

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052319.D
 Acq On : 14 Nov 2018 18:02
 Operator : MD\SY
 Sample : J5164-08 2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

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

Quant Time: Nov 15 04:02:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	251127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	436356	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	376633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138510	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	185705	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
35) Dibromofluoromethane	7.59	113	139983	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
50) Toluene-d8	10.09	98	535036	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
62) 4-Bromofluorobenzene	12.40	95	161773	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	4988	1.874	ug/l	95
3) Chloromethane	2.06	50	7461	2.018	ug/l	92
4) Vinyl Chloride	2.19	62	6194	1.938	ug/l	89
5) Bromomethane	2.57	94	4303	2.159	ug/l	95
6) Chloroethane	2.71	64	4225	2.338	ug/l	90
7) Trichlorofluoromethane	3.02	101	9060	2.048	ug/l	98
8) Diethyl Ether	3.42	74	3601	2.136	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.77	101	5458	1.954	ug/l #	77
10) Methyl Iodide	3.96	142	6780	1.808	ug/l #	91
11) Tert butyl alcohol	4.77	59	291	1.554	ug/l #	72
12) 1,1-Dichloroethene	3.74	96	5380	2.081	ug/l	92
13) Acrolein	3.61	56	3175	32.030	ug/l	97
14) Allyl chloride	4.33	41	8782	1.654	ug/l #	81
15) Acrylonitrile	4.99	53	11534	10.784	ug/l	98
16) Acetone	3.82	43	10445	10.696	ug/l	95
17) Carbon Disulfide	4.06	76	14752	1.990	ug/l	96
18) Methyl Acetate	4.33	43	6592	2.820	ug/l #	73
19) Methyl tert-butyl Ether	5.05	73	11043	1.486	ug/l #	81
20) Methylene Chloride	4.55	84	7487	1.846	ug/l	90
21) trans-1,2-Dichloroethene	5.05	96	5947	2.137	ug/l	87
22) Diisopropyl ether	5.95	45	21887	2.021	ug/l #	86
23) Vinyl Acetate	5.90	43	70771	9.633	ug/l #	94
24) 1,1-Dichloroethane	5.86	63	12325	2.122	ug/l	98
25) 2-Butanone	6.84	43	13974	10.166	ug/l	94
26) 2,2-Dichloropropane	6.83	77	8304	1.945	ug/l	84
27) cis-1,2-Dichloroethene	6.82	96	2901	0.895	ug/l #	1
28) Bromochloromethane	7.20	49	6146	2.058	ug/l #	99
29) Tetrahydrofuran	7.22	42	8919	9.877	ug/l	95
30) Chloroform	7.37	83	18933	3.421	ug/l	89
31) Cyclohexane	7.66	56	17003	2.138	ug/l #	72
32) 1,1,1-Trichloroethane	7.57	97	9357	1.985	ug/l	98
36) 1,1-Dichloropropene	7.79	75	9017	2.062	ug/l	98
37) Ethyl Acetate	6.94	43	6256	1.971	ug/l #	96
38) Carbon Tetrachloride	7.78	117	8010	1.993	ug/l	91

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

39) Methylcyclohexane	9.08	83	9260	1.855	ug/l	96
40) Benzene	8.04	78	25928	2.075	ug/l	98
41) Methacrylonitrile	7.17	41	2058	4.777	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	9053	2.032	ug/l	99
43) Isopropyl Acetate	8.17	43	12719	2.077	ug/l #	95
44) Trichloroethene	8.83	130	6167	2.004	ug/l	89
45) 1,2-Dichloropropane	9.12	63	7260	2.047	ug/l	99
46) Dibromomethane	9.21	93	4340	2.114	ug/l	98
47) Bromodichloromethane	9.40	83	8538	2.027	ug/l	87
48) Methyl methacrylate	9.20	41	6539	2.104	ug/l	89
49) 1,4-Dioxane	9.20	88	1238	51.891	ug/l #	37
51) 4-Methyl-2-Pentanone	9.99	43	29865	9.687	ug/l	99
52) Toluene	10.16	92	15362	2.055	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	7526	1.772	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	8983	1.855	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	5638	2.081	ug/l	96
56) Ethyl methacrylate	10.43	69	6515	1.828	ug/l	87
57) 1,3-Dichloropropane	10.71	76	9611	2.003	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.69	63	18460	9.099	ug/l	99
59) 2-Hexanone	10.75	43	19148	9.029	ug/l	98
60) Dibromochloromethane	10.90	129	4948	1.688	ug/l	89
61) 1,2-Dibromoethane	11.01	107	5263	1.950	ug/l	99
64) Tetrachloroethene	10.63	164	5481	2.047	ug/l	99
65) Chlorobenzene	11.43	112	16748	2.104	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.51	131	5319	1.959	ug/l	95
67) Ethyl Benzene	11.51	91	27646	2.001	ug/l	93
68) m/p-Xylenes	11.62	106	19358	3.834	ug/l	99
69) o-Xylene	11.95	106	9315	1.925	ug/l	99
70) Styrene	11.96	104	13796	1.780	ug/l	97
71) Bromoform	12.12	173	2737	1.708	ug/l #	99
73) Isopropylbenzene	12.25	105	24280	2.180	ug/l	99
74) N-amyl acetate	12.07	43	9156	2.308	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	6690	2.485	ug/l	96
76) 1,2,3-Trichloropropane	12.56	75	7778	3.309	ug/l #	100
77) Bromobenzene	12.53	156	5919	2.284	ug/l	99
78) n-propylbenzene	12.59	91	28387	2.180	ug/l	94
79) 2-Chlorotoluene	12.67	91	17438	2.292	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	18855	2.129	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	90511	124.907	ug/l #	5
82) 4-Chlorotoluene	12.77	91	16864	2.163	ug/l	98
83) tert-Butylbenzene	12.99	119	18016	2.304	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	17666	1.987	ug/l	97
85) sec-Butylbenzene	13.17	105	22047	2.070	ug/l	97
86) p-Isopropyltoluene	13.29	119	17376	1.926	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	9824	2.135	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	9631	2.105	ug/l	81
89) n-Butylbenzene	13.62	91	13518	1.745	ug/l	97
90) Hexachloroethane	13.88	117	2845	1.780	ug/l	87
91) 1,2-Dichlorobenzene	13.65	146	9793	2.197	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1019	2.567	ug/l	76

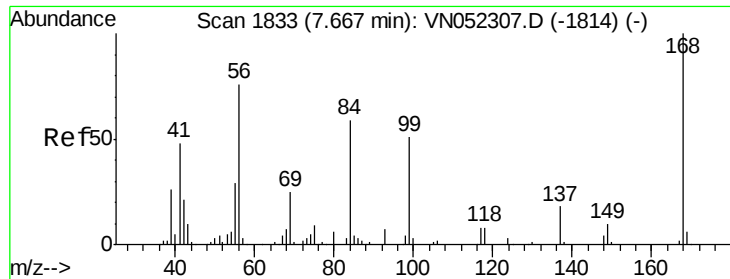
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	2782	3.538	ug/l	98
94) Hexachlorobutadiene	15.01	225	2130	2.087	ug/l	92
95) Naphthalene	15.13	128	6270	3.817	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.31	180	2509	1.481	ug/l	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

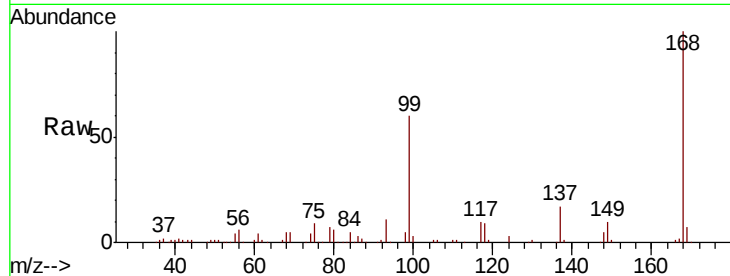
LOQ-WATER-02-QT4-2018

Tot Ion:168 Resp: 251127

Ion Ratio Lower Upper

168 100

99 59.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

60000

40000

20000

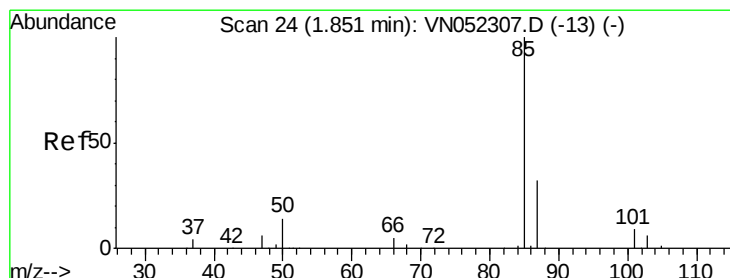
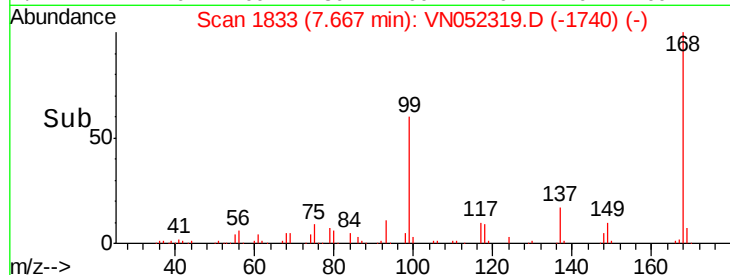
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Time-->

7.60

7.70

7.80



#2

Dichlorodifluoromethane

Concen: 1.874 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052319.D

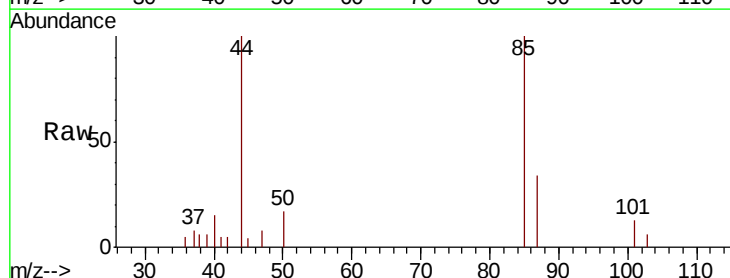
Acq: 14 Nov 2018 18:02

Tgt Ion: 85 Resp: 4988

Ion Ratio Lower Upper

85 100

87 34.5 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

4000

3000

2000

1000

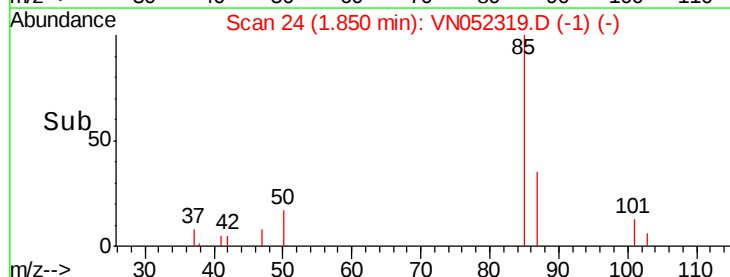
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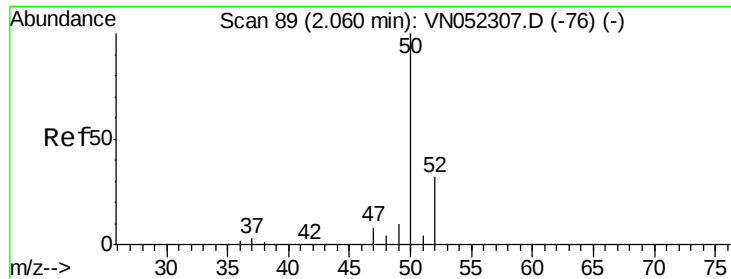
Time-->

1.80

1.85

1.90





#3

Chloromethane

Concen: 2.018 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

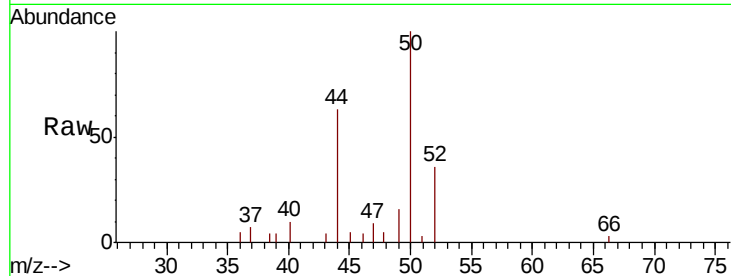
LOQ-WATER-02-QT4-2018

Tot Ion: 50 Resp: 7461

Ion Ratio Lower Upper

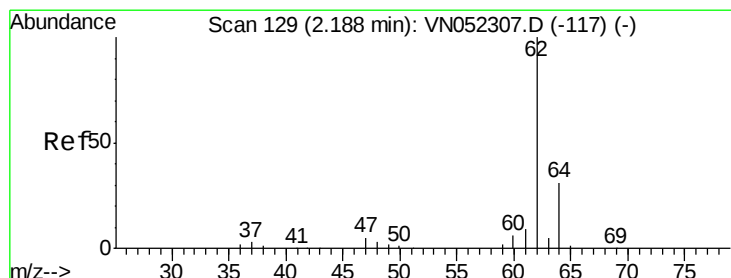
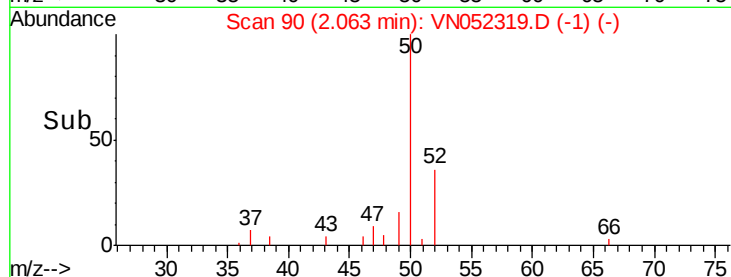
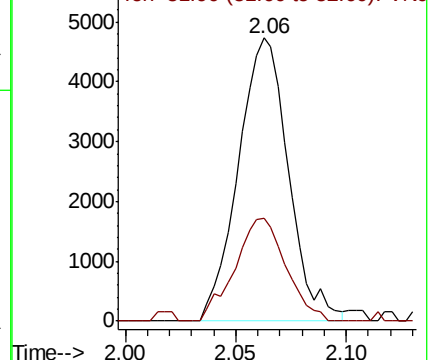
50 100

52 36.4 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 1.938 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052319.D

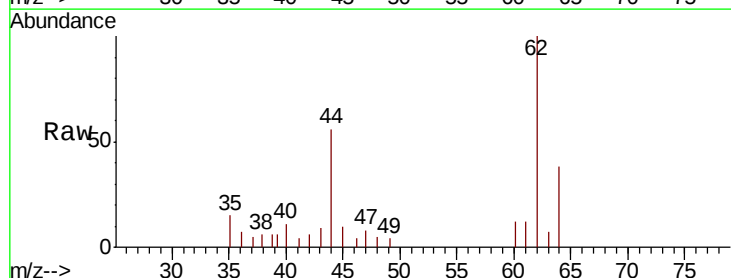
Acq: 14 Nov 2018 18:02

Tgt Ion: 62 Resp: 6194

Ion Ratio Lower Upper

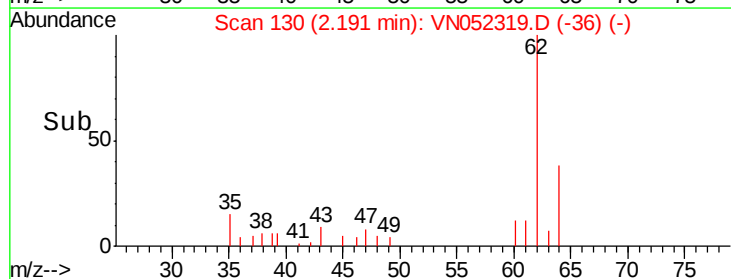
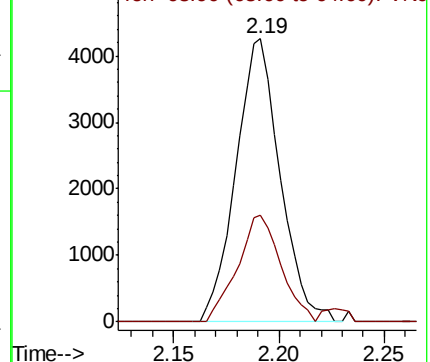
62 100

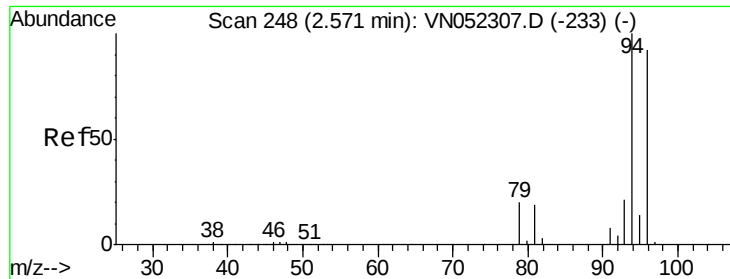
64 37.5 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

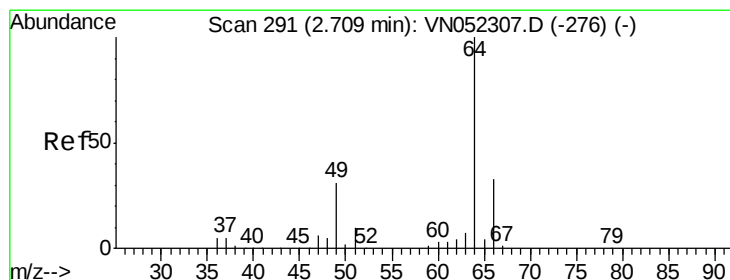
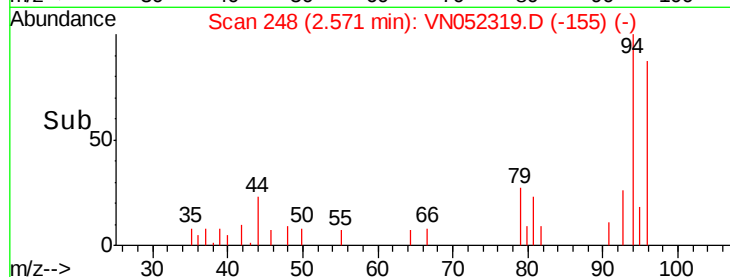
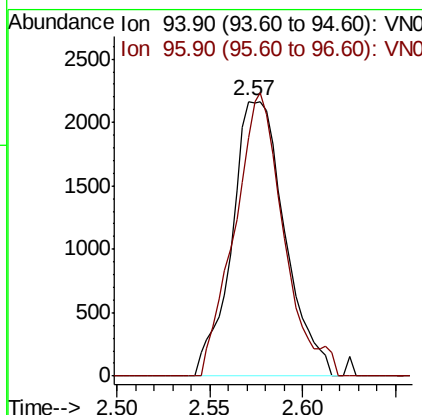
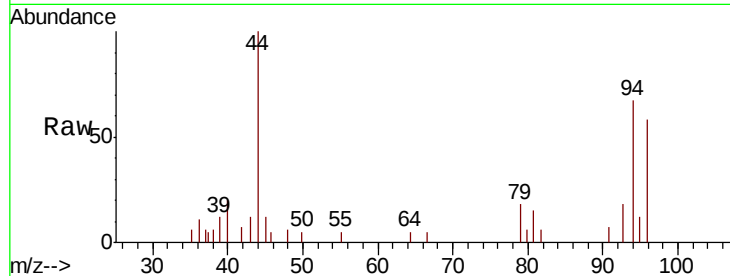




#5
Bromomethane
Concen: 2.159 ug/l
RT: 2.57 min Scan# 248
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

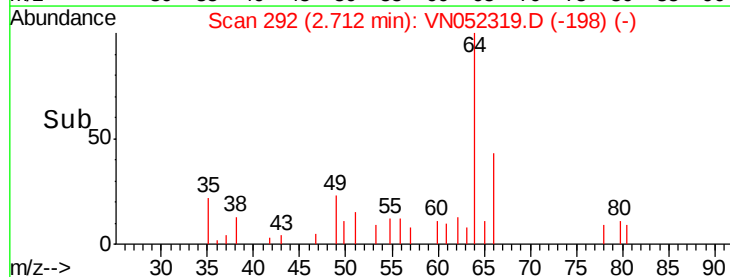
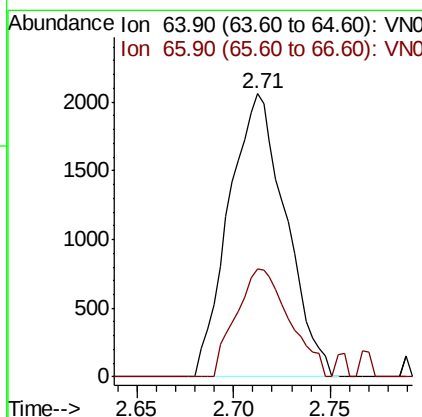
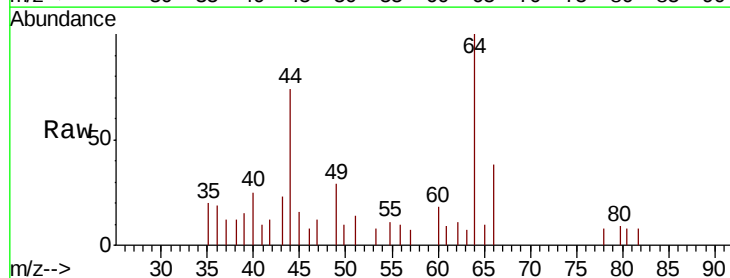
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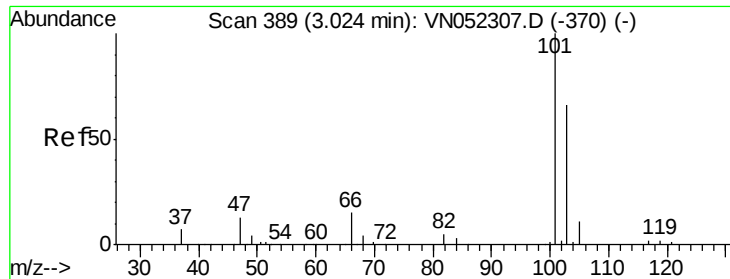
Tot Ion: 94 Resp: 4303
Ion Ratio Lower Upper
94 100
96 86.8 73.6 110.4



#6
Chloroethane
Concen: 2.338 ug/l
RT: 2.71 min Scan# 292
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 64 Resp: 4225
Ion Ratio Lower Upper
64 100
66 38.2 26.2 39.2



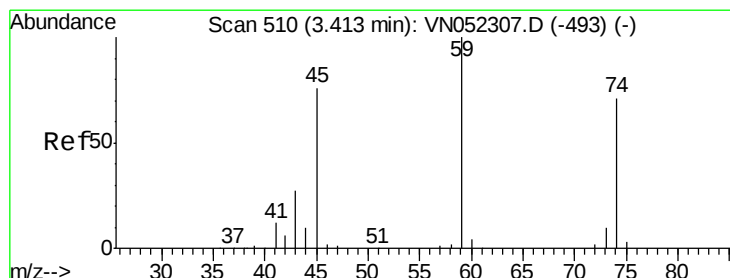
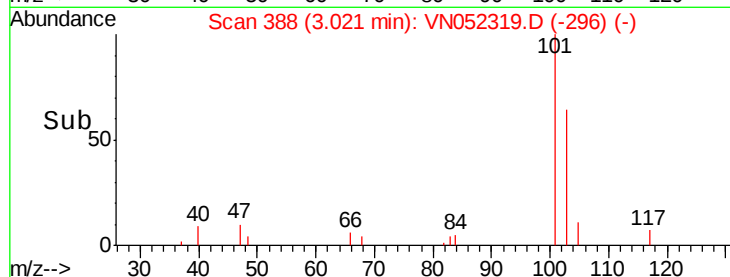
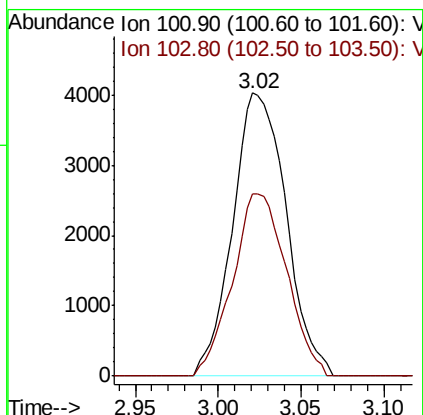
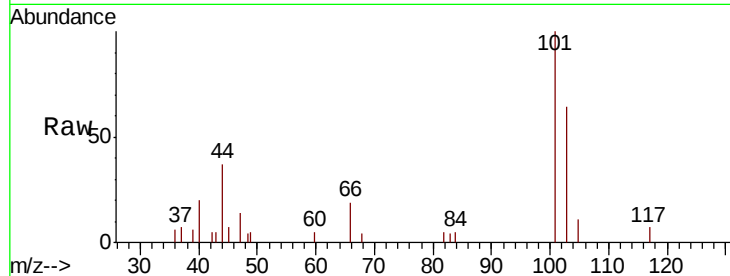


#7

Trichlorofluoromethane
 Concen: 2.048 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

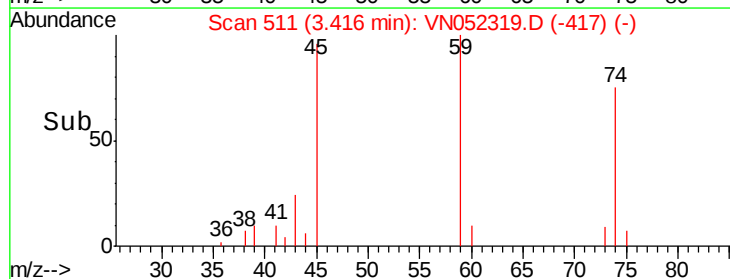
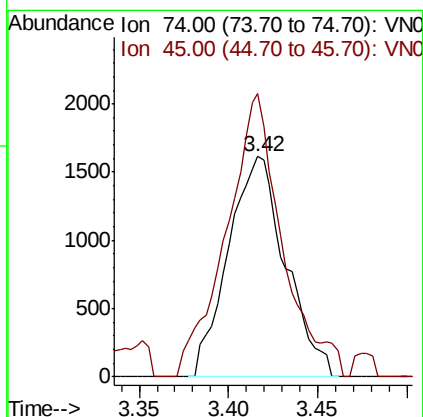
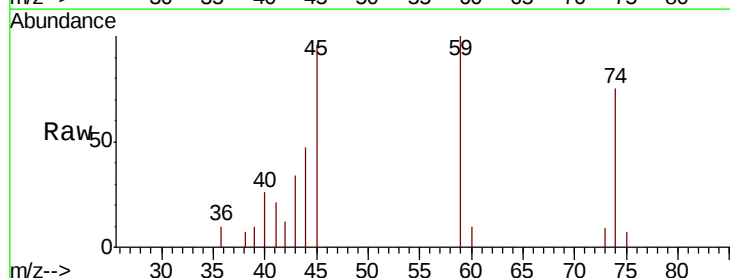
Tot Ion:101 Resp: 9060
 Ion Ratio Lower Upper
 101 100
 103 64.2 52.8 79.2

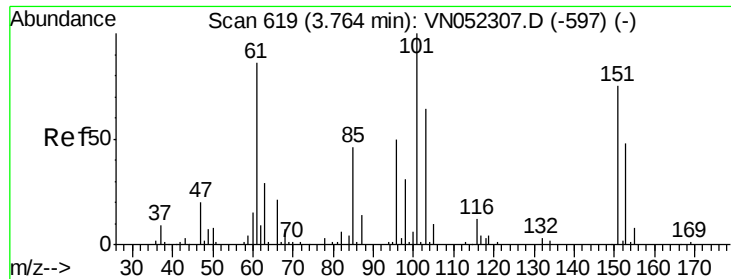


#8

Diethyl Ether
 Concen: 2.136 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion: 74 Resp: 3601
 Ion Ratio Lower Upper
 74 100
 45 125.6 54.3 162.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.954 ug/l

