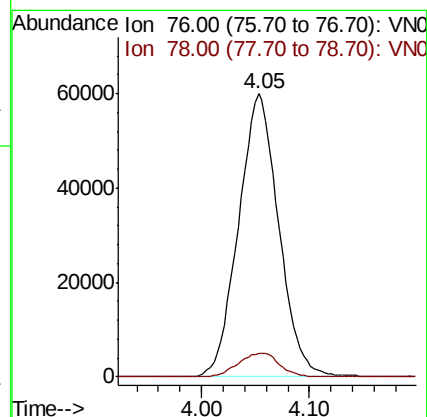
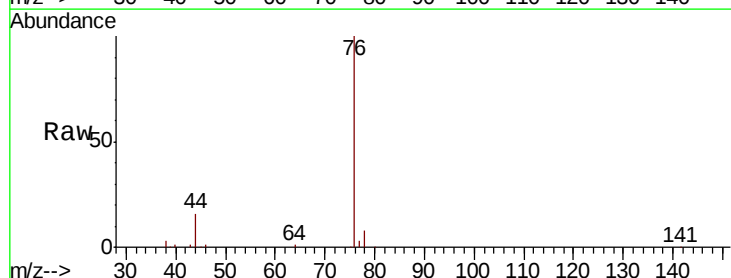
Acq: 12 Oct 2018 15:50

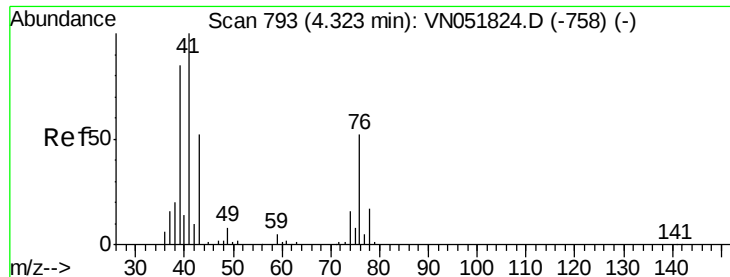
Tgt Ion: 76 Resp: 155388

Ion Ratio Lower Upper

76 100

78 8.2 6.7 10.1

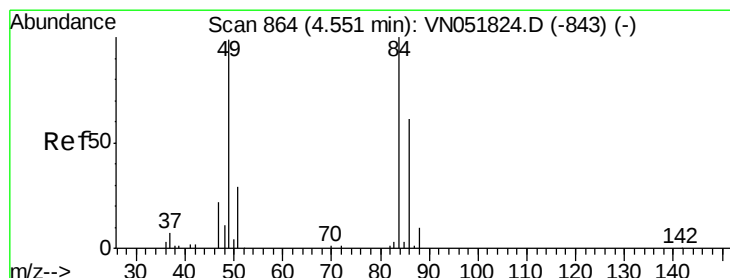
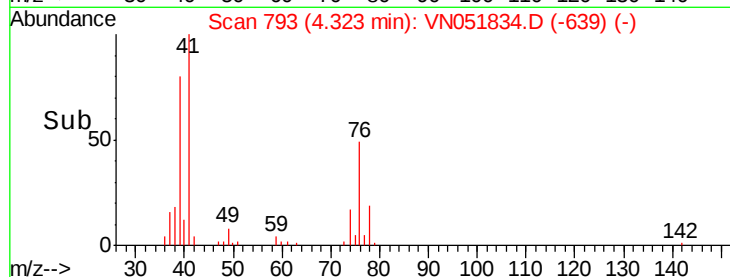
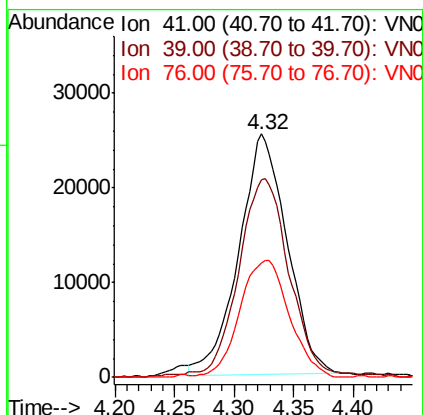
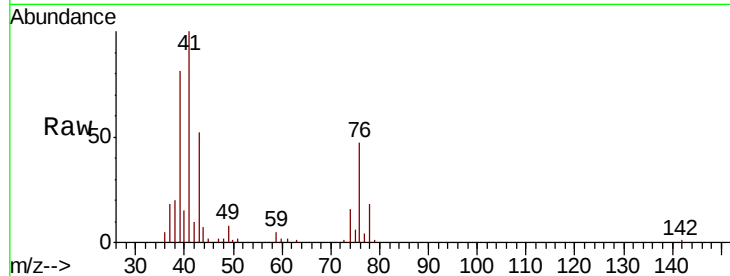




#17
Allvl chloride
Concen: 10.053 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

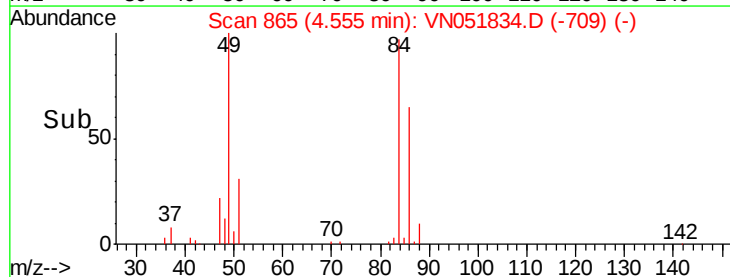
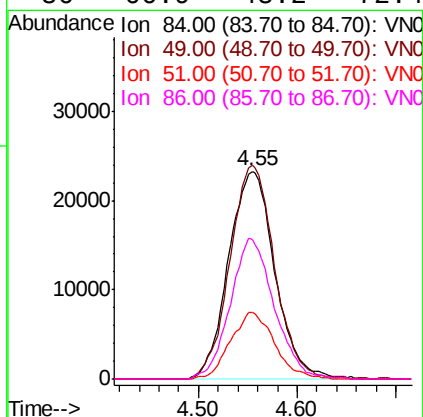
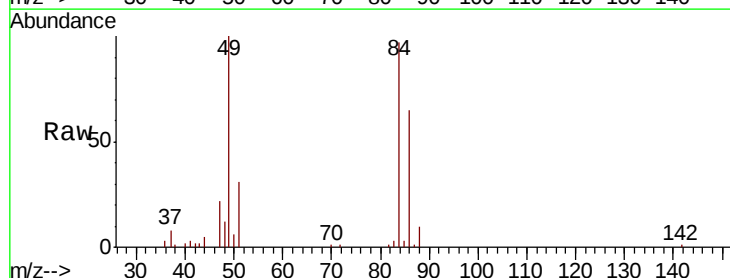
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

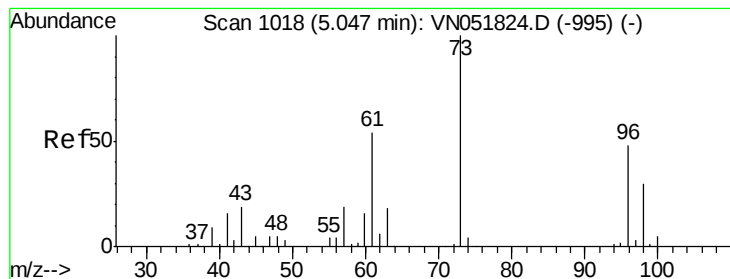
Tot Ion: 41 Resp: 71216
Ion Ratio Lower Upper
41 100
39 80.9 32.6 97.8
76 48.0 20.2 60.5



#18
Methylene Chloride
Concen: 11.344 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 84 Resp: 75685
Ion Ratio Lower Upper
84 100
49 102.7 91.6 137.4
51 32.2 29.8 44.6
86 66.9 48.2 72.4





#19

trans-1,2-Dichloroethene

Concen: 10.956 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

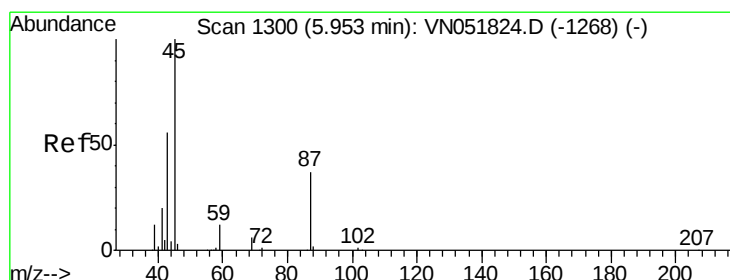
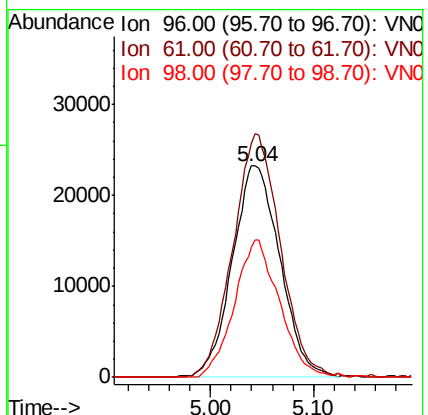
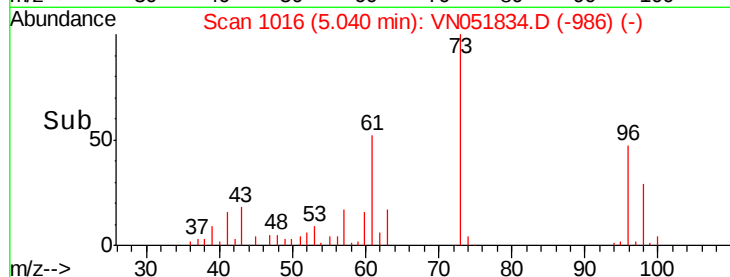
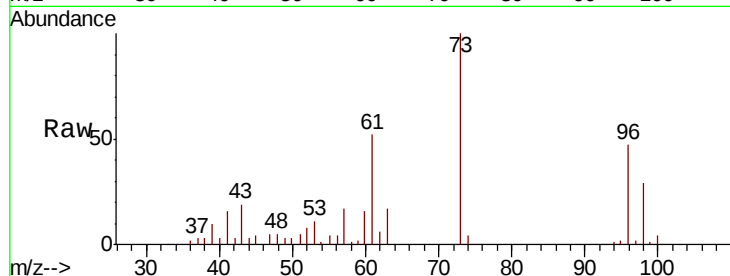
Tot Ion: 96 Resp: 74648

Ion Ratio Lower Upper

96 100

61 109.4 112.3 168.5#

98 61.6 47.1 70.7



#20

Diisopropyl ether

Concen: 10.721 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion: 45 Resp: 169145

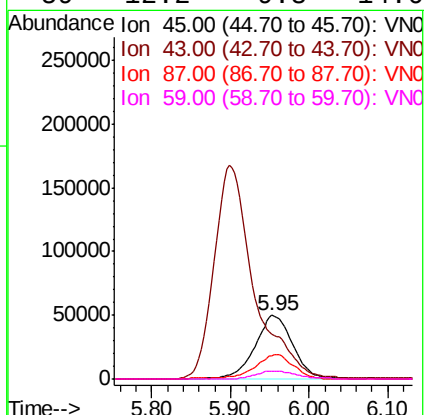
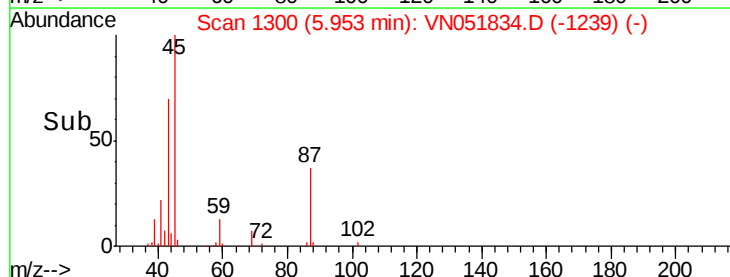
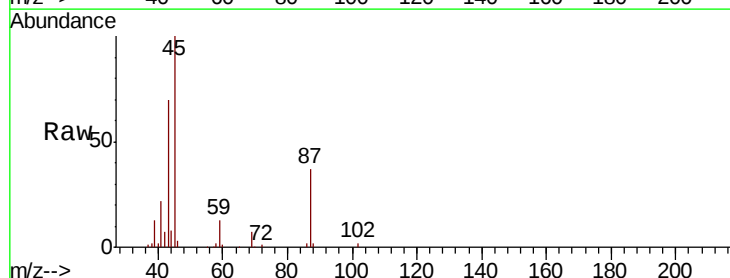
Ion Ratio Lower Upper

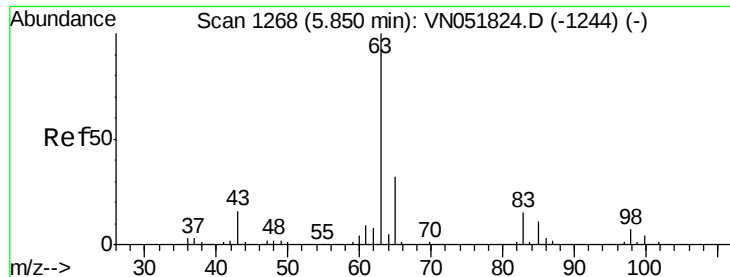
45 100

43 67.1 62.1 93.1

87 36.7 19.9 29.9#

59 12.2 9.8 14.6





#21

1,1-Dichloroethane

Concen: 11.009 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

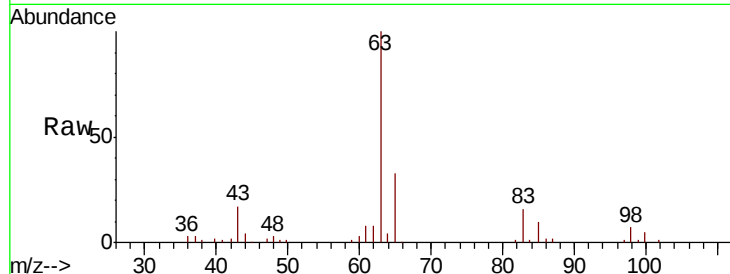
Tot Ion: 63 Resp: 121369

Ion Ratio Lower Upper

63 100

98 7.0 4.1 12.3

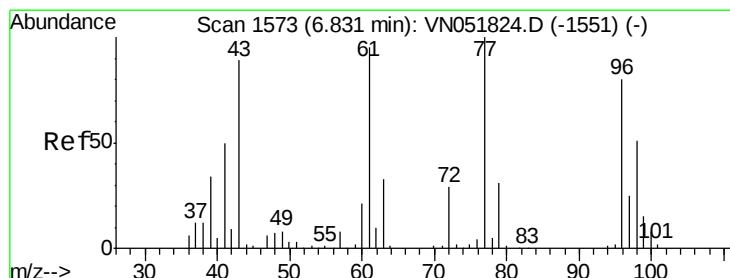
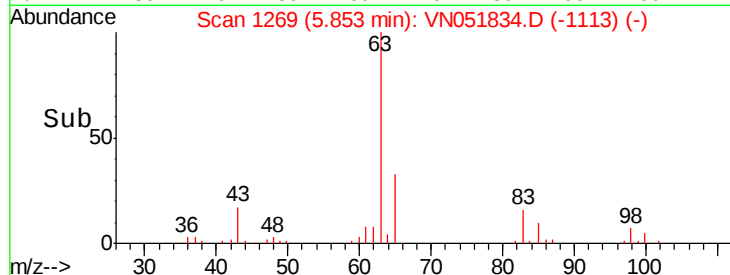
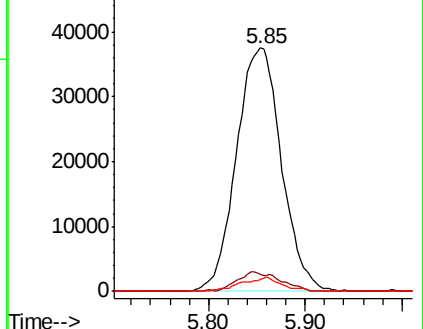
100 4.7 1.6 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VN051834.D (-1268) (-)

Ion 98.00 (97.70 to 98.70): VN051834.D (-1268) (-)

Ion 100.00 (99.70 to 100.70): VN051834.D (-1268) (-)



#22

cis-1,2-Dichloroethene

Concen: 10.912 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

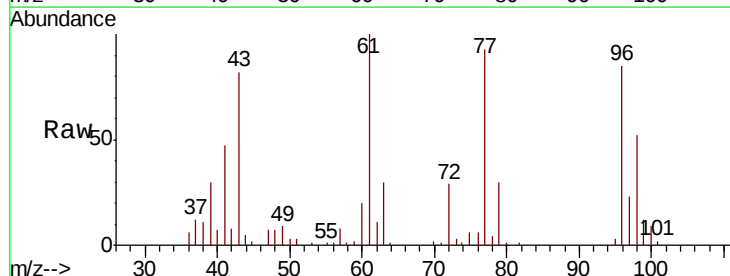
Tgt Ion: 96 Resp: 87324

Ion Ratio Lower Upper

96 100

61 119.0 124.5 186.7#

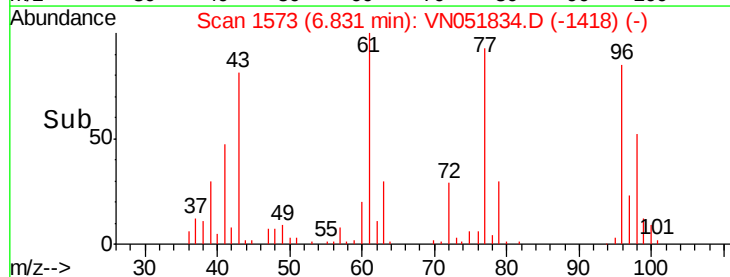
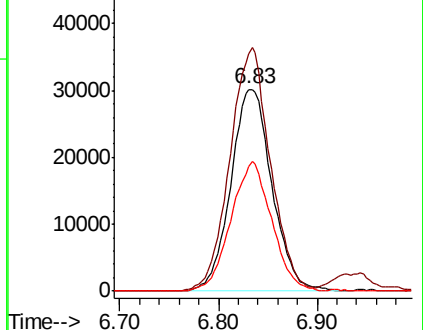
98 63.8 51.9 77.9

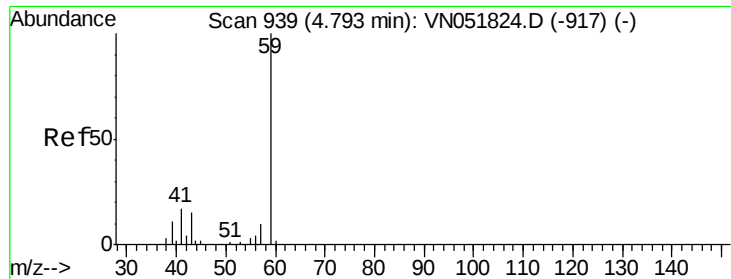


Abundance Ion 96.00 (95.70 to 96.70): VN051834.D (-1573) (-)

Ion 61.00 (60.70 to 61.70): VN051834.D (-1573) (-)

Ion 98.00 (97.70 to 98.70): VN051834.D (-1573) (-)



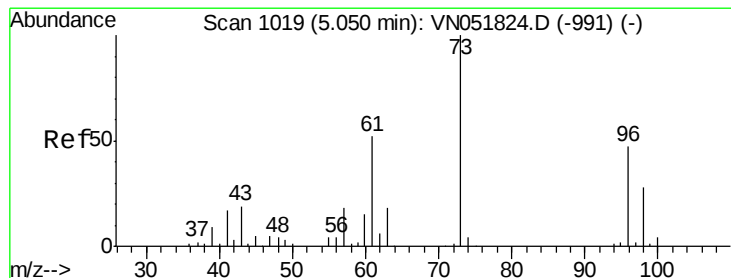
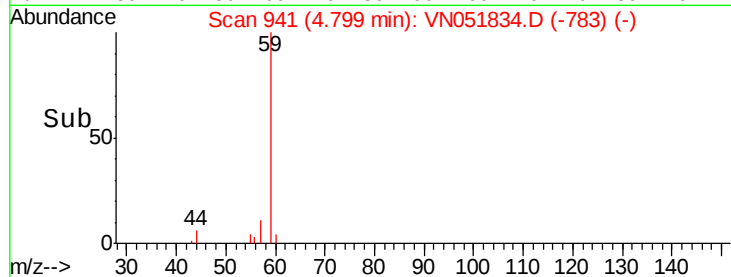
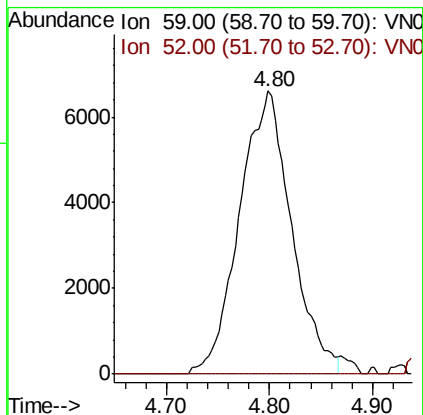
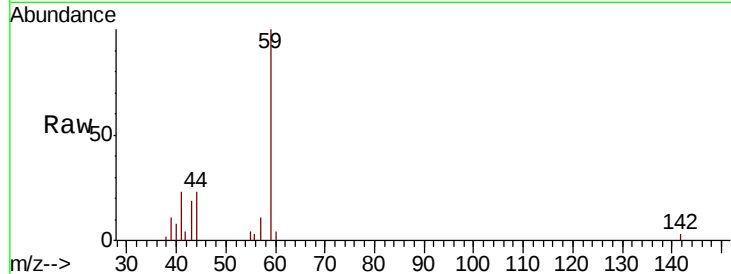


#23

tert-Butyl Alcohol
 Concen: 53.076 ug/l
 RT: 4.80 min Scan# 941
 Delta R.T. 0.01 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

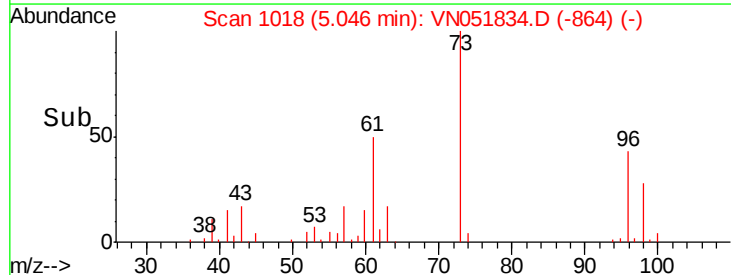
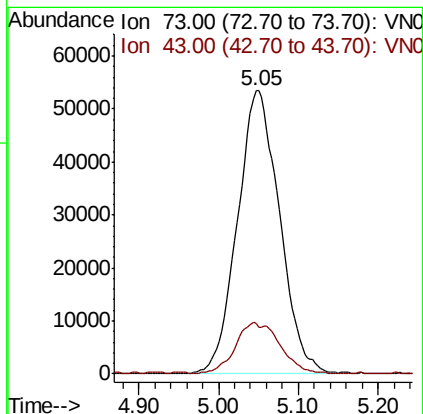
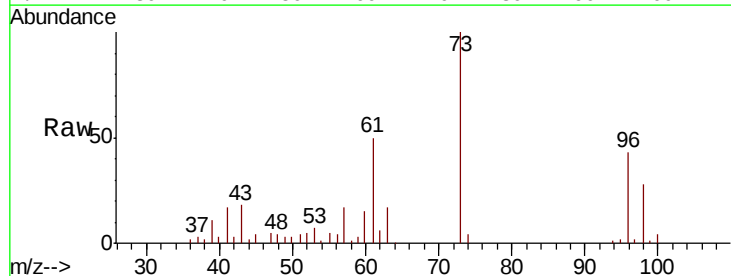
Tot Ion: 59 Resp: 23149
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

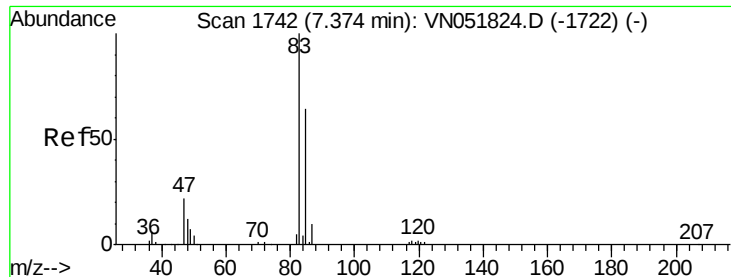


#24

Methyl tert-Butyl Ether
 Concen: 11.145 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 73 Resp: 191603
 Ion Ratio Lower Upper
 73 100
 43 10.9 5.4 8.0#





#25

Chloroform

Concen: 10.816 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

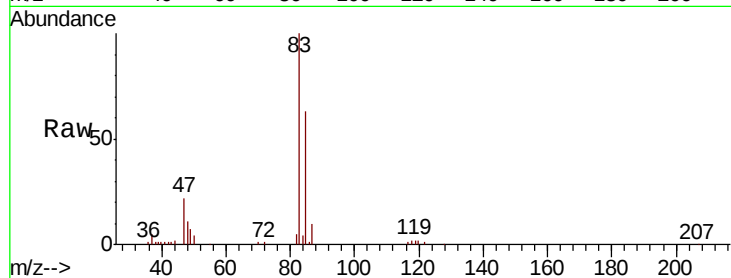
LOQ-WATER-02-QT4-2018

Tot Ion: 83 Resp: 141462

Ion Ratio Lower Upper

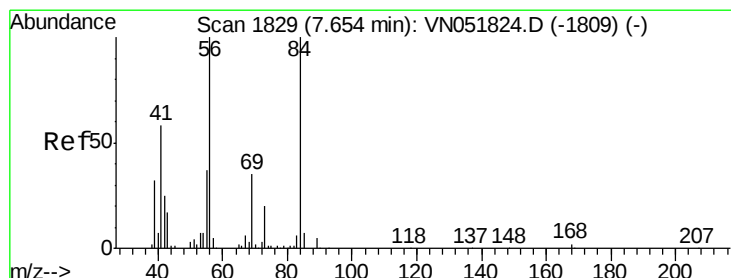
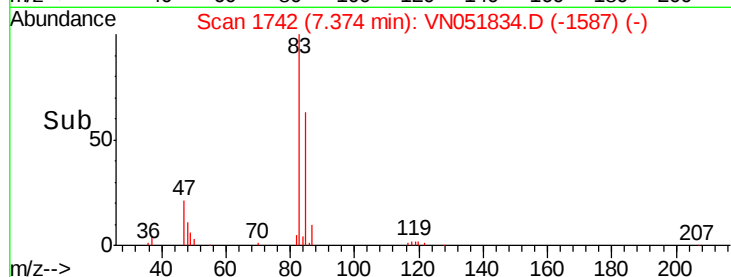
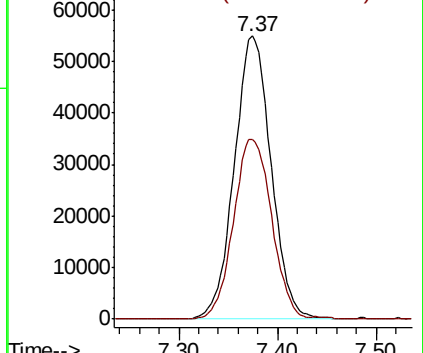
83 100

85 63.5 54.6 82.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#26

Cyclohexane

Concen: 10.810 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

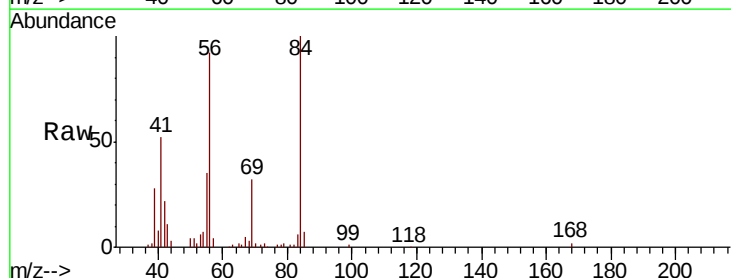
Tgt Ion: 56 Resp: 101033

Ion Ratio Lower Upper

56 100

89 0.1 1.5 2.3#

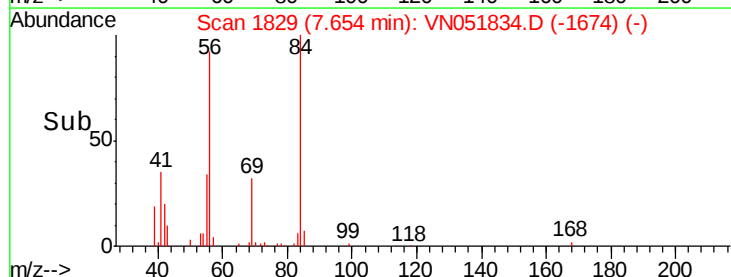
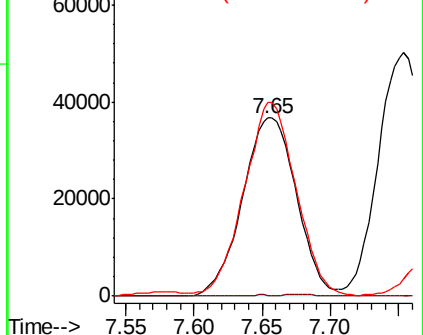
84 103.5 64.2 96.4#

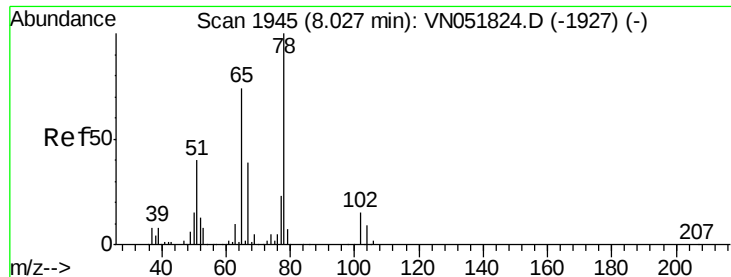


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 10.810 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

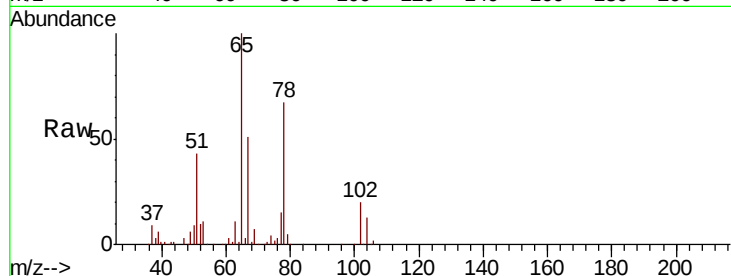
LOQ-WATER-02-QT4-2018

Tot Ion: 65 Resp: 252122

Ion Ratio Lower Upper

65 100

67 50.6 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.03

120000

100000

80000

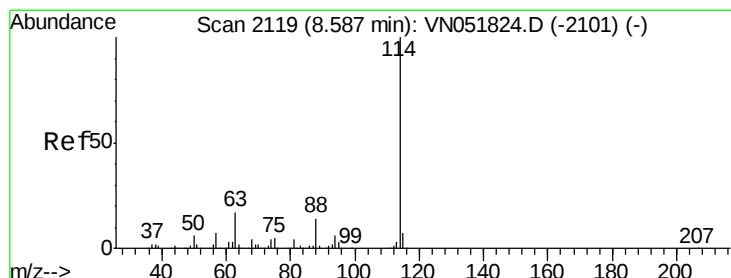
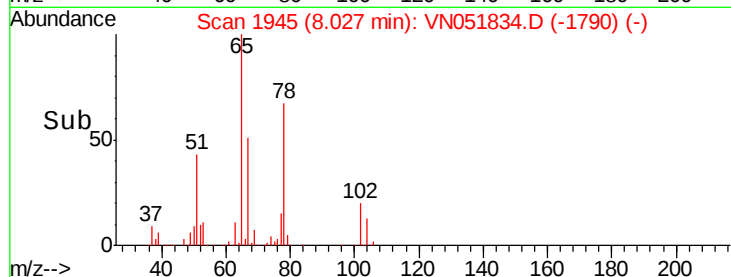
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

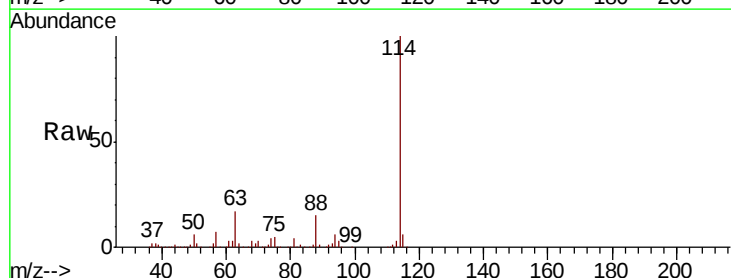
Tgt Ion: 114 Resp: 738893

Ion Ratio Lower Upper

114 100

63 17.0 16.2 24.2

88 14.5 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

8.59

400000

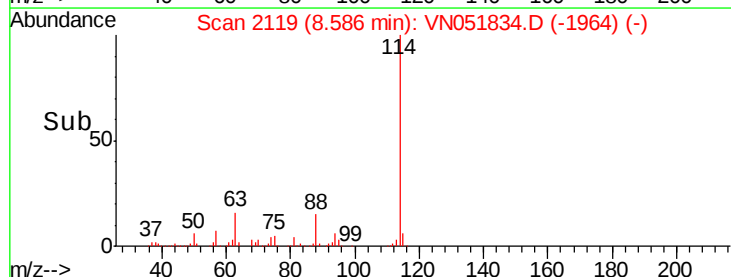
300000

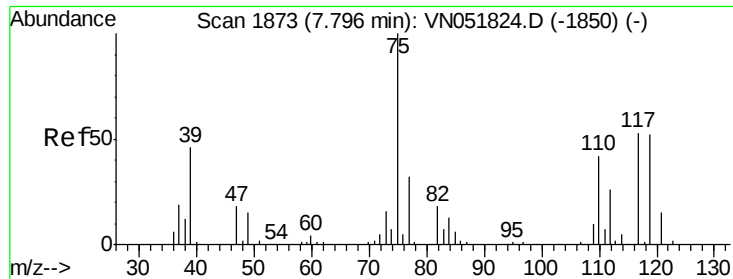
200000

100000

0

Time-->

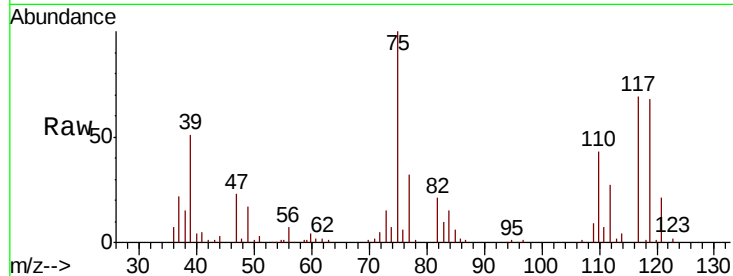




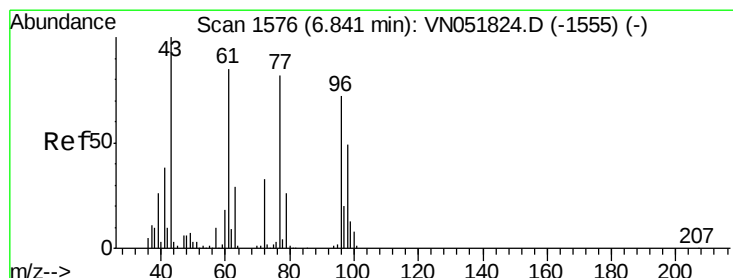
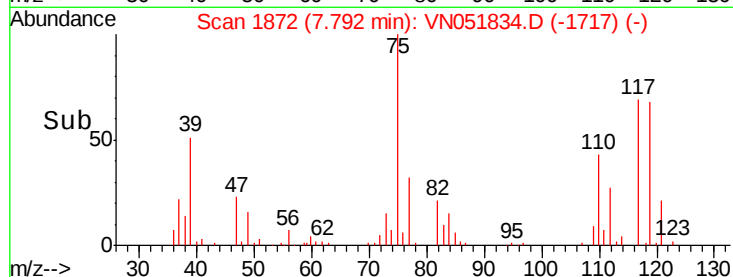
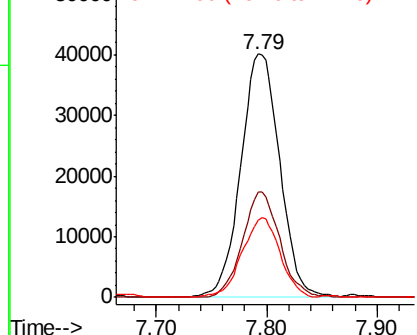
#29
 1,1-Dichloropropene
 Concen: 10.349 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tot Ion: 75 Resp: 98564
 Ion Ratio Lower Upper
 75 100
 110 41.2 0.0 70.8
 77 31.7 0.0 61.6

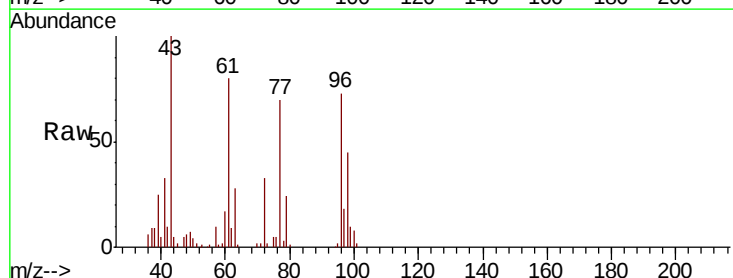


Abundance Ion 75.00 (74.70 to 75.70): VN0
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VN0

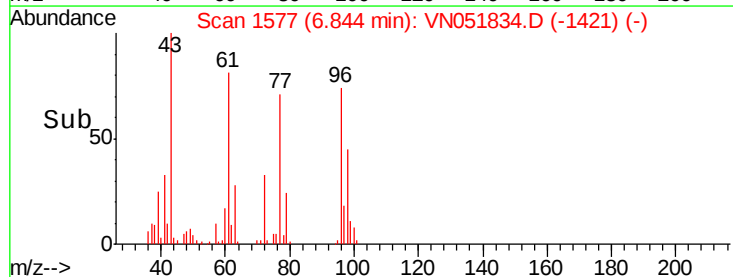
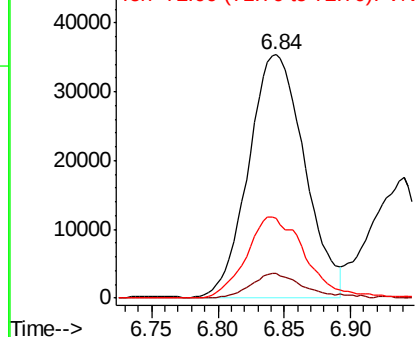


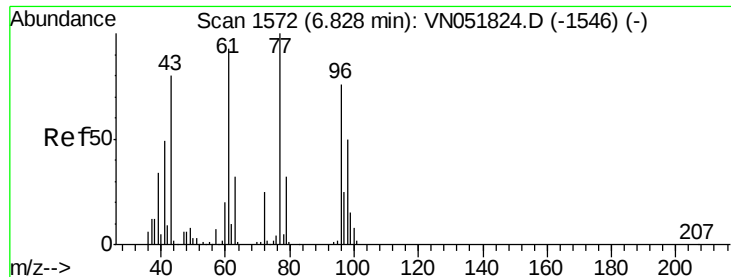
#30
 2-Butanone
 Concen: 52.605 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 43 Resp: 104721
 Ion Ratio Lower Upper
 43 100
 57 9.1 4.5 6.7#
 72 21.9 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 57.00 (56.70 to 57.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0





#31

2,2-Dichloropropane

Concen: 9.485 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

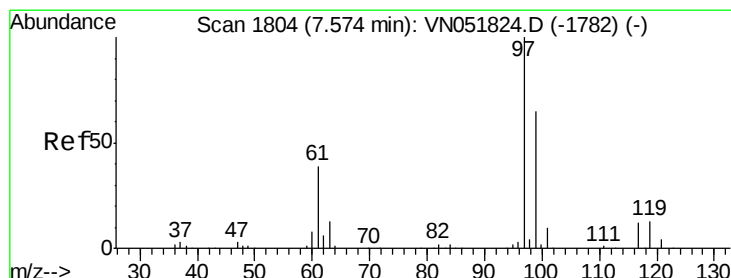
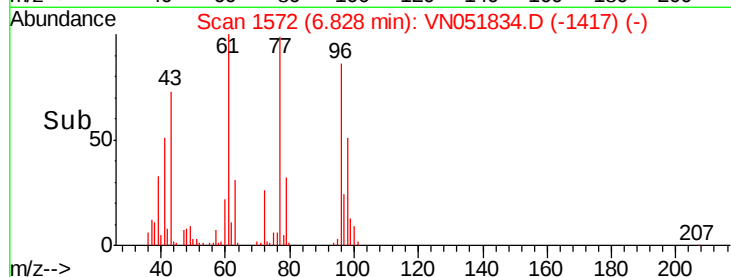
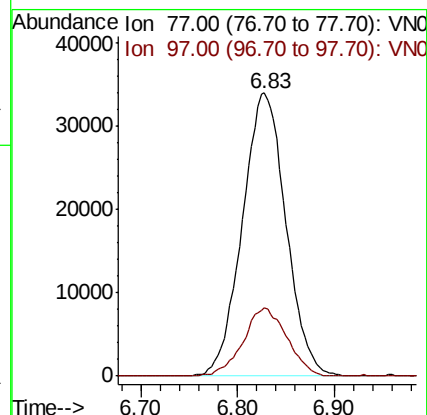
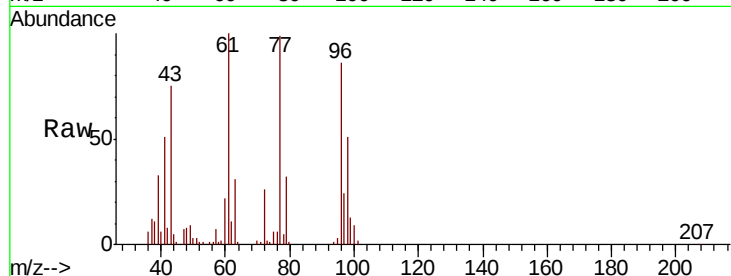
LOQ-WATER-02-QT4-2018

Tot Ion: 77 Resp: 106272

Ion Ratio Lower Upper

77 100

97 24.1 12.0 18.0#



#32

1,1,1-Trichloroethane

Concen: 10.181 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

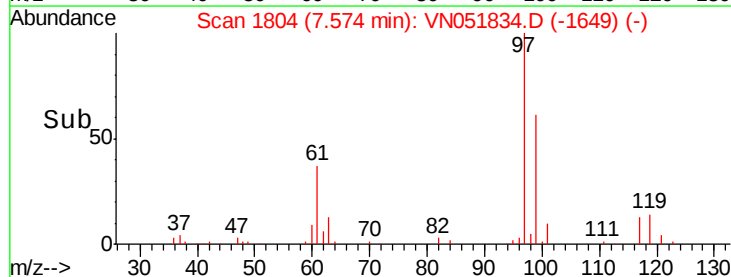
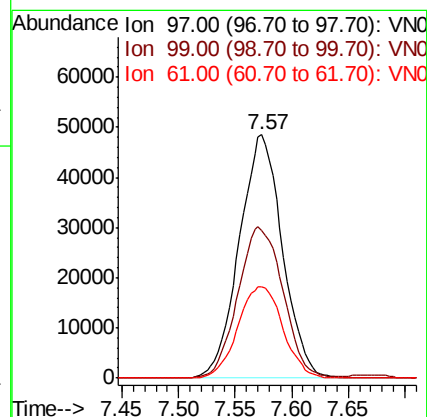
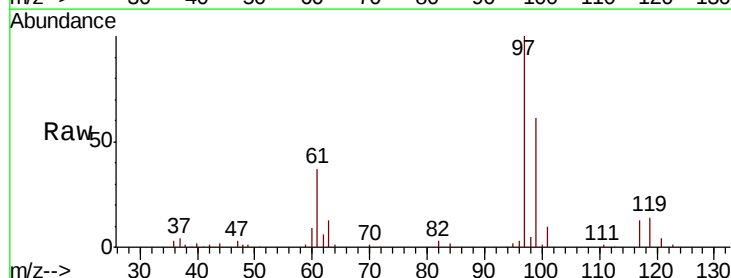
Tgt Ion: 97 Resp: 128560

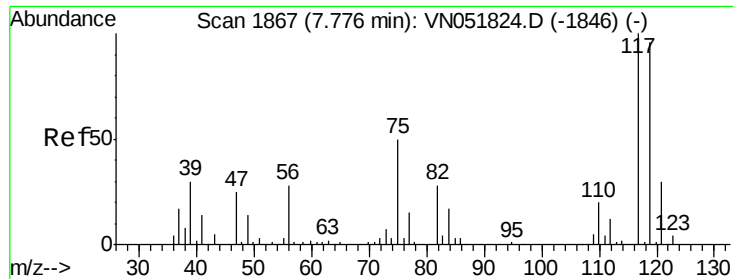
Ion Ratio Lower Upper

97 100

99 65.1 51.6 77.4

61 39.2 37.4 56.0

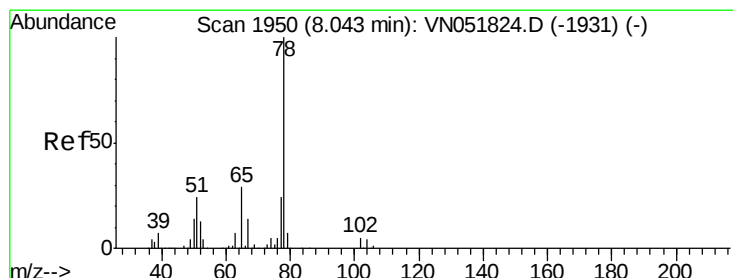
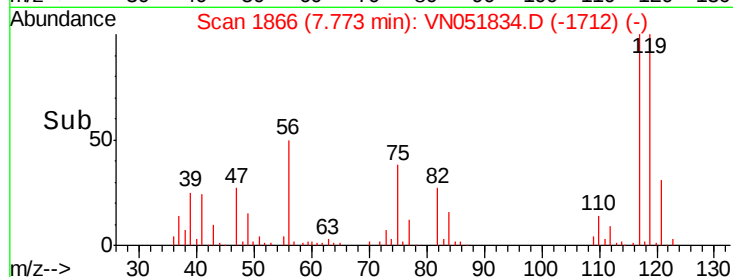
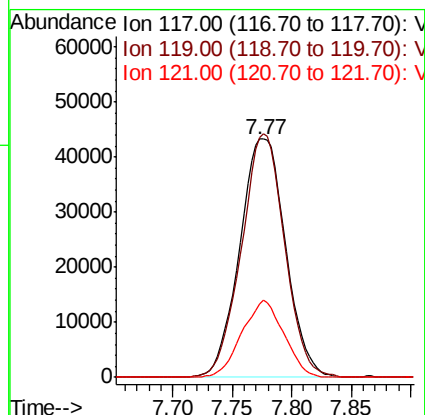
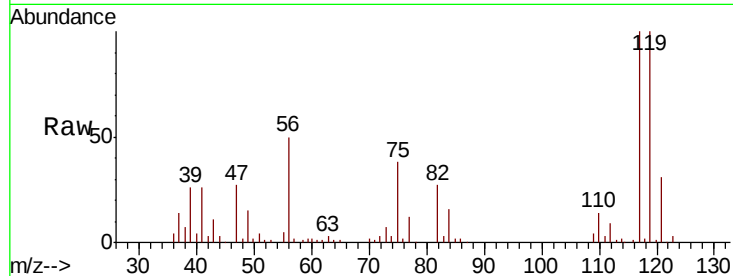




#33
Carbon Tetrachloride
Concen: 10.110 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

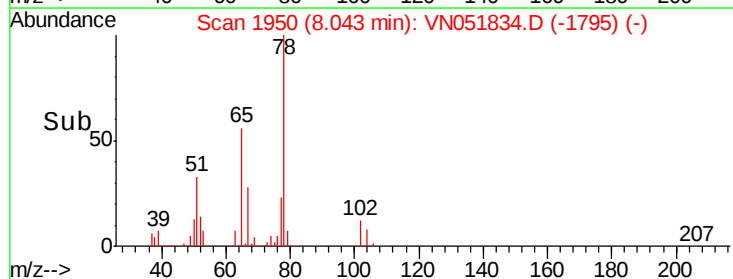
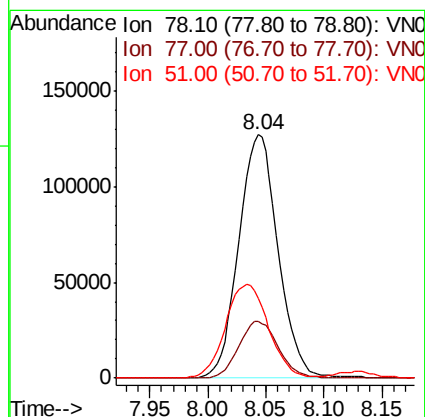
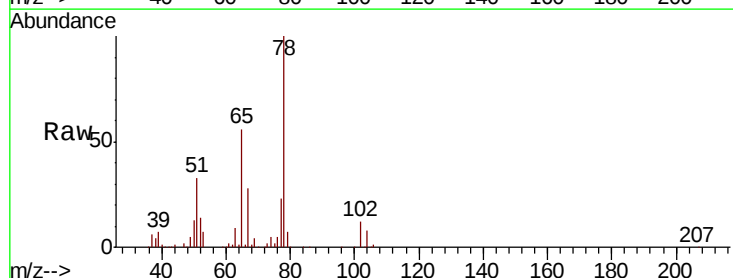
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

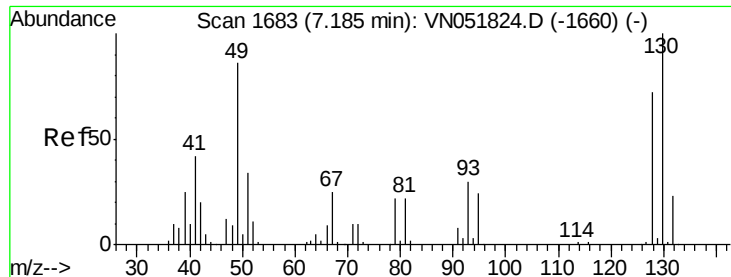
Tot Ion:117 Resp: 115497
Ion Ratio Lower Upper
117 100
119 100.5 85.1 127.7
121 31.2 24.2 36.2