RT: 3.77 min Scan# 622

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

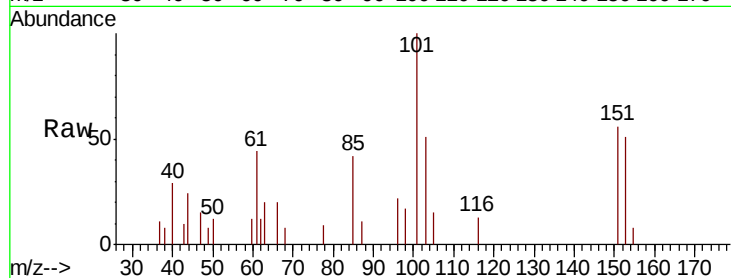
Tot Ion:101 Resp: 5458

Ion Ratio Lower Upper

101 100

85 48.9 37.4 56.0

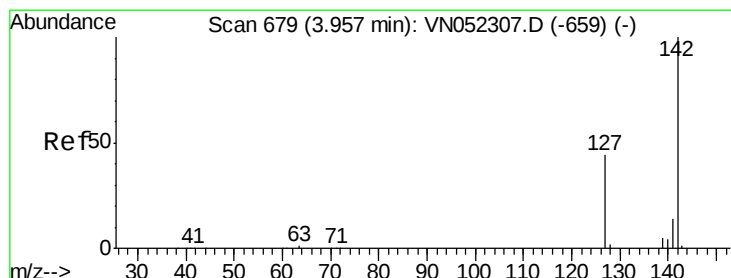
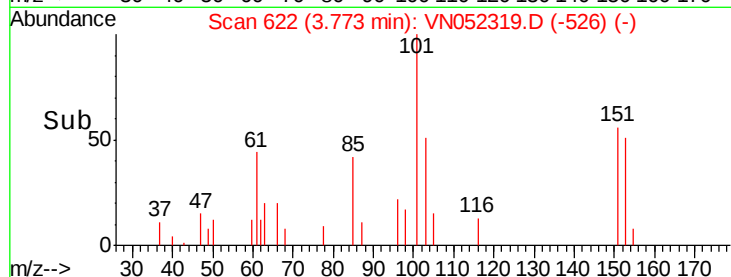
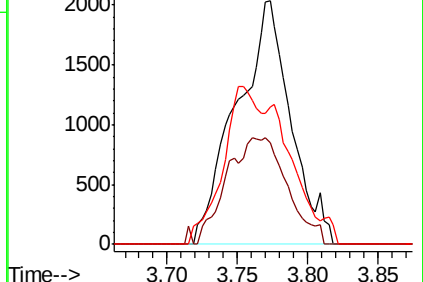
151 43.5 58.6 88.0#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 1.808 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

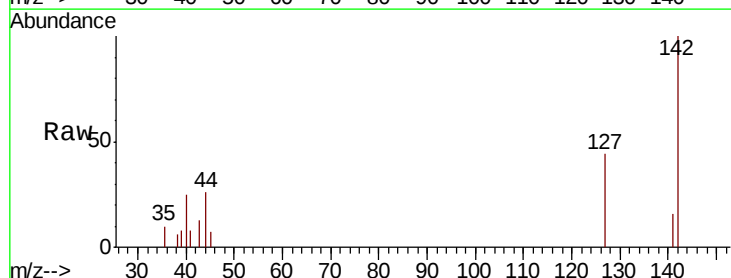
Tgt Ion:142 Resp: 6780

Ion Ratio Lower Upper

142 100

127 49.7 36.3 54.5

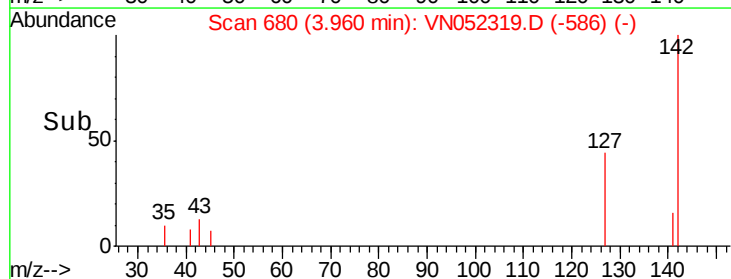
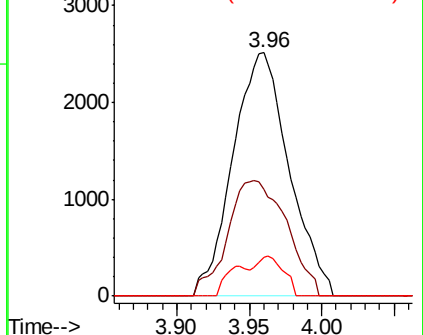
141 8.2 11.4 17.2#

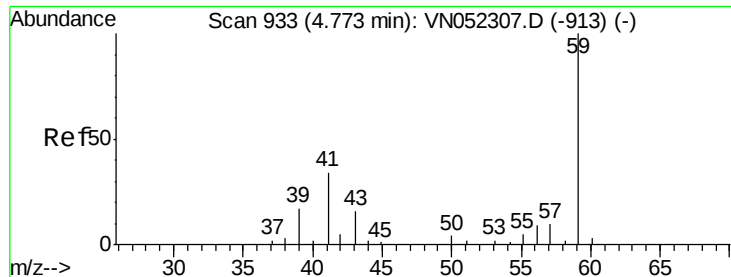


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

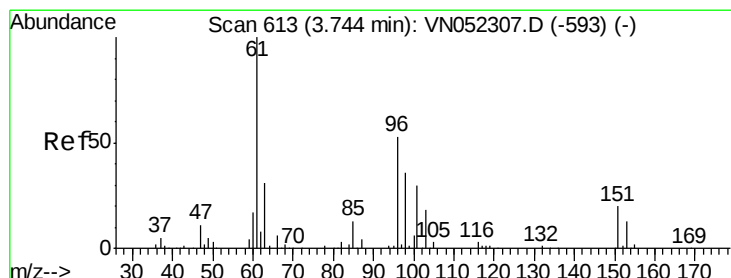
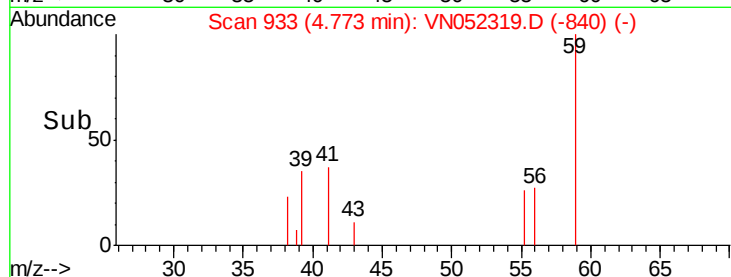
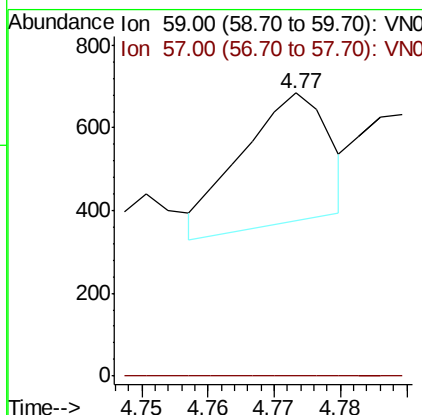
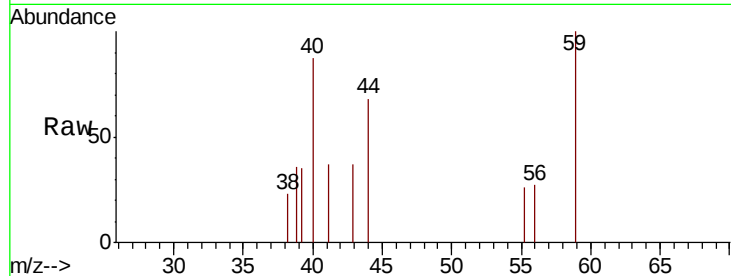




#11
Tert butyl alcohol
Concen: 1.554 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

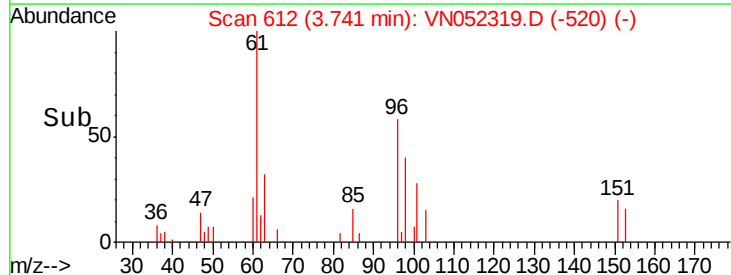
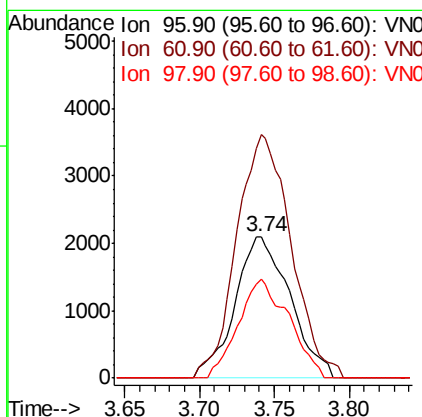
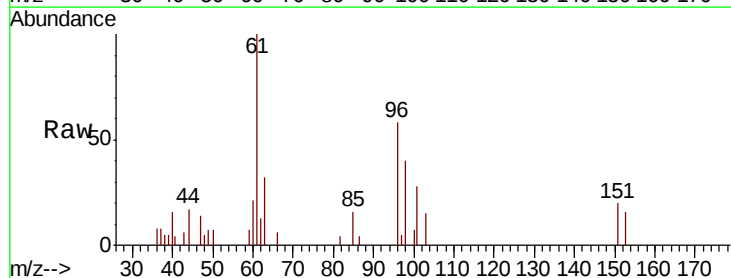
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

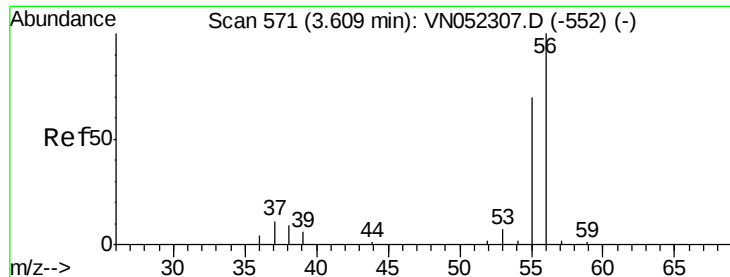
Tot Ion: 59 Resp: 291
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 2.081 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 96 Resp: 5380
Ion Ratio Lower Upper
96 100
61 172.1 149.6 224.4
98 69.6 54.2 81.2





#13

Acrolein

Concen: 32.030 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

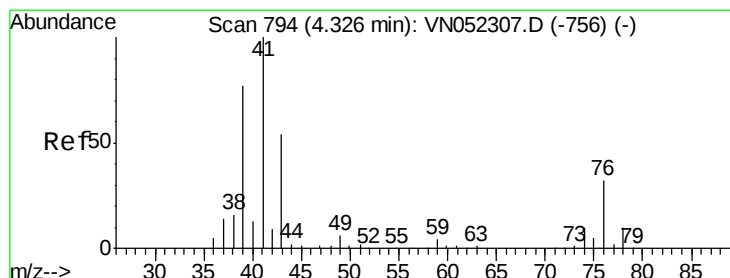
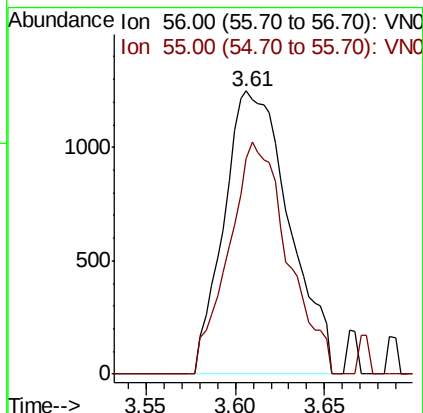
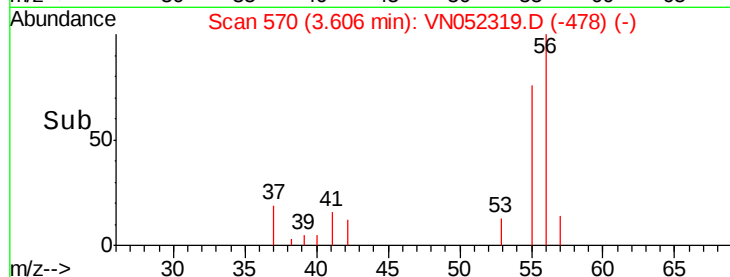
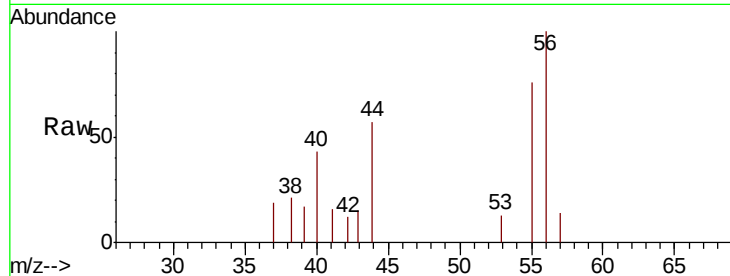
LOQ-WATER-02-QT4-2018

Tot Ion: 56 Resp: 3175

Ion Ratio Lower Upper

56 100

55 74.4 57.6 86.4



#14

Allyl chloride

Concen: 1.654 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

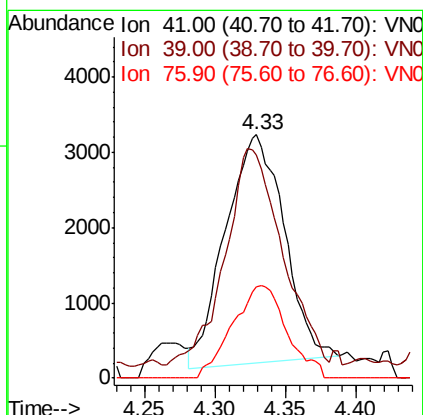
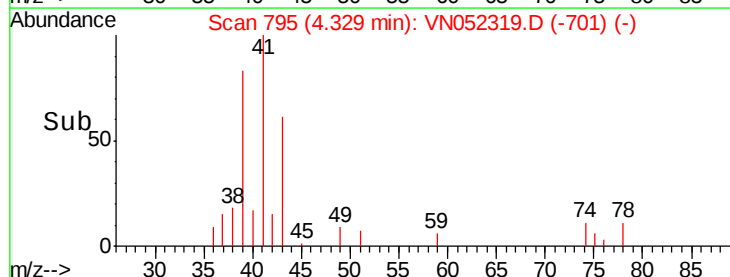
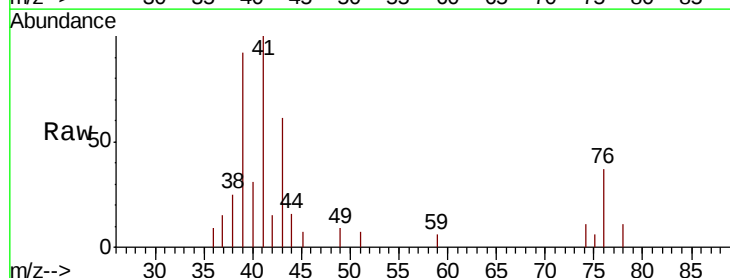
Tgt Ion: 41 Resp: 8782

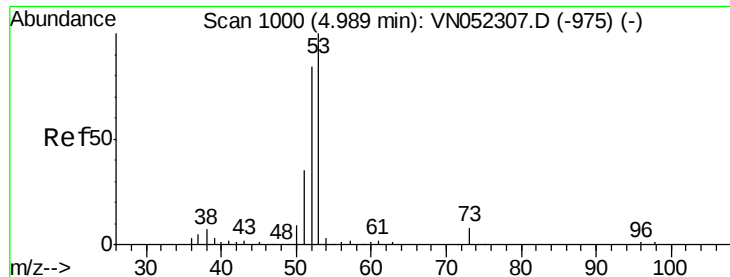
Ion Ratio Lower Upper

41 100

39 91.8 59.1 88.7#

76 37.7 24.1 36.1#

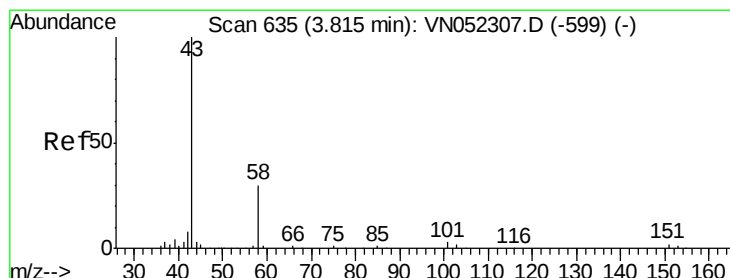
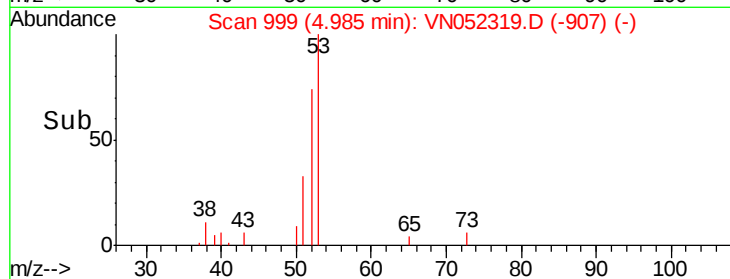
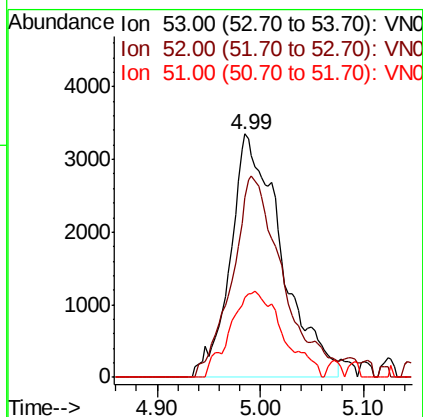
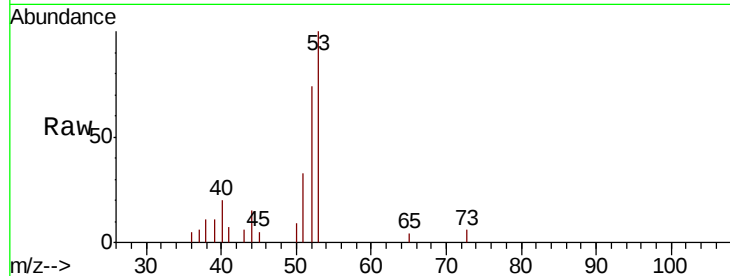




#15
 Acrylonitrile
 Concen: 10.784 ug/l
 RT: 4.99 min Scan# 999
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

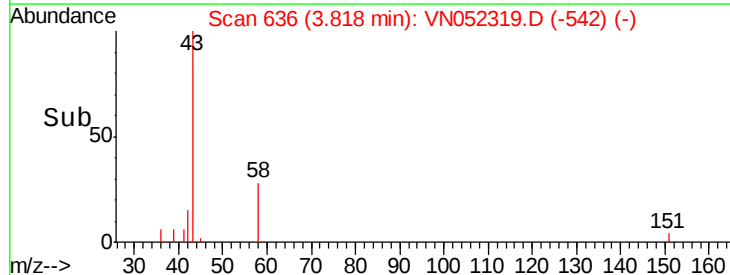
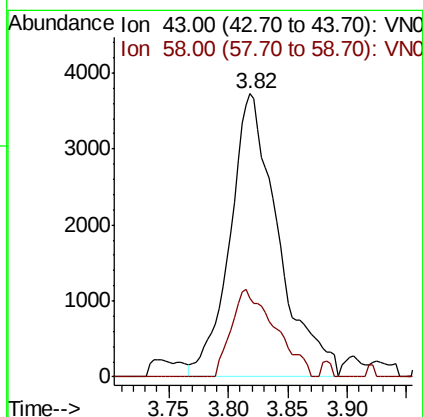
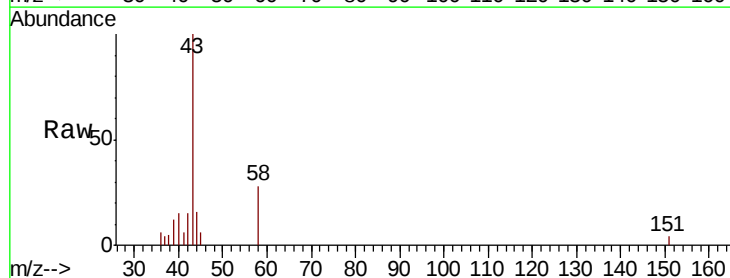
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

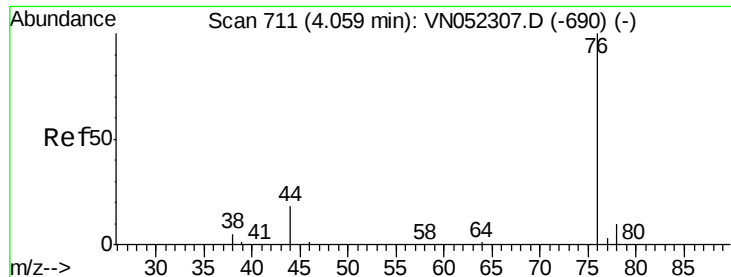
Tot Ion: 53 Resp: 11534
 Ion Ratio Lower Upper
 53 100
 52 81.9 67.5 101.3
 51 36.3 29.9 44.9



#16
 Acetone
 Concen: 10.696 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion: 43 Resp: 10445
 Ion Ratio Lower Upper
 43 100
 58 27.7 24.2 36.4

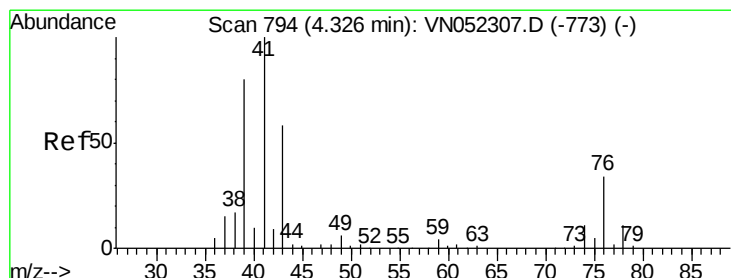
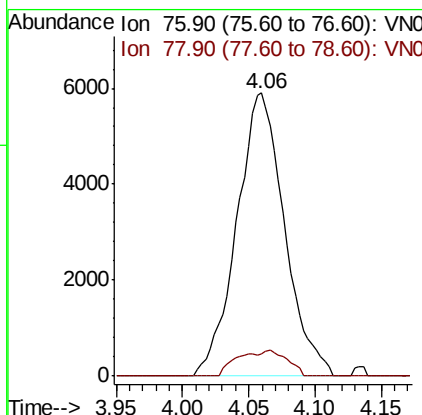
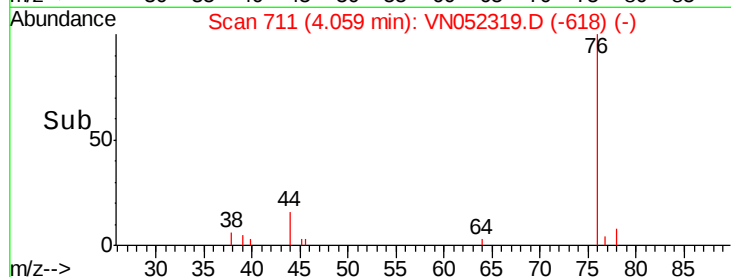
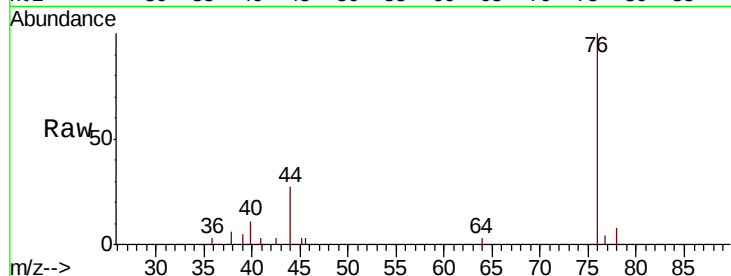




#17
Carbon Disulfide
Concen: 1.990 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

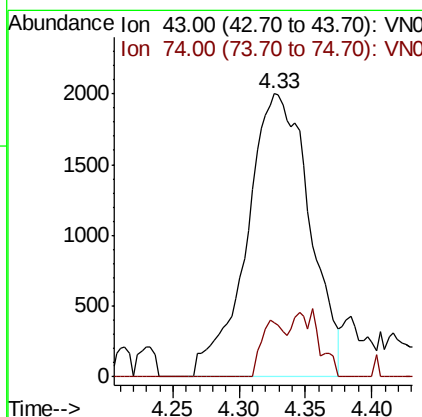
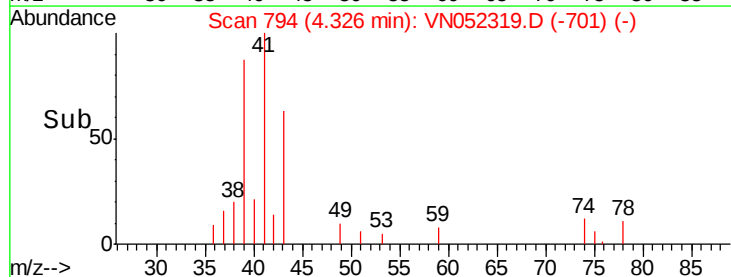
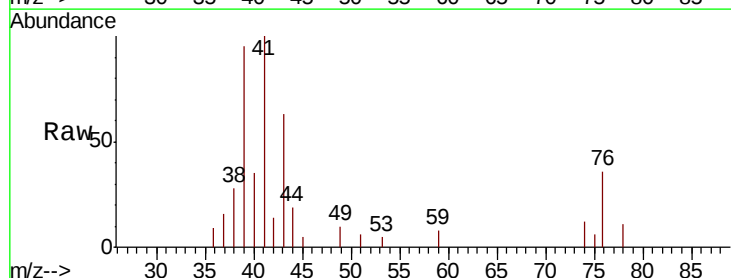
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

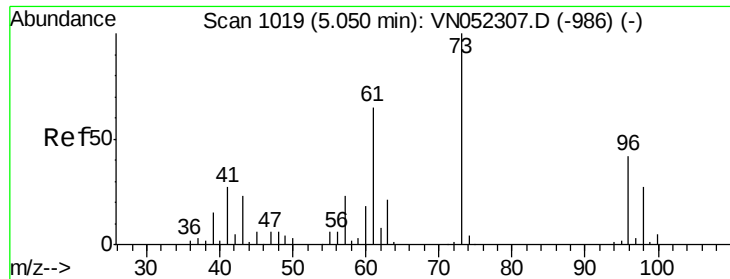
Tot Ion: 76 Resp: 14752
Ion Ratio Lower Upper
76 100
78 8.0 7.7 11.5



#18
Methyl Acetate
Concen: 2.820 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 43 Resp: 6592
Ion Ratio Lower Upper
43 100
74 7.4 15.9 23.9#

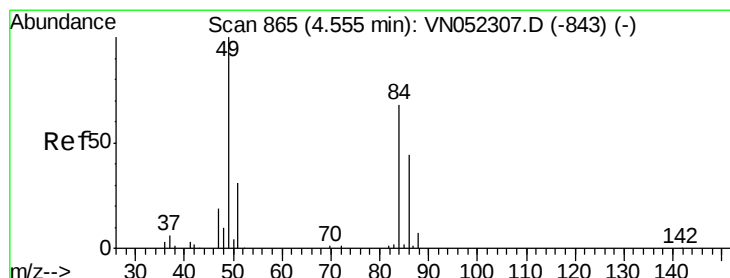
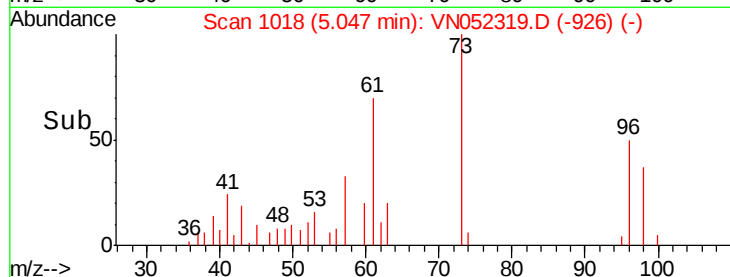
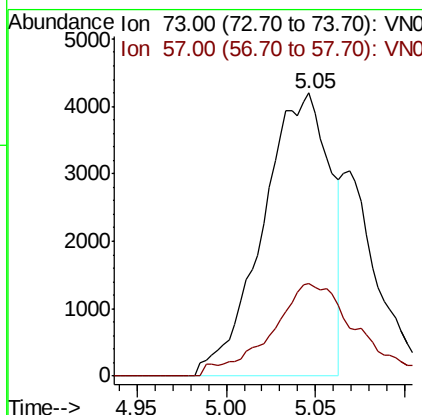
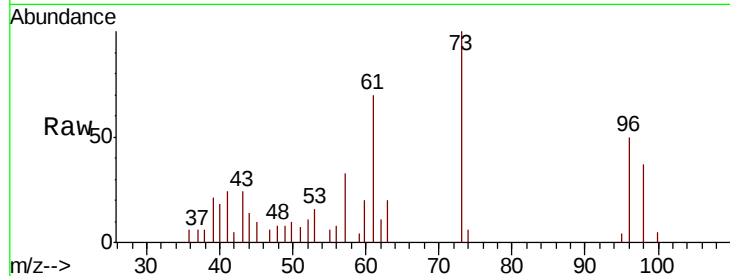




#19
Methvl tert-butvl Ether
Concen: 1.486 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

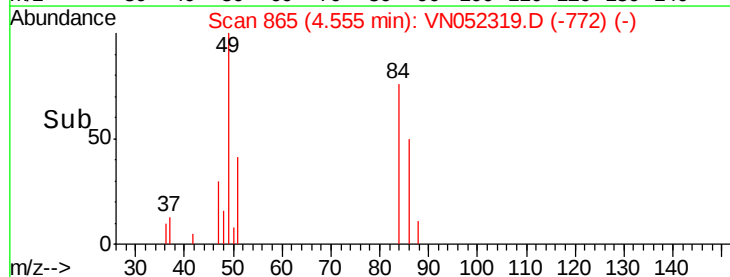
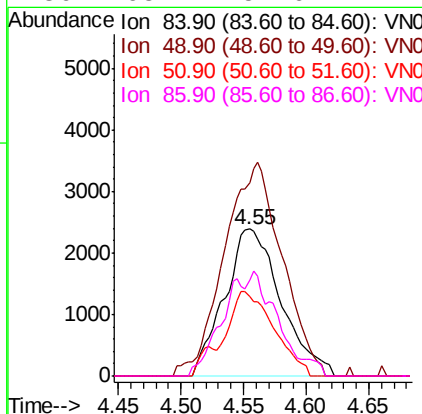
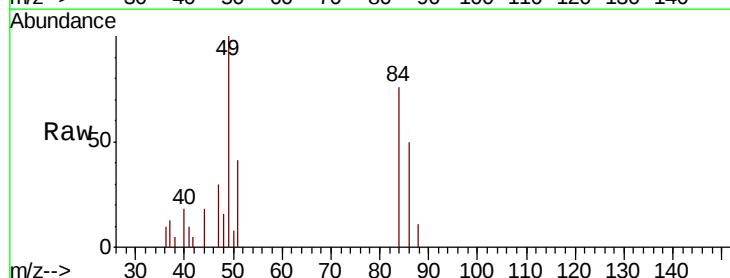
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

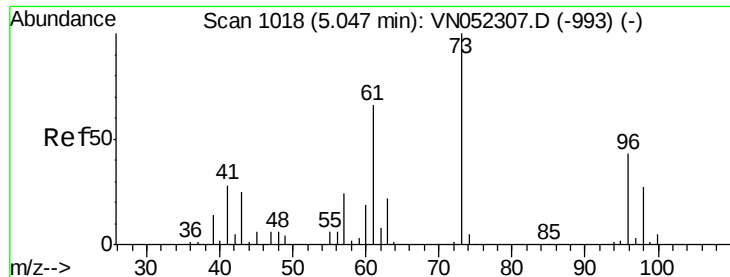
Tot Ion: 73 Resp: 11043
Ion Ratio Lower Upper
73 100
57 32.8 18.7 28.1#



#20
Methylene Chloride
Concen: 1.846 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 84 Resp: 7487
Ion Ratio Lower Upper
84 100
49 131.3 118.2 177.2
51 53.6 36.1 54.1
86 65.1 51.6 77.4

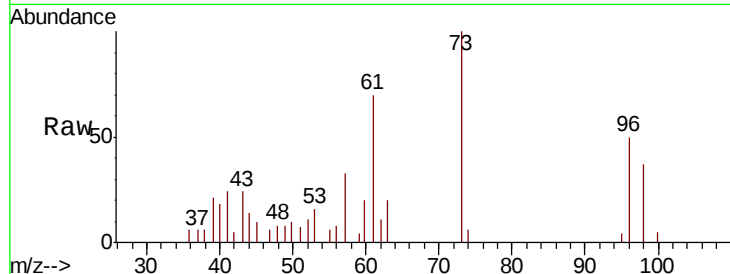




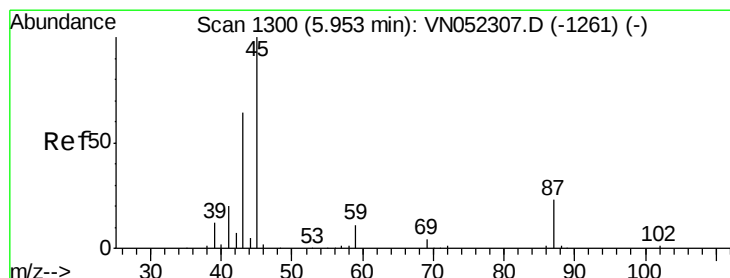
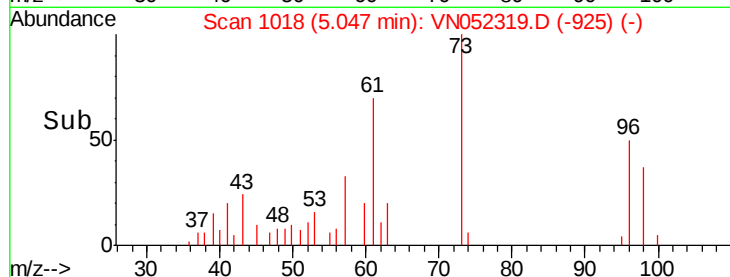
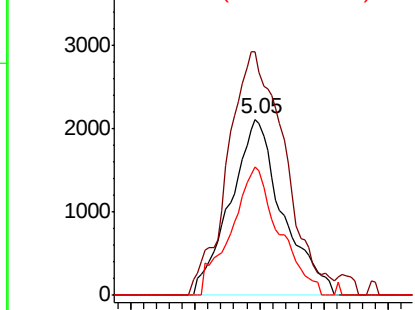
#21
trans-1,2-Dichloroethene
Concen: 2.137 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 96 Resp: 5947
Ion Ratio Lower Upper
96 100
61 138.1 123.6 185.4
98 72.9 50.7 76.1

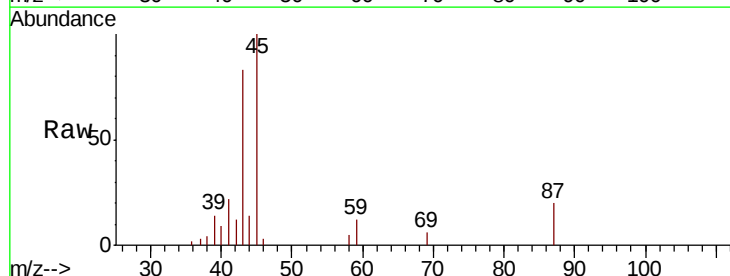


Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO

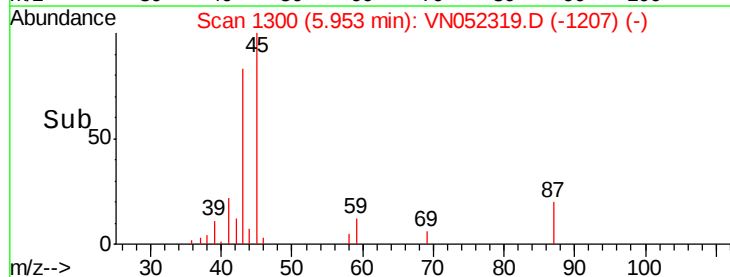
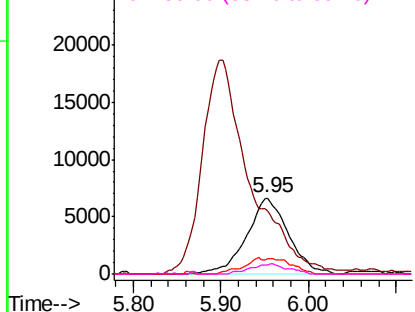


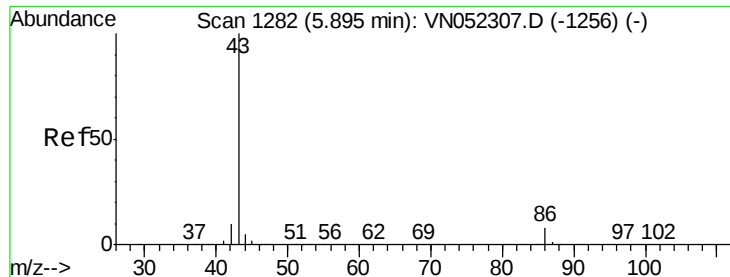
#22
Diisopropyl ether
Concen: 2.021 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 45 Resp: 21887
Ion Ratio Lower Upper
45 100
43 78.7 51.4 77.2#
87 19.7 18.8 28.2
59 12.3 8.6 12.8



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





#23

Vinyl Acetate

Concen: 9.633 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

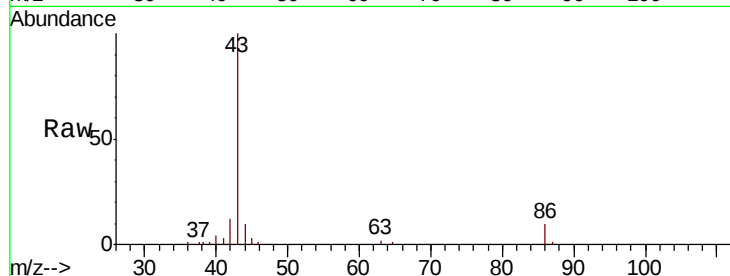
LOQ-WATER-02-QT4-2018

Tot Ion: 43 Resp: 70771

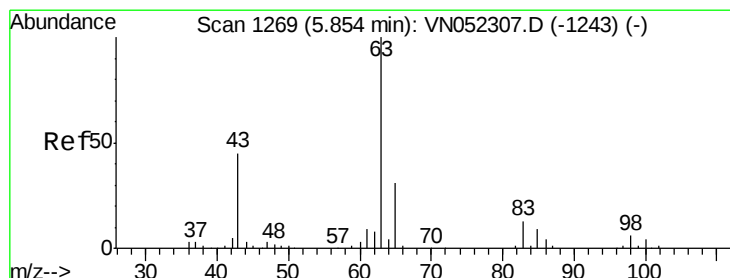
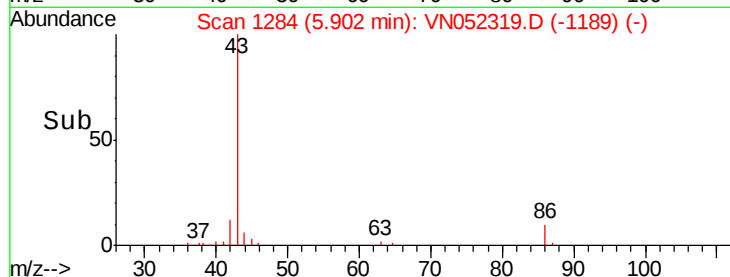
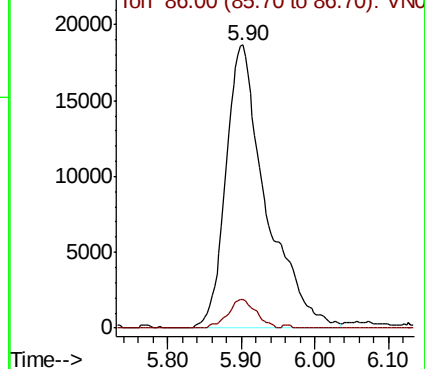
Ion Ratio Lower Upper

43 100

86 10.3 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN052319.D (-1189) (-)



#24

1,1-Dichloroethane

Concen: 2.122 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

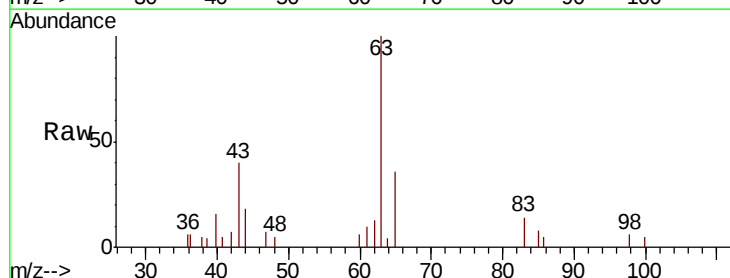
Tgt Ion: 63 Resp: 12325

Ion Ratio Lower Upper

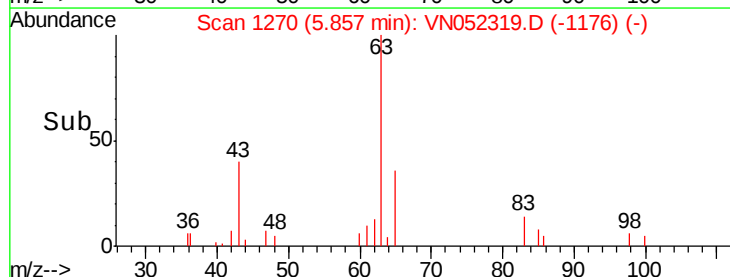
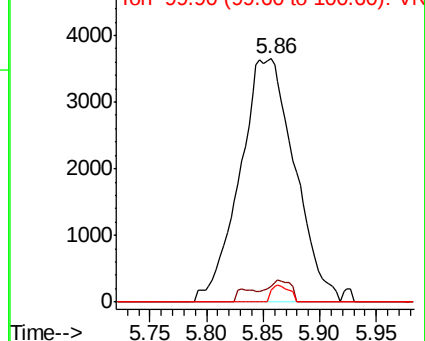
63 100

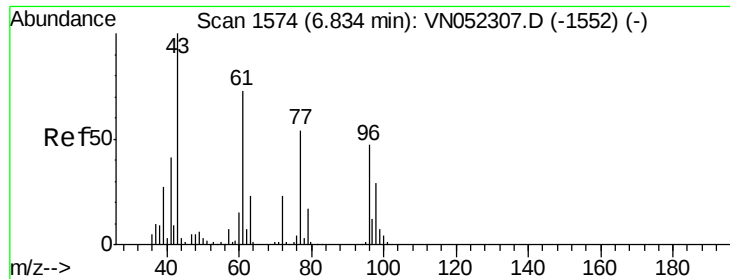
98 6.4 2.9 8.6

100 4.7 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VN052319.D (-1176) (-)





#25

2-Butanone

Concen: 10.166 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

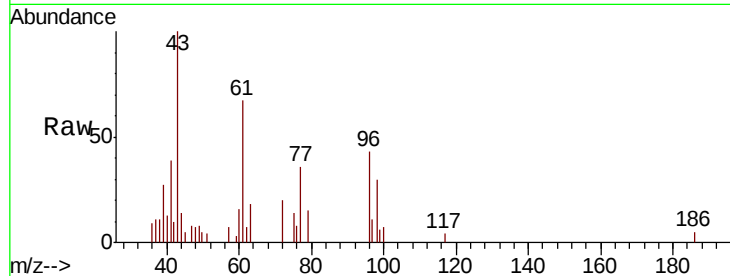
LOQ-WATER-02-QT4-2018

Tot Ion: 43 Resp: 13974

Ion Ratio Lower Upper

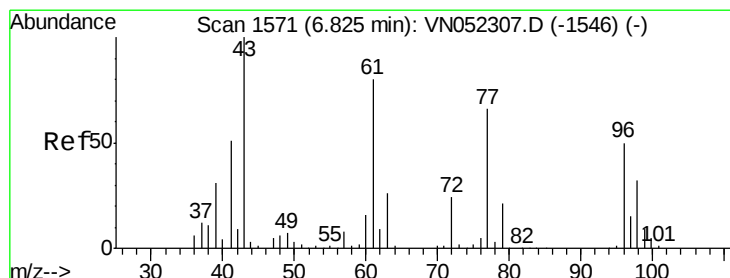
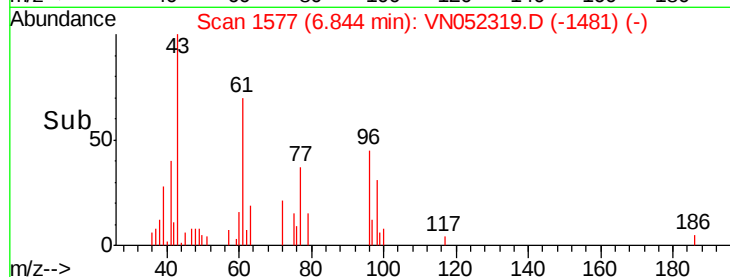
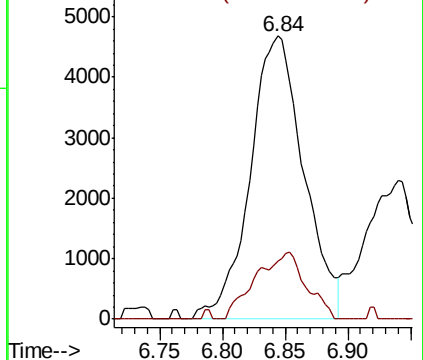
43 100

72 20.4 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 1.945 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN052319.D

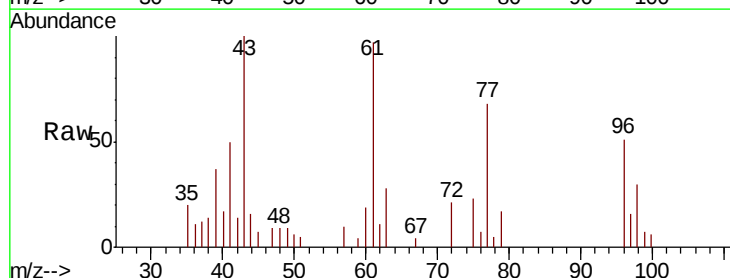
Acq: 14 Nov 2018 18:02

Tgt Ion: 77 Resp: 8304

Ion Ratio Lower Upper

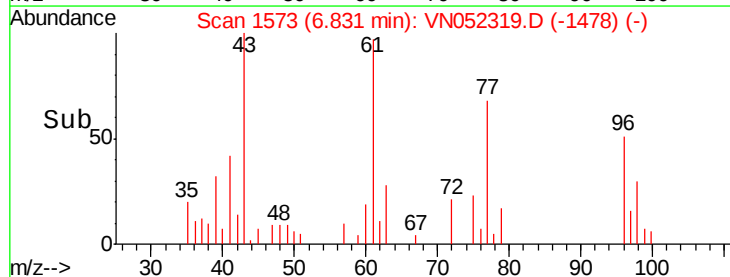
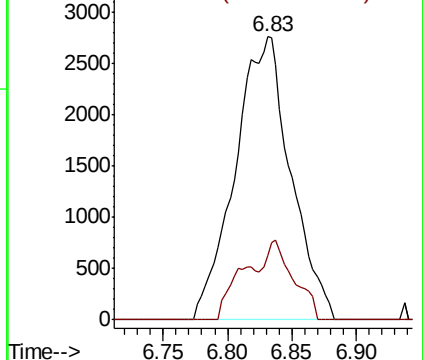
77 100

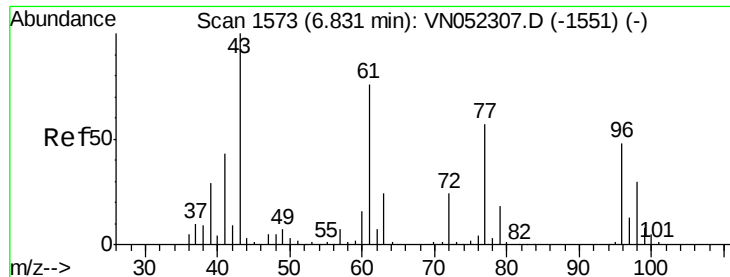
97 14.6 11.1 33.1



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.895 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

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

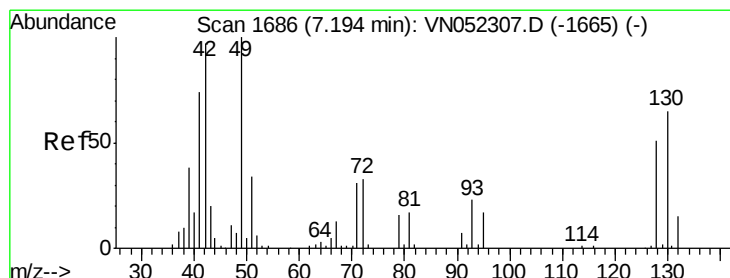
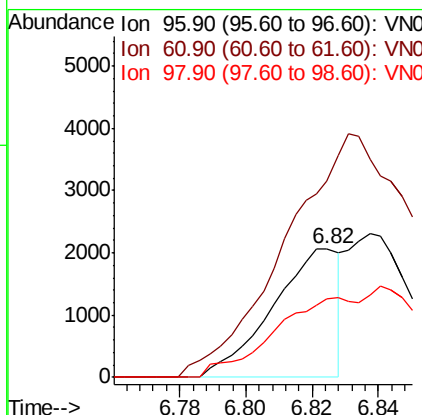
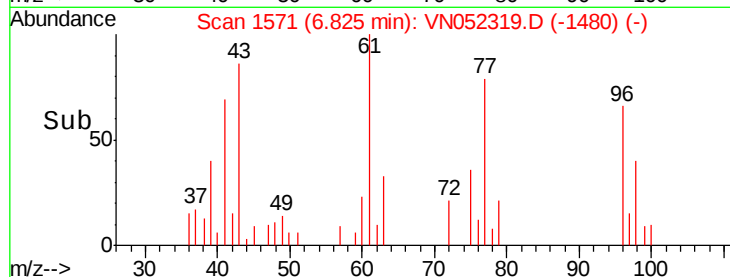
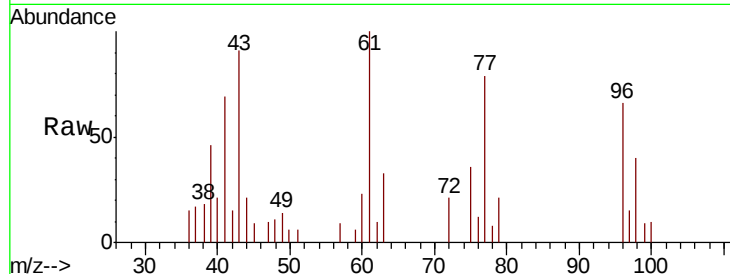
Tot Ion: 96 Resp: 2901

Ion Ratio Lower Upper

96 100

61 379.5 0.0 316.8#

98 78.6 0.0 126.6



#28

Bromochloromethane

Concen: 2.058 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

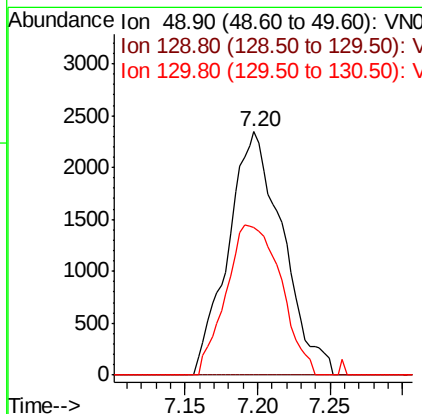
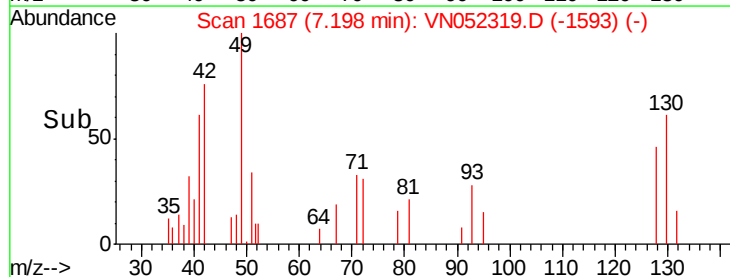
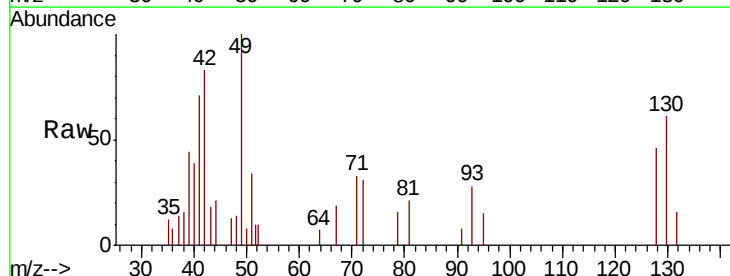
Tgt Ion: 49 Resp: 6146

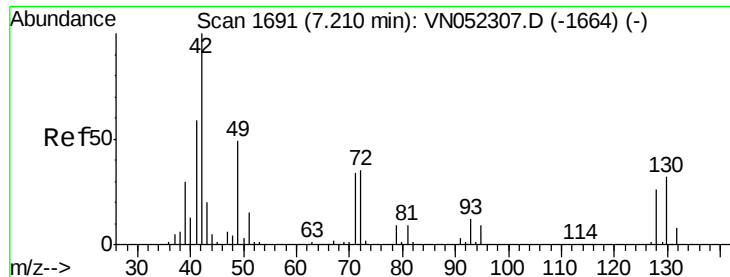
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.0

130 62.0 50.4 75.6

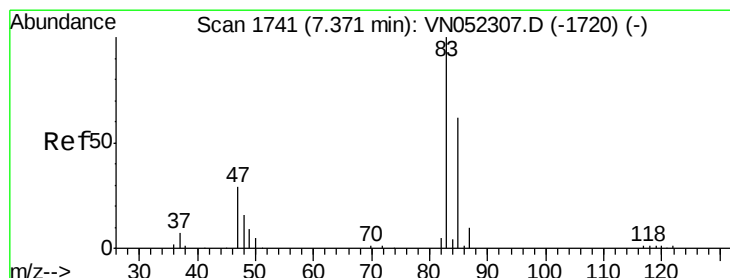
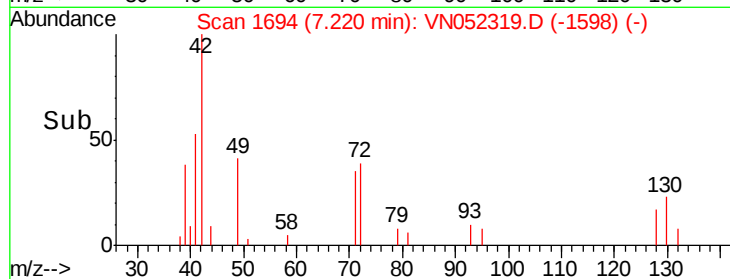
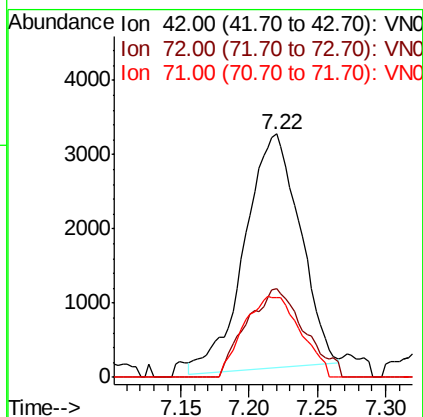
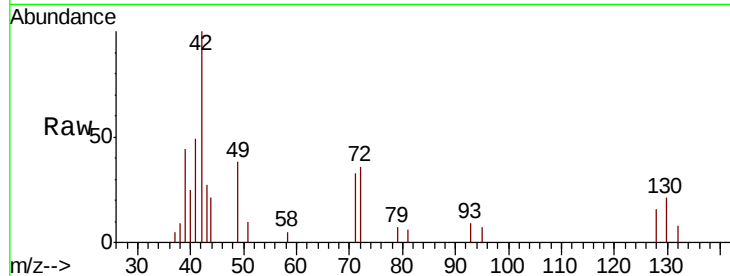




#29
Tetrahydrofuran
Concen: 9.877 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

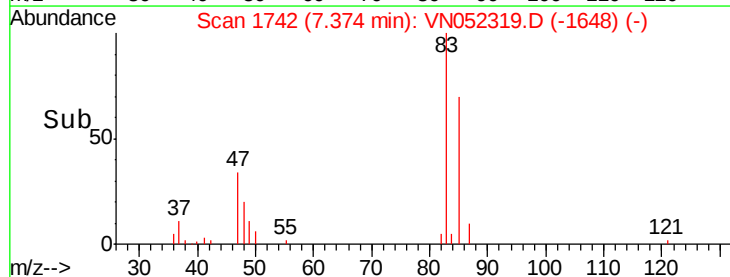
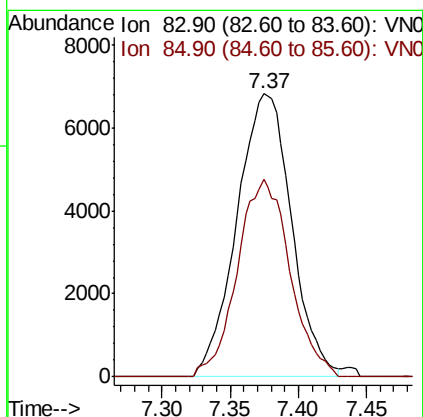
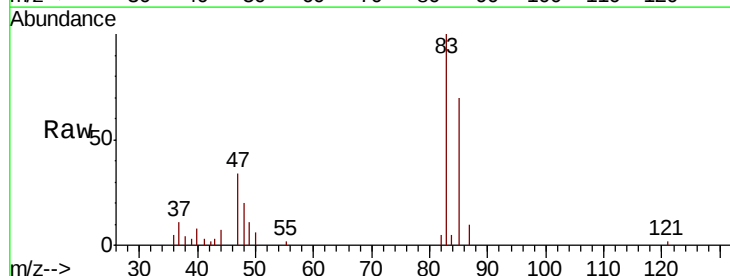
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