#34
Benzene
Concen: 10.666 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 78 Resp: 300493
Ion Ratio Lower Upper
78 100
77 23.4 18.8 28.2
51 32.4 46.2 69.4#

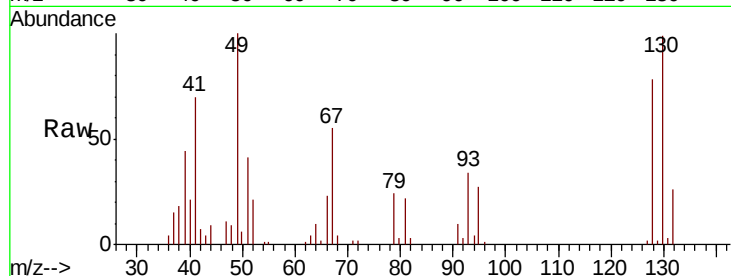




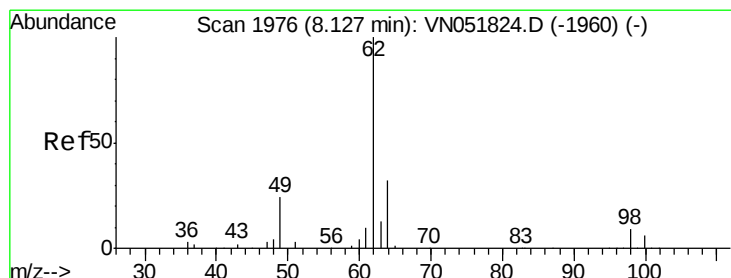
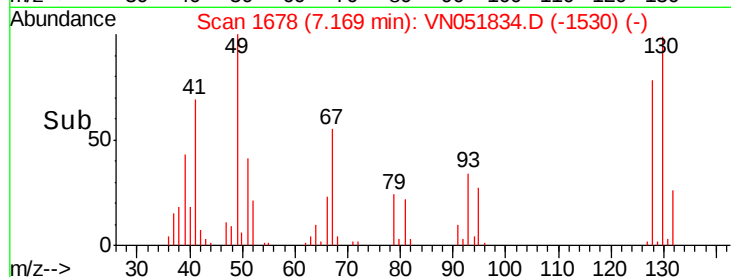
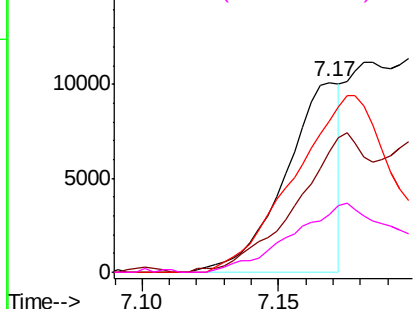
#35
Methacrylonitrile
Concen: 5.342 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.02 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tot Ion: 41 Resp: 13973
Ion Ratio Lower Upper
41 100
39 63.4 22.6 67.7
67 79.4 28.9 86.8
52 30.1 11.3 33.9

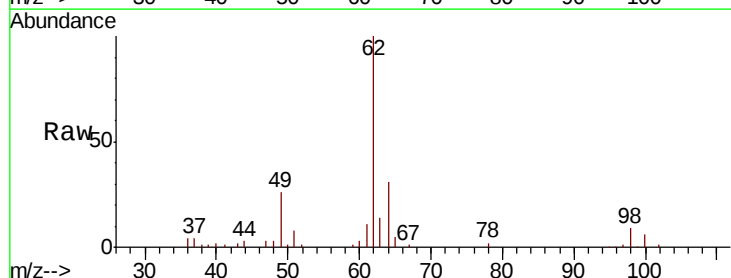


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

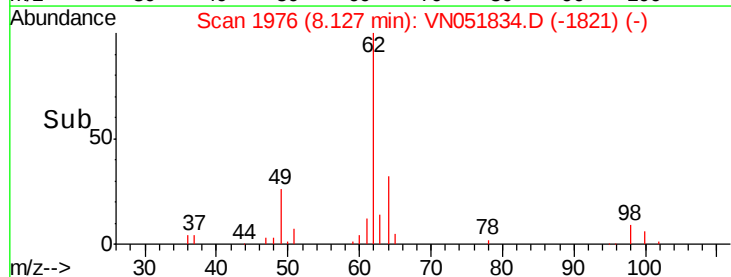
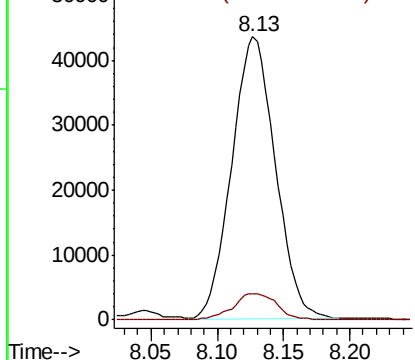


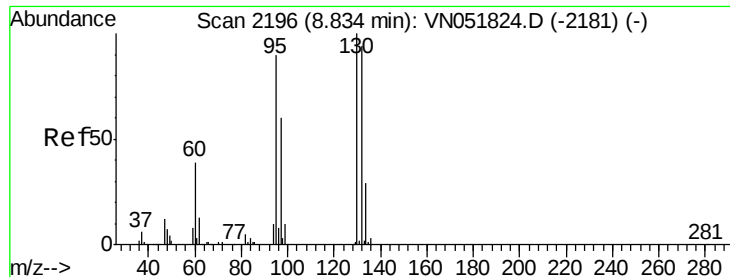
#36
1,2-Dichloroethane
Concen: 11.008 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 62 Resp: 99375
Ion Ratio Lower Upper
62 100
98 9.5 6.9 10.3



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





#37

Trichloroethene

Concen: 10.431 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

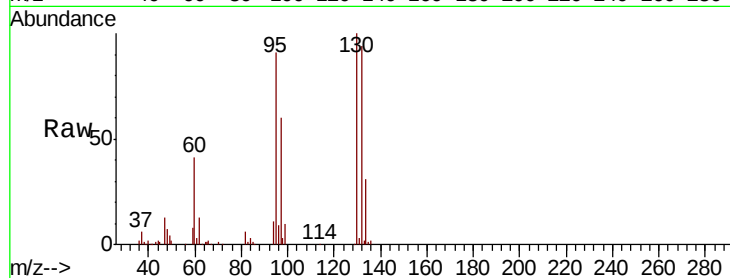
LOQ-WATER-02-QT4-2018

Tot Ion:130 Resp: 91221

Ion Ratio Lower Upper

130 100

95 91.2 76.4 114.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

50000

40000

30000

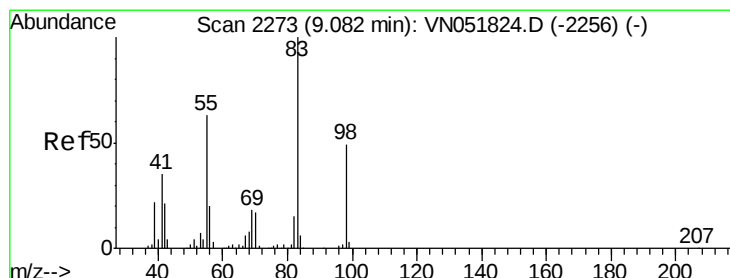
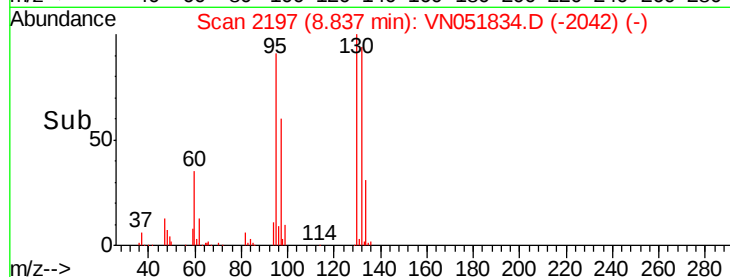
20000

10000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 10.121 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

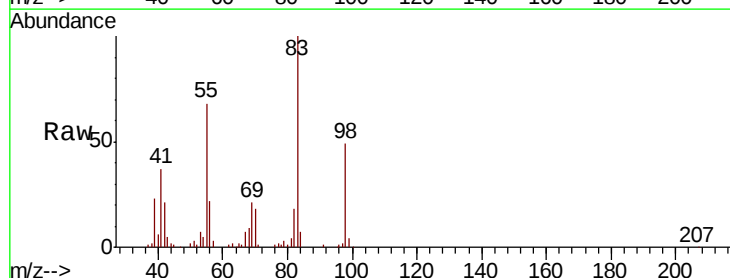
Tgt Ion: 83 Resp: 123637

Ion Ratio Lower Upper

83 100

55 65.3 43.0 129.2

98 48.6 21.3 63.7



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

80000

60000

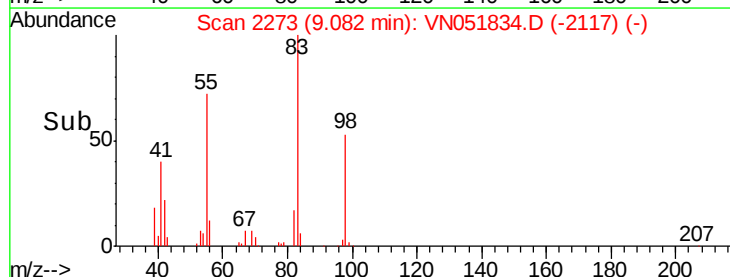
40000

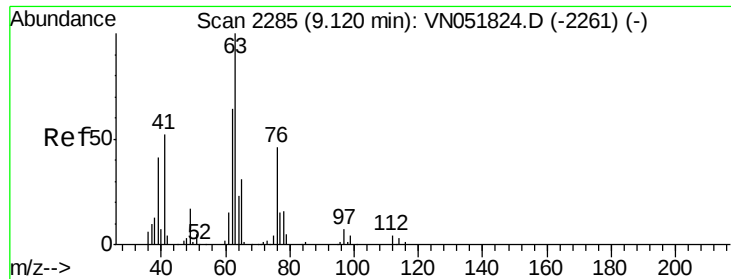
20000

0

9.00 9.05 9.10 9.15 9.20

Time-->

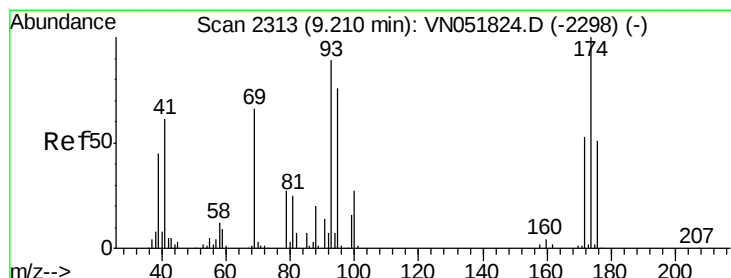
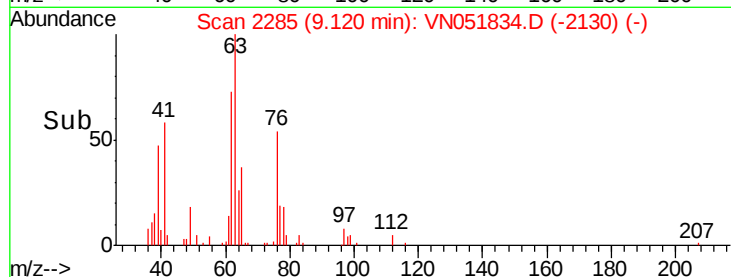
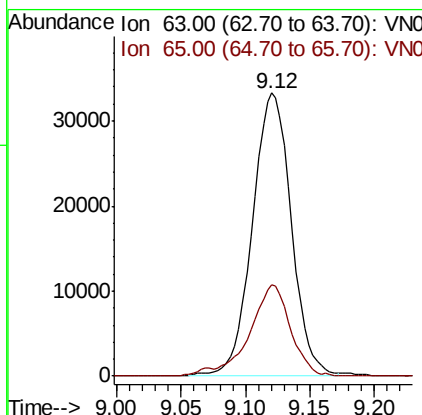
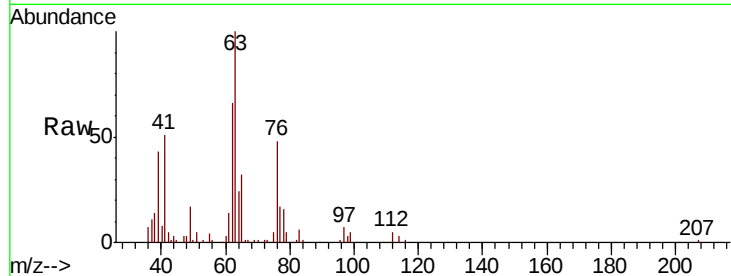




#39
 1,2-Dichloropropane
 Concen: 10.563 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

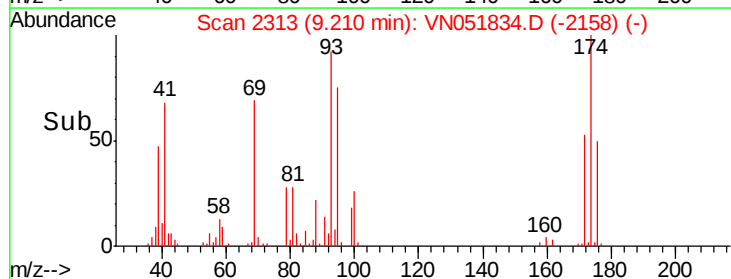
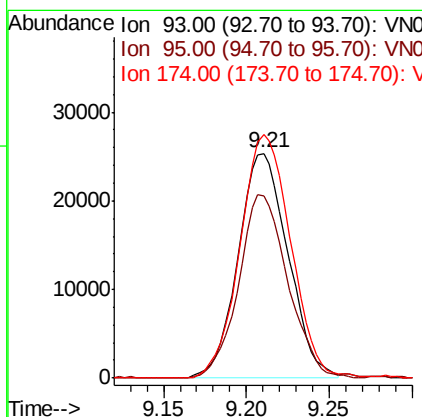
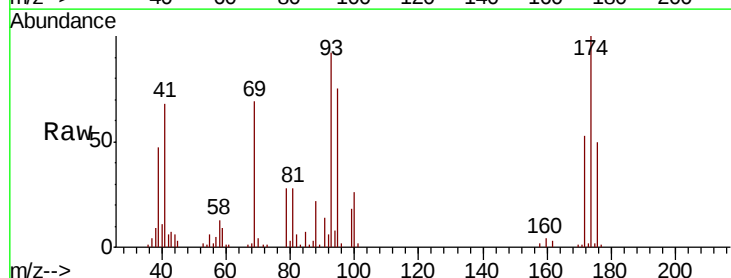
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

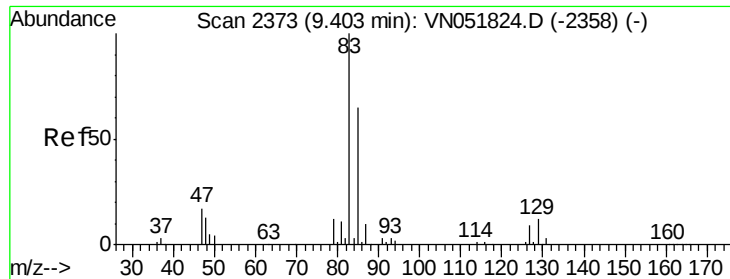
Tot Ion: 63 Resp: 70080
 Ion Ratio Lower Upper
 63 100
 65 32.3 23.2 34.8



#40
 Dibromomethane
 Concen: 10.733 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 93 Resp: 52852
 Ion Ratio Lower Upper
 93 100
 95 80.7 0.0 162.0
 174 110.5 0.0 214.0

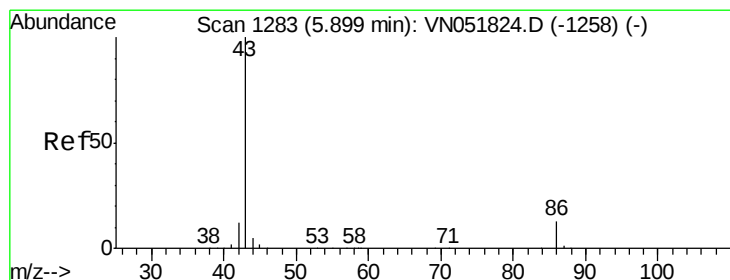
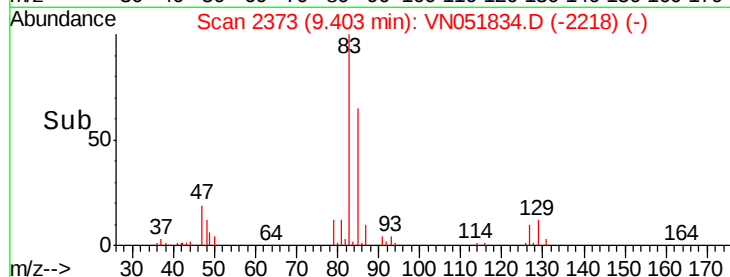
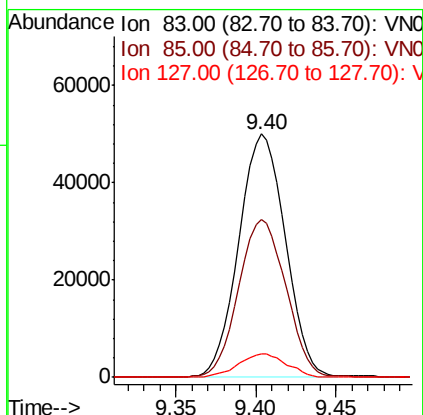
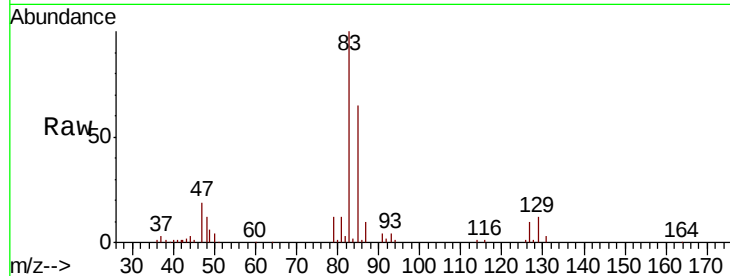




#41
 Bromodichloromethane
 Concen: 9.821 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

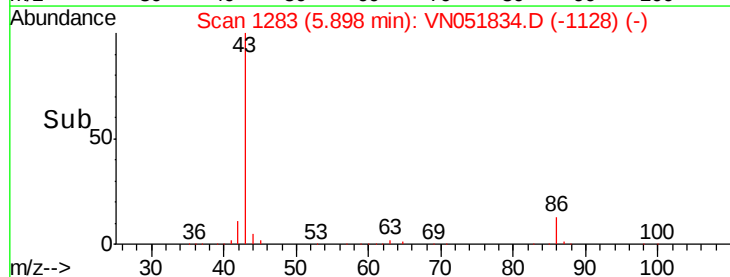
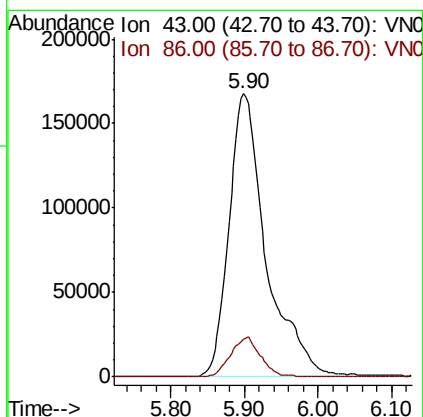
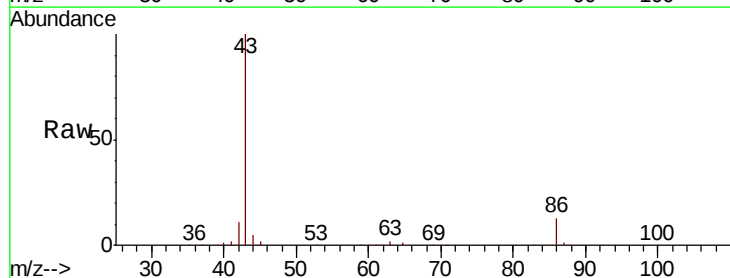
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

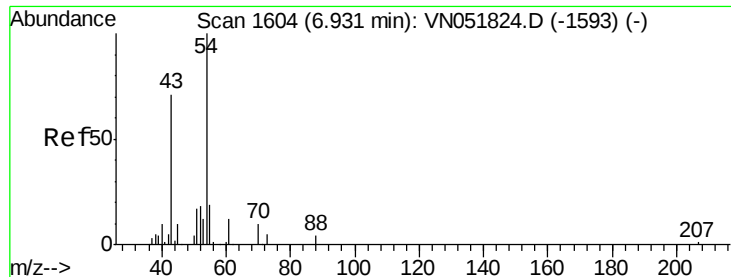
Tot Ion: 83 Resp: 99890
 Ion Ratio Lower Upper
 83 100
 85 64.3 55.7 83.5
 127 9.9 8.2 12.4



#42
 Vinyl Acetate
 Concen: 52.272 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 43 Resp: 585783
 Ion Ratio Lower Upper
 43 100
 86 11.4 6.5 9.7#

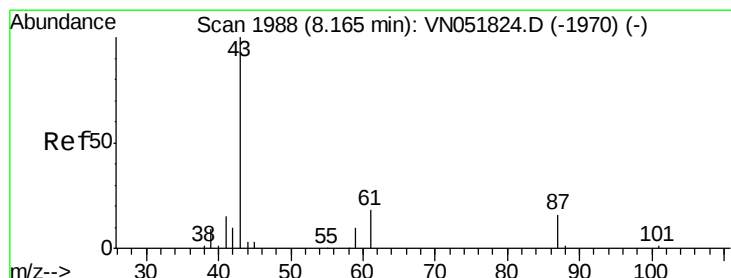
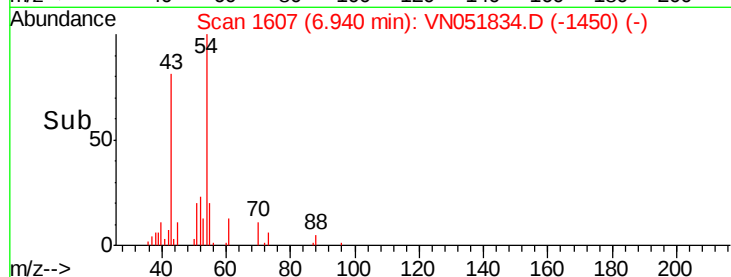
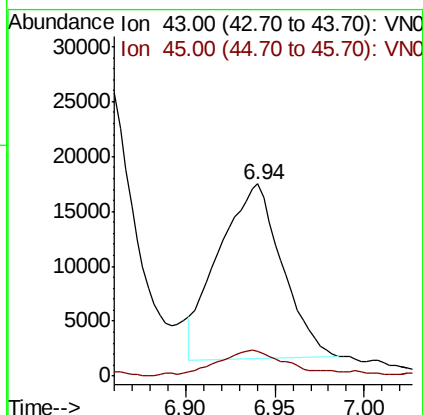
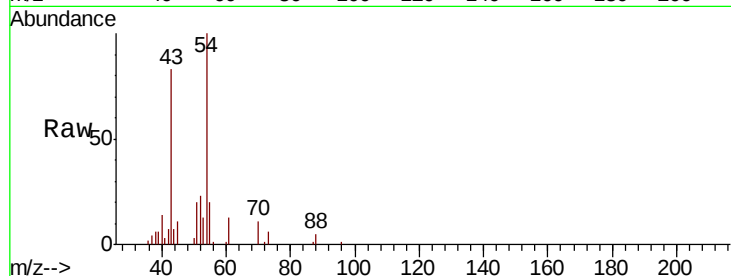




#43
Ethyl Acetate
Concen: 9.093 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.01 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

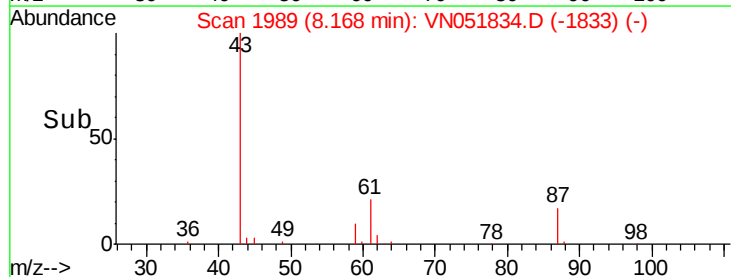
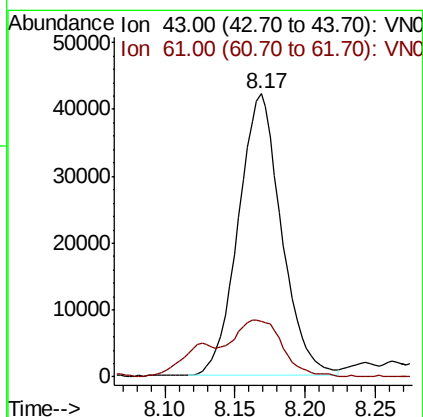
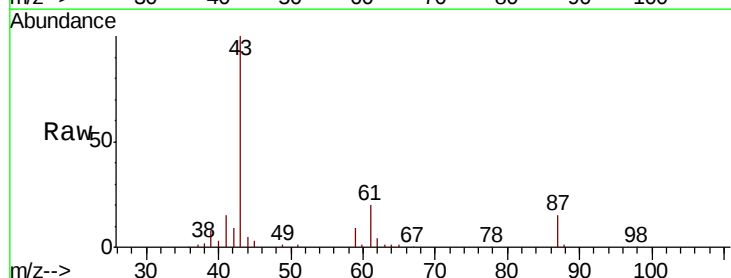
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