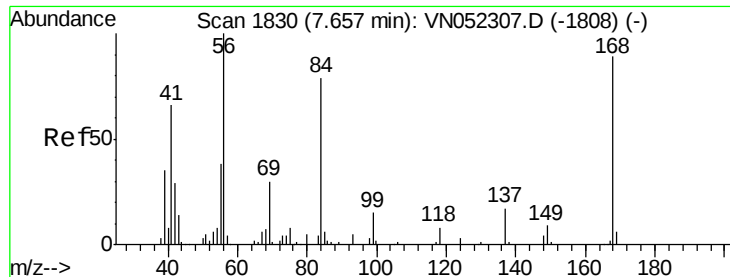
Tot Ion: 42 Resp: 8919
Ion Ratio Lower Upper
42 100
72 39.4 28.6 42.8
71 35.3 26.7 40.1



#30
Chloroform
Concen: 3.421 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 83 Resp: 18933
Ion Ratio Lower Upper
83 100
85 70.0 49.4 74.2

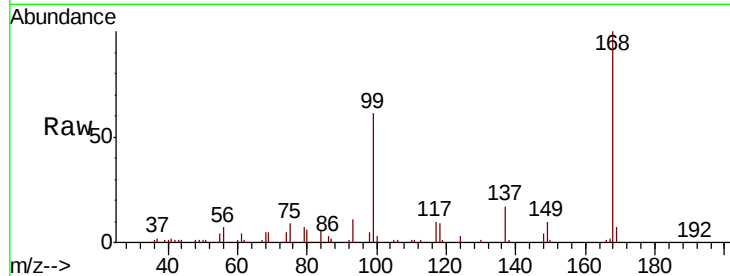




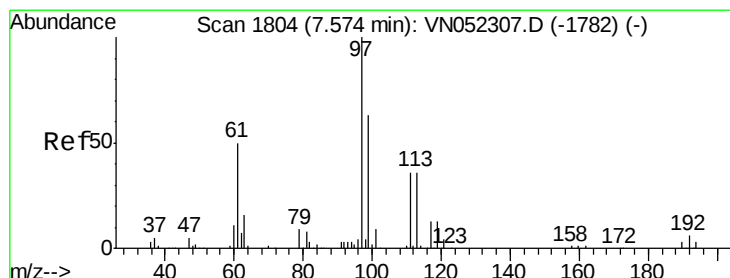
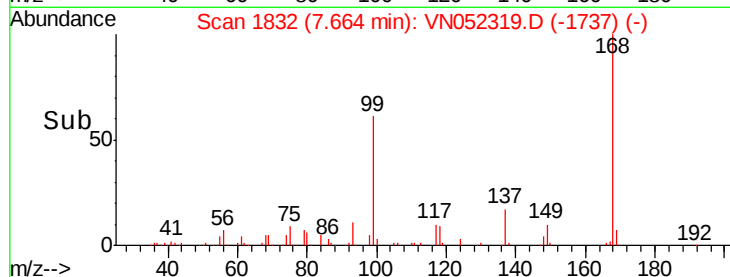
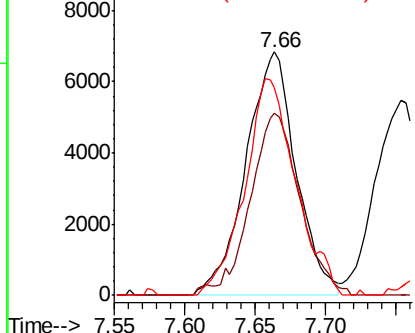
#31
Cyclohexane
Concen: 2.138 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 56 Resp: 17003
Ion Ratio Lower Upper
56 100
69 74.9 23.8 35.8#
84 85.1 63.0 94.6

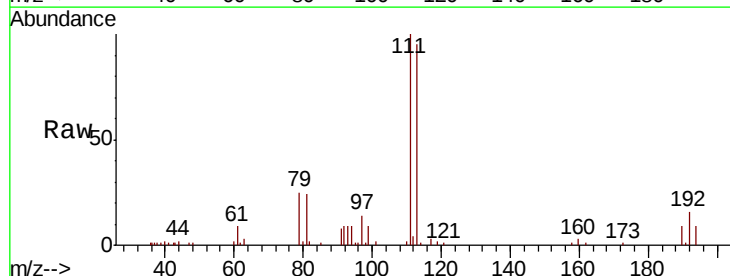


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

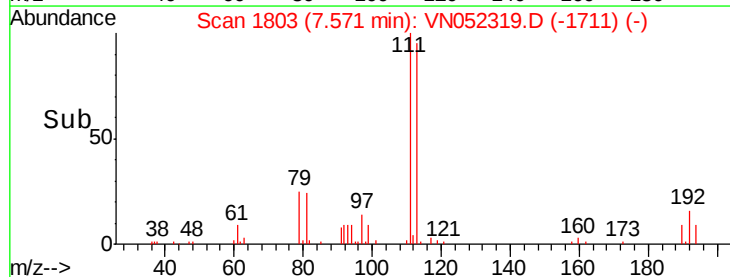
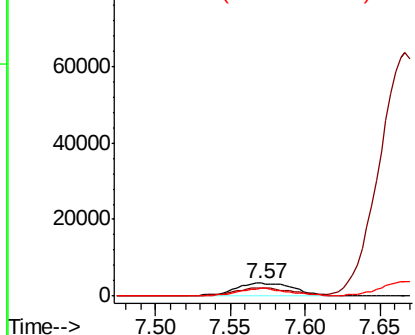


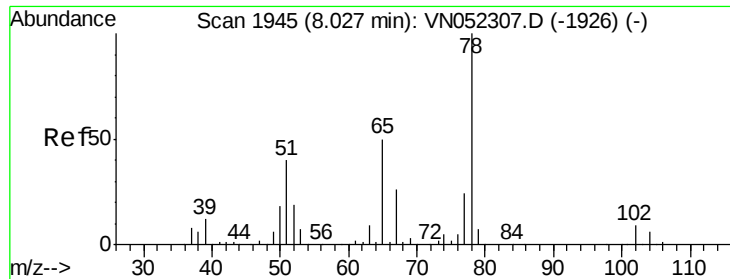
#32
1,1,1-Trichloroethane
Concen: 1.985 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 97 Resp: 9357
Ion Ratio Lower Upper
97 100
99 61.7 50.2 75.2
61 52.8 40.2 60.4



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





#33

1,2-Dichloroethane-d4

Concen: 1.985 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

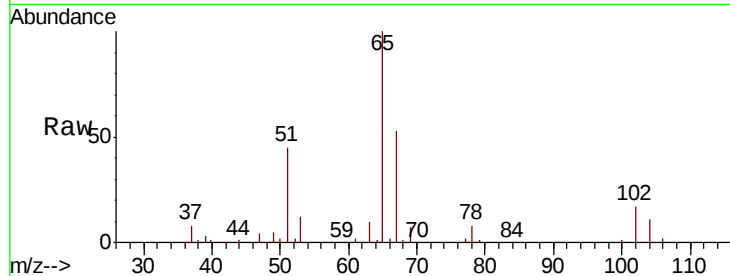
LOQ-WATER-02-QT4-2018

Tot Ion: 65 Resp: 185705

Ion Ratio Lower Upper

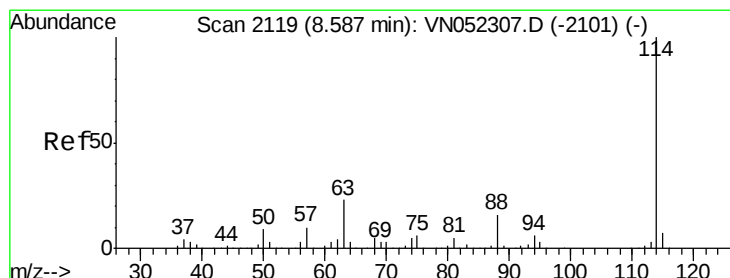
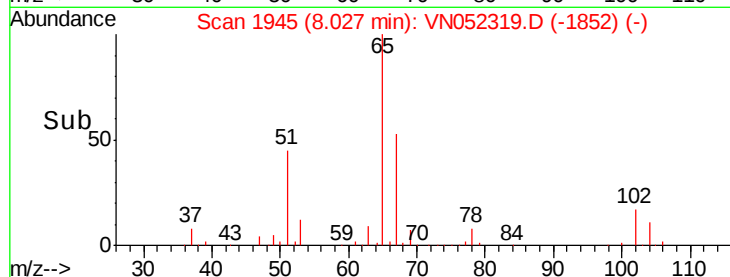
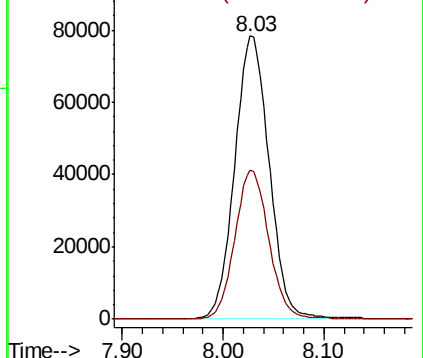
65 100

67 51.7 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

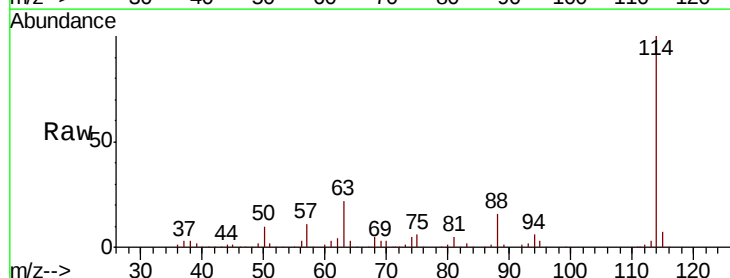
Tgt Ion: 114 Resp: 436356

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.4

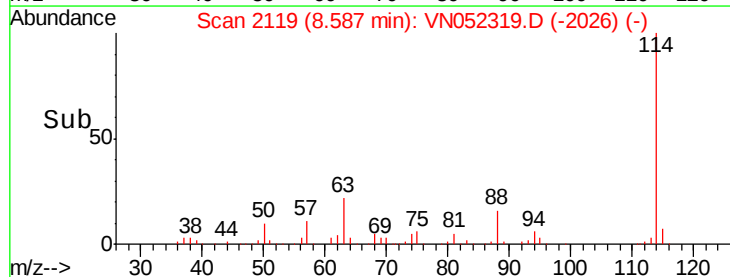
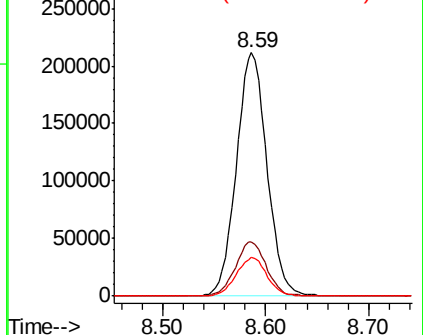
88 15.7 0.0 31.2

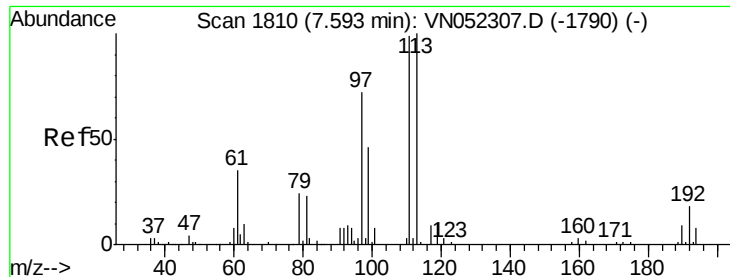


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

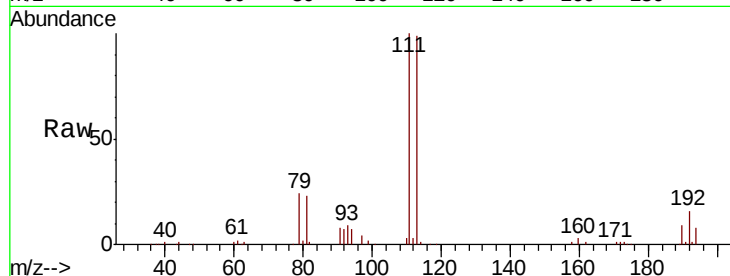




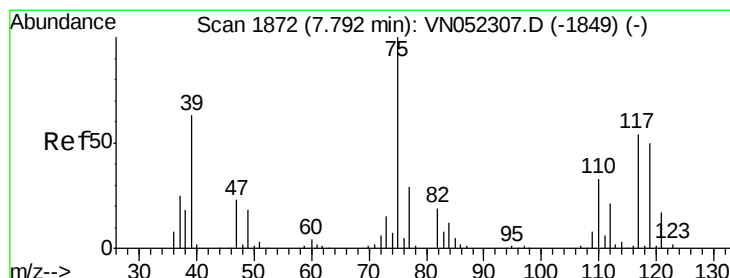
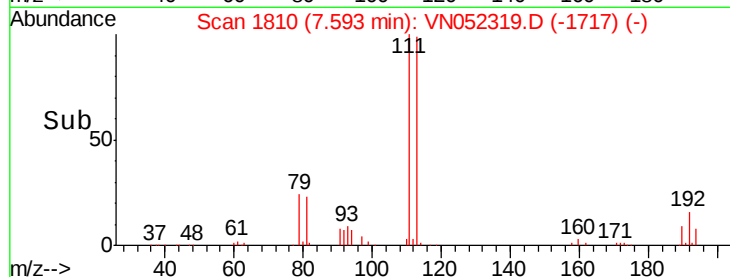
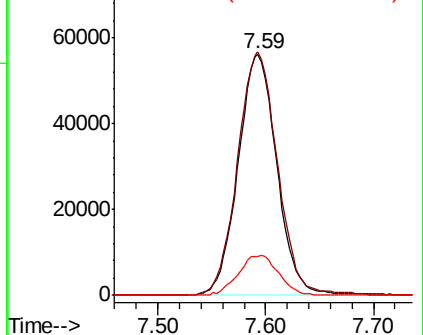
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion:113 Resp: 139983
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.0 121.6
 192 17.5 13.8 20.6

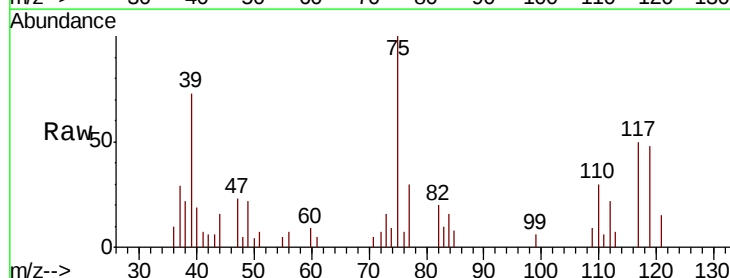


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

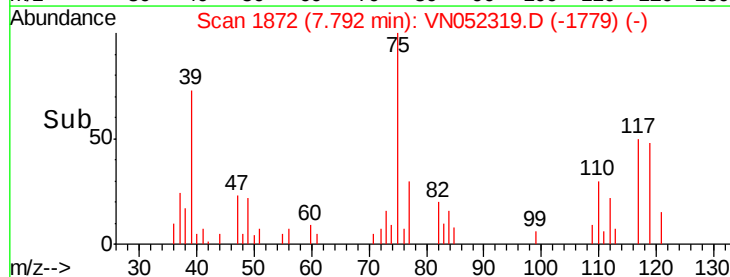
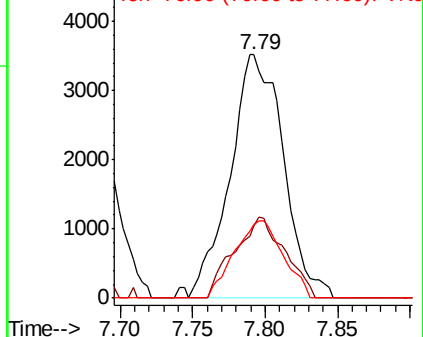


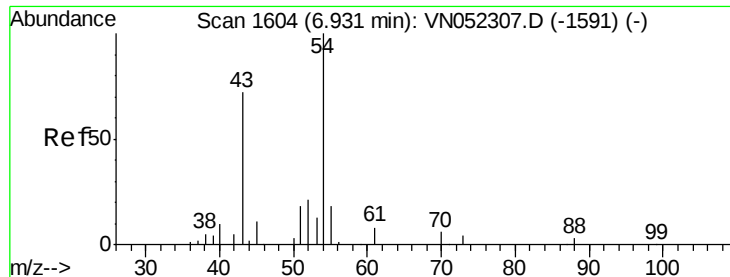
#36
 1,1-Dichloropropene
 Concen: 2.062 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion: 75 Resp: 9017
 Ion Ratio Lower Upper
 75 100
 110 31.5 16.5 49.5
 77 29.0 24.2 36.2



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

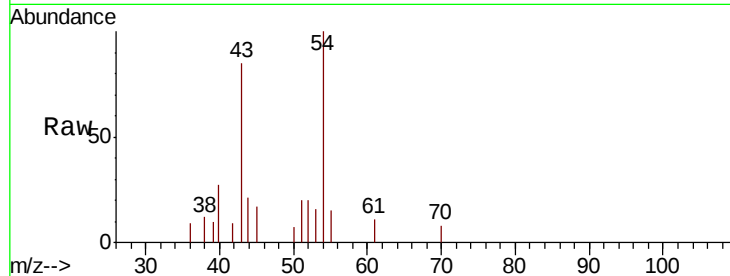




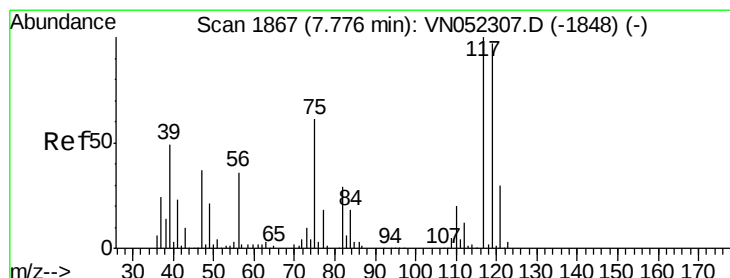
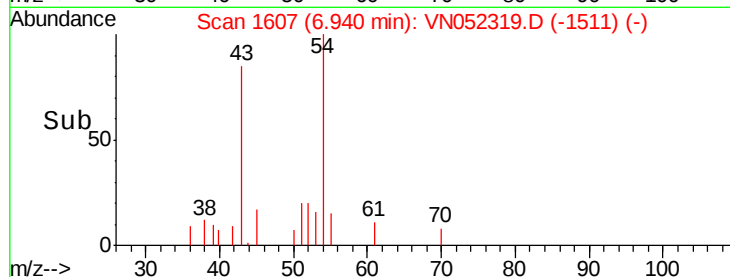
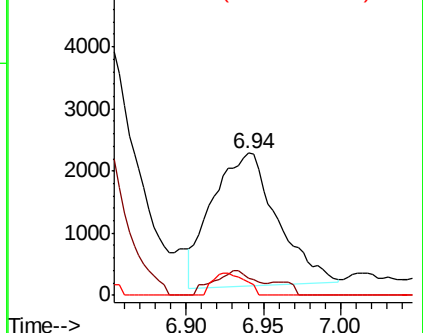
#37
Ethyl Acetate
Concen: 1.971 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 43 Resp: 6256
Ion Ratio Lower Upper
43 100
61 11.5 10.3 15.5
70 8.4 5.6 8.4#

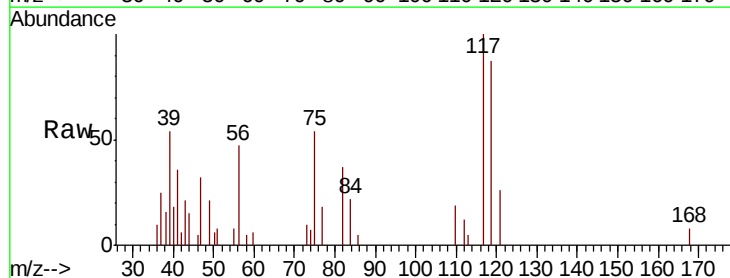


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

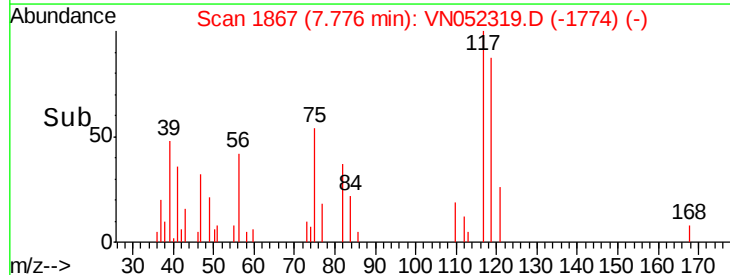
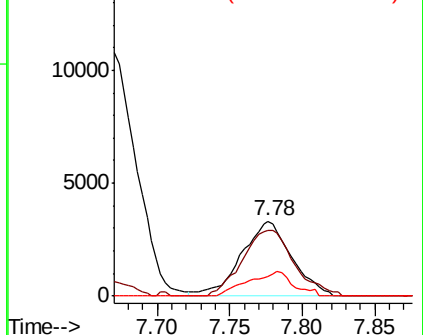


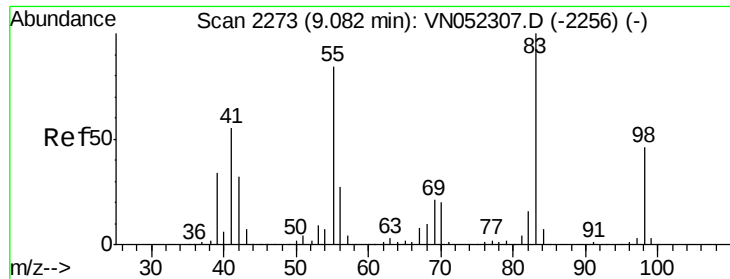
#38
Carbon Tetrachloride
Concen: 1.993 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 117 Resp: 8010
Ion Ratio Lower Upper
117 100
119 87.2 77.4 116.0
121 25.7 24.0 36.0



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

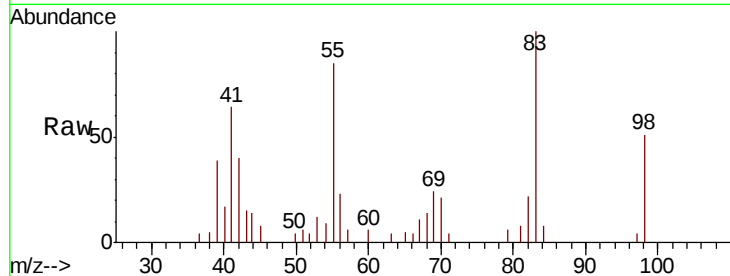




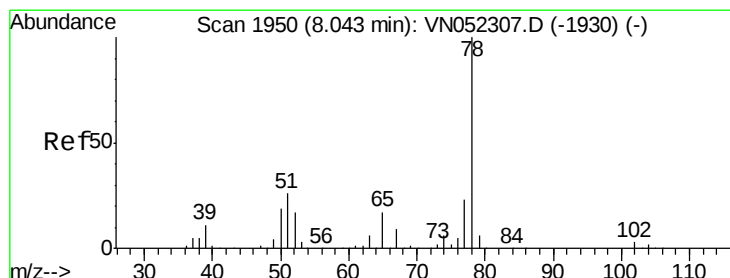
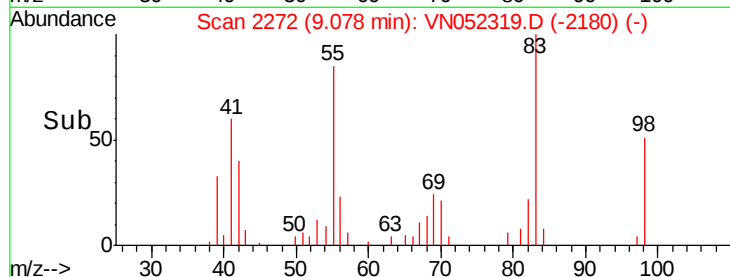
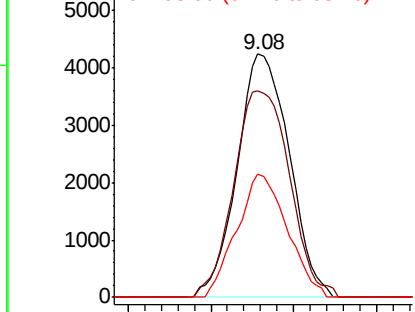
#39
Methvlcvclohexane
Concen: 1.855 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 83 Resp: 9260
Ion Ratio Lower Upper
83 100
55 84.6 66.8 100.2
98 50.7 36.4 54.6

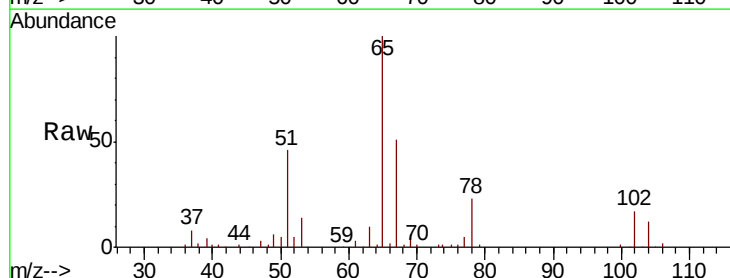


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

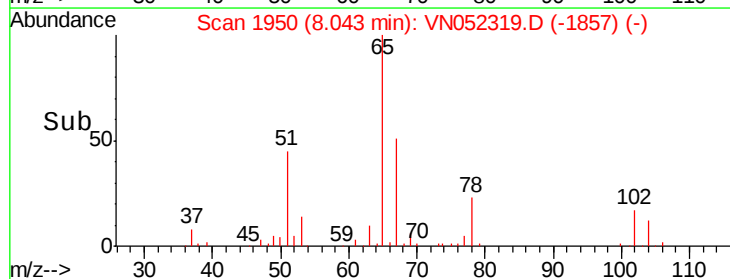
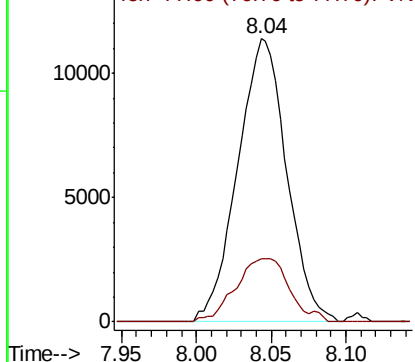


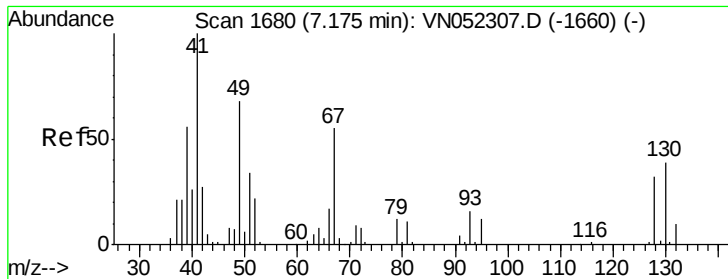
#40
Benzene
Concen: 2.075 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 78 Resp: 25928
Ion Ratio Lower Upper
78 100
77 22.3 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#41

Methacrylonitrile

Concen: 4.777 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion: 41 Resp: 2058

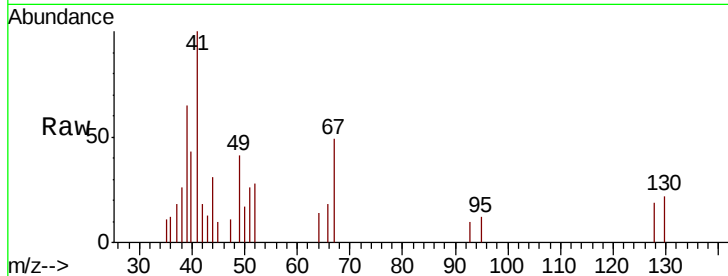
Ion Ratio Lower Upper

41 100

39 133.9 0.0 0.0#

67 58.1 0.0 0.0#

52 52.9 0.0 0.0#

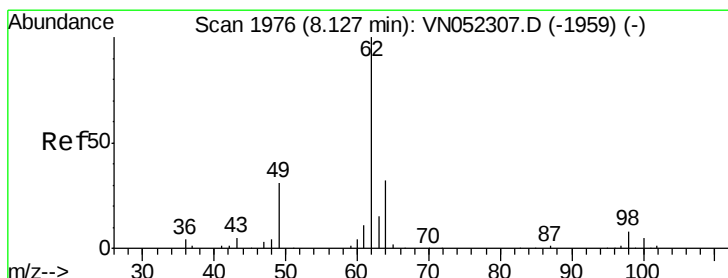
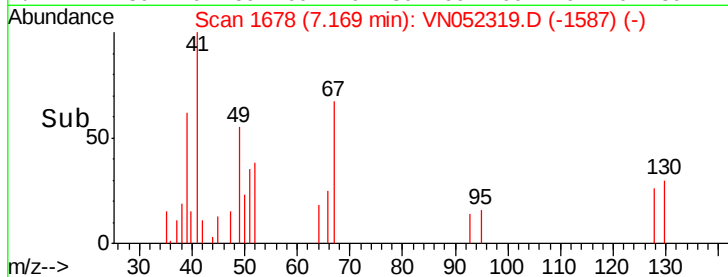
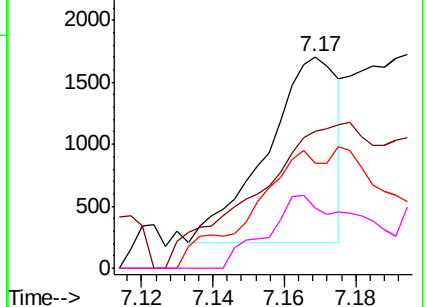