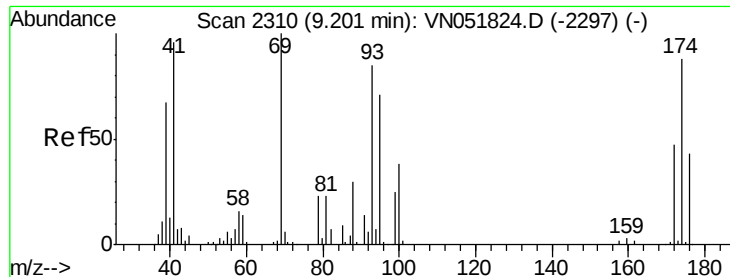
Tot Ion: 43 Resp: 39304
Ion Ratio Lower Upper
43 100
45 13.6 11.0 16.6



#44
Isopropyl Acetate
Concen: 10.430 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 43 Resp: 90051
Ion Ratio Lower Upper
43 100
61 19.5 15.9 23.9





#45

1,4-Dioxane

Concen: 209.042 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

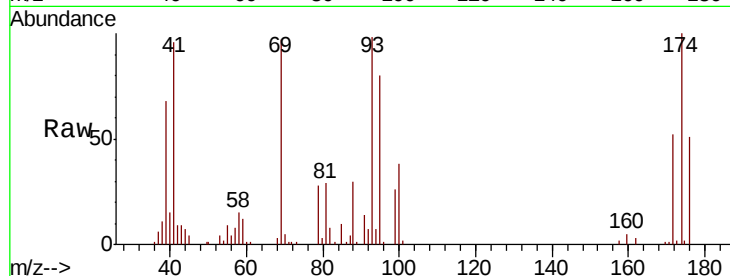
Tot Ion: 88 Resp: 14492

Ion Ratio Lower Upper

88 100

43 15.1 26.2 39.2#

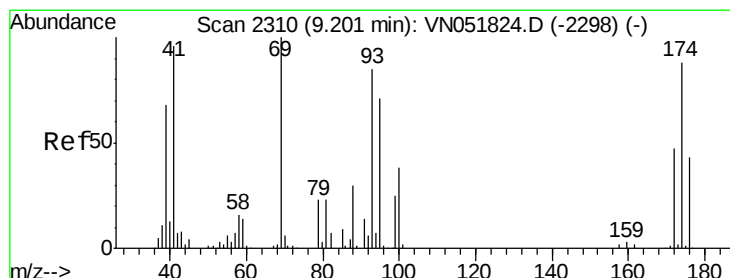
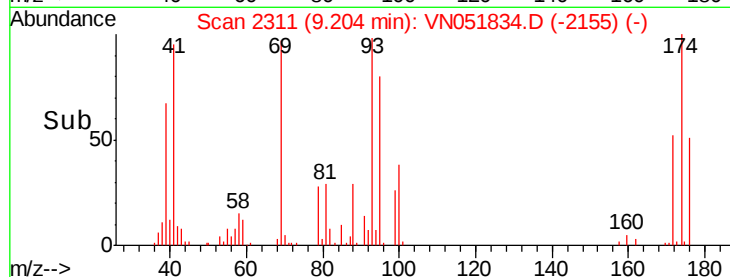
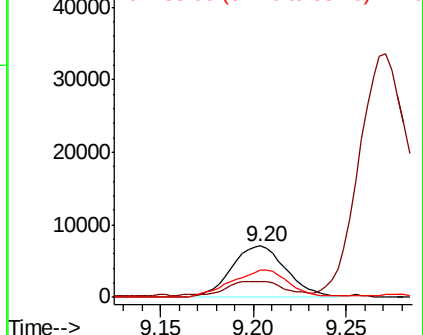
58 55.9 65.6 98.4#



Abundance Ion 88.00 (87.70 to 88.70): VN051834.D (-2155) (-)

Ion 43.00 (42.70 to 43.70): VN051834.D (-2155) (-)

Ion 58.00 (57.70 to 58.70): VN051834.D (-2155) (-)



#46

Methyl methacrylate

Concen: 10.574 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

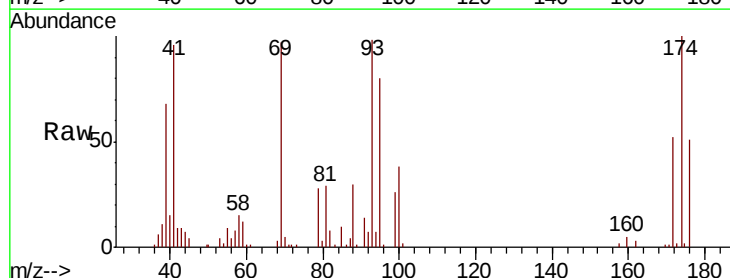
Tgt Ion: 41 Resp: 42111

Ion Ratio Lower Upper

41 100

69 102.6 40.7 122.1

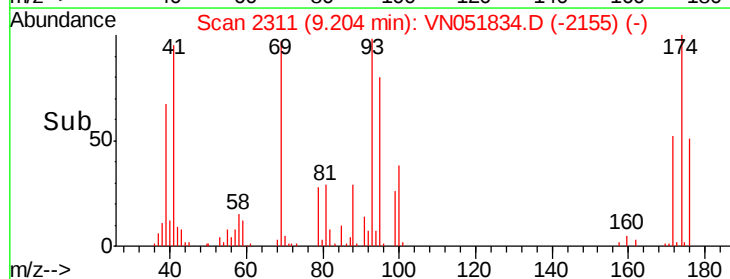
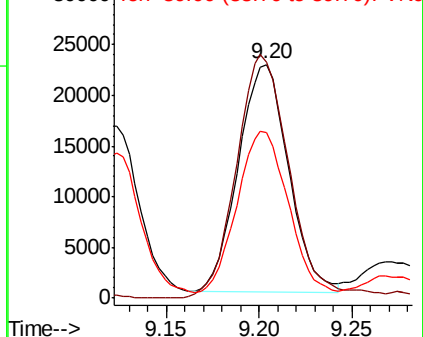
39 69.7 27.3 81.9

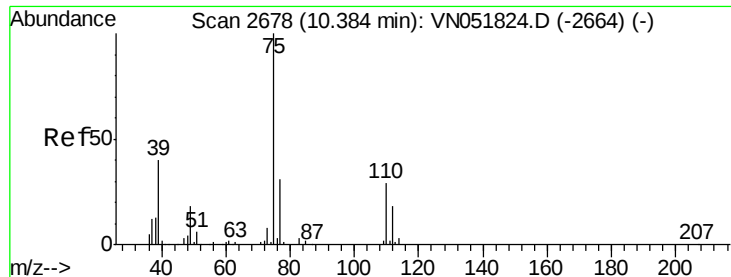


Abundance Ion 41.00 (40.70 to 41.70): VN051834.D (-2155) (-)

Ion 69.00 (68.70 to 69.70): VN051834.D (-2155) (-)

Ion 39.00 (38.70 to 39.70): VN051834.D (-2155) (-)





#48

t-1,3-Dichloropropene

Concen: 9.378 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

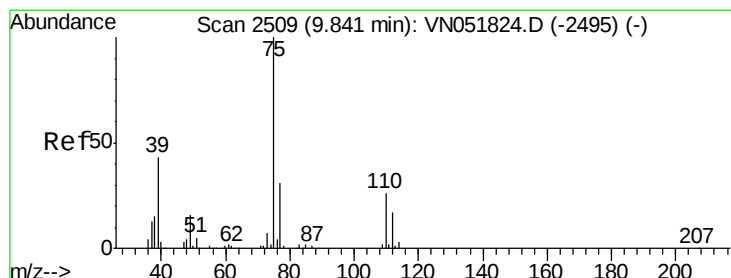
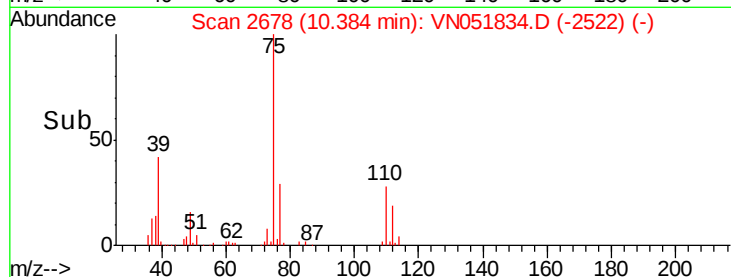
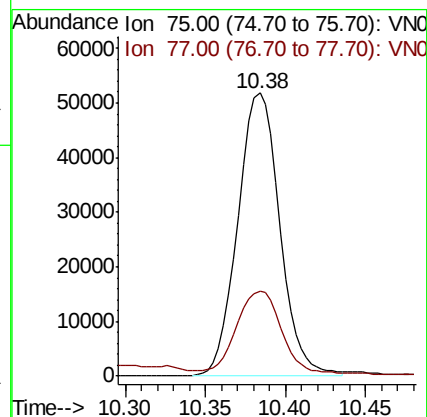
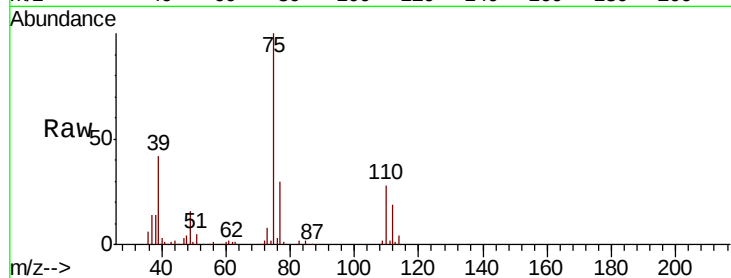
LOQ-WATER-02-QT4-2018

Tot Ion: 75 Resp: 93018

Ion Ratio Lower Upper

75 100

77 29.1 24.6 37.0



#49

cis-1,3-Dichloropropene

Concen: 9.644 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

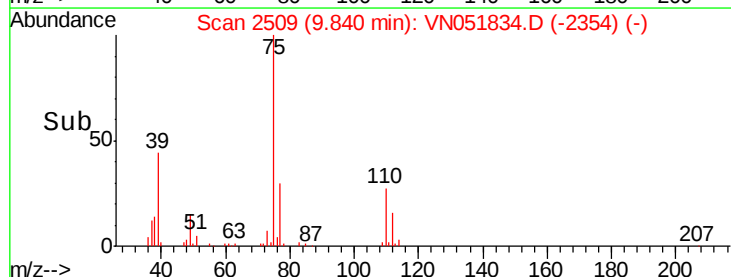
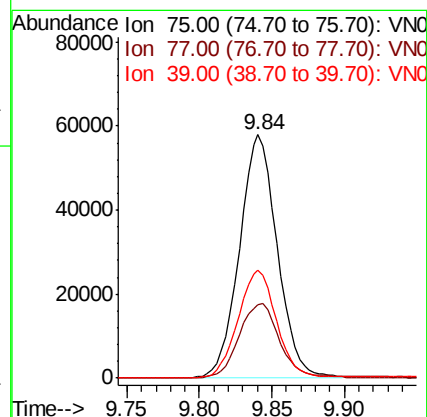
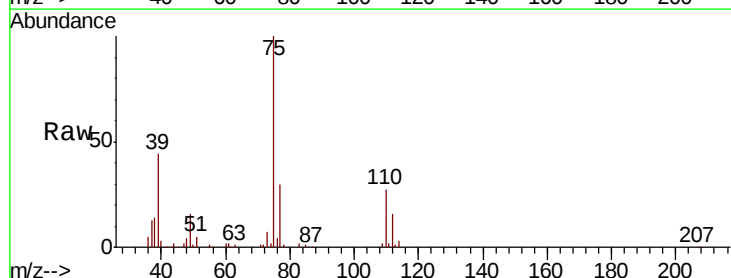
Tgt Ion: 75 Resp: 105445

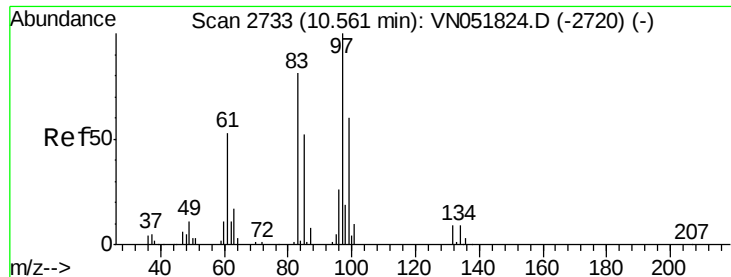
Ion Ratio Lower Upper

75 100

77 30.3 23.2 34.8

39 43.9 34.6 52.0



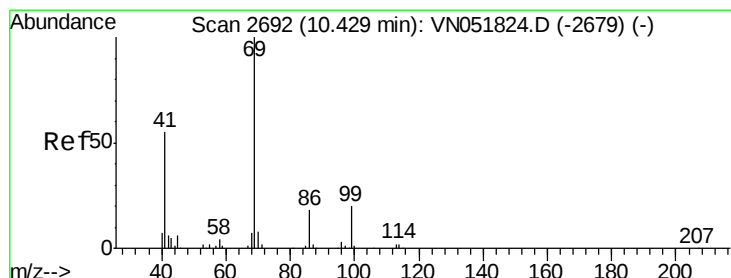
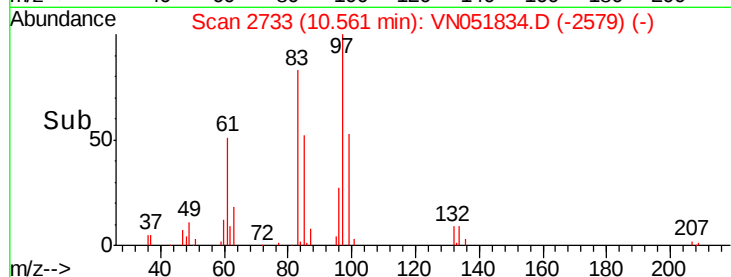
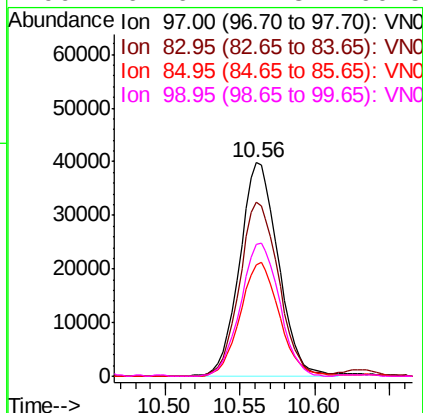
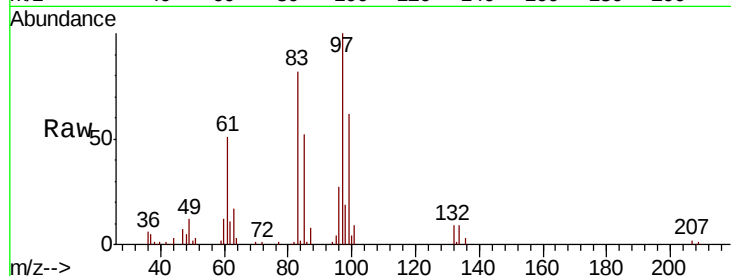


#50
 1,1,2-Trichloroethane
 Concen: 10.523 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tot Ion: 97 Resp: 71594

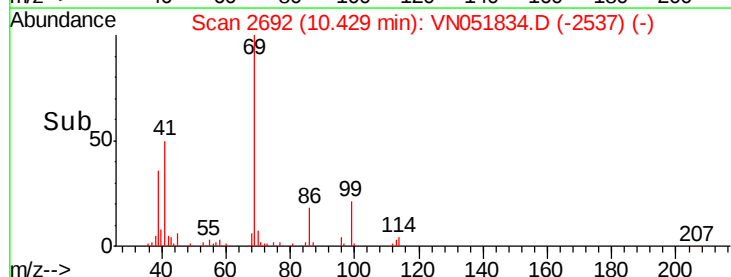
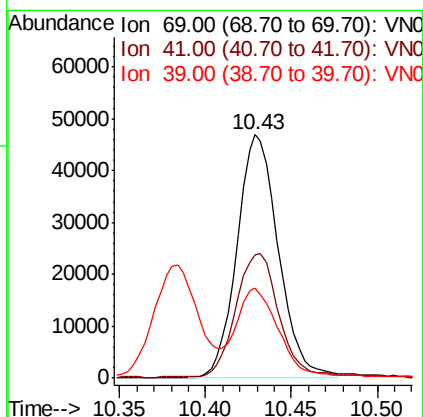
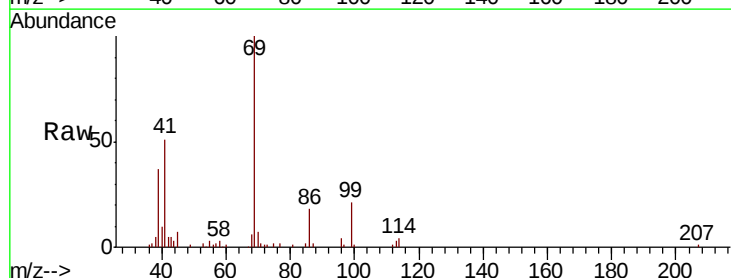
Ion	Ratio	Lower	Upper
97	100		
83	81.6	68.2	102.4
85	52.1	42.5	63.7
99	61.6	44.3	66.5

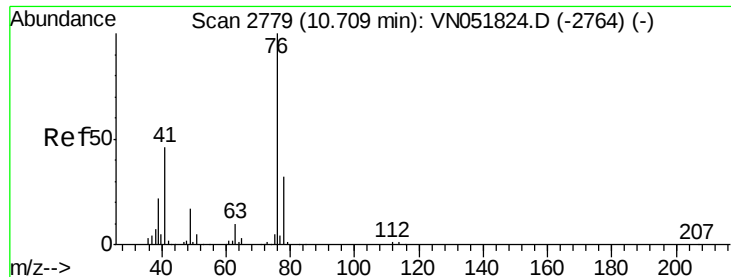


#51
 Ethyl methacrylate
 Concen: 10.127 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 69 Resp: 78885

Ion	Ratio	Lower	Upper
69	100		
41	49.9	34.4	103.1
39	36.0	16.3	48.8





#52

1,3-Dichloropropane

Concen: 10.431 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

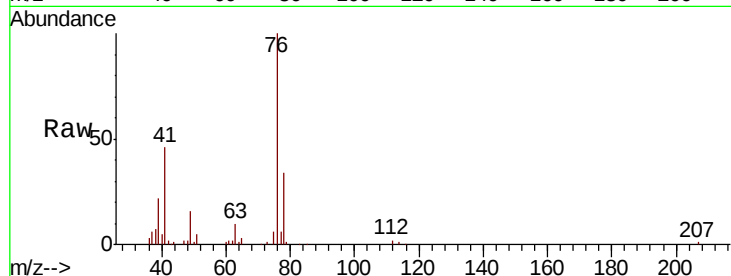
LOQ-WATER-02-QT4-2018

Tot Ion: 76 Resp: 109528

Ion Ratio Lower Upper

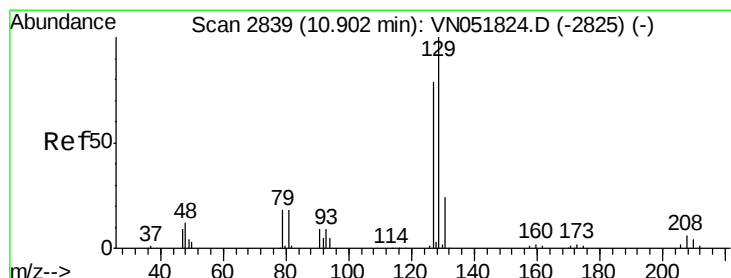
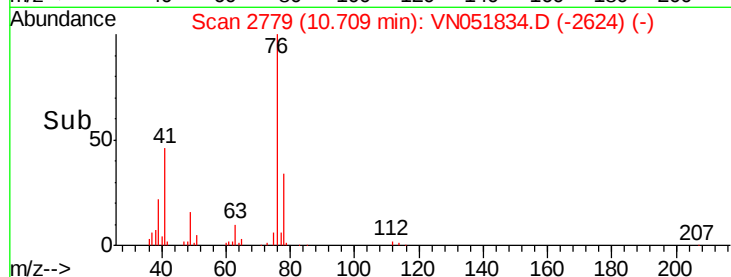
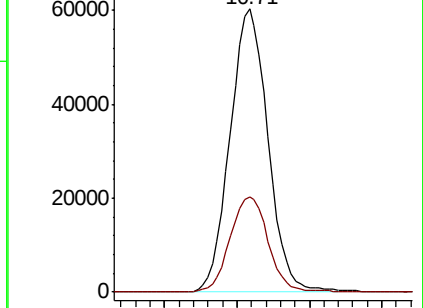
76 100

78 33.6 0.0 67.6



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-2764) (-)

Ion 78.00 (77.70 to 78.70): VN051824.D (-2764) (-)



#53

Dibromochloromethane

Concen: 9.245 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN051834.D

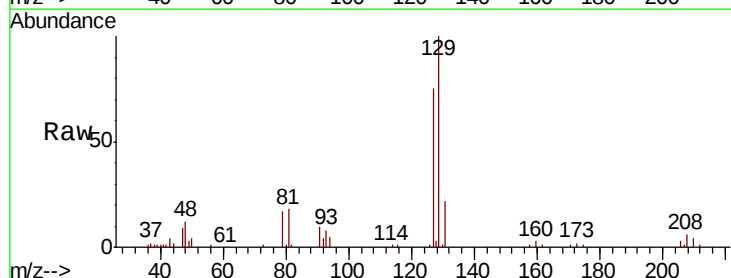
Acq: 12 Oct 2018 15:50

Tgt Ion: 129 Resp: 77813

Ion Ratio Lower Upper

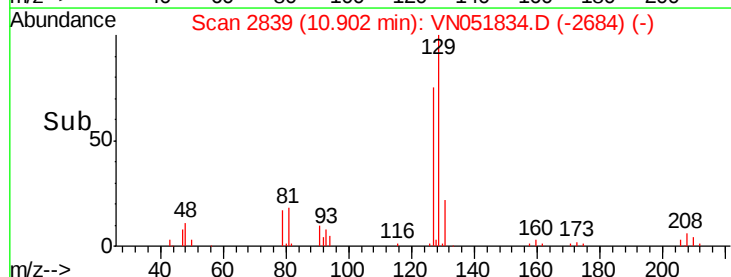
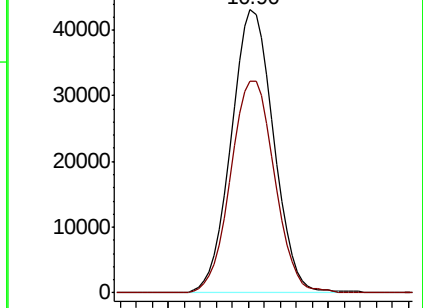
129 100

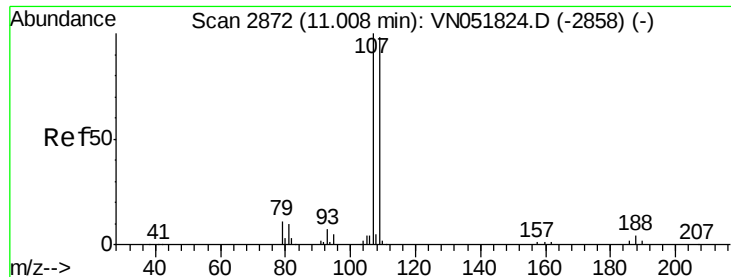
127 77.6 40.2 120.5



Abundance Ion 129.00 (128.70 to 129.70): VN051824.D (-2825) (-)

Ion 127.00 (126.70 to 127.70): VN051824.D (-2825) (-)





#54

1,2-Dibromoethane

Concen: 10.130 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

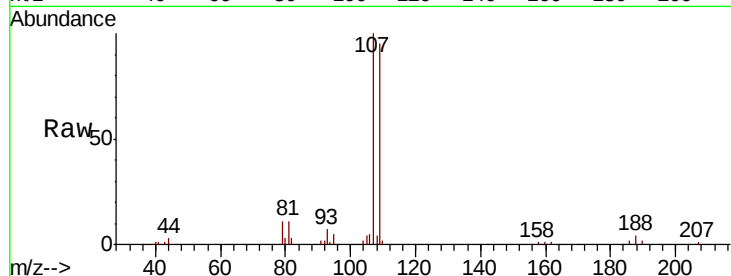
LOQ-WATER-02-QT4-2018

Tot Ion:107 Resp: 72345

Ion Ratio Lower Upper

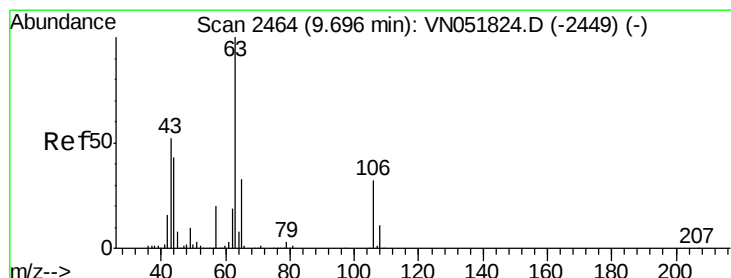
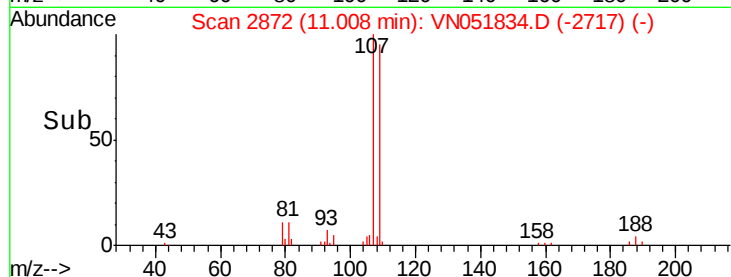
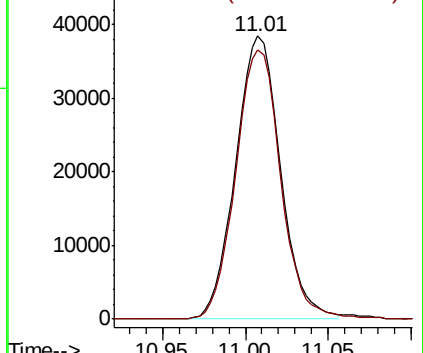
107 100

109 95.9 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: 49.194 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

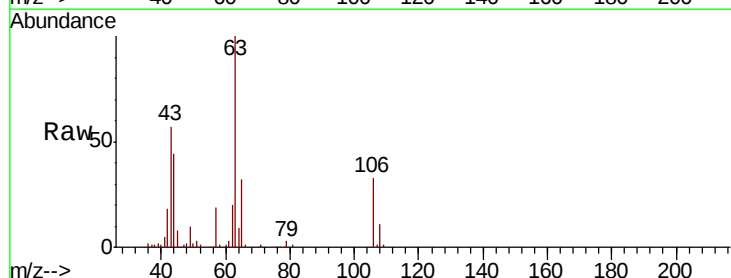
Tgt Ion: 63 Resp: 163810

Ion Ratio Lower Upper

63 100

65 32.2 25.4 38.0

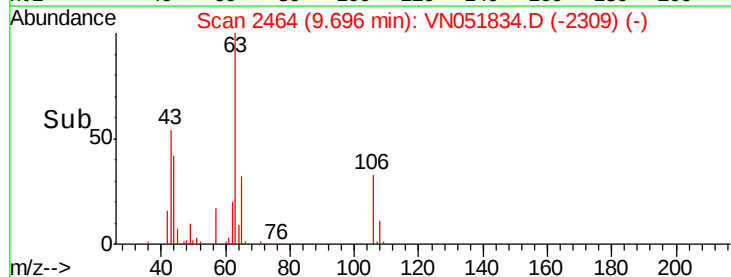
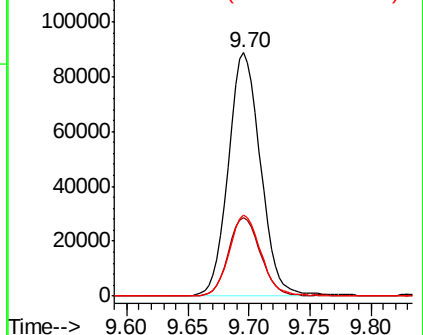
106 32.7 21.2 31.8#

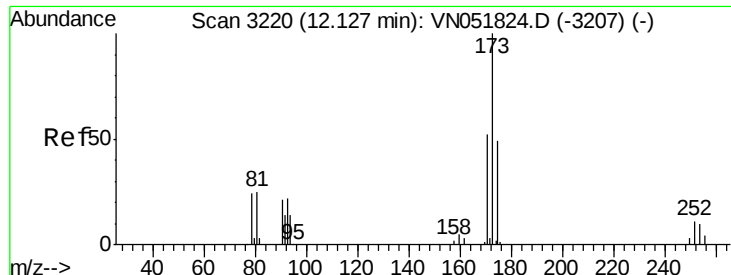


Abundance Ion 63.00 (62.70 to 63.70): VNO

Ion 65.00 (64.70 to 65.70): VNO

Ion 106.00 (105.70 to 106.70): V

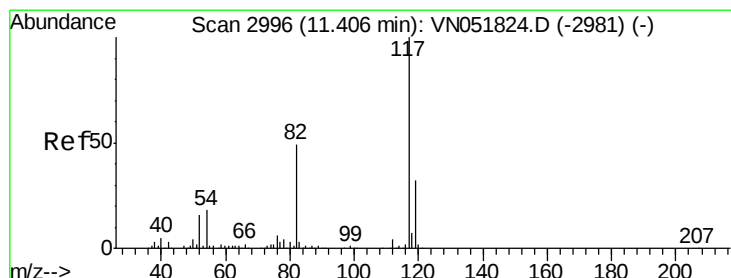
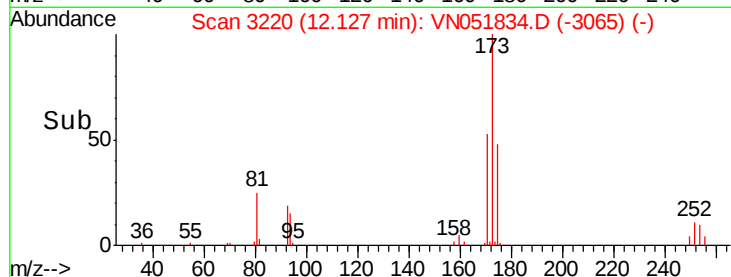
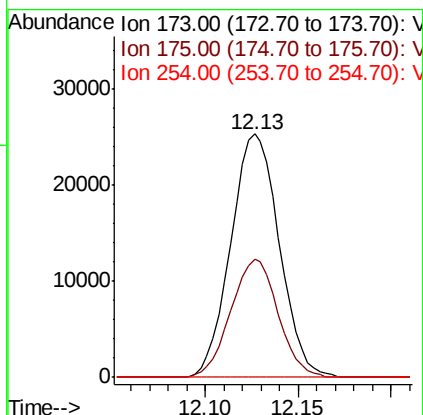
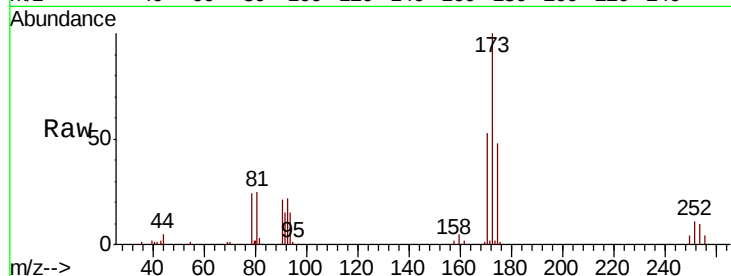




#56
Bromoform
Concen: 8.274 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

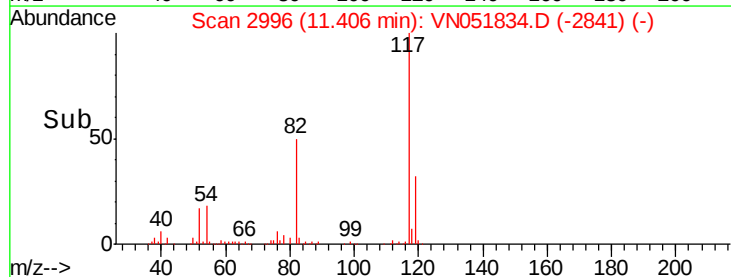
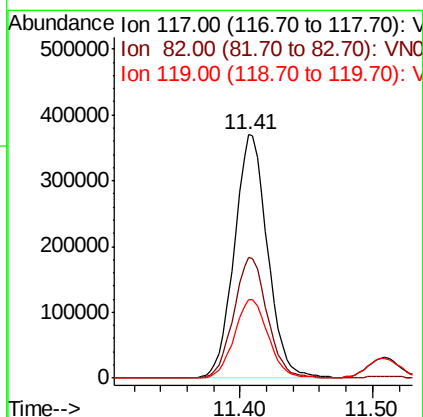
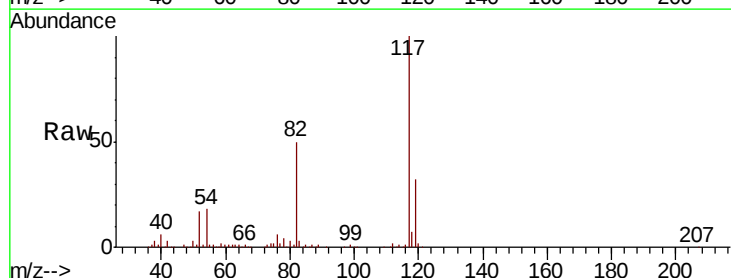
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

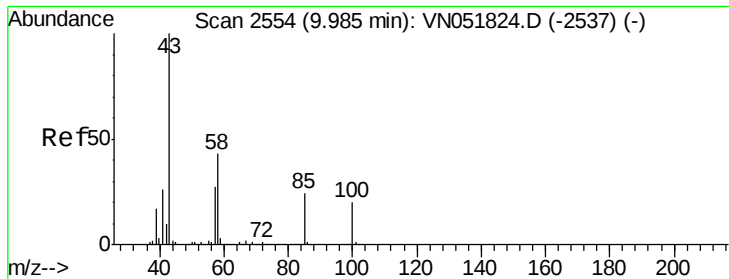
Tot Ion:173 Resp: 45929
Ion Ratio Lower Upper
173 100
175 47.2 35.8 53.8
254 0.0 8.6 13.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion:117 Resp: 643005
Ion Ratio Lower Upper
117 100
82 50.1 44.1 66.1
119 32.9 25.8 38.8





#58

4-Methyl-2-Pentanone

Concen: 55.288 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

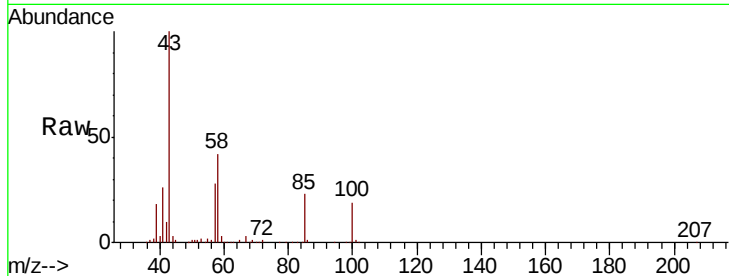
Tot Ion: 43 Resp: 237902

Ion Ratio Lower Upper

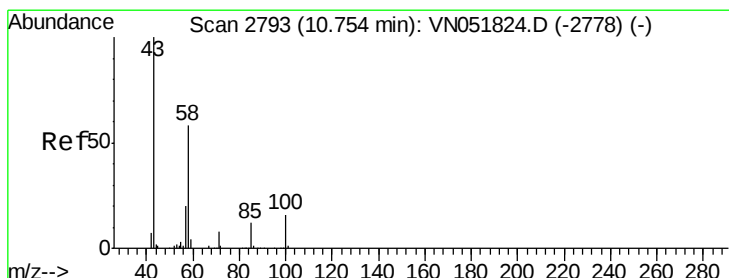
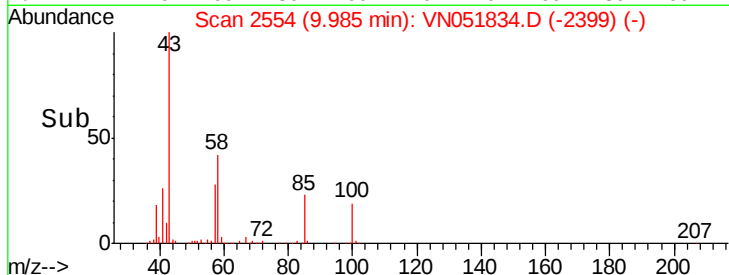
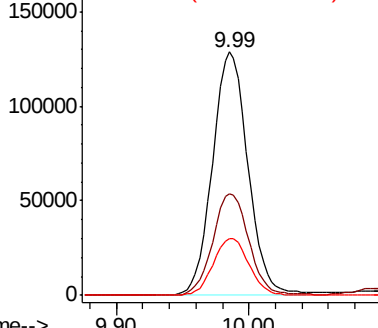
43 100

58 42.4 29.3 43.9

85 23.6 12.6 18.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO
Ion 85.00 (84.70 to 85.70): VNO



#59

2-Hexanone

Concen: 49.802 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

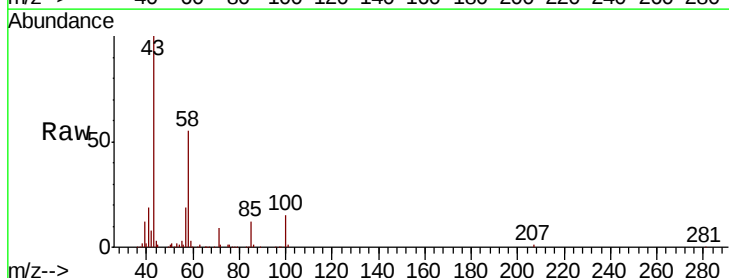
Tgt Ion: 43 Resp: 144572

Ion Ratio Lower Upper

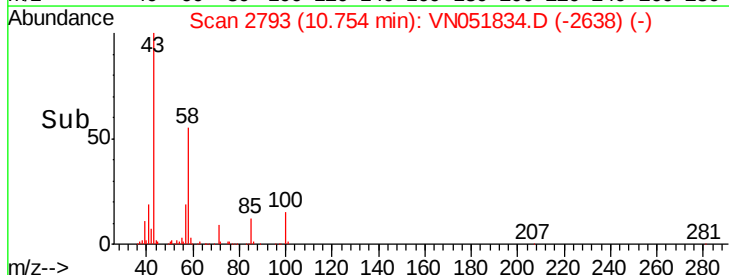
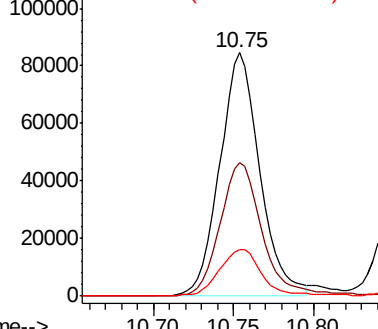
43 100

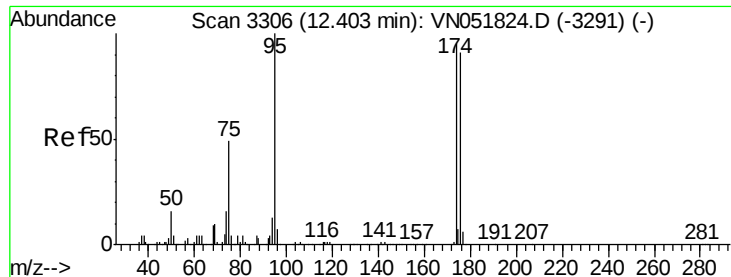
58 58.2 41.3 61.9

57 20.4 13.4 20.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO
Ion 57.00 (56.70 to 57.70): VNO

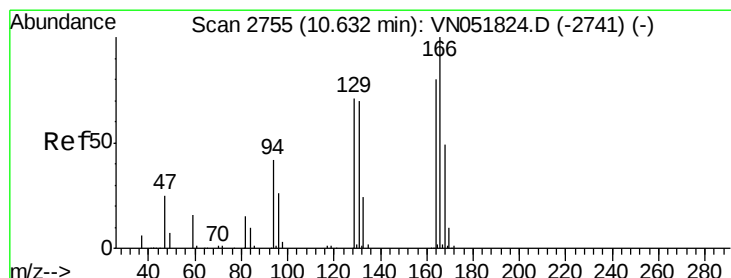
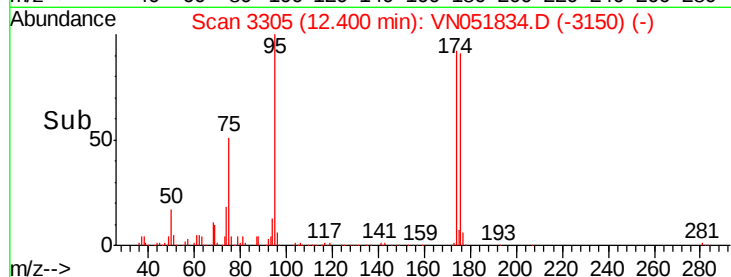
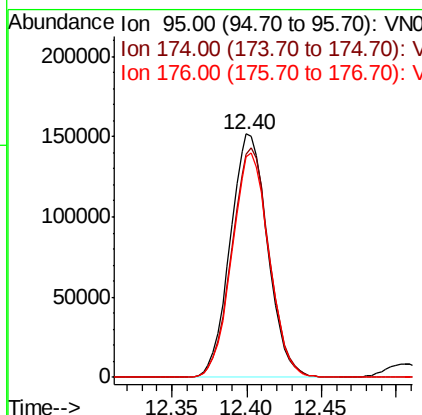
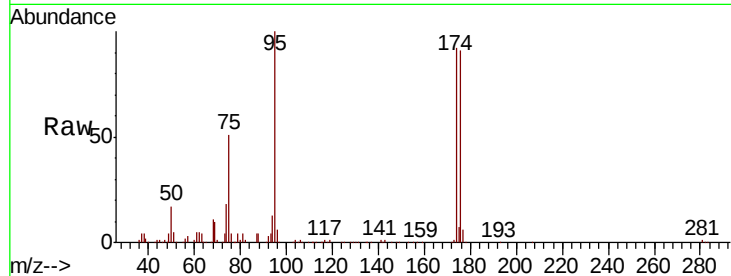




#60
4-Bromofluorobenzene
Concen: 49.802 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

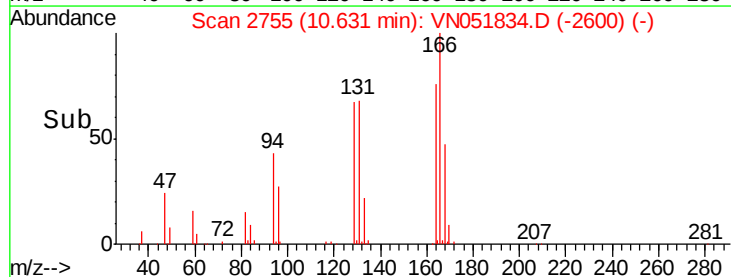
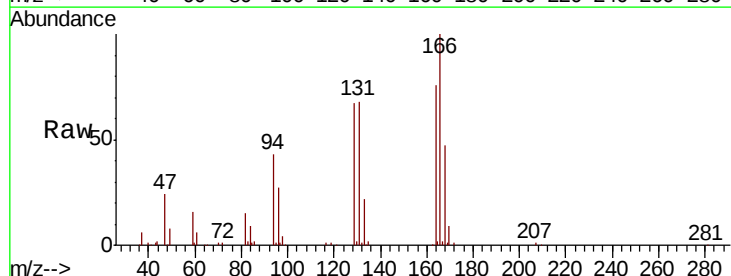
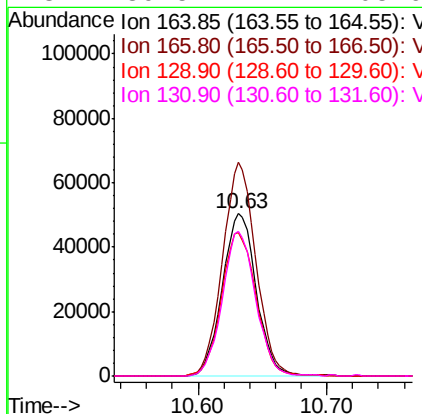
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

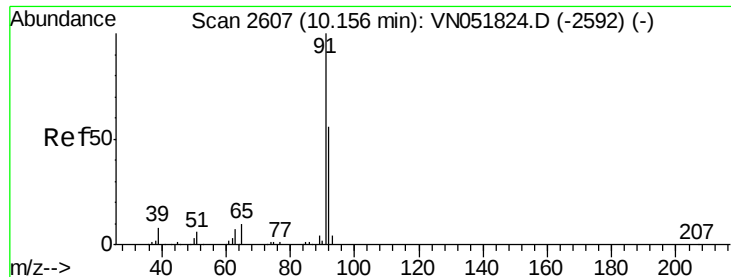
Tot Ion: 95 Resp: 263153
Ion Ratio Lower Upper
95 100
174 94.4 73.5 110.3
176 91.9 70.2 105.2



#61
Tetrachloroethene
Concen: 11.173 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 164 Resp: 91881
Ion Ratio Lower Upper
164 100
166 131.6 98.7 148.1
129 88.0 69.6 104.4
131 89.5 72.4 108.6





#62

Toluene

Concen: 10.669 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

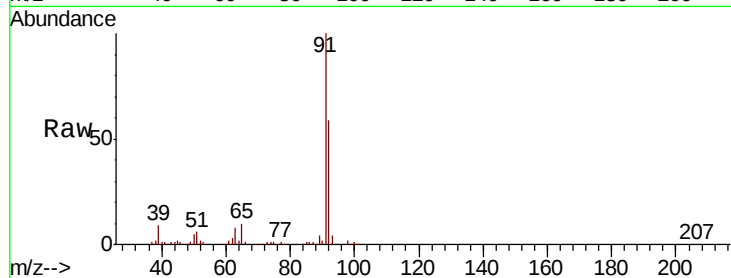
LOQ-WATER-02-QT4-2018

Tot Ion: 91 Resp: 340792

Ion Ratio Lower Upper

91 100

92 58.6 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

10.16

200000

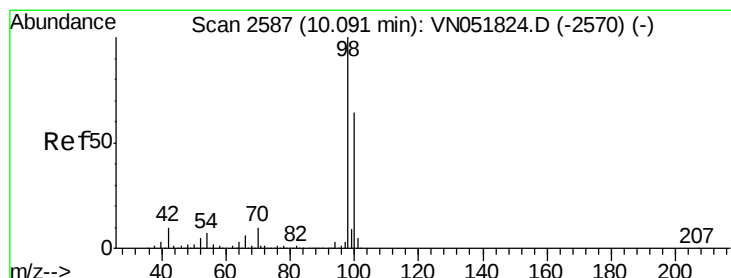
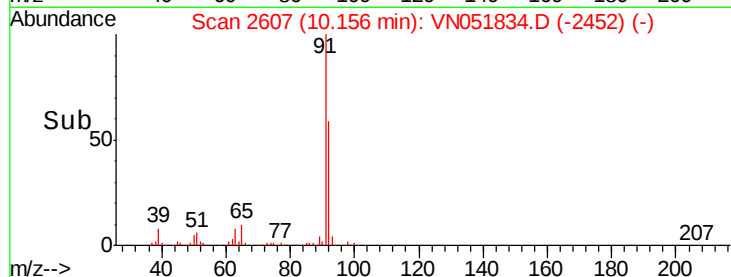
150000

100000

50000

0

Time-->



#63

Toluene-d8

Concen: 10.669 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051834.D

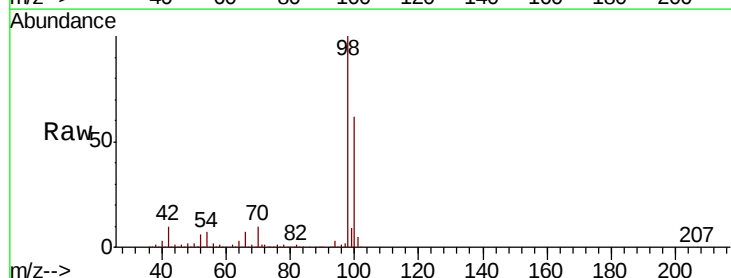
Acq: 12 Oct 2018 15:50

Tgt Ion: 98 Resp: 861369

Ion Ratio Lower Upper

98 100

100 63.5 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

10.09

500000

400000

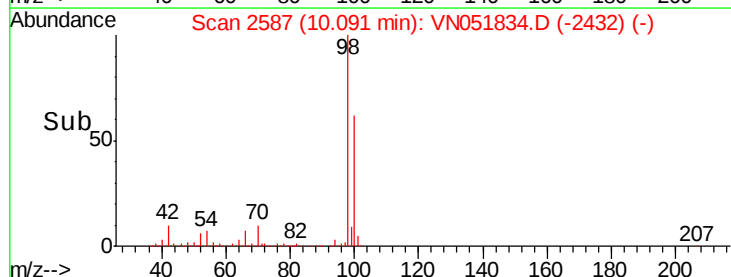
300000

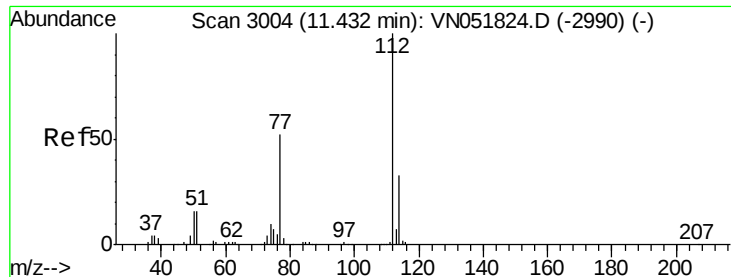
200000

100000

0

Time-->

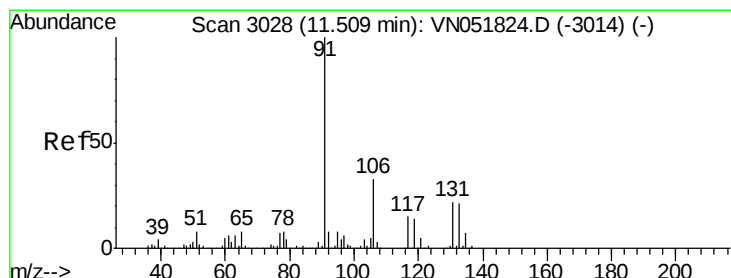
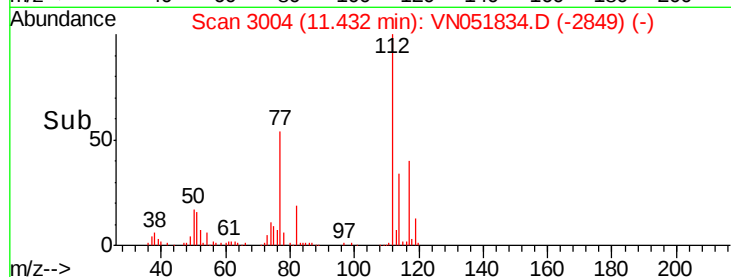
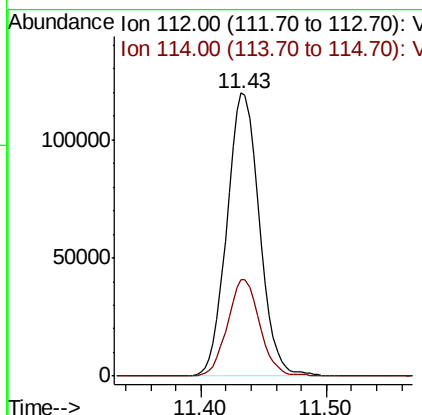
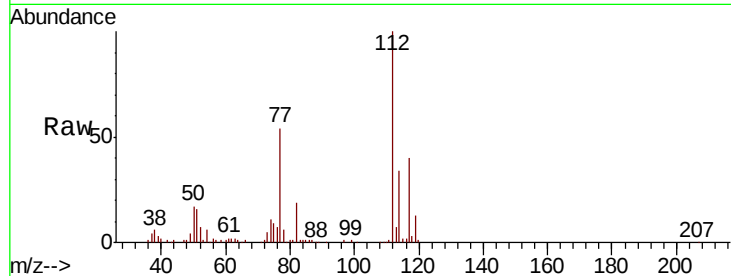