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#42

1,2-Dichloroethane

Concen: 2.032 ug/l

RT: 8.12 min Scan# 1974

Delta R.T. -0.01 min

Lab File: VN052319.D

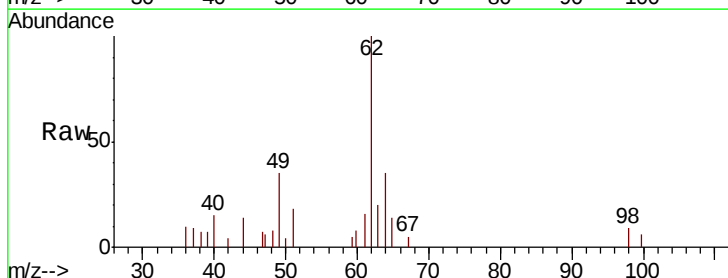
Acq: 14 Nov 2018 18:02

Tgt Ion: 62 Resp: 9053

Ion Ratio Lower Upper

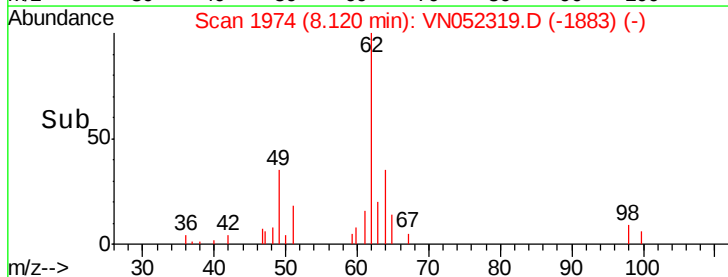
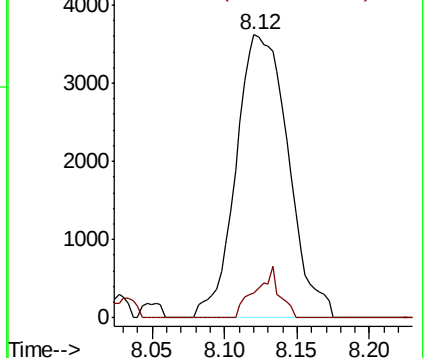
62 100

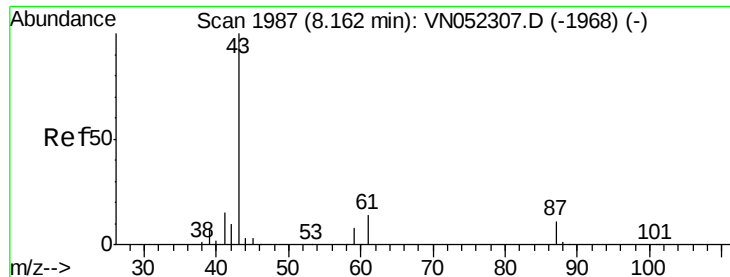
98 8.3 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 2.077 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

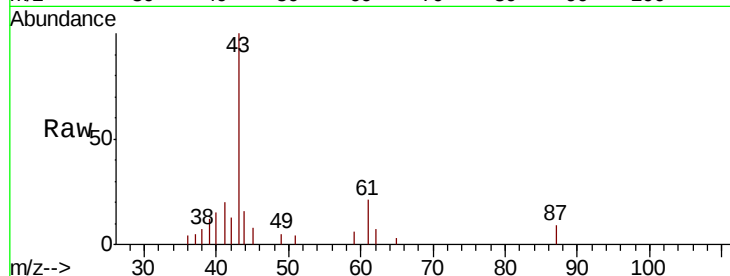
Tot Ion: 43 Resp: 12719

Ion Ratio Lower Upper

43 100

61 16.1 12.0 18.0

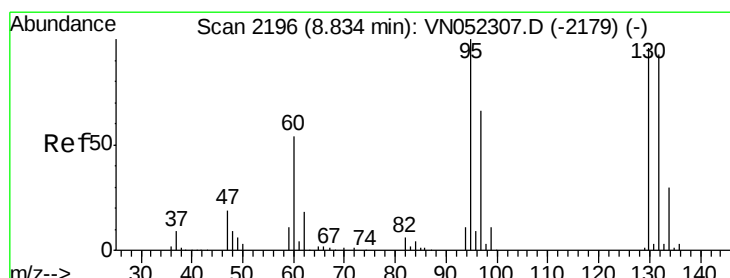
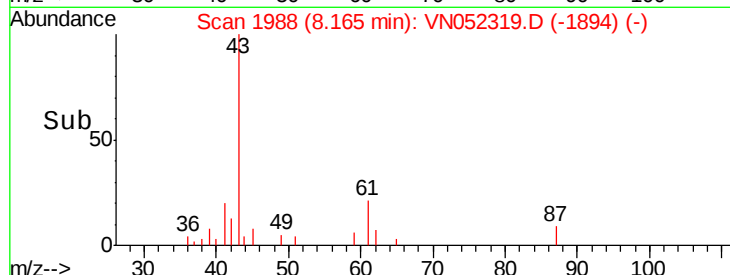
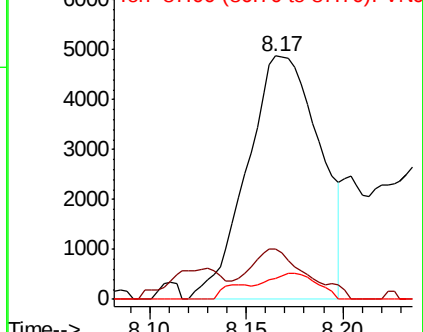
87 7.5 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN052319.D (-2103) (-)

Ion 61.00 (60.70 to 61.70): VN052319.D (-2103) (-)

Ion 87.00 (86.70 to 87.70): VN052319.D (-2103) (-)



#44

Trichloroethene

Concen: 2.004 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN052319.D

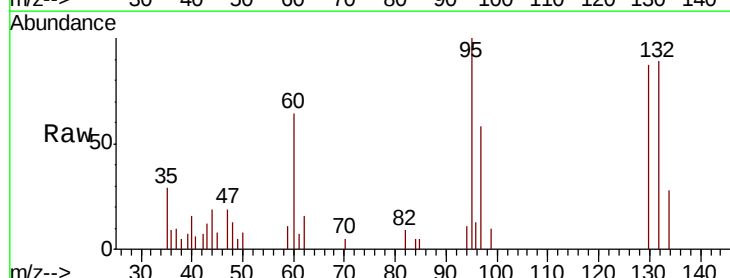
Acq: 14 Nov 2018 18:02

Tgt Ion: 130 Resp: 6167

Ion Ratio Lower Upper

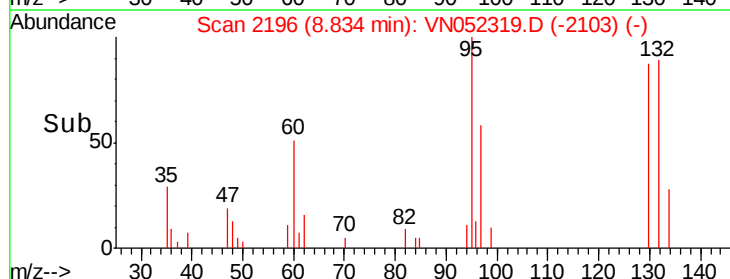
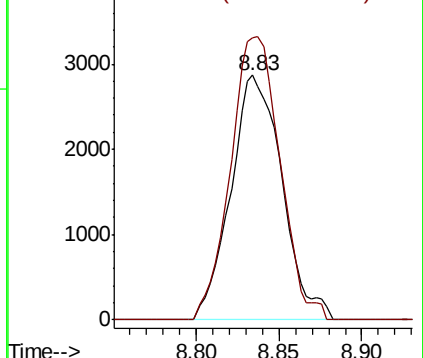
130 100

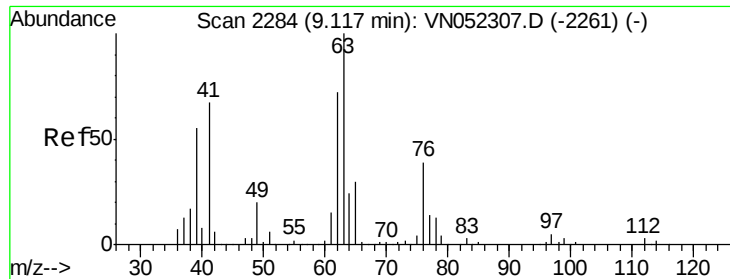
95 115.3 0.0 208.4



Abundance Ion 129.80 (129.50 to 130.50): VN052319.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN052319.D (-2103) (-)

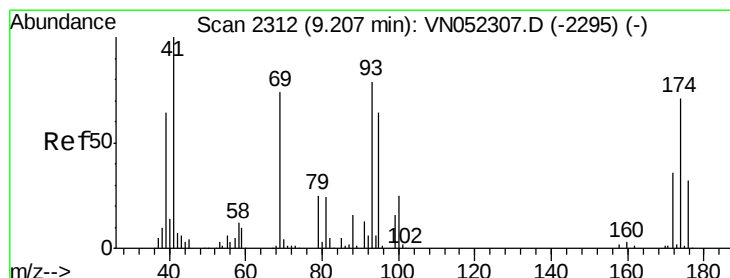
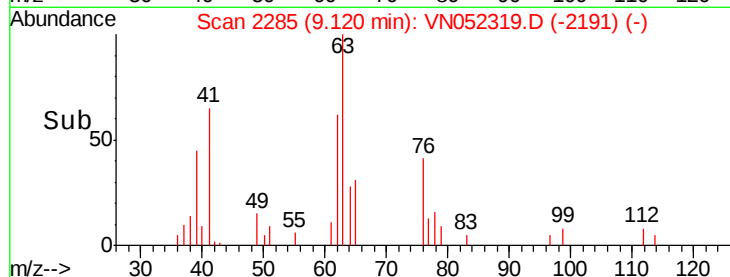
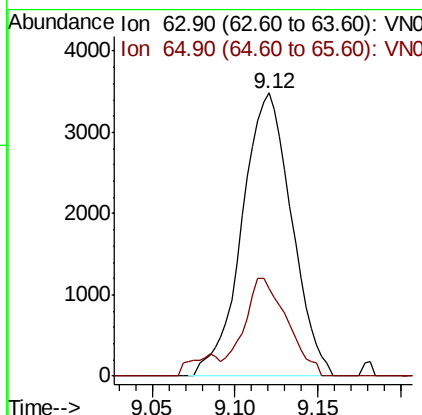
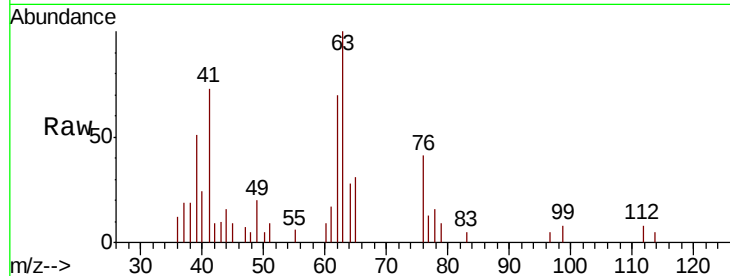




#45
 1,2-Dichloropropane
 Concen: 2.047 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

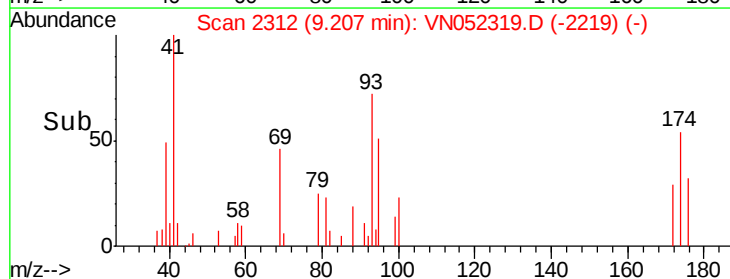
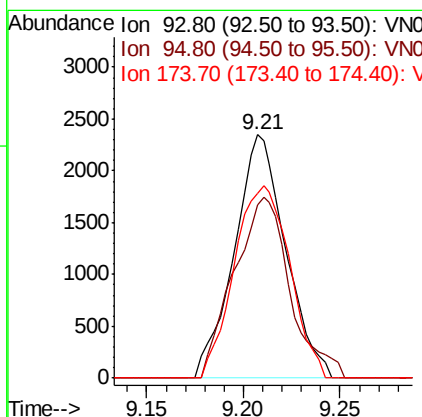
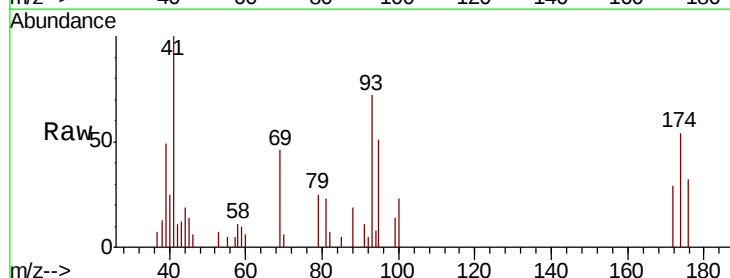
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

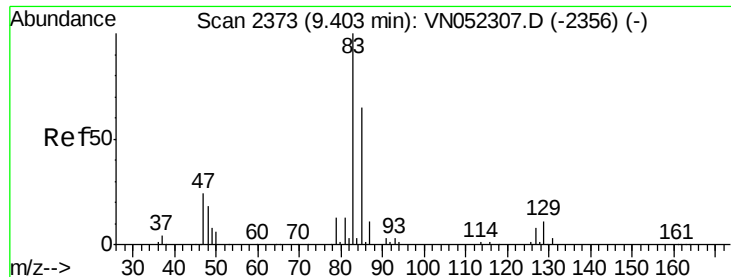
Tot Ion: 63 Resp: 7260
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.2 36.4



#46
 Dibromomethane
 Concen: 2.114 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion: 93 Resp: 4340
 Ion Ratio Lower Upper
 93 100
 95 81.3 64.2 96.2
 174 85.2 70.9 106.3





#47

Bromodichloromethane

Concen: 2.027 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

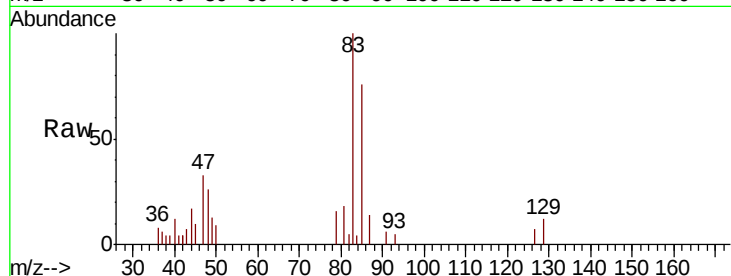
Tot Ion: 83 Resp: 8538

Ion Ratio Lower Upper

83 100

85 76.4 52.2 78.4

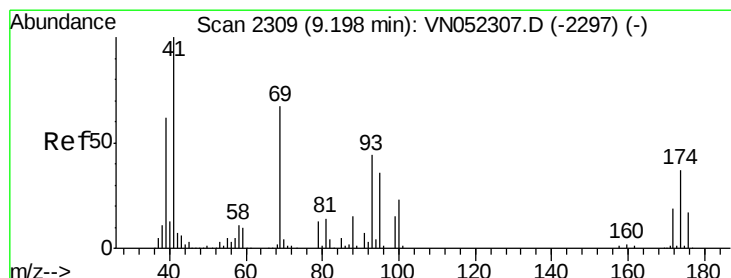
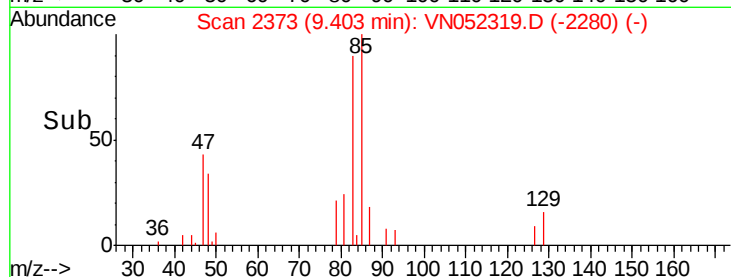
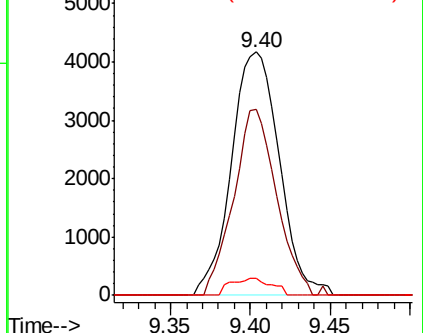
127 6.8 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VN052319.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN052319.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN052319.D (-2280) (-)



#48

Methyl methacrylate

Concen: 2.104 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

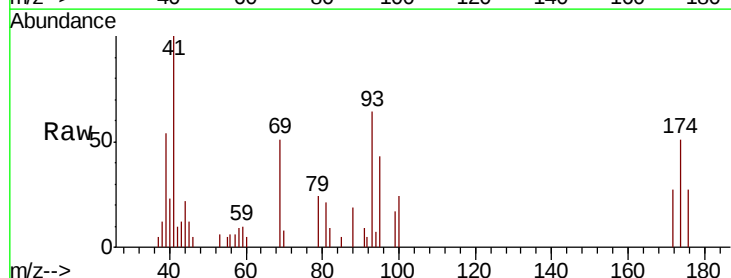
Tgt Ion: 41 Resp: 6539

Ion Ratio Lower Upper

41 100

69 62.4 57.1 85.7

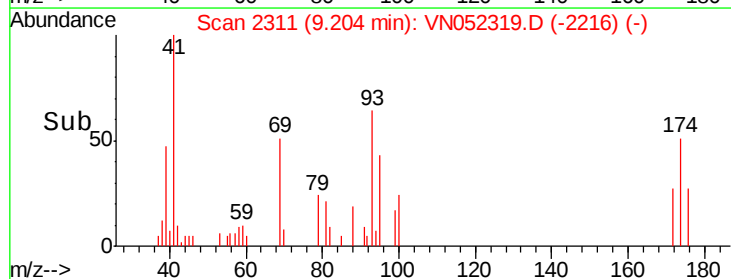
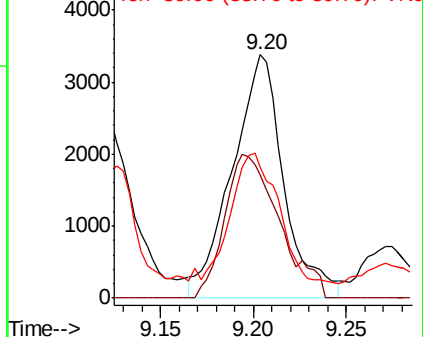
39 57.1 52.5 78.7

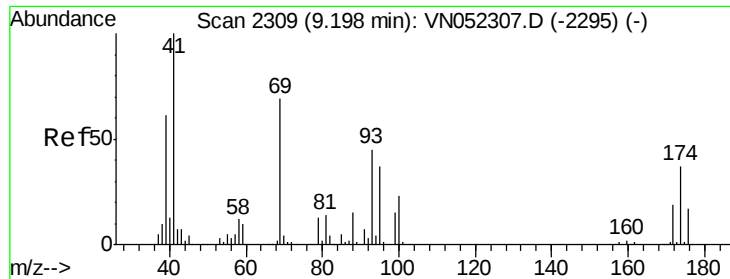


Abundance Ion 41.00 (40.70 to 41.70): VN052319.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN052319.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN052319.D (-2216) (-)

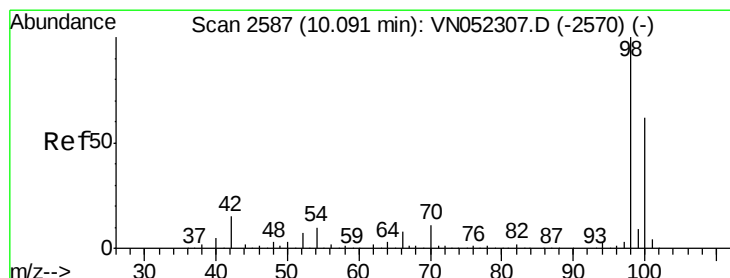
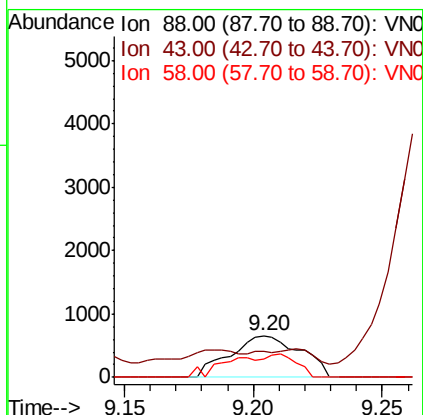
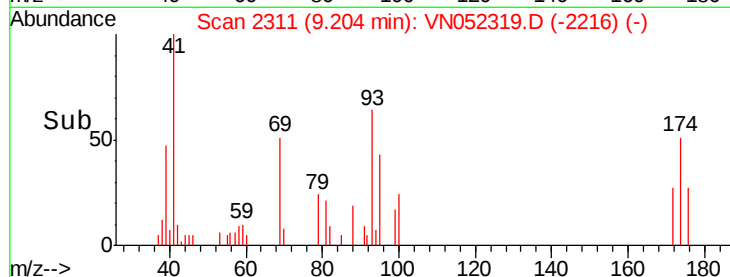
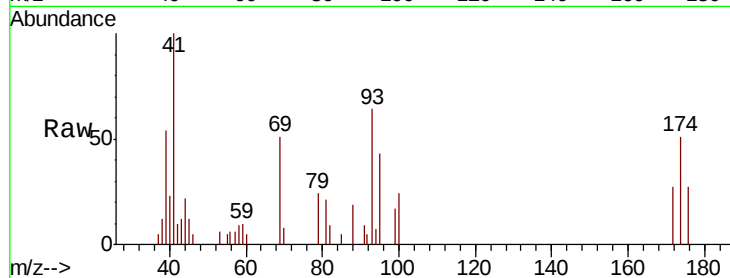




#49
1,4-Dioxane
Concen: 51.891 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

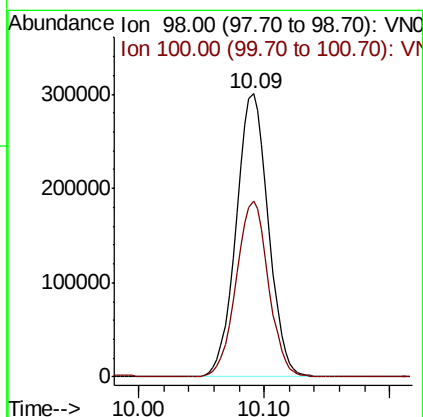
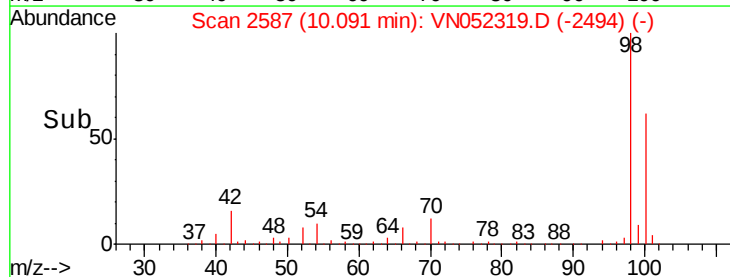
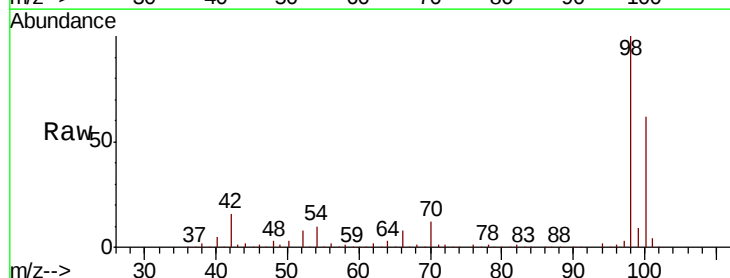
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

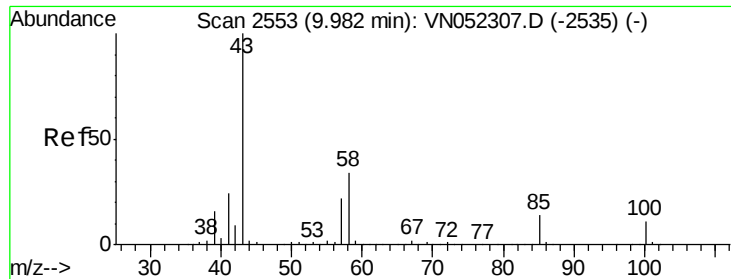
Tot Ion: 88 Resp: 1238
Ion Ratio Lower Upper
88 100
43 0.0 33.3 49.9#
58 22.5 59.2 88.8#



#50
Toluene-d8
Concen: 51.891 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 98 Resp: 535036
Ion Ratio Lower Upper
98 100
100 62.3 49.5 74.3

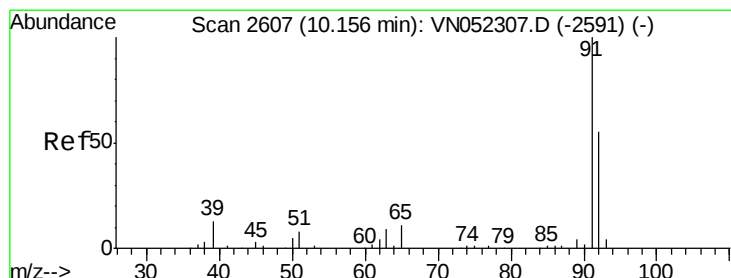
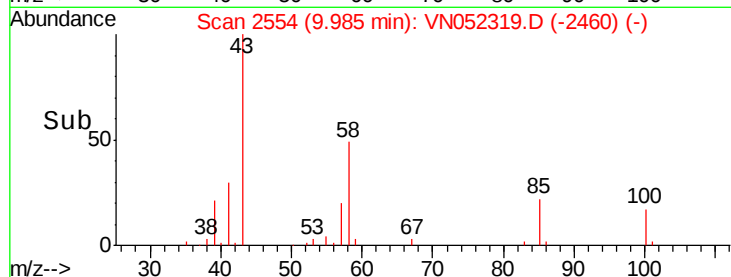
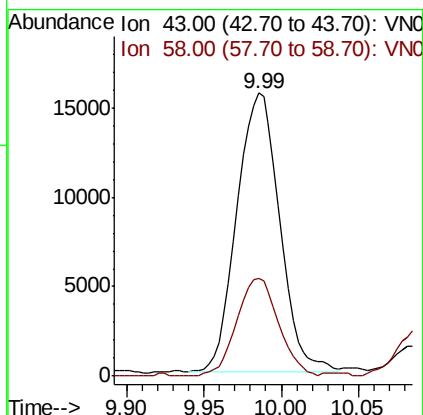
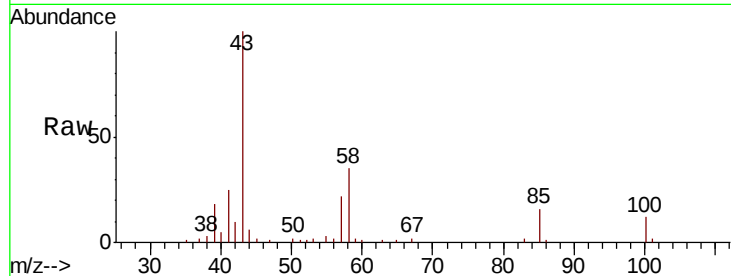




#51
4-Methyl-2-Pentanone
Concen: 9.687 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

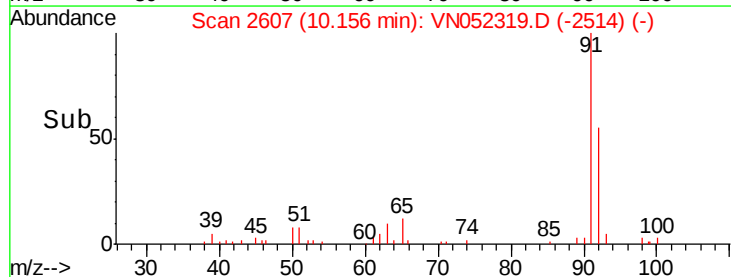
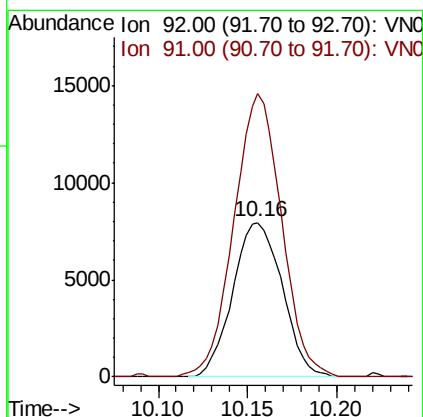
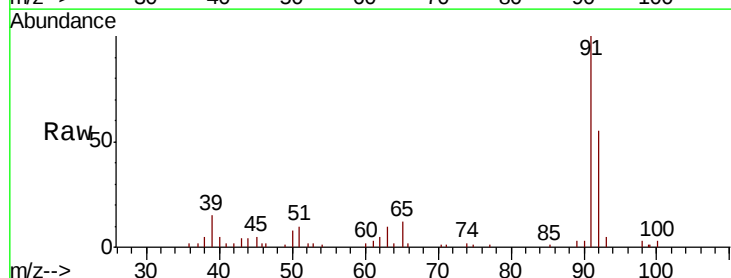
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