#64
Chlorobenzene
Concen: 10.335 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

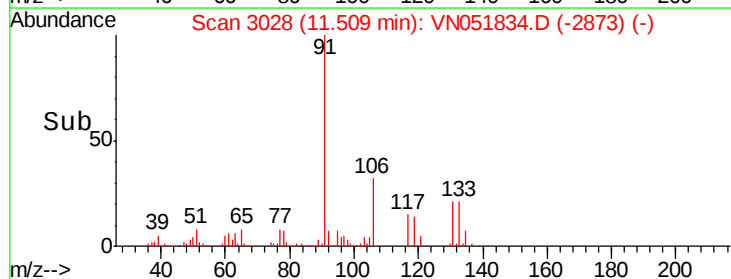
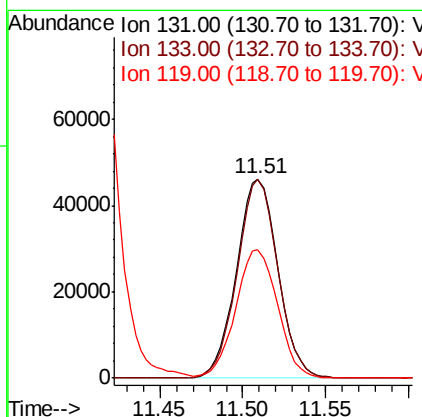
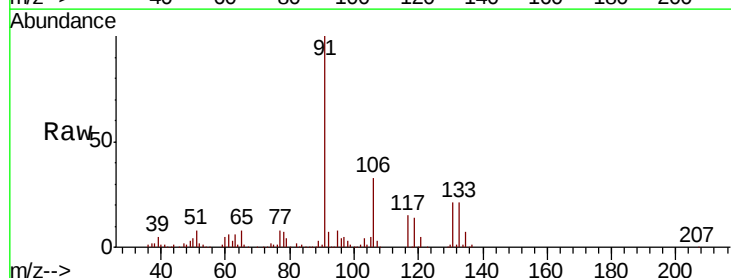
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

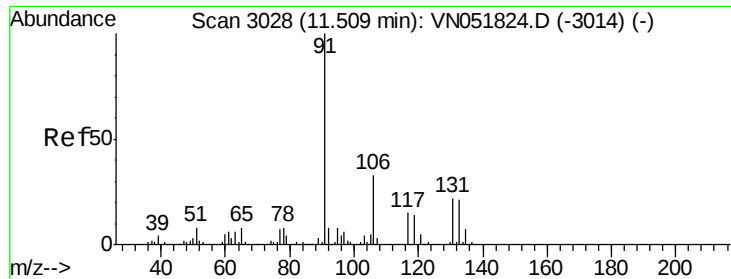
Tot Ion:112 Resp: 216222
Ion Ratio Lower Upper
112 100
114 34.1 27.5 41.3



#65
1,1,1,2-Tetrachloroethane
Concen: 10.029 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion:131 Resp: 80534
Ion Ratio Lower Upper
131 100
133 97.5 0.0 190.4
119 65.1 0.0 128.0

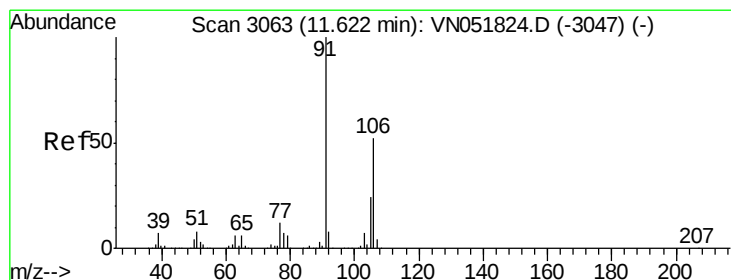
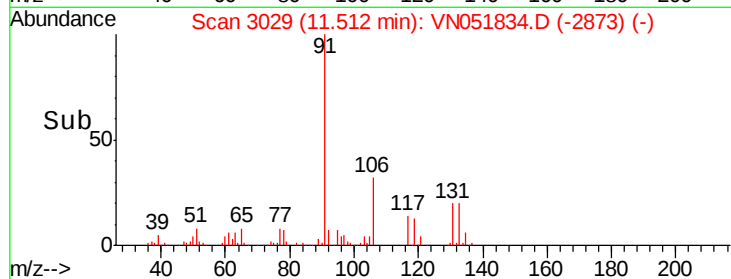
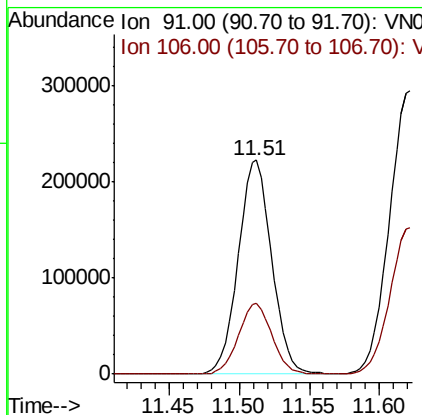
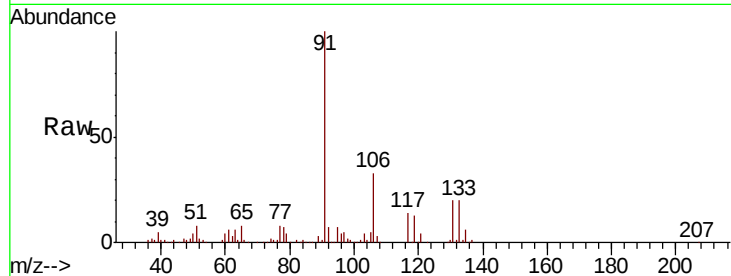




#66
Ethyl Benzene
Concen: 10.478 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

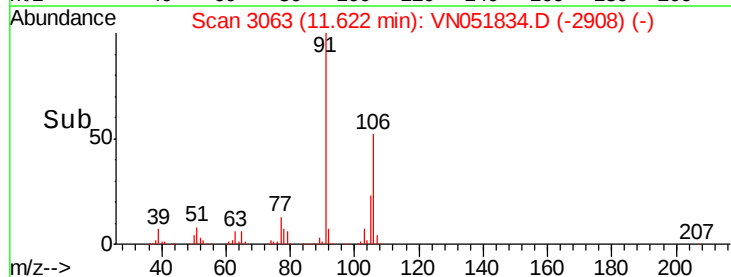
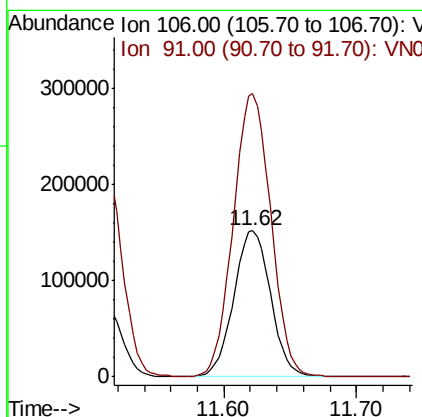
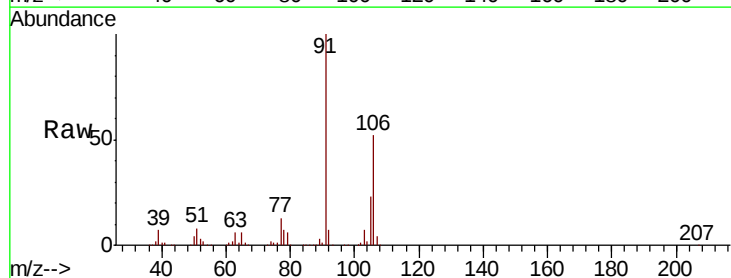
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

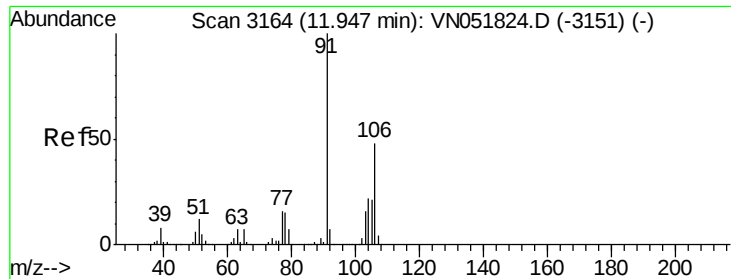
Tot Ion: 91 Resp: 369898
Ion Ratio Lower Upper
91 100
106 33.1 25.9 38.9



#67
m/p-Xylenes
Concen: 20.456 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 106 Resp: 292785
Ion Ratio Lower Upper
106 100
91 198.2 158.8 238.2

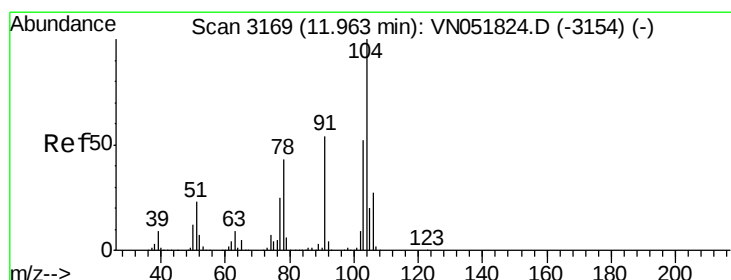
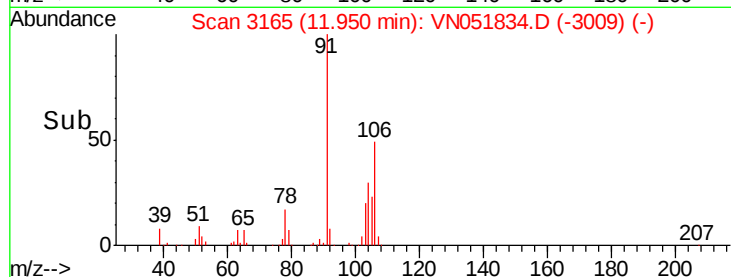
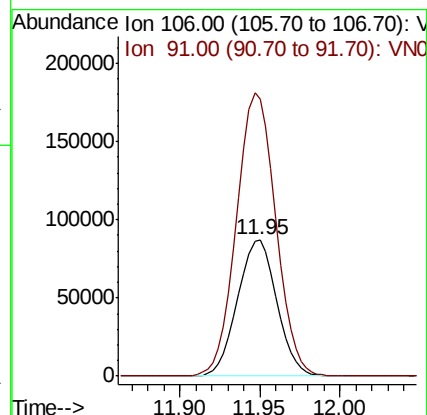
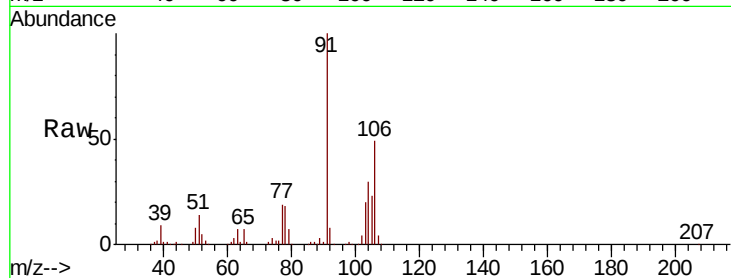




#68
o-Xylene
Concen: 10.328 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

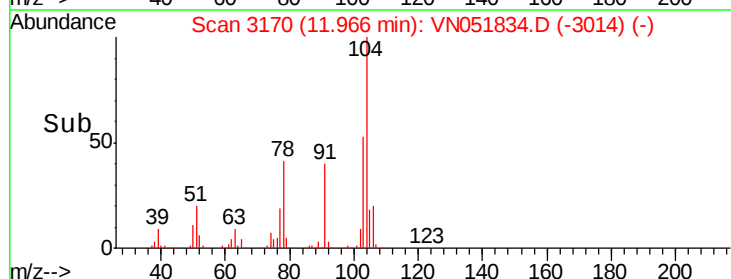
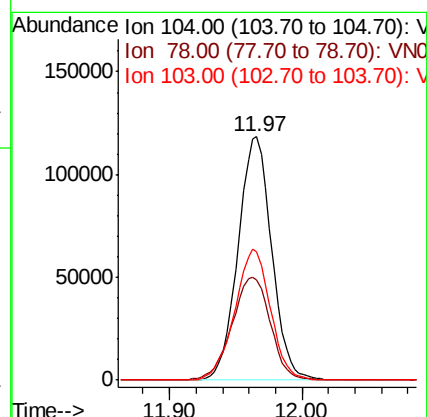
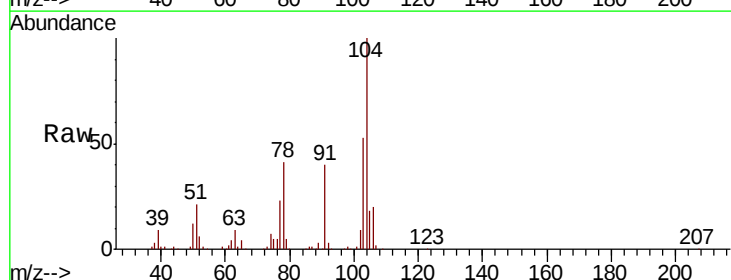
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

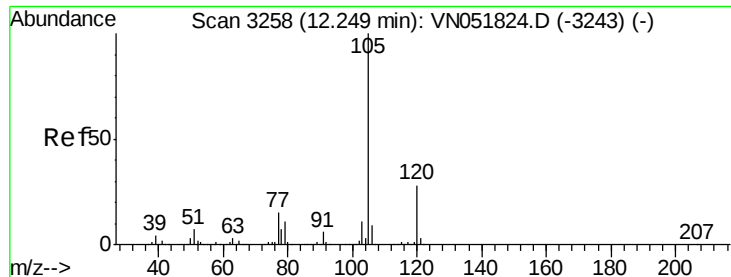
Tot Ion:106 Resp: 145723
Ion Ratio Lower Upper
106 100
91 207.7 111.1 333.3



#69
Styrene
Concen: 9.642 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion:104 Resp: 208743
Ion Ratio Lower Upper
104 100
78 48.3 40.6 60.8
103 56.8 44.0 66.0





#70

Isopropylbenzene

Concen: 10.377 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

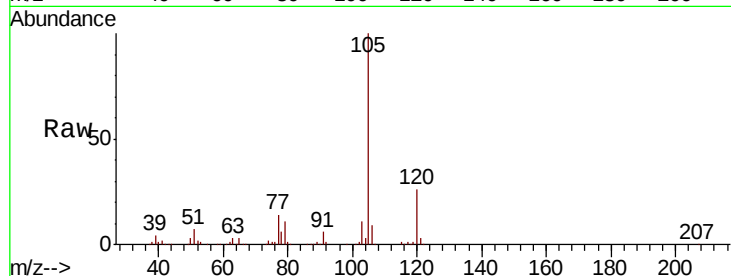
LOQ-WATER-02-QT4-2018

Tot Ion:105 Resp: 390447

Ion Ratio Lower Upper

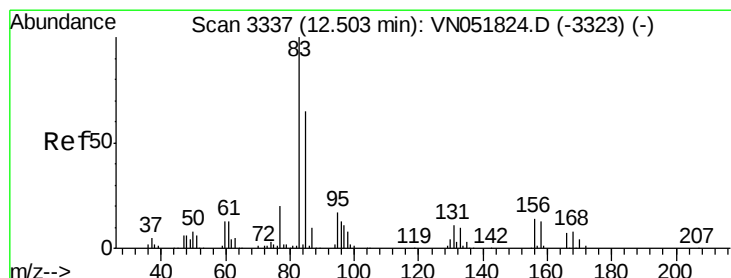
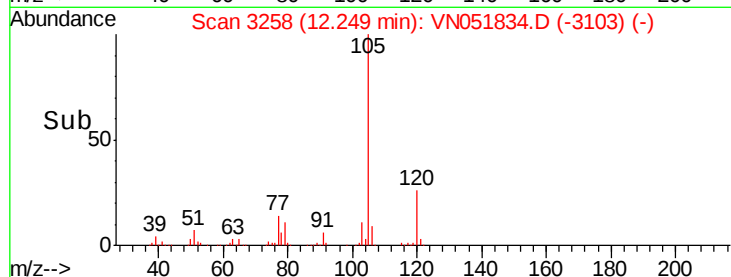
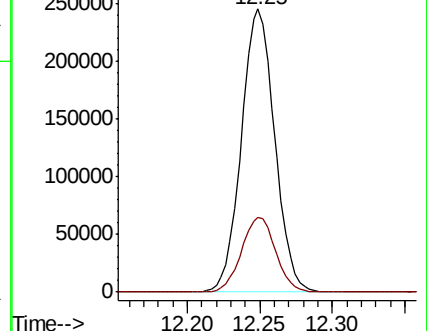
105 100

120 27.1 19.0 35.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#71

1,1,2,2-Tetrachloroethane

Concen: 10.582 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

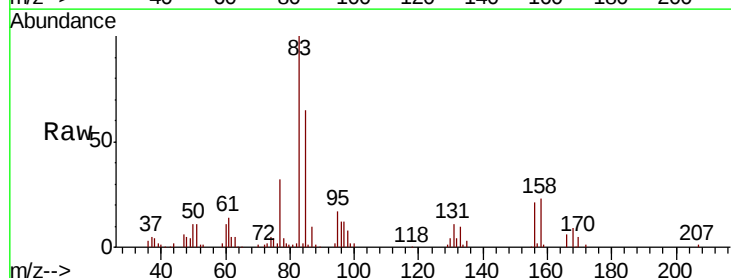
Tgt Ion: 83 Resp: 78634

Ion Ratio Lower Upper

83 100

131 11.8 5.5 16.4

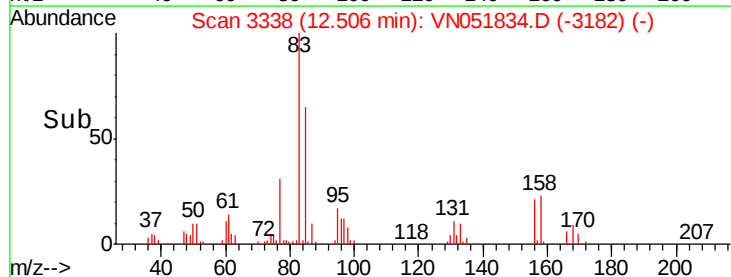
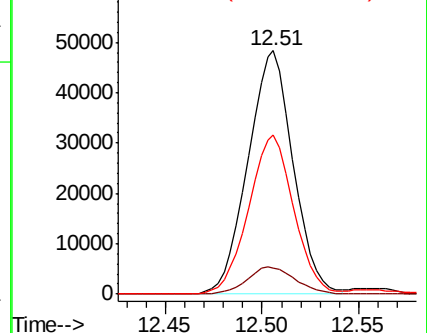
85 65.1 30.6 91.8

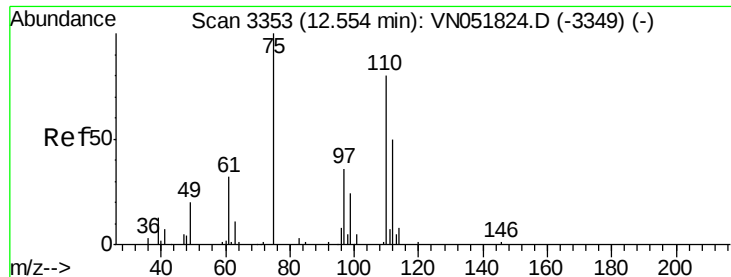


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): V





#72

1,2,3-Trichloropropane

Concen: 15.795 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

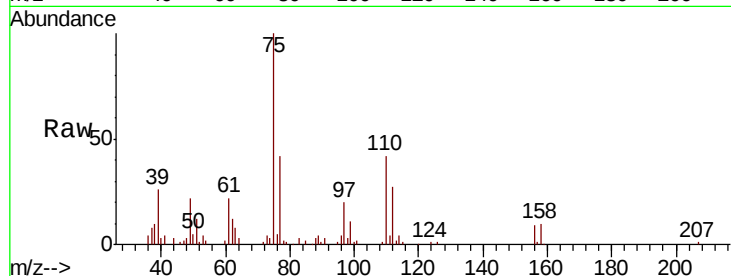
LOQ-WATER-02-QT4-2018

Tot Ion: 75 Resp: 92330

Ion Ratio Lower Upper

75 100

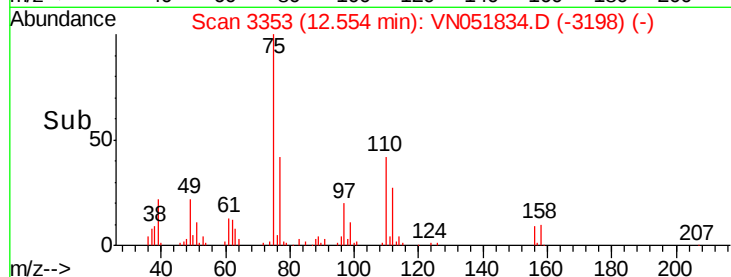
77 152.8 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VN051824.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN051824.D (-3349) (-)

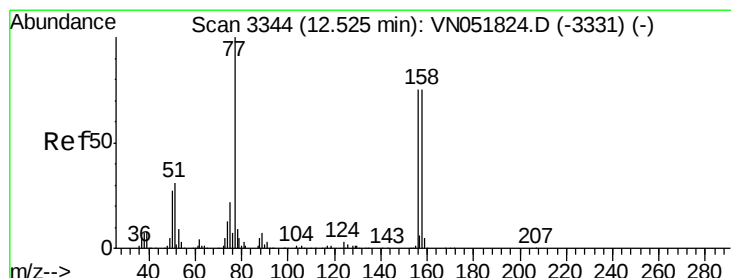
Time-->



Abundance Ion 75.00 (74.70 to 75.70): VN051834.D (-3198) (-)

Ion 77.00 (76.70 to 77.70): VN051834.D (-3198) (-)

Time-->



#73

Bromobenzene

Concen: 9.515 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

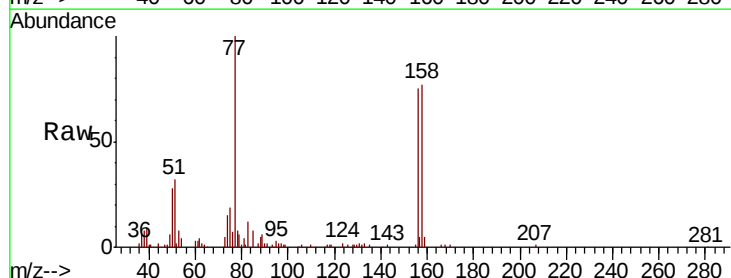
Tgt Ion: 156 Resp: 88680

Ion Ratio Lower Upper

156 100

77 159.0 0.0 377.4

158 103.1 0.0 203.0

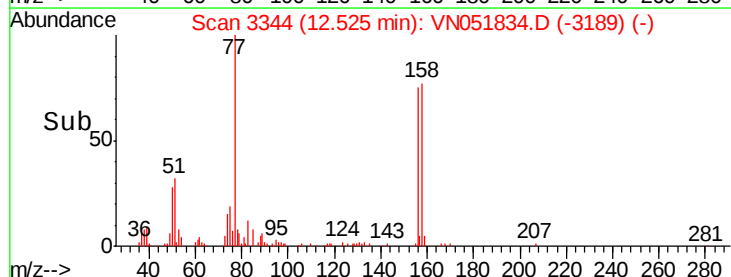


Abundance Ion 156.00 (155.70 to 156.70): VN051824.D (-3331) (-)