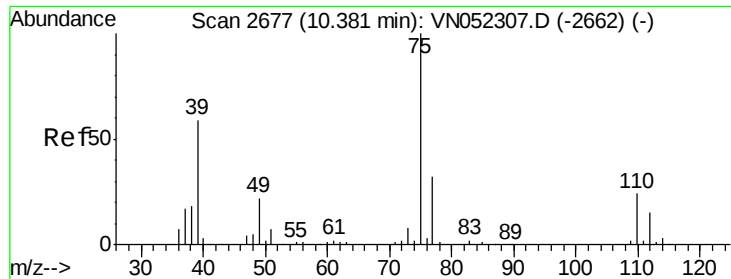
Tot Ion: 43 Resp: 29865
Ion Ratio Lower Upper
43 100
58 34.4 27.0 40.6



#52
Toluene
Concen: 2.055 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 92 Resp: 15362
Ion Ratio Lower Upper
92 100
91 177.1 143.6 215.4





#53

t-1,3-Dichloropropene

Concen: 1.772 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

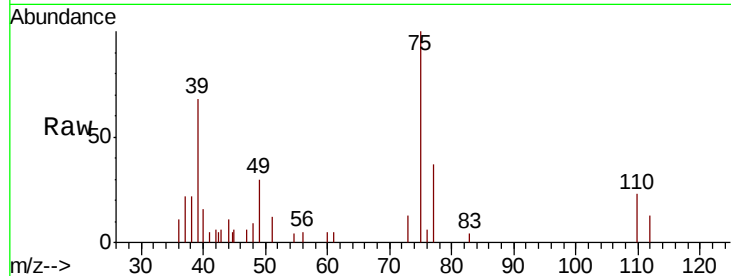
LOQ-WATER-02-QT4-2018

Tot Ion: 75 Resp: 7526

Ion Ratio Lower Upper

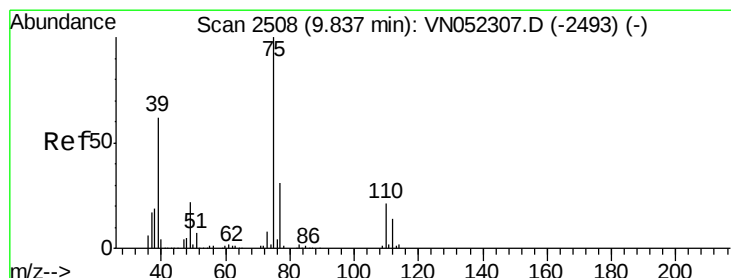
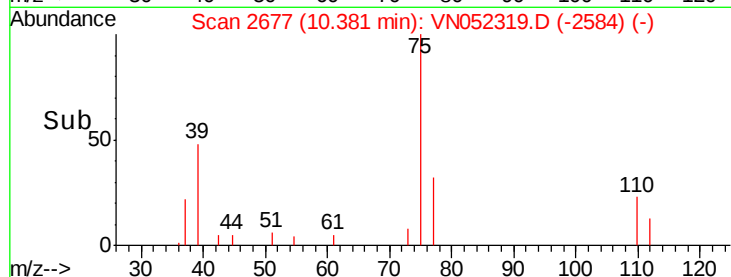
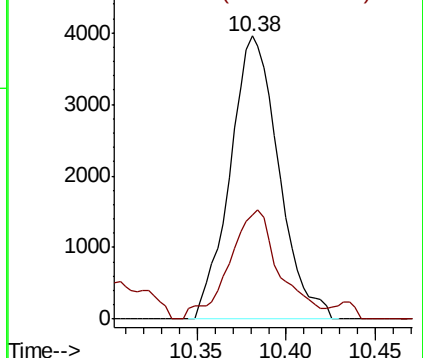
75 100

77 33.1 25.7 38.5



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 1.855 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

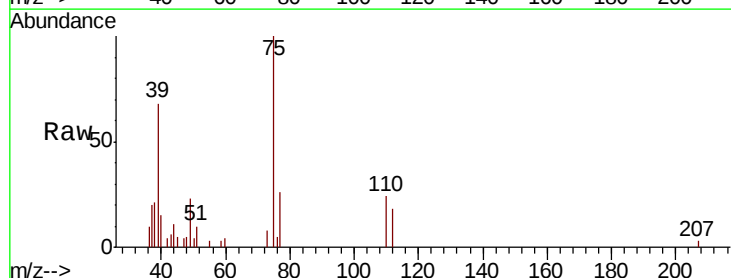
Tgt Ion: 75 Resp: 8983

Ion Ratio Lower Upper

75 100

77 26.5 24.6 36.8

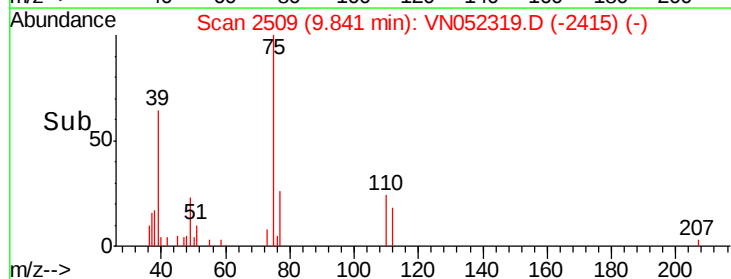
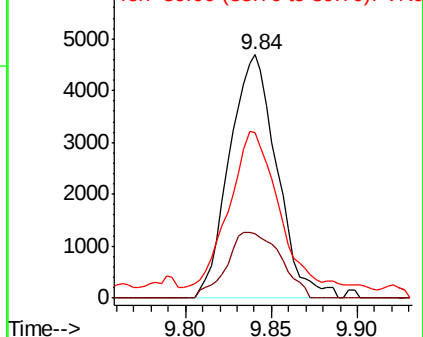
39 63.2 49.9 74.9

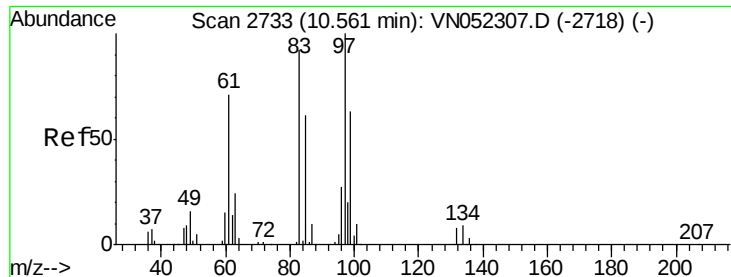


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

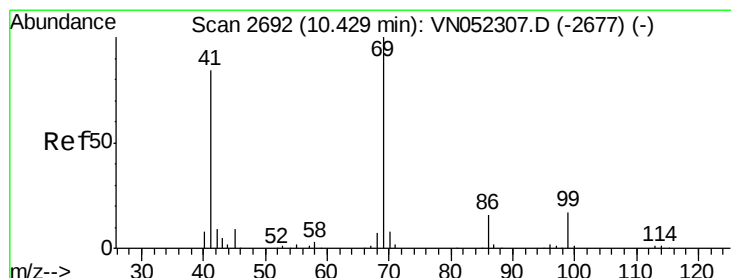
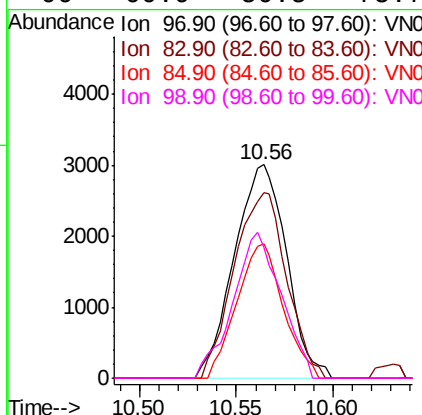
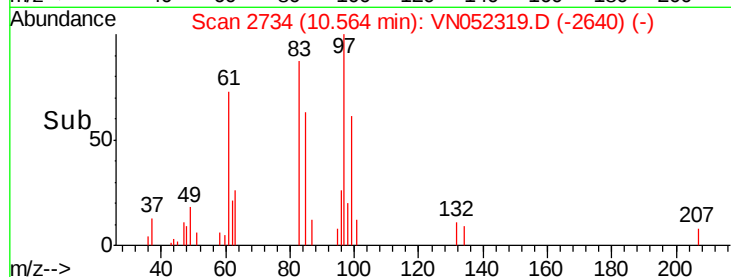
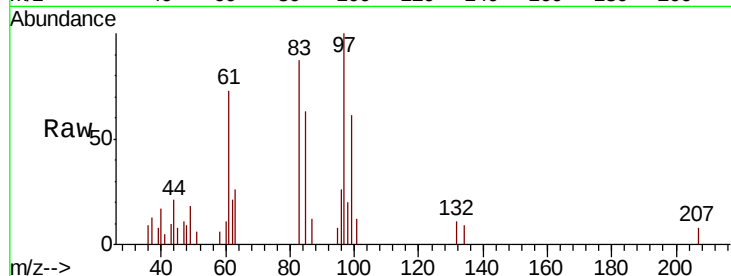




#55
1,1,2-Trichloroethane
Concen: 2.081 ug/l
RT: 10.56 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

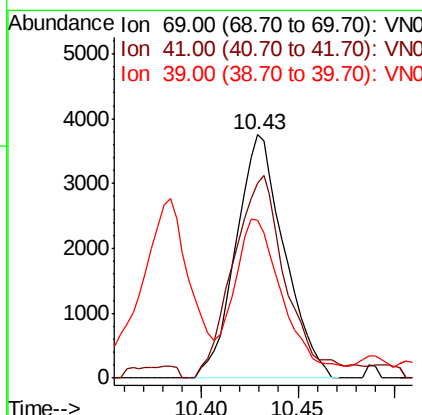
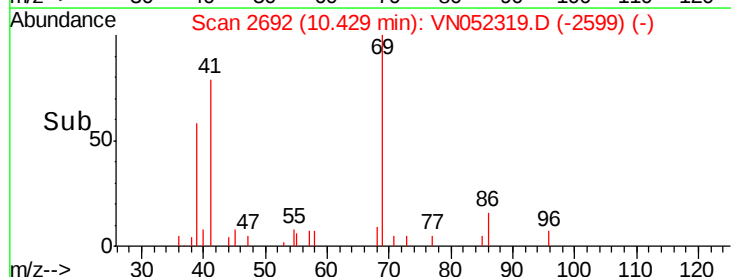
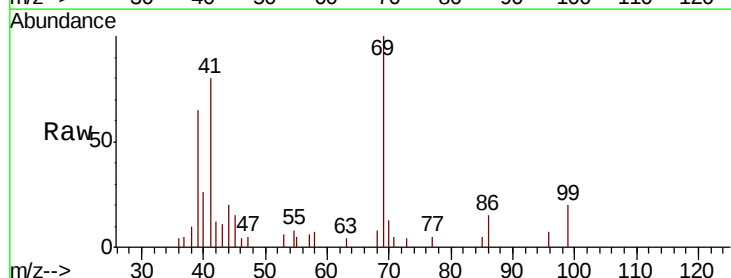
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

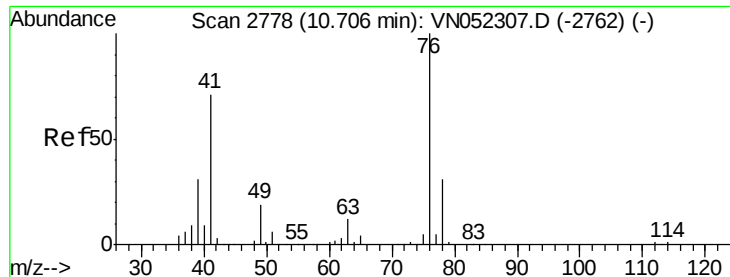
Tot Ion: 97 Resp: 5638
Ion Ratio Lower Upper
97 100
83 87.2 73.8 110.6
85 62.7 49.0 73.4
99 60.9 50.5 75.7



#56
Ethyl methacrylate
Concen: 1.828 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 69 Resp: 6515
Ion Ratio Lower Upper
69 100
41 92.8 64.8 97.2
39 59.7 41.0 61.6





#57

1,3-Dichloropropane

Concen: 2.003 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

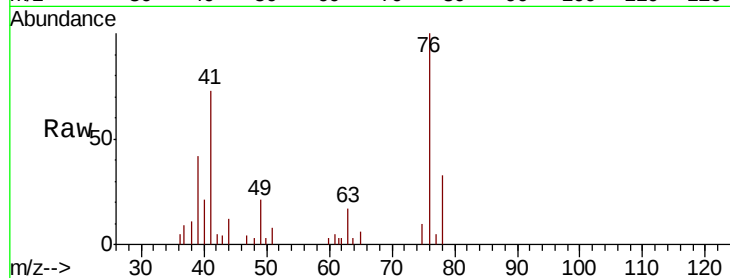
LOQ-WATER-02-QT4-2018

Tot Ion: 76 Resp: 9611

Ion Ratio Lower Upper

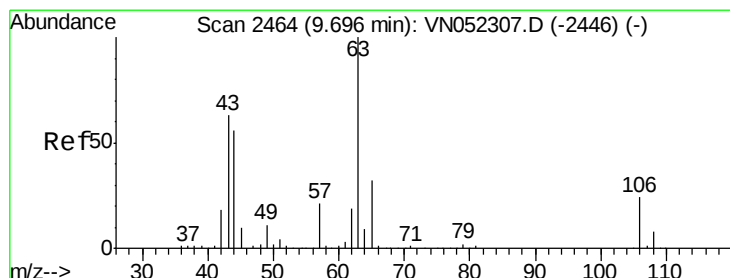
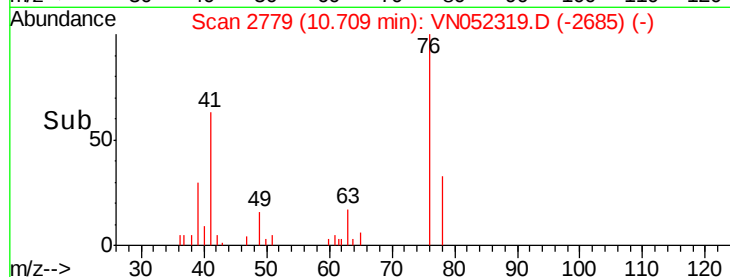
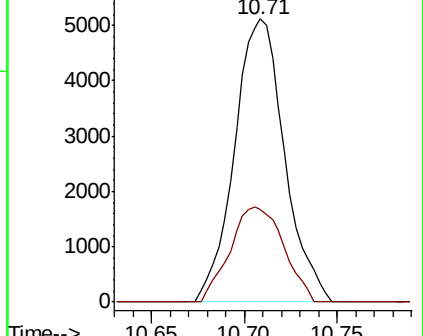
76 100

78 35.9 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 9.099 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN052319.D

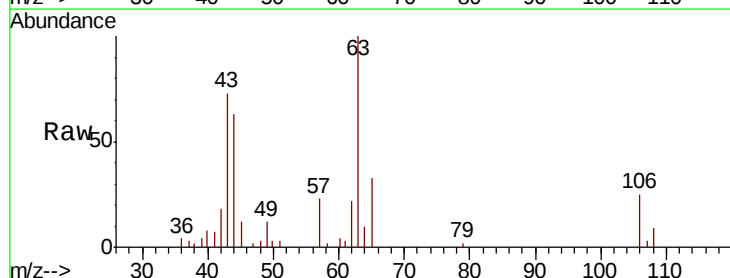
Acq: 14 Nov 2018 18:02

Tgt Ion: 63 Resp: 18460

Ion Ratio Lower Upper

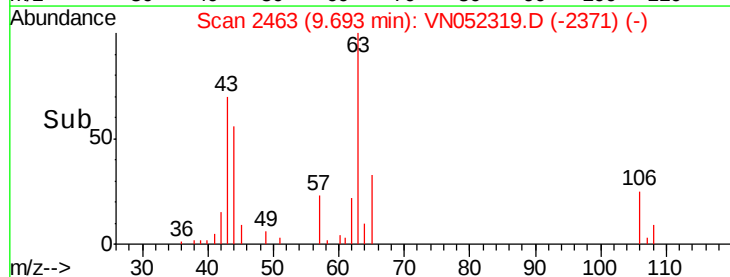
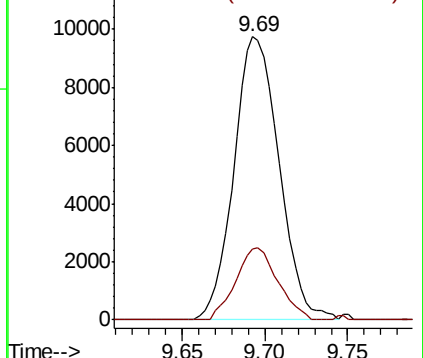
63 100

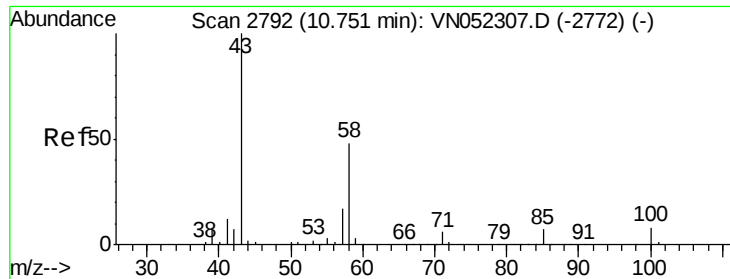
106 23.5 19.3 28.9



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

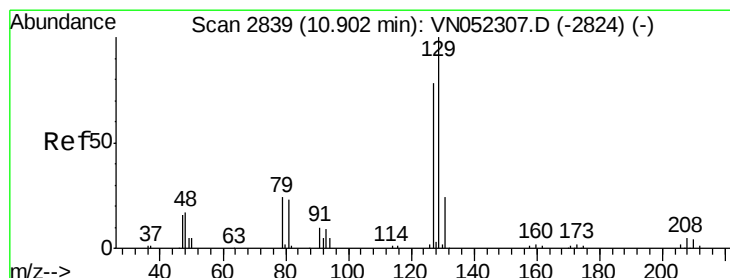
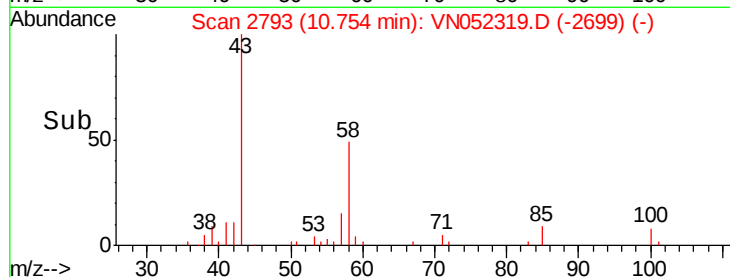
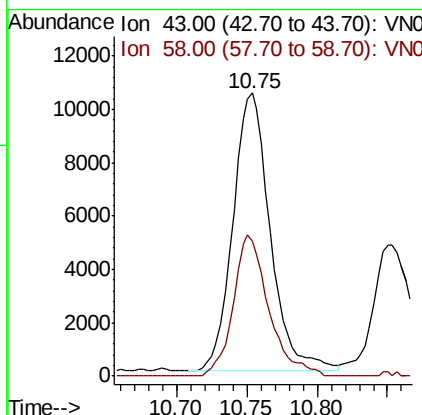
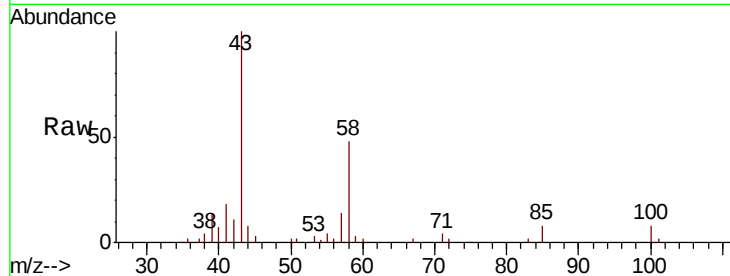




#59
2-Hexanone
Concen: 9.029 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

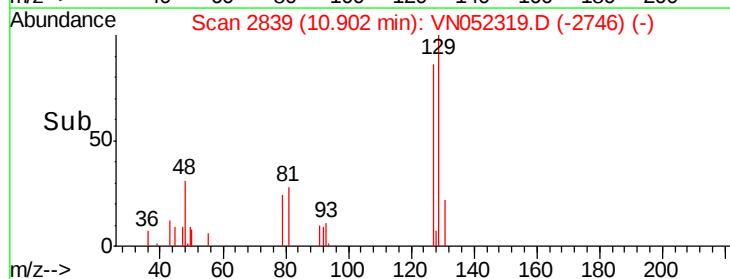
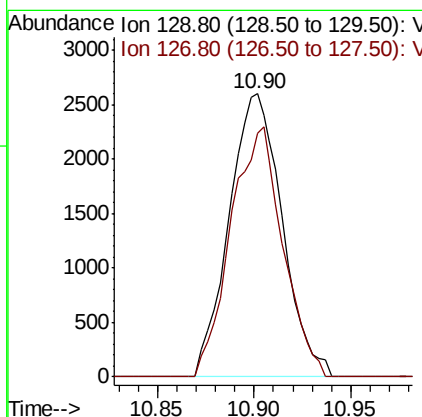
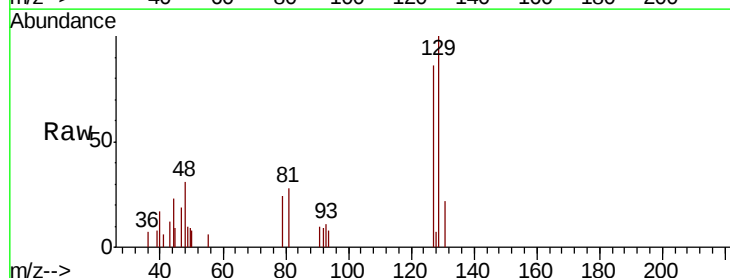
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

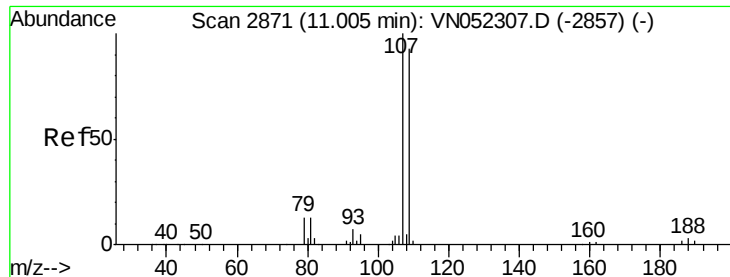
Tot Ion: 43 Resp: 19148
Ion Ratio Lower Upper
43 100
58 48.7 23.5 70.6



#60
Dibromochloromethane
Concen: 1.688 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 129 Resp: 4948
Ion Ratio Lower Upper
129 100
127 86.7 38.5 115.5





#61

1,2-Dibromoethane

Concen: 1.950 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

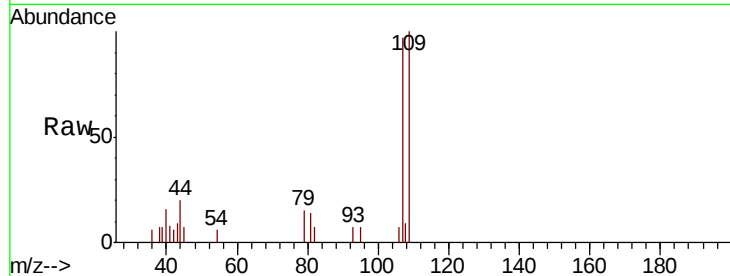
LOQ-WATER-02-QT4-2018

Tot Ion: 107 Resp: 5263

Ion Ratio Lower Upper

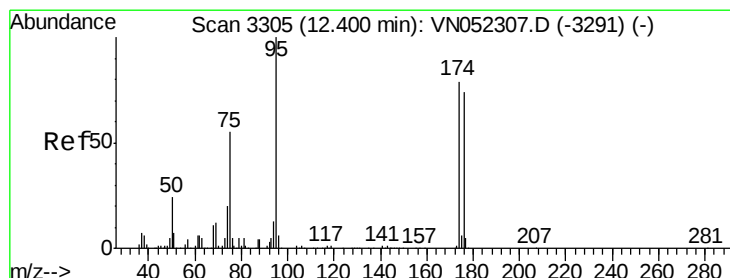
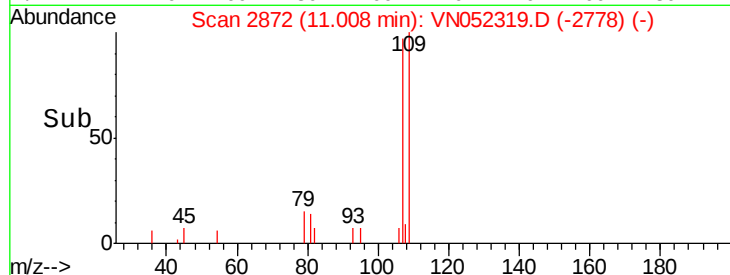
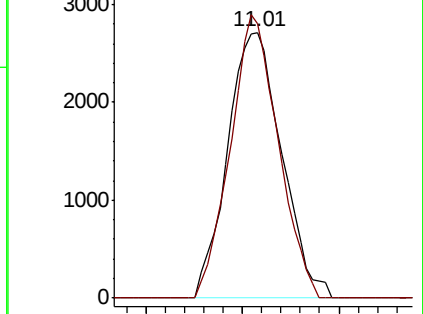
107 100

109 94.8 74.9 112.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 1.950 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

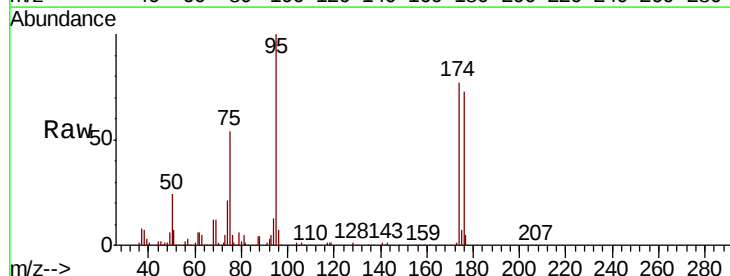
Tgt Ion: 95 Resp: 161773

Ion Ratio Lower Upper

95 100

174 77.4 0.0 156.0

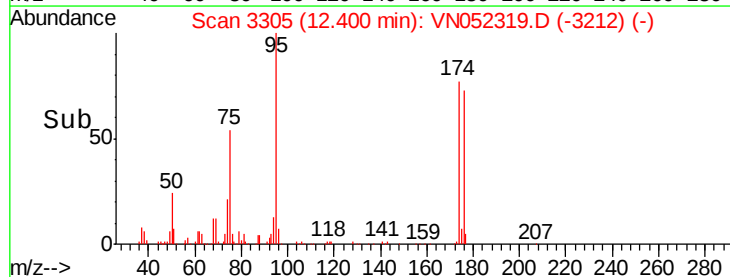
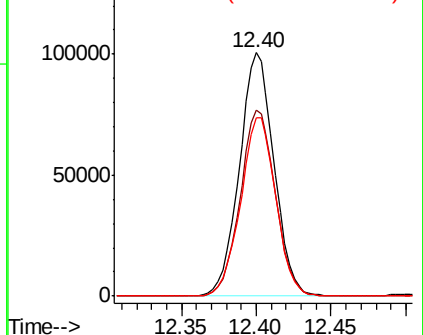
176 74.4 0.0 148.4

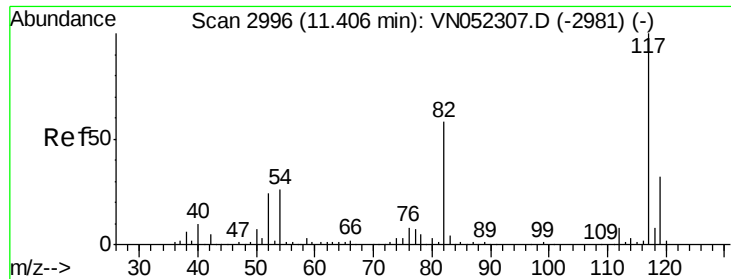


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

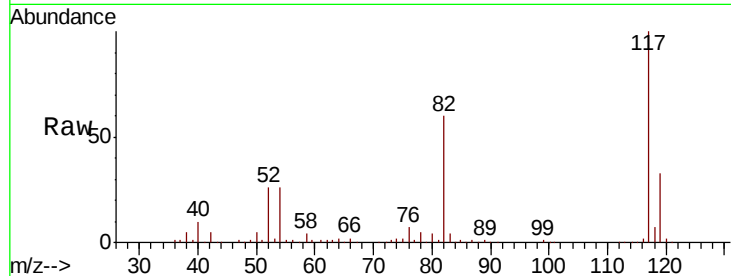




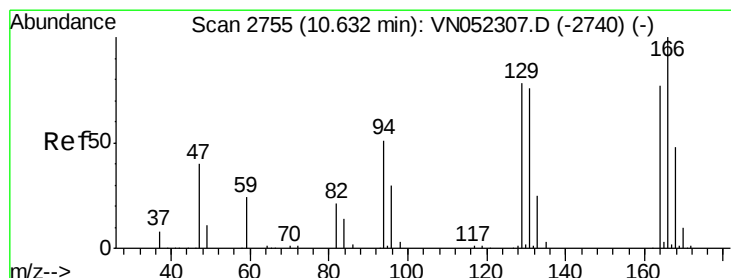
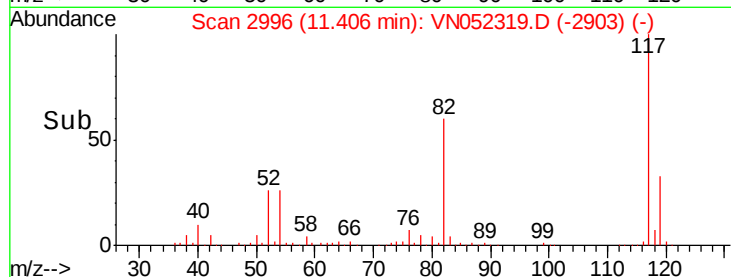
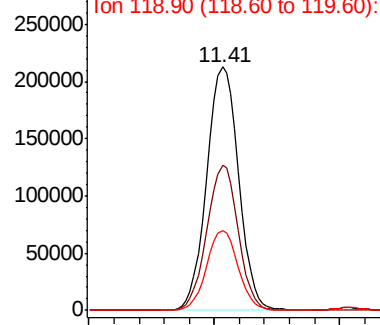
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion:117 Resp: 376633
Ion Ratio Lower Upper
117 100
82 59.7 46.5 69.7
119 32.8 25.7 38.5

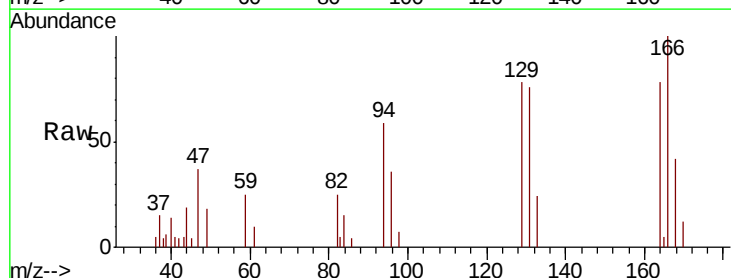


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

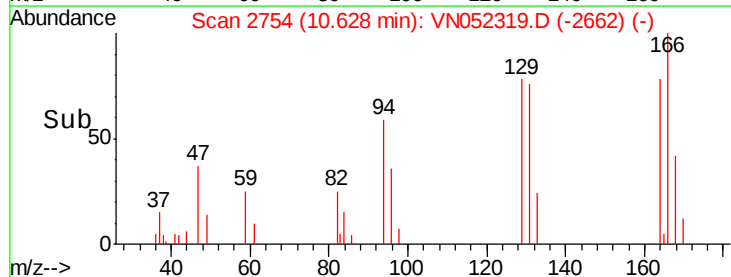
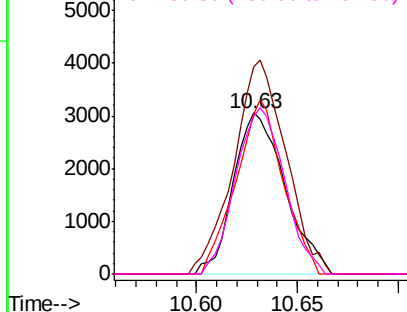


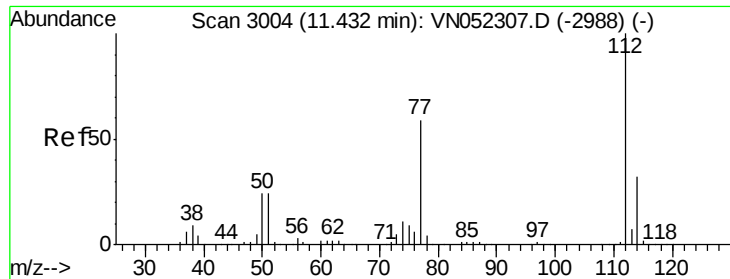
#64
Tetrachloroethene
Concen: 2.047 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:164 Resp: 5481
Ion Ratio Lower Upper
164 100
166 128.8 103.8 155.6
129 99.8 80.7 121.1
131 97.8 78.5 117.7



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

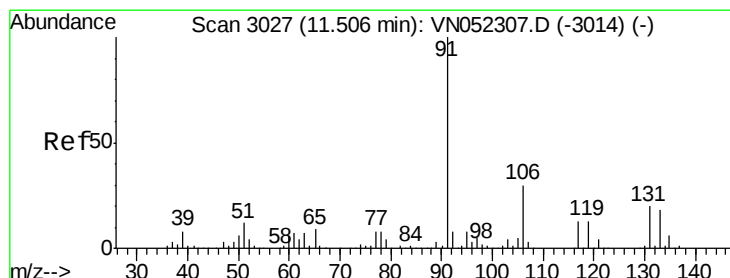
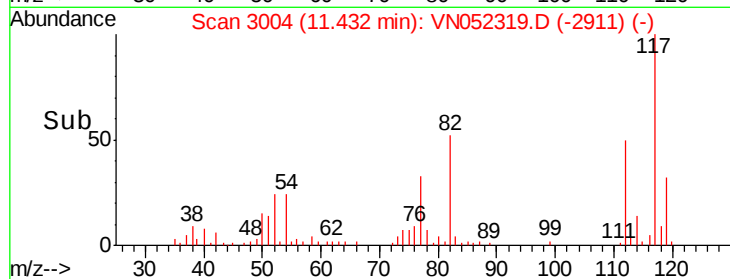
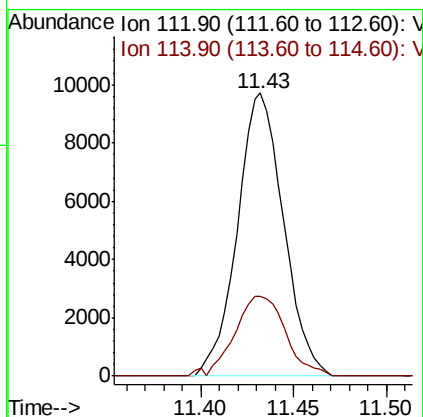
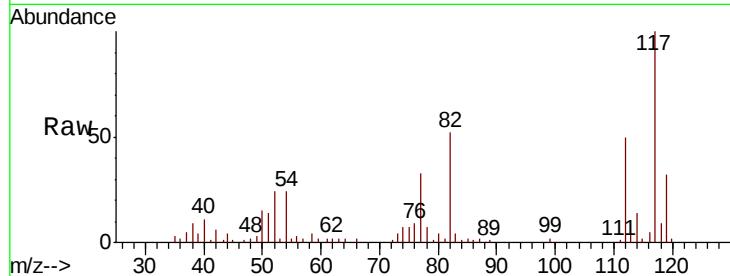




#65
Chlorobenzene
Concen: 2.104 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

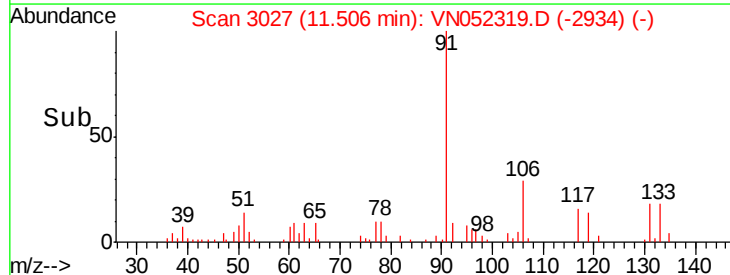
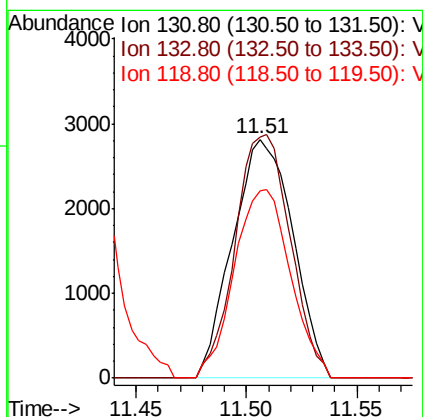
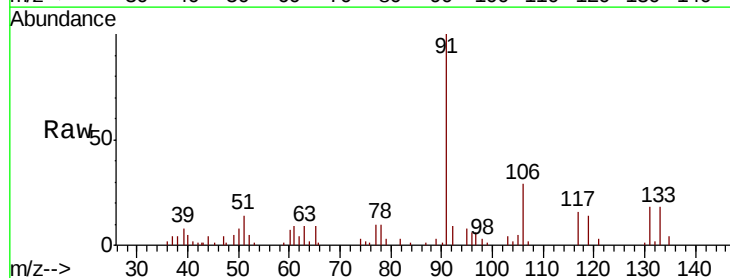
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

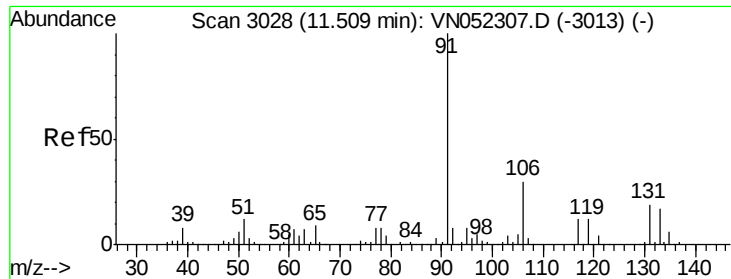
Tot Ion:112 Resp: 16748
Ion Ratio Lower Upper
112 100
114 28.2 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 1.959 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:131 Resp: 5319
Ion Ratio Lower Upper
131 100
133 93.5 47.4 142.3
119 74.0 33.3 99.9

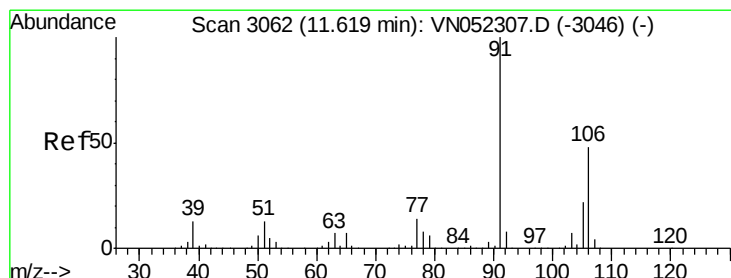
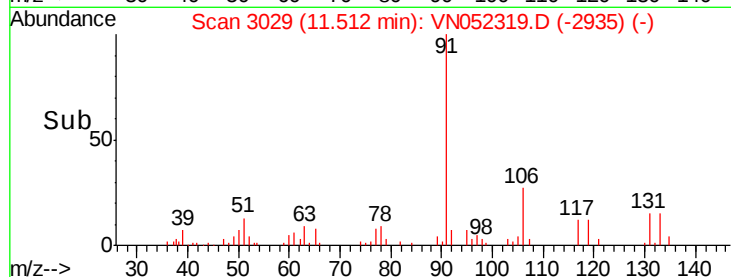
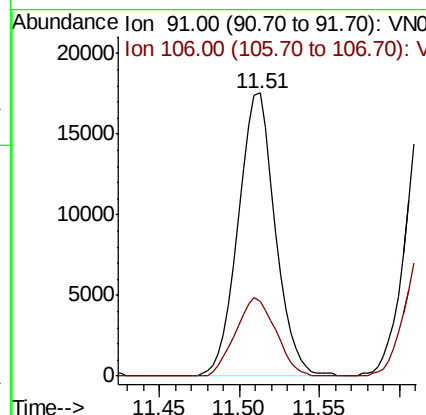
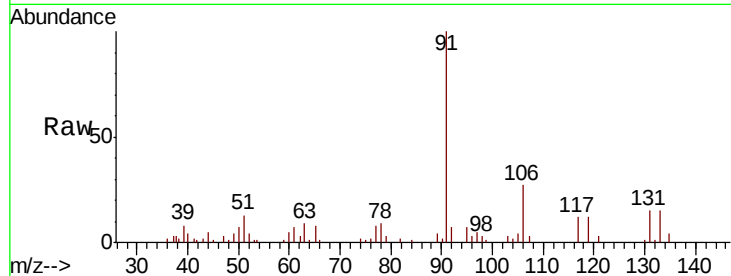




#67
Ethyl Benzene
Concen: 2.001 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

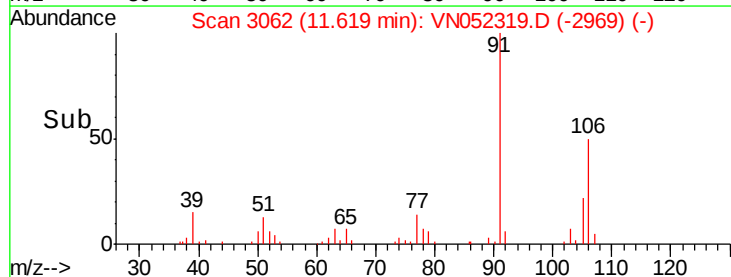
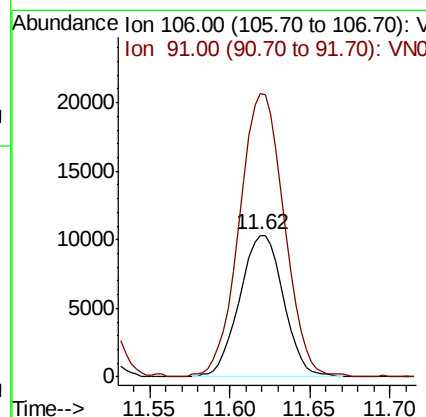
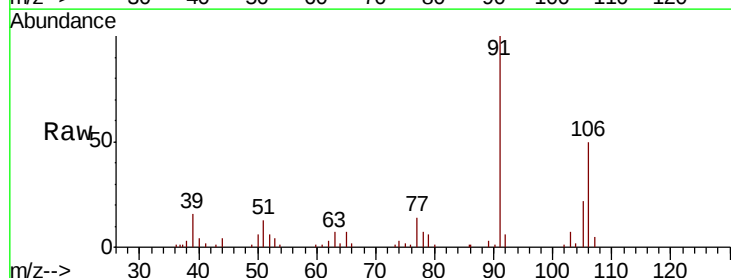
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

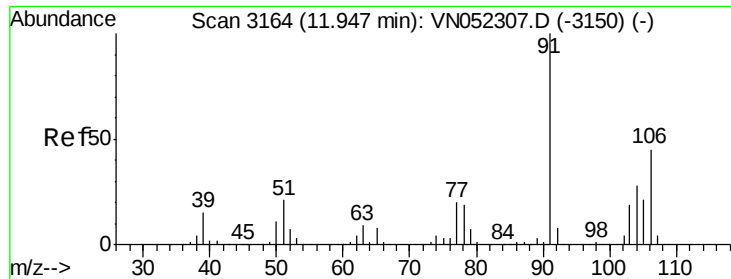
Tot Ion: 91 Resp: 27646
Ion Ratio Lower Upper
91 100
106 26.5 24.2 36.2



#68
m/p-Xylenes
Concen: 3.834 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 106 Resp: 19358
Ion Ratio Lower Upper
106 100
91 204.8 165.5 248.3

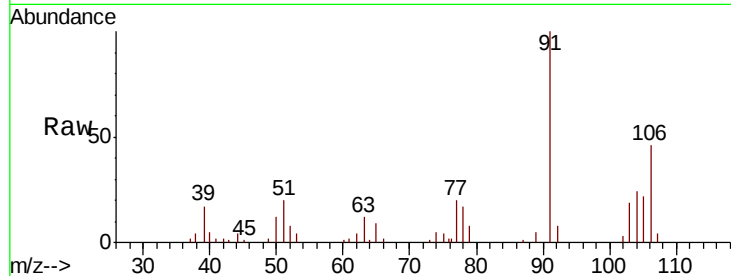




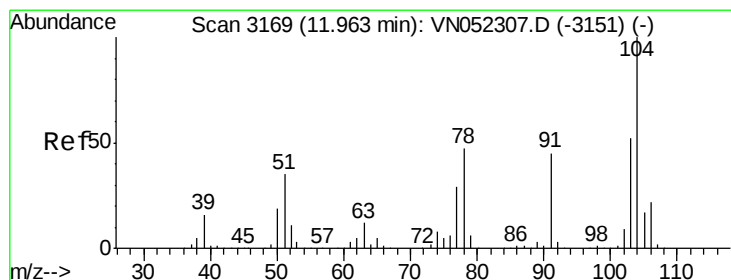
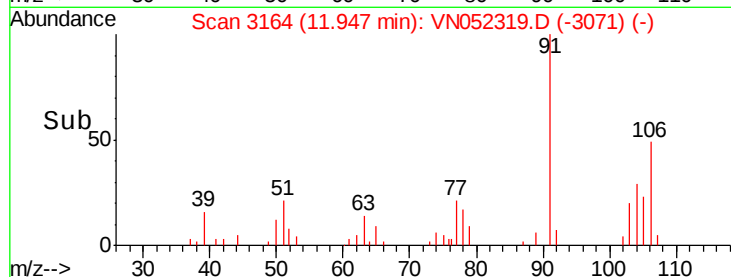
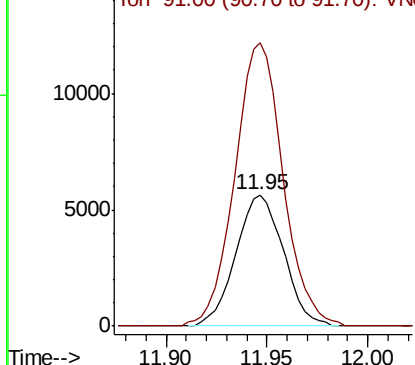
#69
o-Xylene
Concen: 1.925 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion:106 Resp: 9315
Ion Ratio Lower Upper
106 100
91 218.6 110.0 330.0

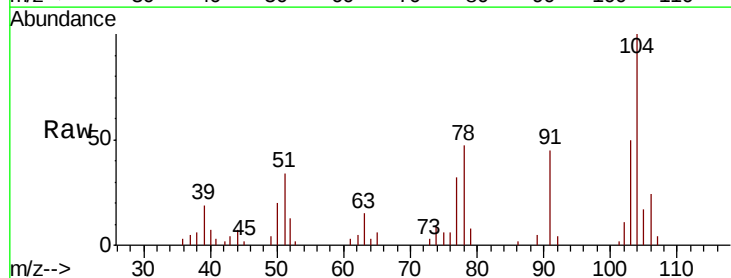


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

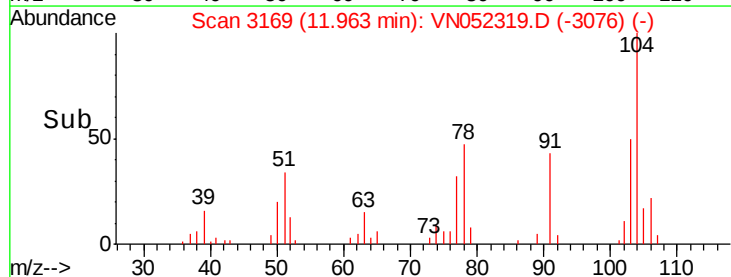
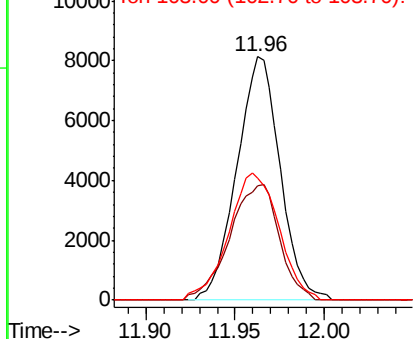


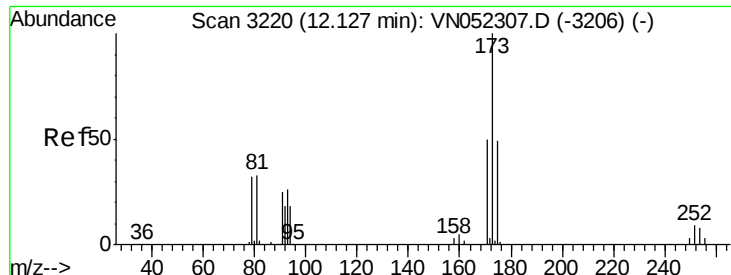
#70
Styrene
Concen: 1.780 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:104 Resp: 13796
Ion Ratio Lower Upper
104 100
78 54.4 42.7 64.1
103 60.4 45.4 68.0



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

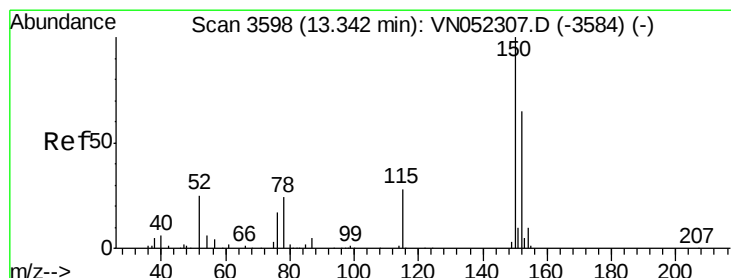
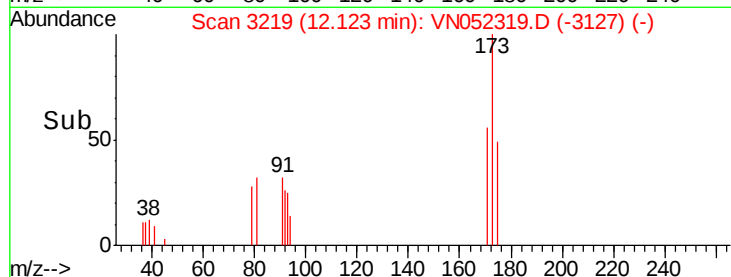
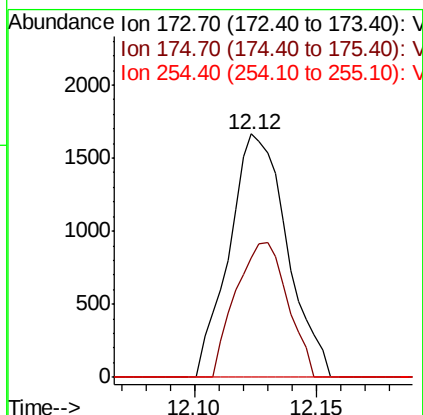
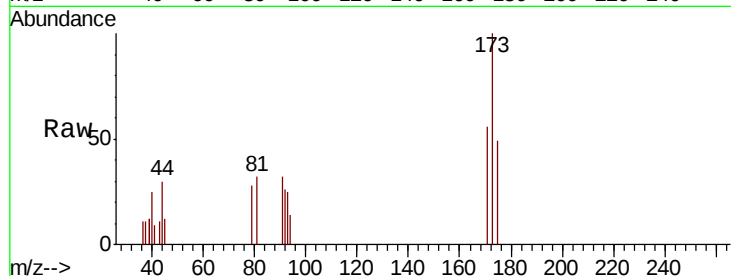




#71
Bromoform
Concen: 1.708 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

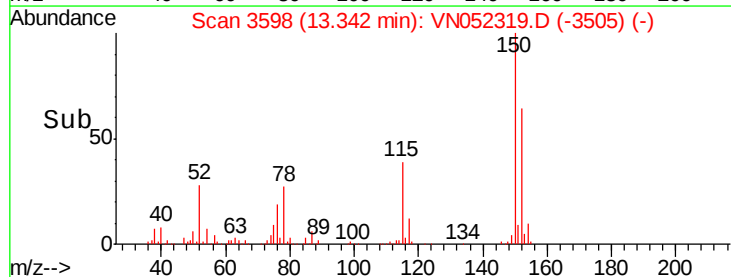
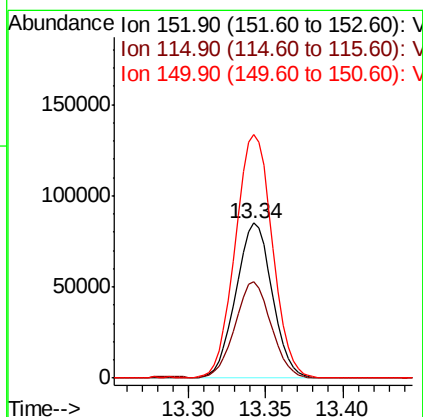
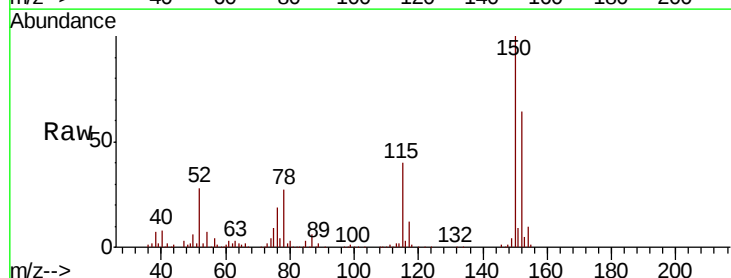
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

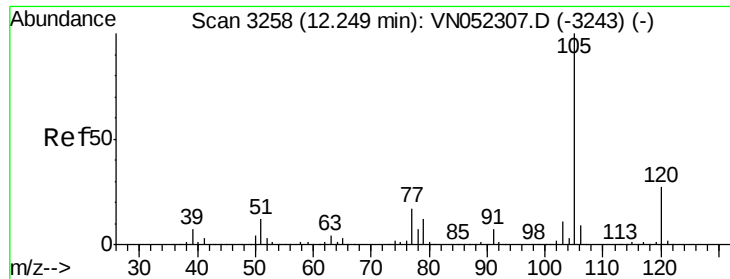
Tot Ion:173 Resp: 2737
Ion Ratio Lower Upper
173 100
175 49.6 25.0 75.0
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:152 Resp: 138510
Ion Ratio Lower Upper
152 100
115 62.0 30.3 91.0
150 160.7 0.0 348.2





#73

Isopropylbenzene

Concen: 2.180 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

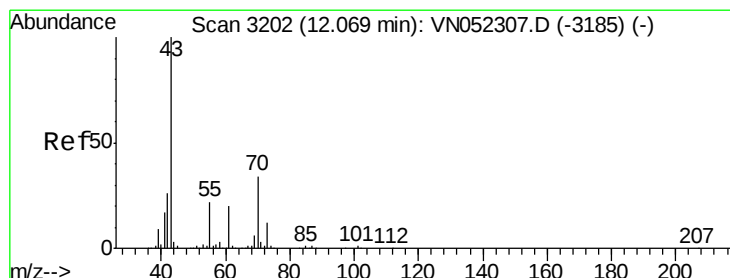
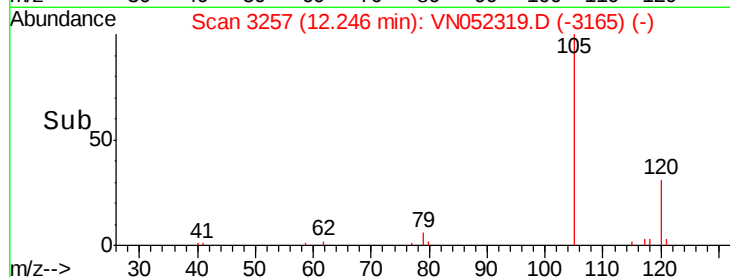
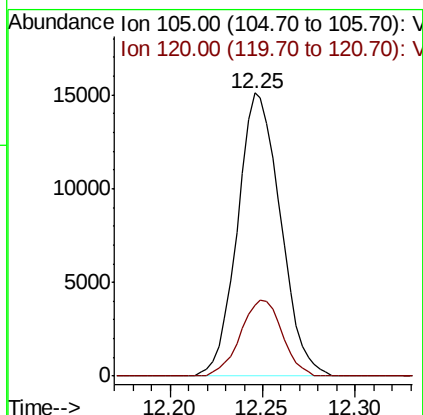
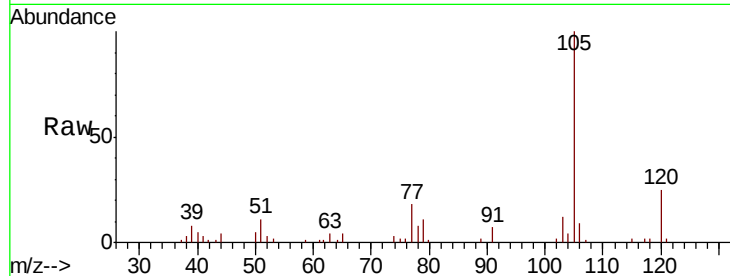
LOQ-WATER-02-QT4-2018