Ion 77.00 (76.70 to 77.70): VN051824.D (-3331) (-)

Ion 158.00 (157.70 to 158.70): VN051824.D (-3331) (-)

Time-->

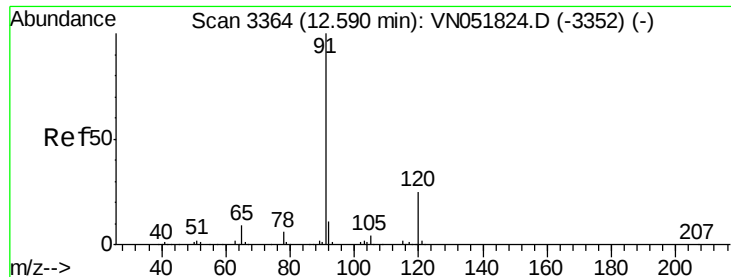


Abundance Ion 156.00 (155.70 to 156.70): VN051834.D (-3189) (-)

Ion 77.00 (76.70 to 77.70): VN051834.D (-3189) (-)

Ion 158.00 (157.70 to 158.70): VN051834.D (-3189) (-)

Time-->



#74

n-propylbenzene

Concen: 9.931 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

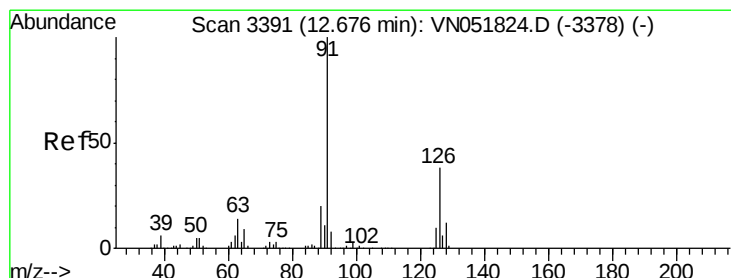
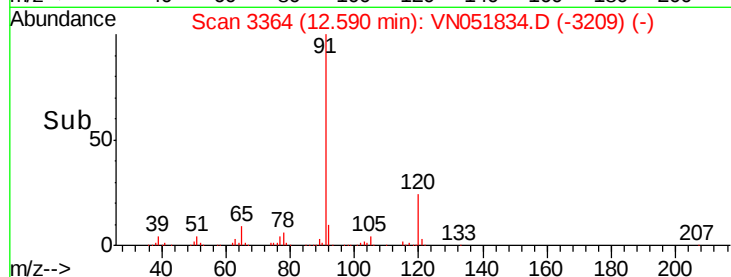
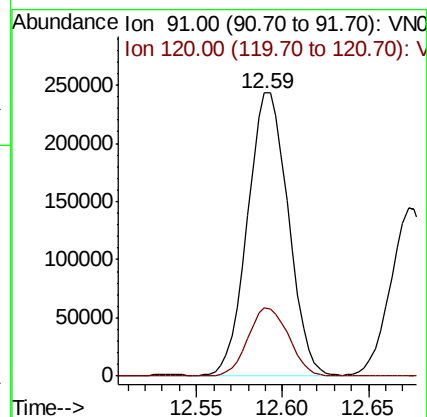
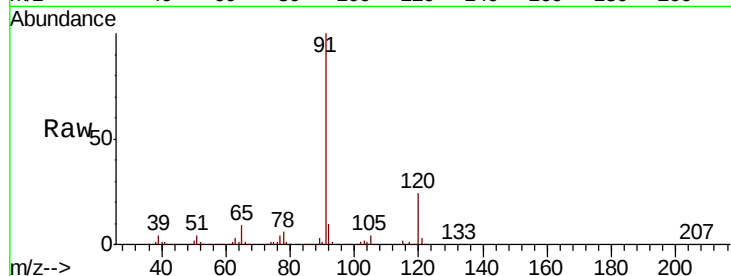
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Tot Ion: 91 Resp: 401926

Ion Ratio Lower Upper

91 100

120 24.1 0.0 45.0



#75

2-Chlorotoluene

Concen: 10.225 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051834.D

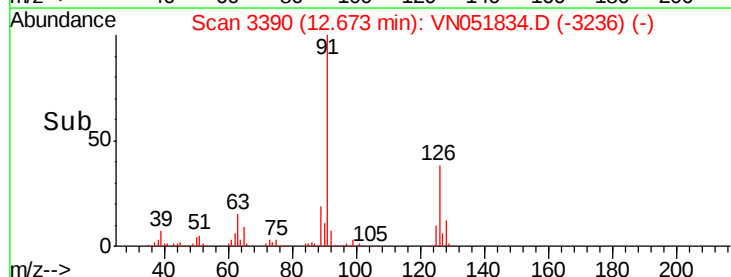
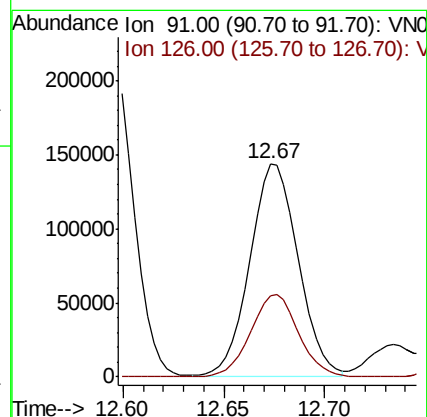
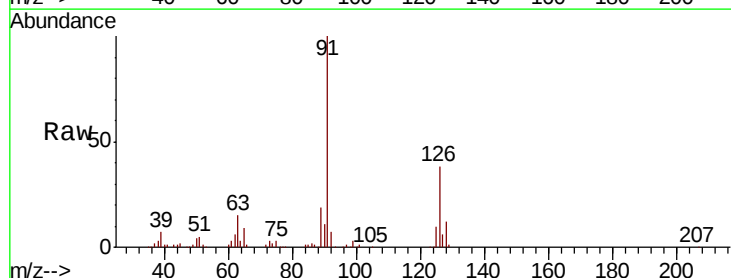
Acq: 12 Oct 2018 15:50

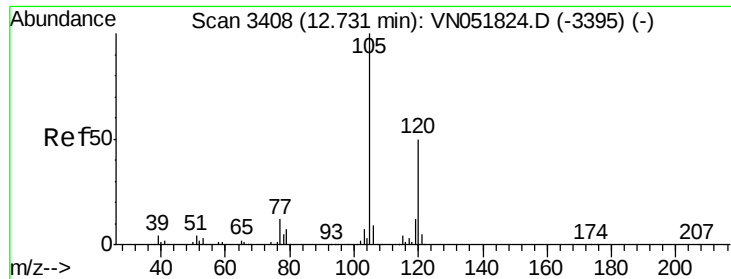
Tgt Ion: 91 Resp: 242633

Ion Ratio Lower Upper

91 100

126 38.1 0.0 67.6





#76

1,3,5-Trimethylbenzene

Concen: 9.955 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

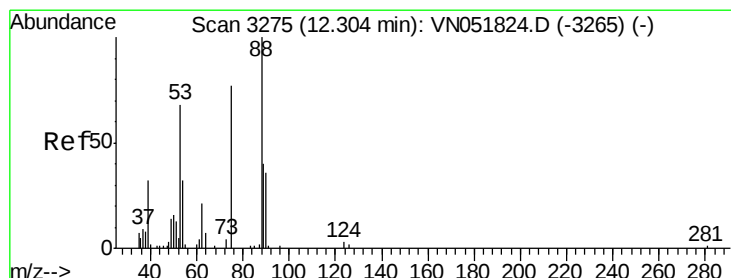
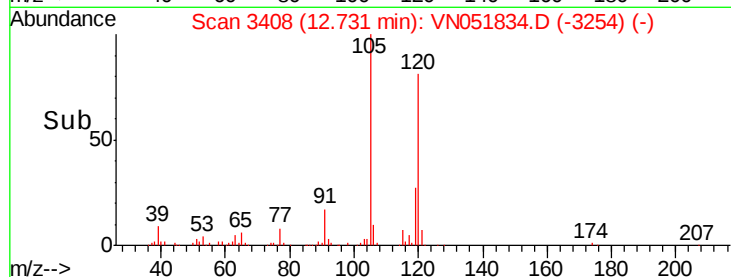
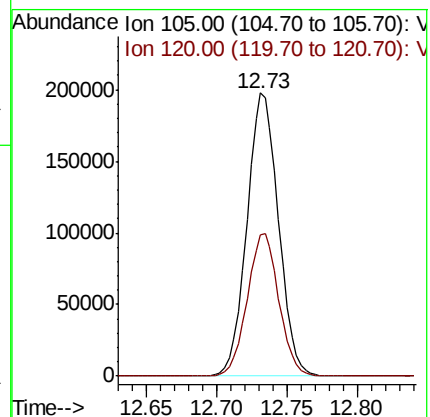
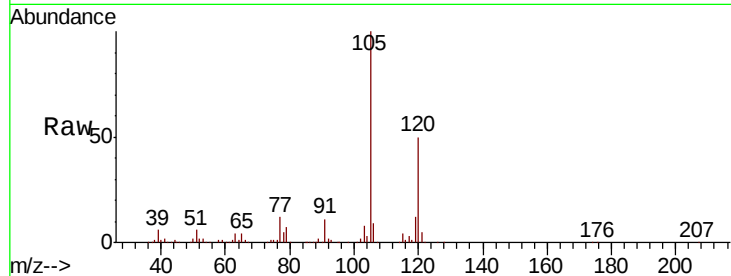
LOQ-WATER-02-QT4-2018

Tot Ion:105 Resp: 309759

Ion Ratio Lower Upper

105 100

120 50.4 0.0 98.2



#77

t-1,4-Dichloro-2-butene

Concen: 7.826 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

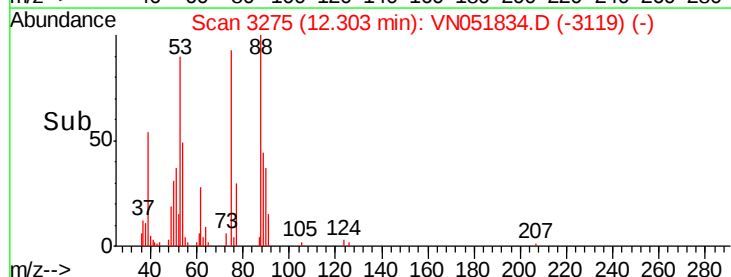
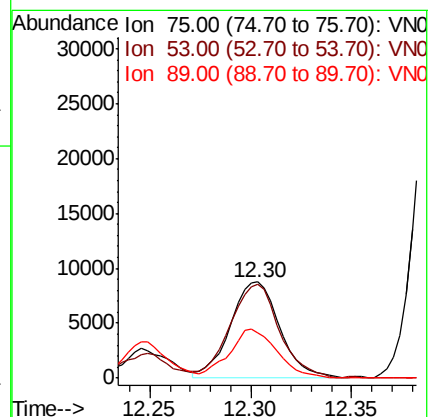
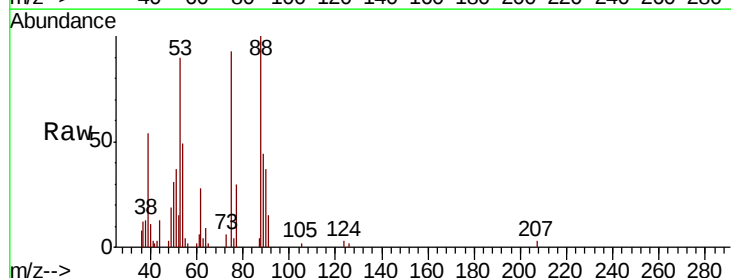
Tgt Ion: 75 Resp: 15130

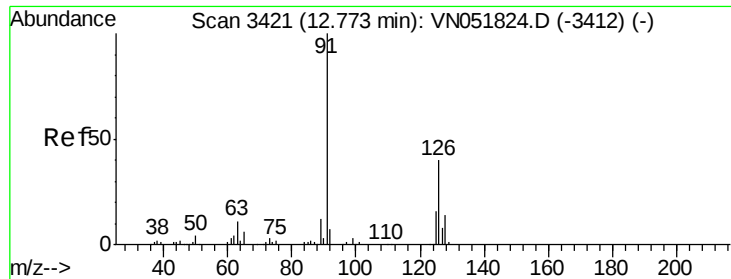
Ion Ratio Lower Upper

75 100

53 97.2 46.3 138.9

89 47.2 24.6 73.8

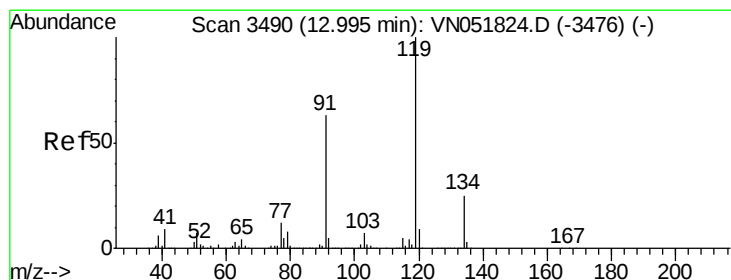
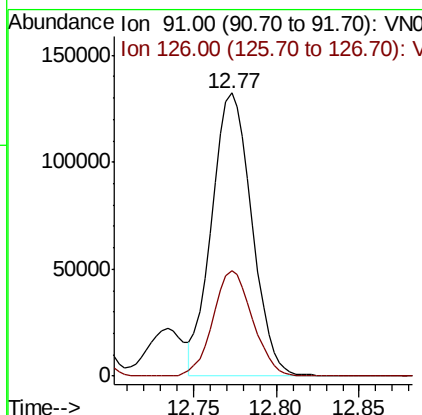
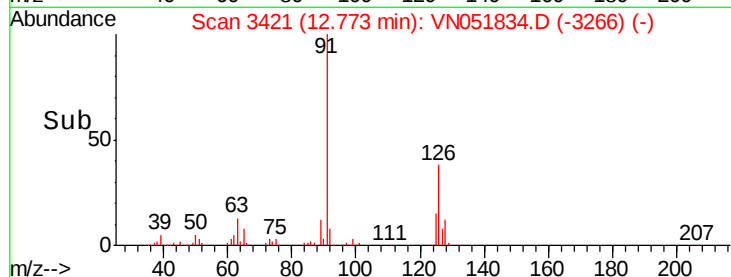
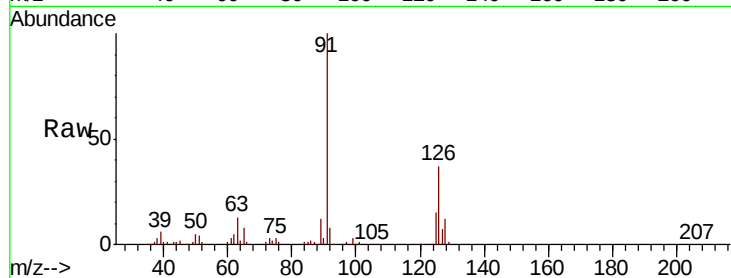




#78
4-Chlorotoluene
Concen: 9.559 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

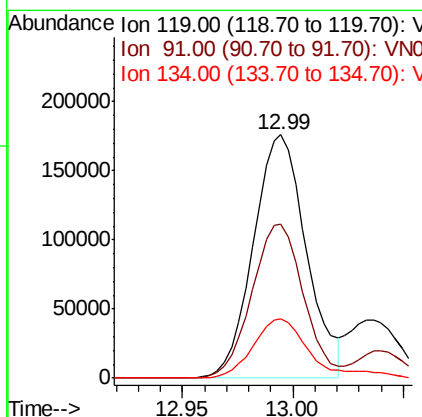
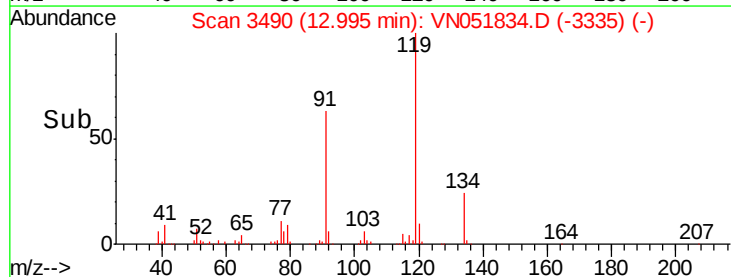
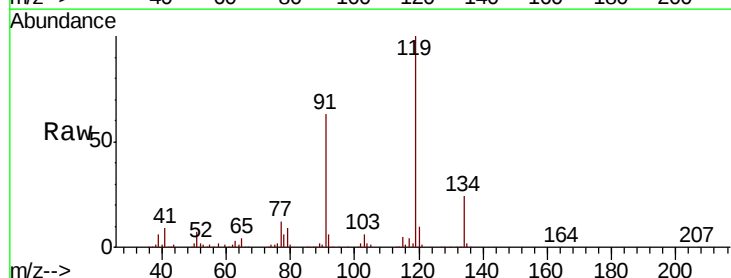
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

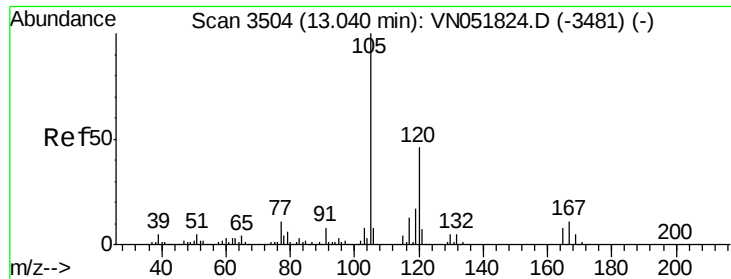
Tot Ion: 91 Resp: 222851
Ion Ratio Lower Upper
91 100
126 36.5 0.0 65.2



#79
tert-butylbenzene
Concen: 10.229 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 119 Resp: 292698
Ion Ratio Lower Upper
119 100
91 61.6 0.0 131.6
134 26.3 0.0 46.2





#80

1,2,4-Trimethylbenzene

Concen: 9.960 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

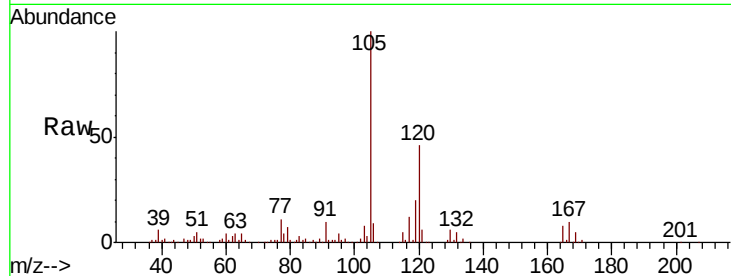
LOQ-WATER-02-QT4-2018

Tot Ion:105 Resp: 309723

Ion Ratio Lower Upper

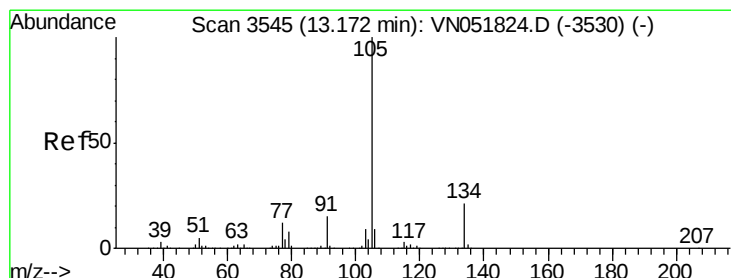
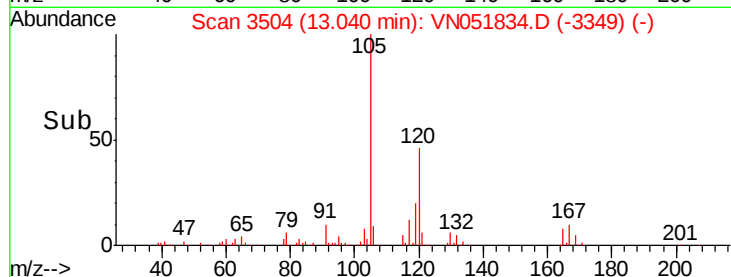
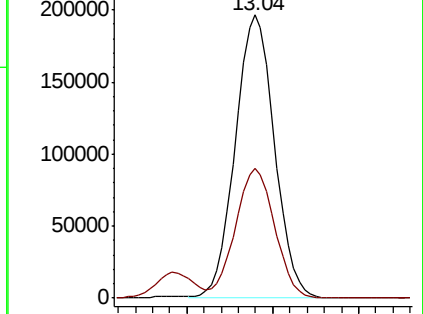
105 100

120 46.1 0.0 89.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

sec-Butylbenzene

Concen: 9.813 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051834.D

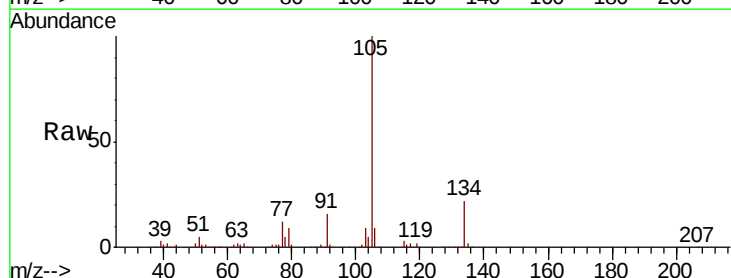
Acq: 12 Oct 2018 15:50

Tgt Ion:105 Resp: 367338

Ion Ratio Lower Upper

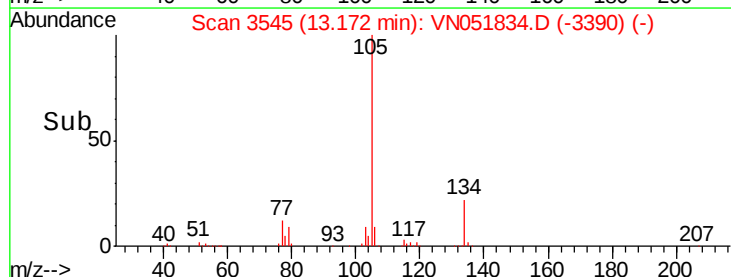
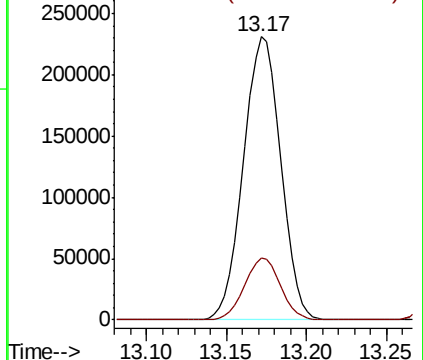
105 100

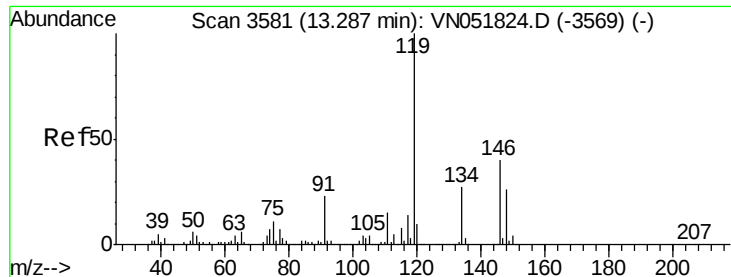
134 21.1 0.0 39.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

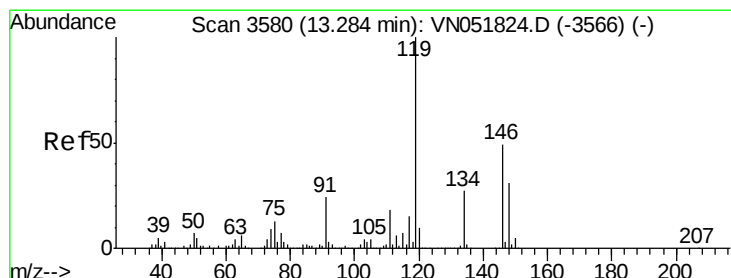
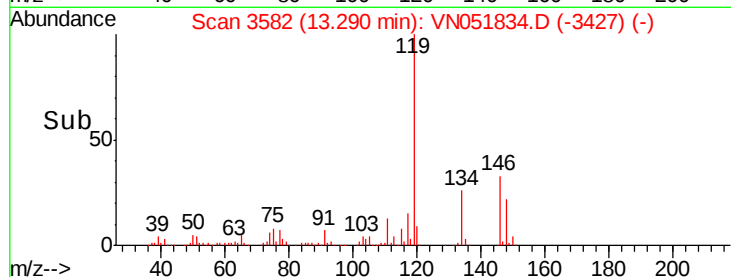
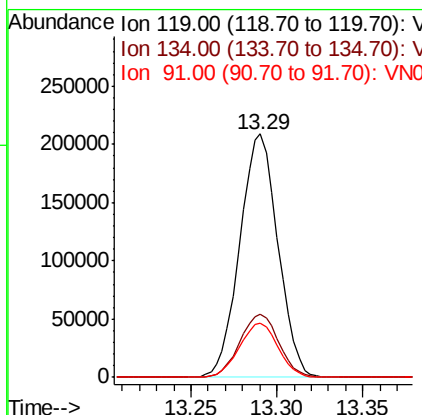
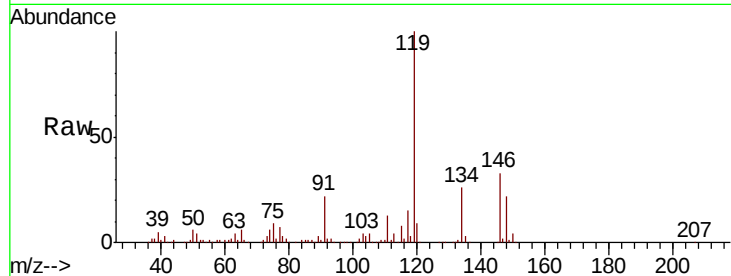




#82
 p-Isopropyltoluene
 Concen: 9.566 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

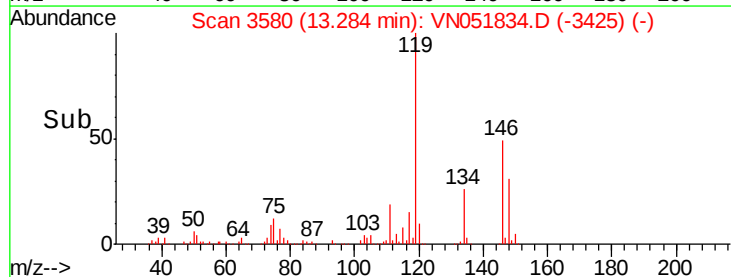
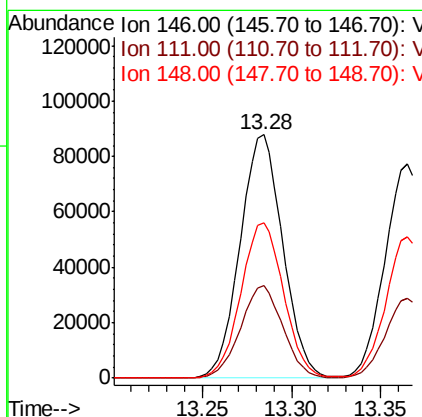
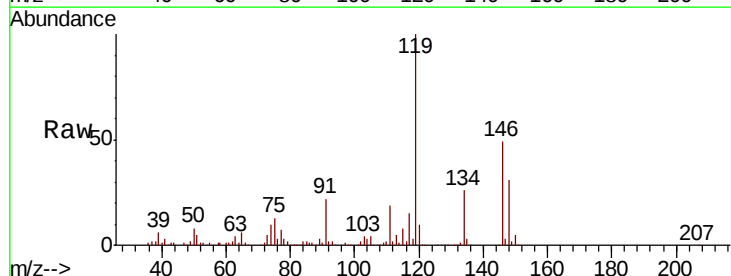
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

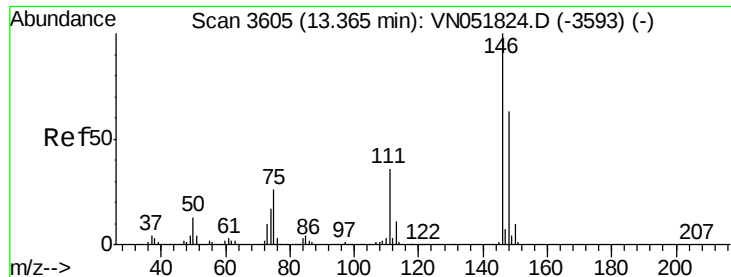
Tot Ion:119 Resp: 320420
 Ion Ratio Lower Upper
 119 100
 134 26.5 0.0 53.6
 91 22.6 0.0 52.0



#83
 1,3-Dichlorobenzene
 Concen: 8.952 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion:146 Resp: 147212
 Ion Ratio Lower Upper
 146 100
 111 37.6 18.1 54.3
 148 63.8 31.3 93.8





#84

1,4-Dichlorobenzene

Concen: 8.478 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

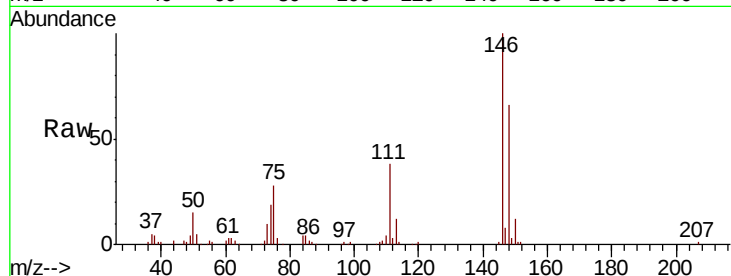
Tot Ion:146 Resp: 131262

Ion Ratio Lower Upper

146 100

111 36.7 17.4 52.2

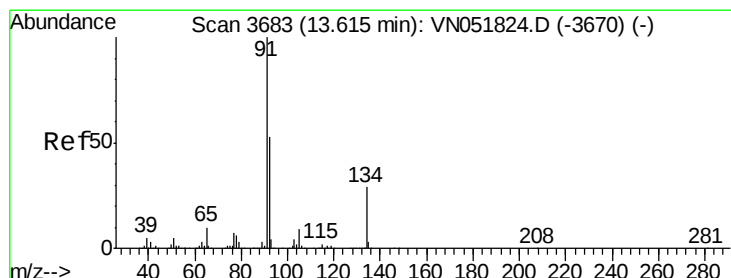
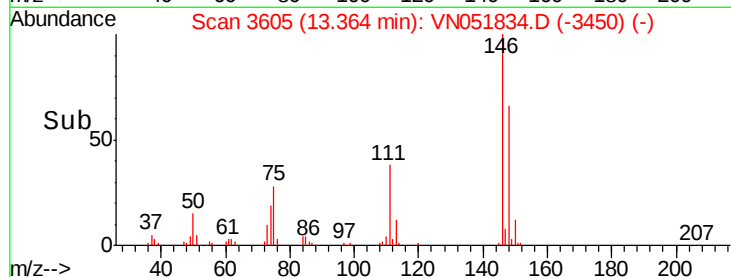
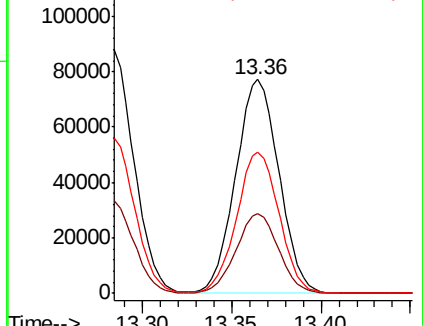
148 64.8 32.8 98.3



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



#85

n-Butylbenzene

Concen: 8.880 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

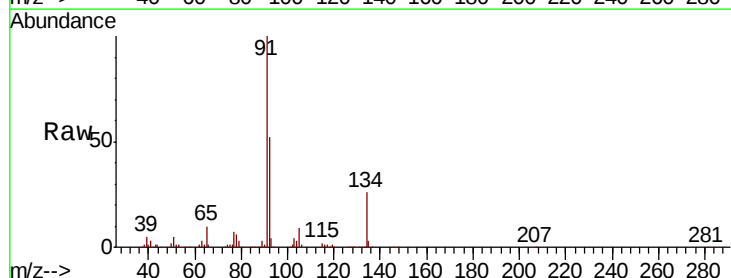
Tgt Ion: 91 Resp: 224288

Ion Ratio Lower Upper

91 100

92 50.6 0.0 97.4

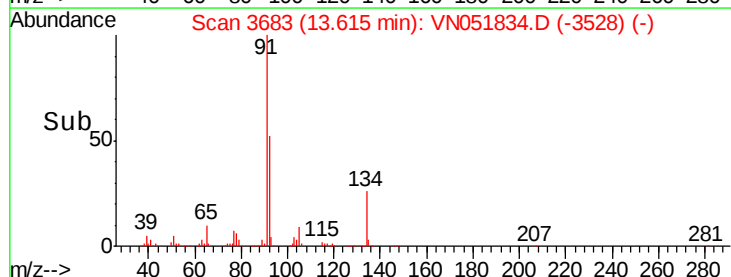
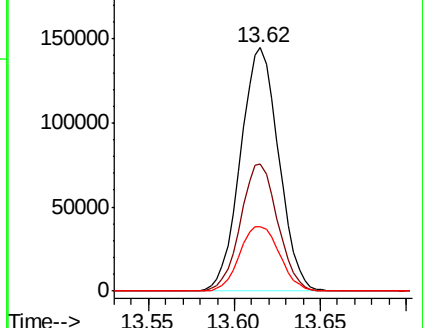
134 27.7 0.0 49.6

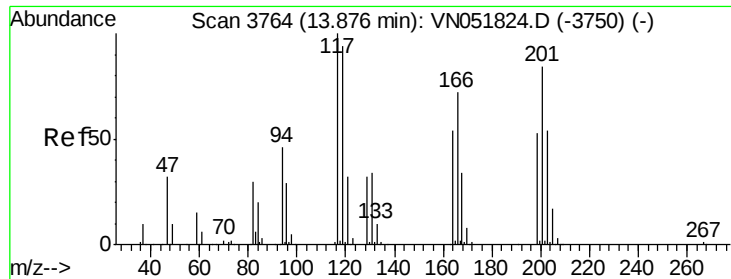


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

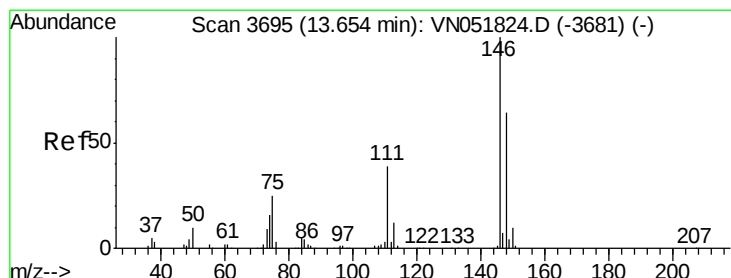
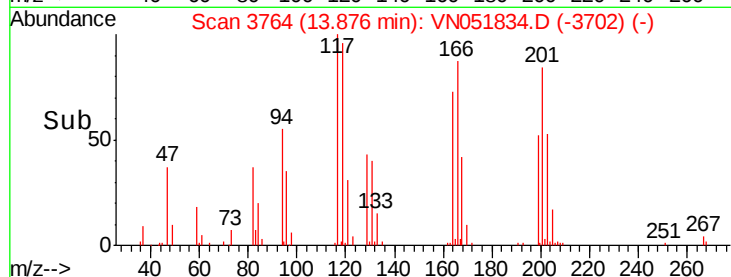
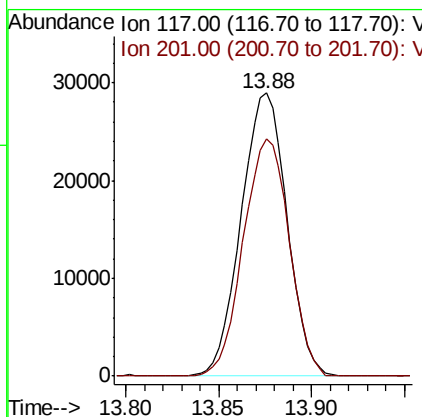
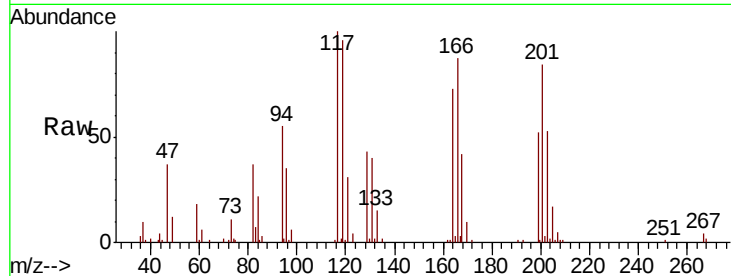




#86
Hexachloroethane
Concen: 8.662 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

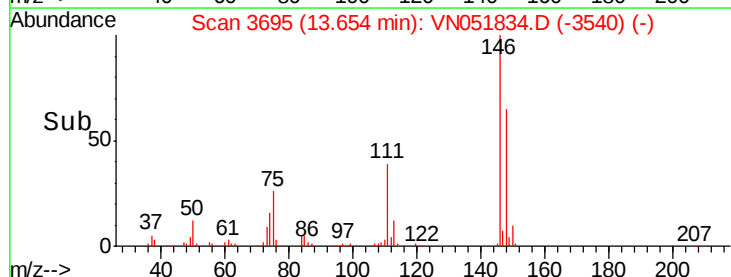
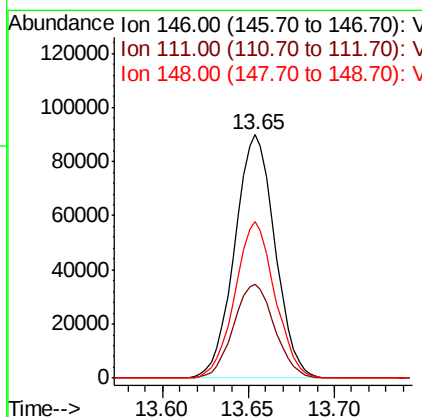
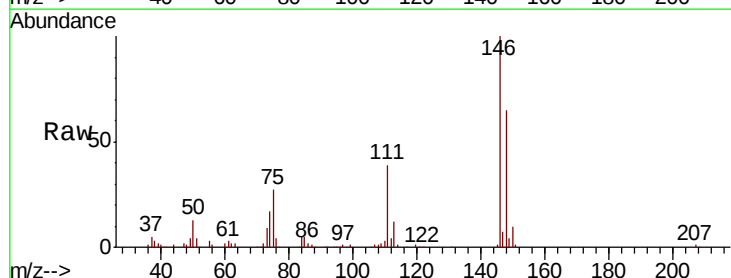
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

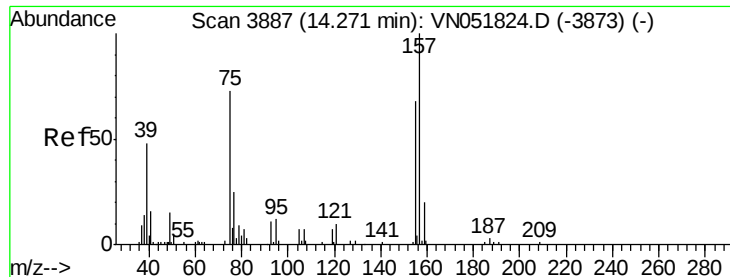
Tot Ion:117 Resp: 50030
Ion Ratio Lower Upper
117 100
201 83.8 47.8 143.3



#87
1,2-Dichlorobenzene
Concen: 9.209 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion:146 Resp: 146628
Ion Ratio Lower Upper
146 100
111 39.4 20.8 62.2
148 63.8 33.2 99.6





#88

1,2-Dibromo-3-Chloropropane

Concen: 9.659 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

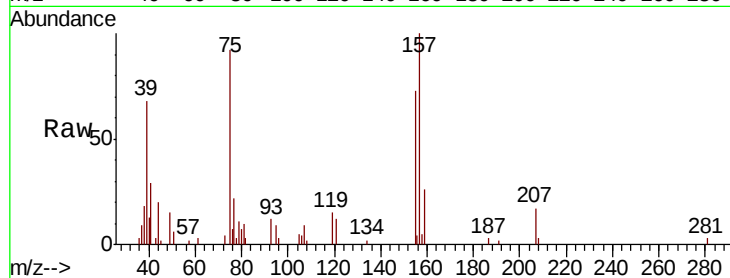
Tot Ion: 75 Resp: 10718

Ion Ratio Lower Upper

75 100

155 91.6 57.0 85.6#

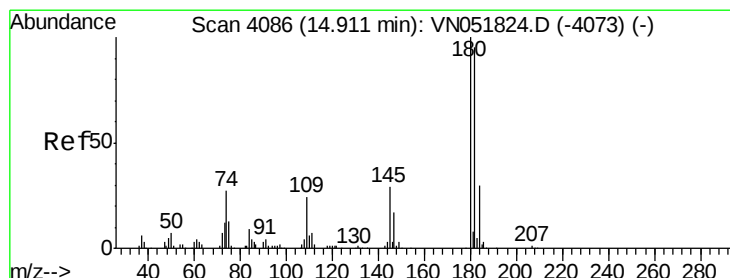
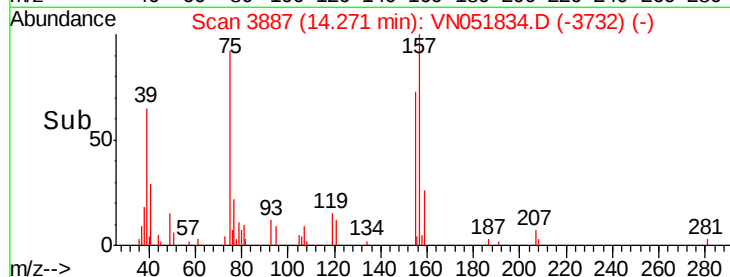
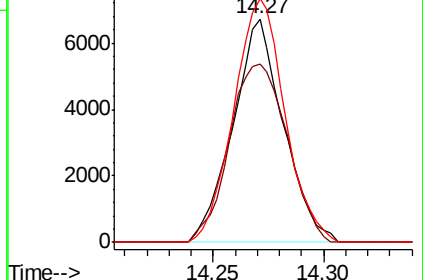
157 110.1 87.4 131.0



Abundance Ion 75.00 (74.70 to 75.70): VN051824.D (-3873) (-)

Ion 155.00 (154.70 to 155.70): VN051824.D (-3873) (-)

Ion 157.00 (156.70 to 157.70): VN051824.D (-3873) (-)



#89

1,2,4-Trichlorobenzene

Concen: 12.059 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

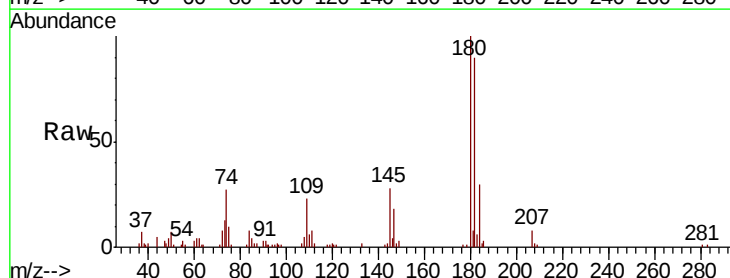
Tgt Ion: 180 Resp: 45515

Ion Ratio Lower Upper

180 100

182 92.9 77.7 116.5

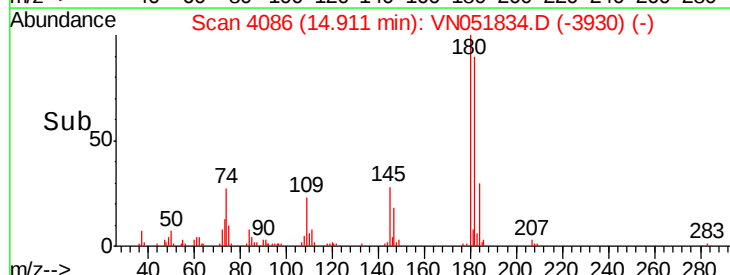
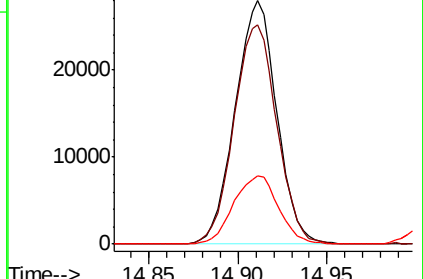
145 30.2 23.4 35.2

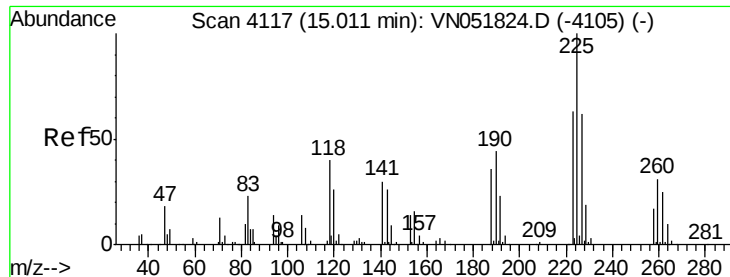


Abundance Ion 180.00 (179.70 to 180.70): VN051824.D (-4073) (-)

Ion 182.00 (181.70 to 182.70): VN051824.D (-4073) (-)

Ion 145.00 (144.70 to 145.70): VN051824.D (-4073) (-)





#90

Hexachlorobutadiene

Concen: 9.665 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

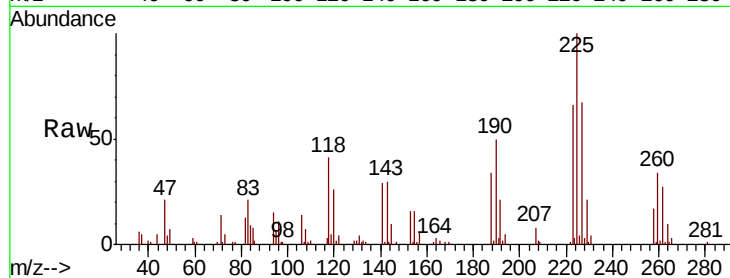
Tot Ion:225 Resp: 49591

Ion Ratio Lower Upper

225 100

223 62.3 0.0 117.0

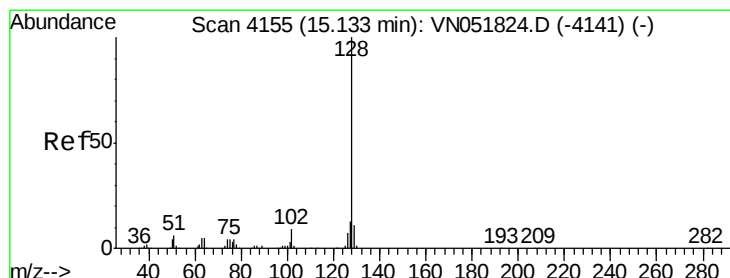
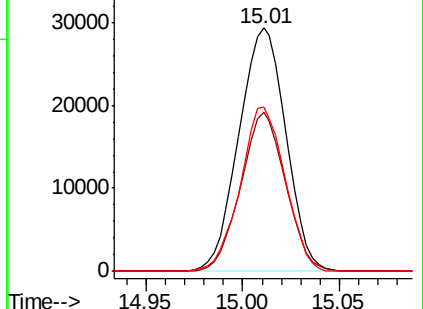
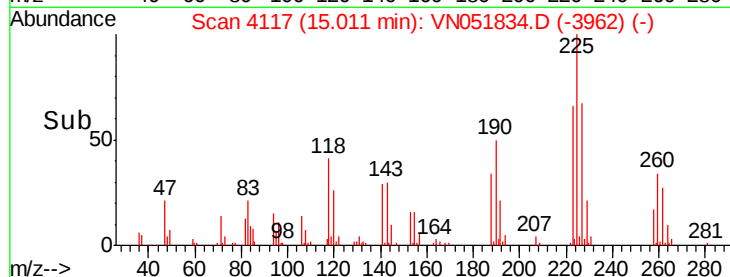
227 64.5 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 12.819 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

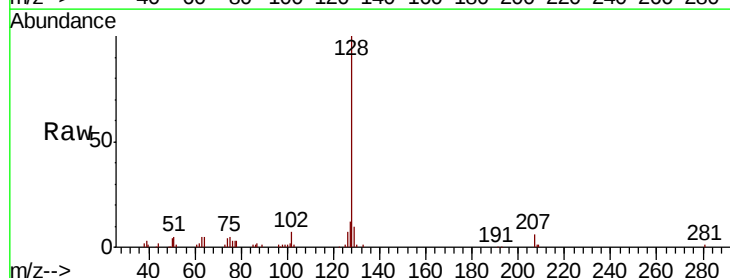
Tgt Ion:128 Resp: 93324

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

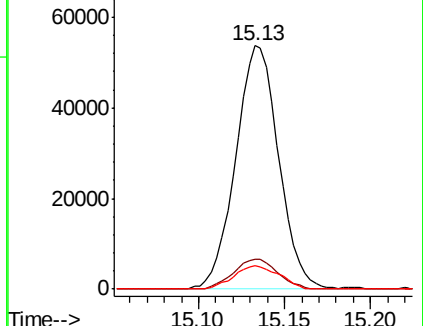
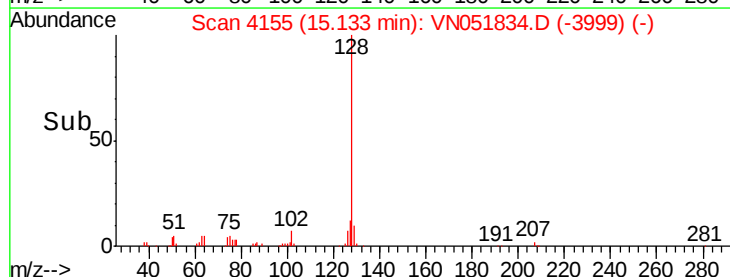
129 10.2 8.4 12.6

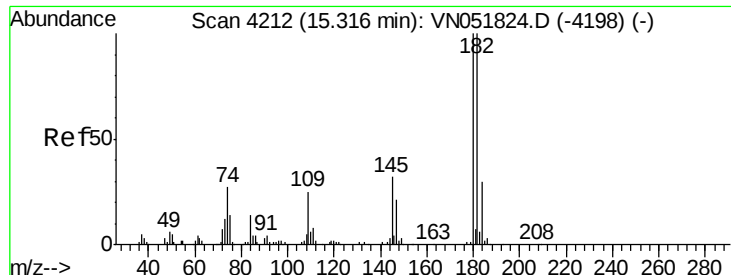


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#92
 1,2,3-Trichlorobenzene
 Concen: 6.957 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.4	0.0	198.0
145	29.6	0.0	36.8