Tot Ion:105 Resp: 24280

Ion Ratio Lower Upper

105 100

120 26.1 13.4 40.1



#74

N-ethyl acetate

Concen: 2.308 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion: 43 Resp: 9156

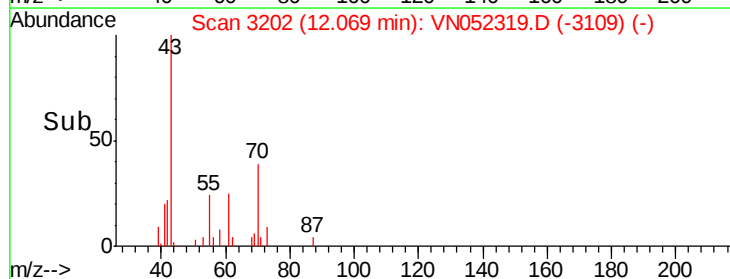
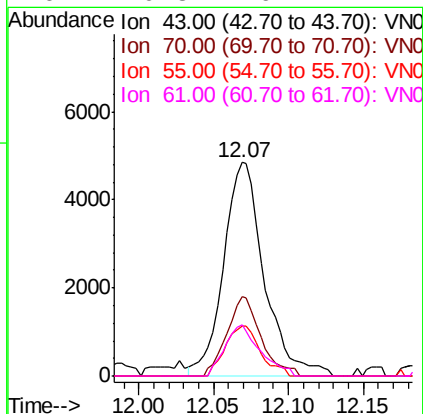
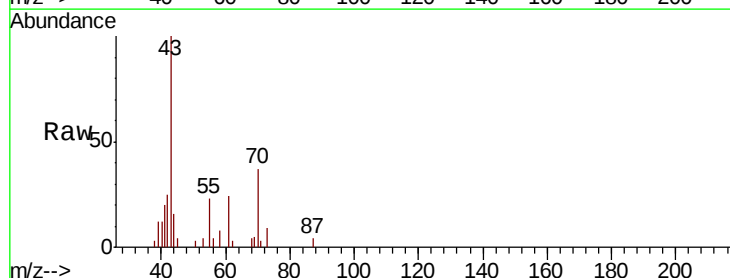
Ion Ratio Lower Upper

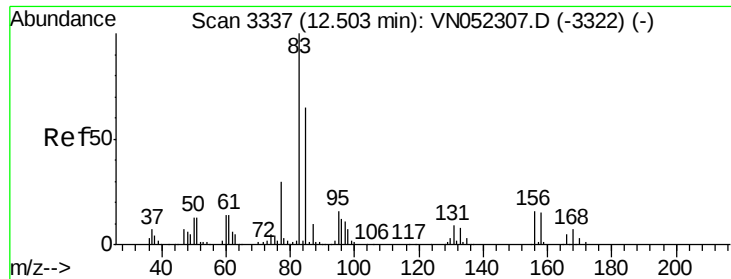
43 100

70 31.0 27.1 40.7

55 20.2 17.4 26.0

61 20.8 16.1 24.1





#75

1,1,2,2-Tetrachloroethane

Concen: 2.485 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

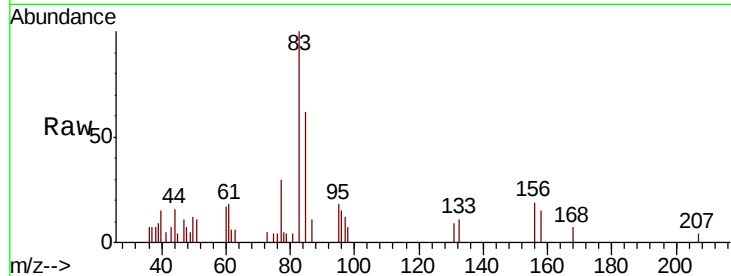
Tot Ion: 83 Resp: 6690

Ion Ratio Lower Upper

83 100

131 8.3 4.7 14.1

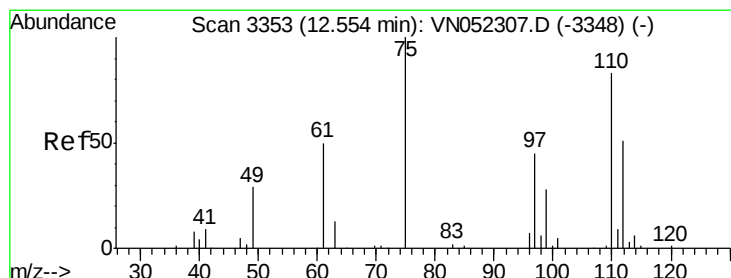
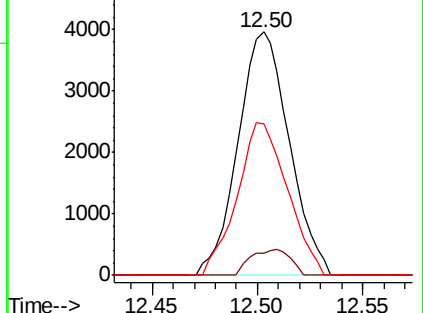
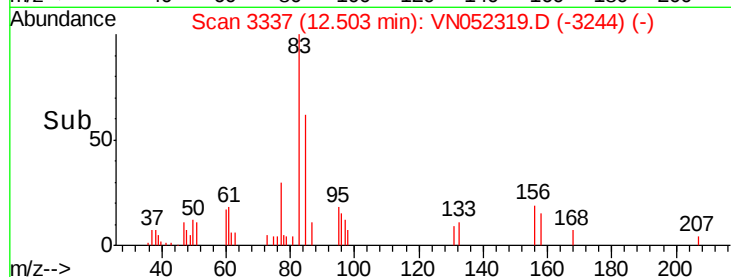
85 61.4 32.4 97.2



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 3.309 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN052319.D

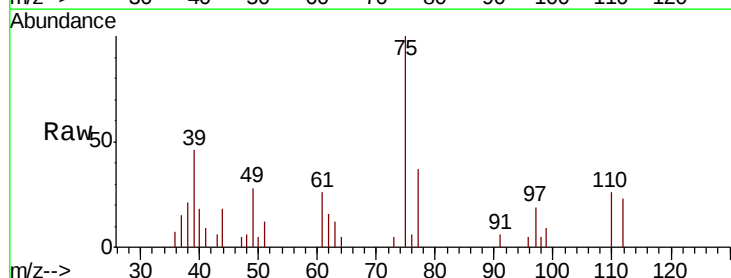
Acq: 14 Nov 2018 18:02

Tgt Ion: 75 Resp: 7778

Ion Ratio Lower Upper

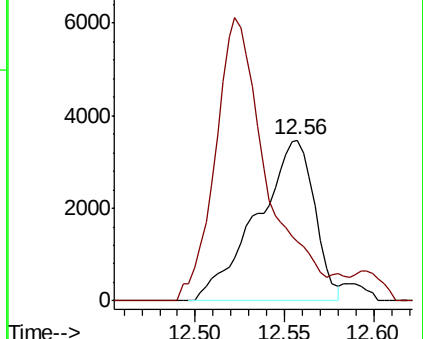
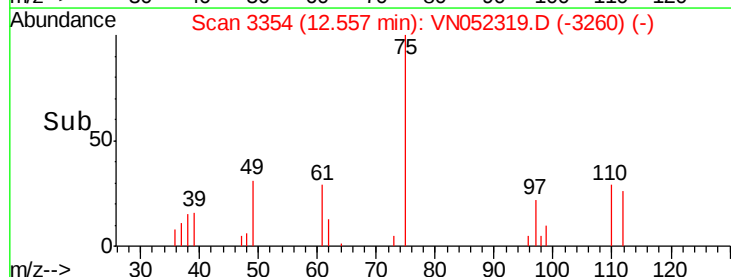
75 100

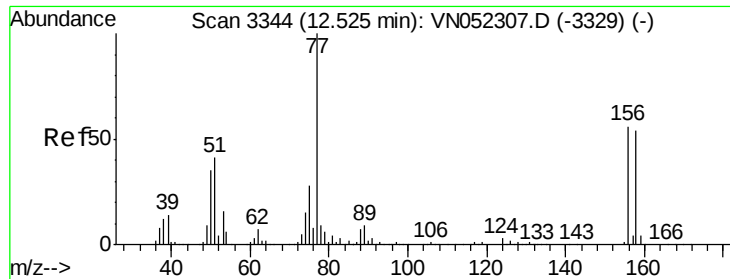
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 2.284 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

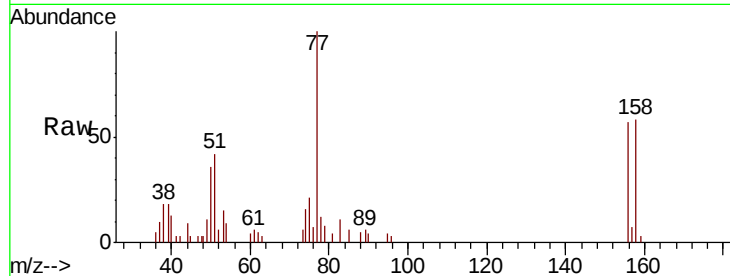
Tot Ion:156 Resp: 5919

Ion Ratio Lower Upper

156 100

77 209.3 103.6 310.9

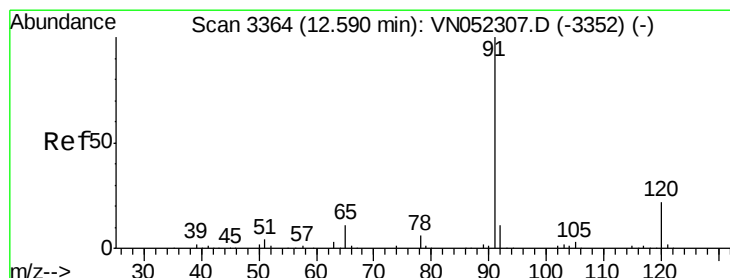
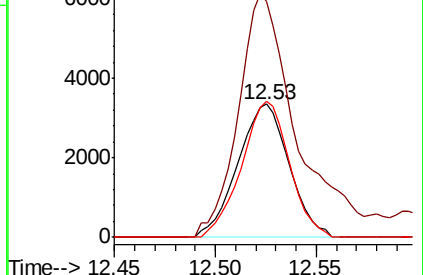
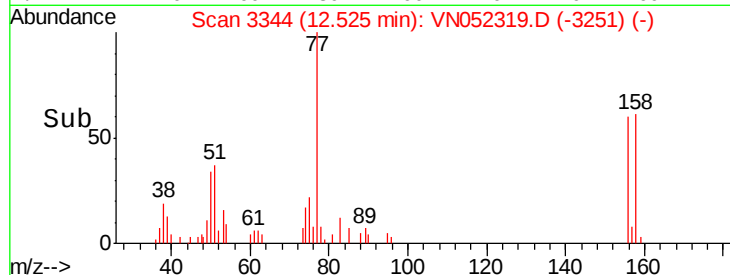
158 95.6 48.1 144.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.180 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN052319.D

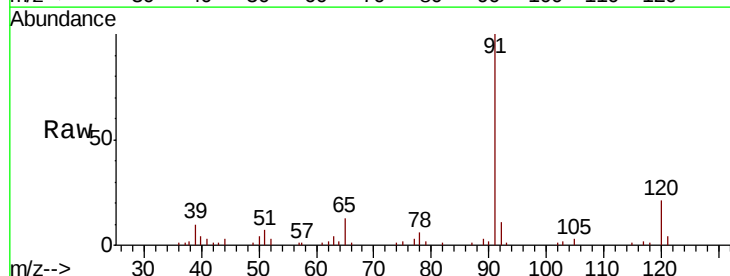
Acq: 14 Nov 2018 18:02

Tgt Ion: 91 Resp: 28387

Ion Ratio Lower Upper

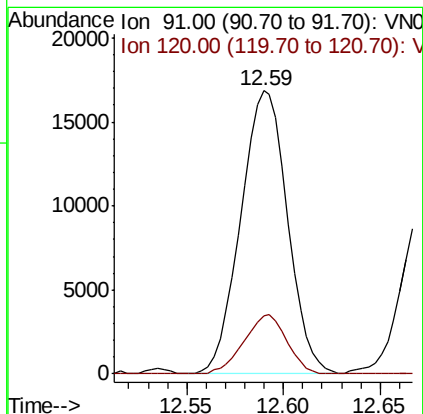
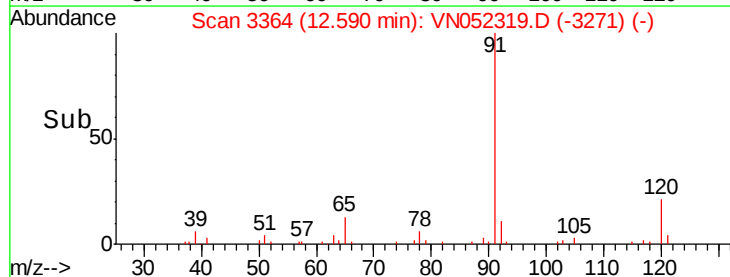
91 100

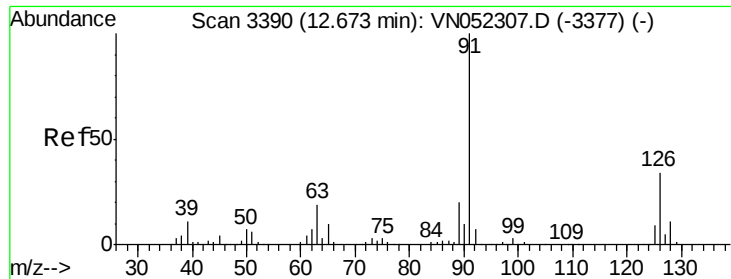
120 19.1 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V

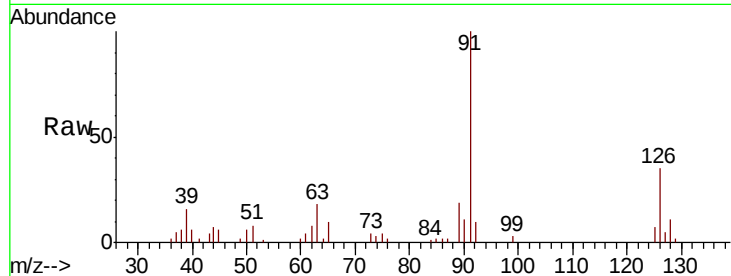




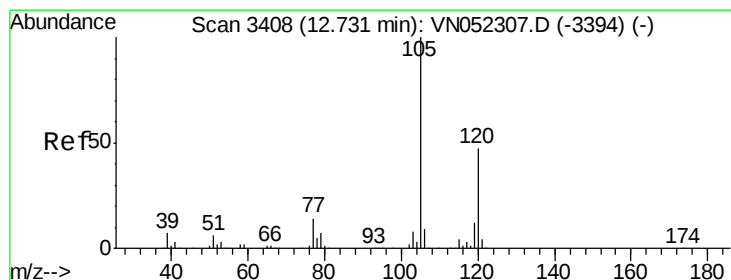
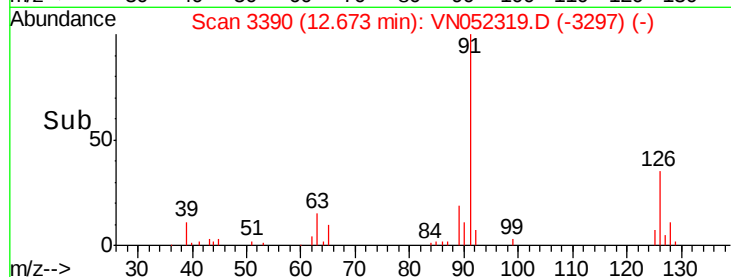
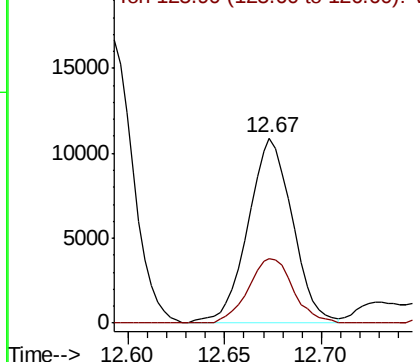
#79
2-Chlorotoluene
Concen: 2.292 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 91 Resp: 17438
Ion Ratio Lower Upper
91 100
126 35.3 17.0 51.0

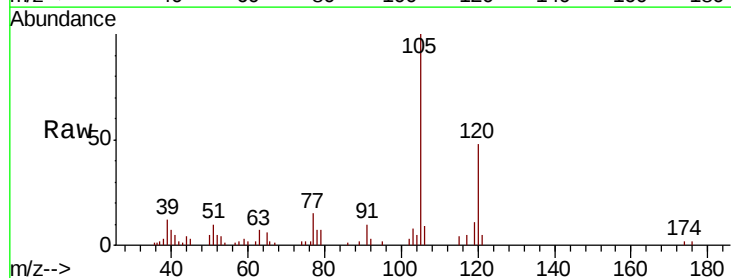


Abundance Ion 91.00 (90.70 to 91.70): VN052319.D (-3297) (-)
Ion 125.90 (125.60 to 126.60): VN052319.D (-3297) (-)

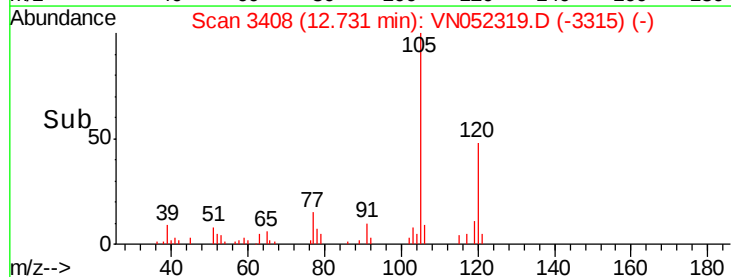
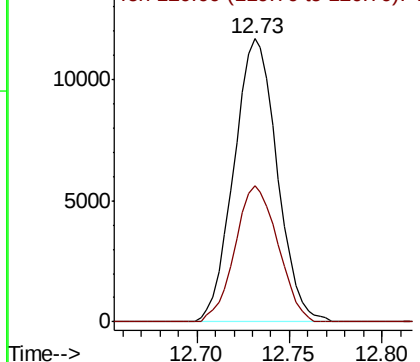


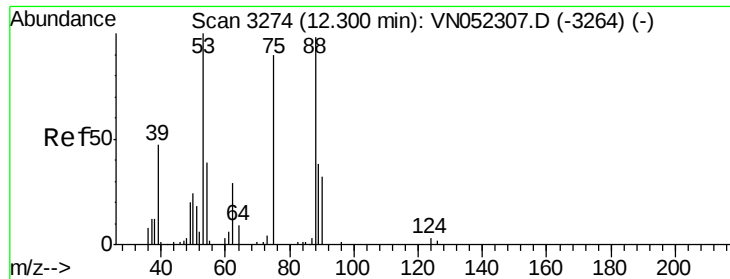
#80
1,3,5-Trimethylbenzene
Concen: 2.129 ug/l
RT: 12.73 min Scan# 3408
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 105 Resp: 18855
Ion Ratio Lower Upper
105 100
120 47.7 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN052319.D (-3315) (-)
Ion 120.00 (119.70 to 120.70): VN052319.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 124.907 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

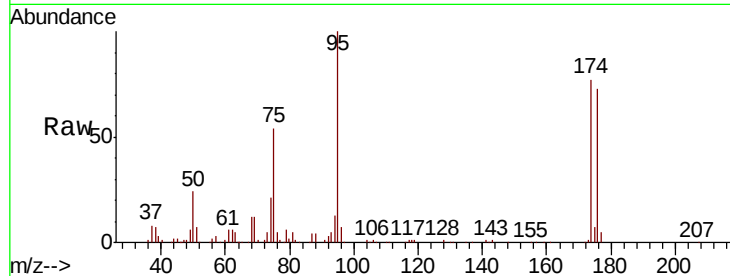
Tot Ion: 75 Resp: 90511

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

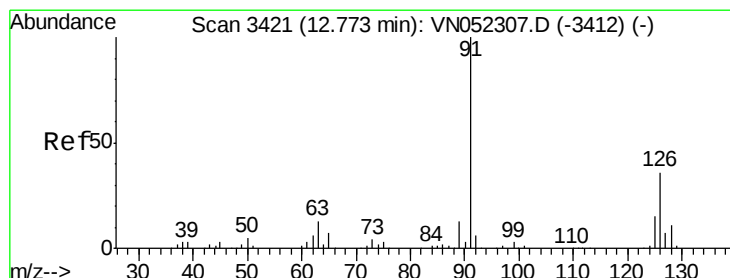
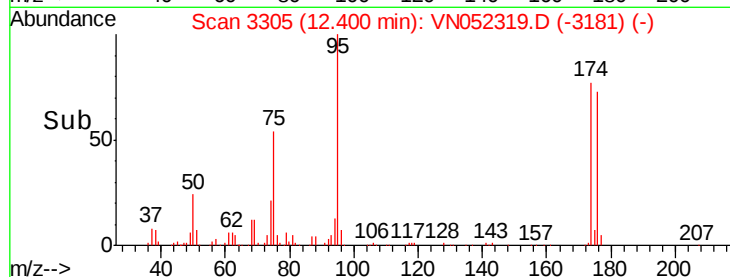
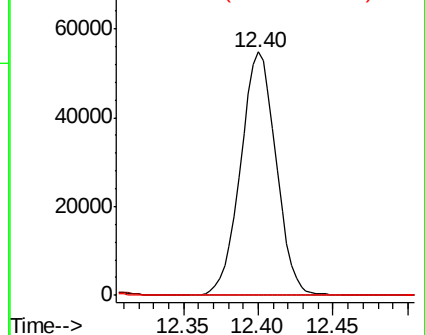
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 2.163 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052319.D

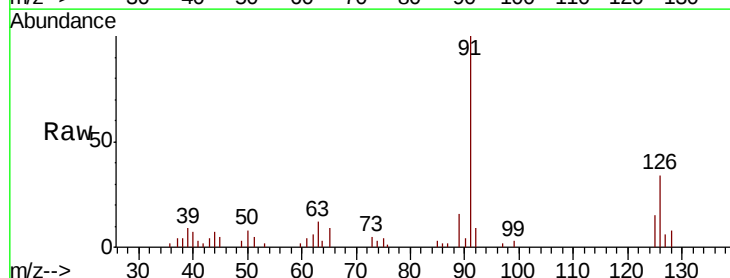
Acq: 14 Nov 2018 18:02

Tgt Ion: 91 Resp: 16864

Ion Ratio Lower Upper

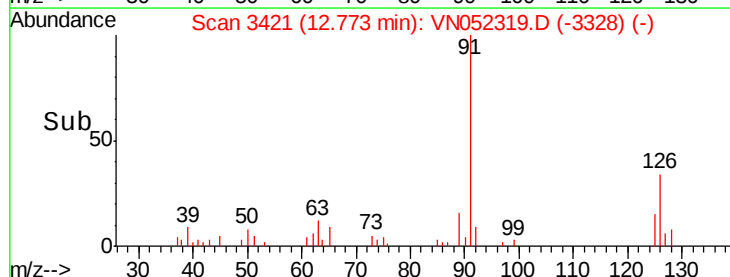
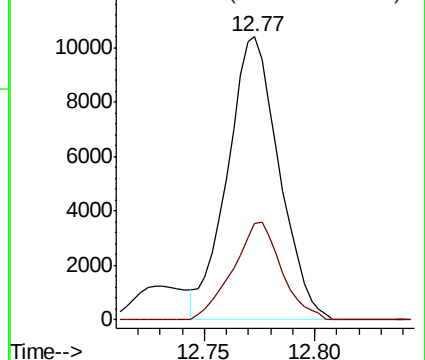
91 100

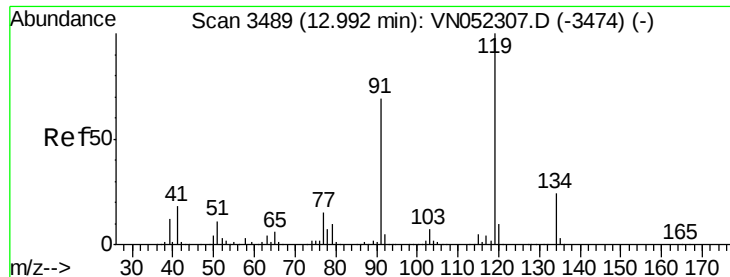
126 32.5 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

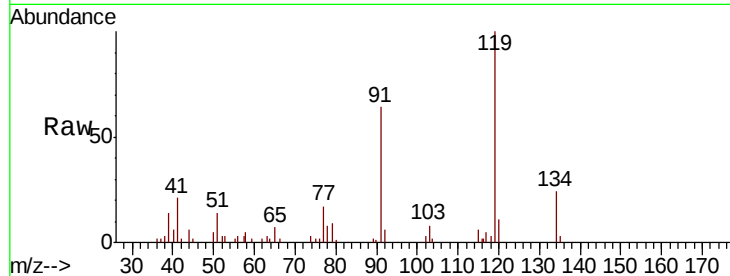




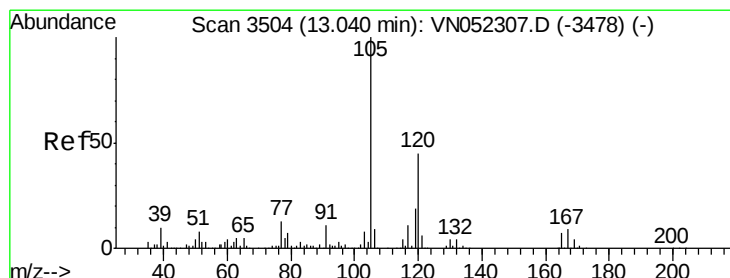
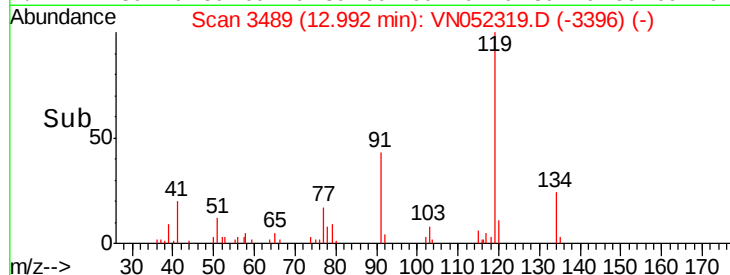
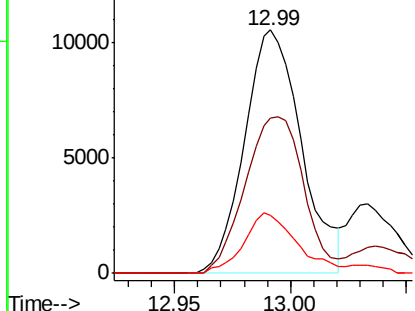
#83
tert-Butylbenzene
Concen: 2.304 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion:119 Resp: 18016
Ion Ratio Lower Upper
119 100
91 65.9 33.8 101.3
134 23.2 11.9 35.9

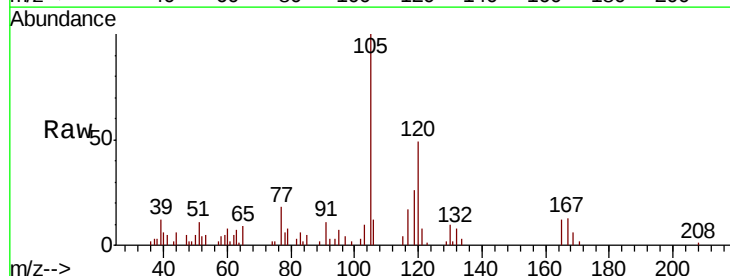


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

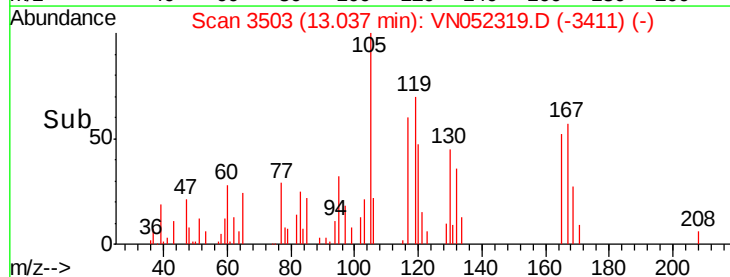
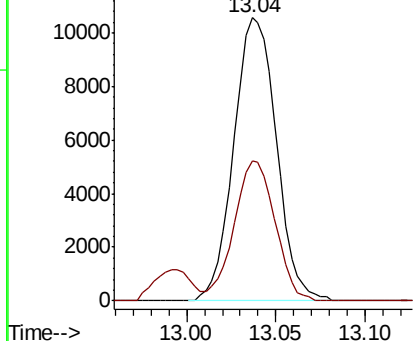


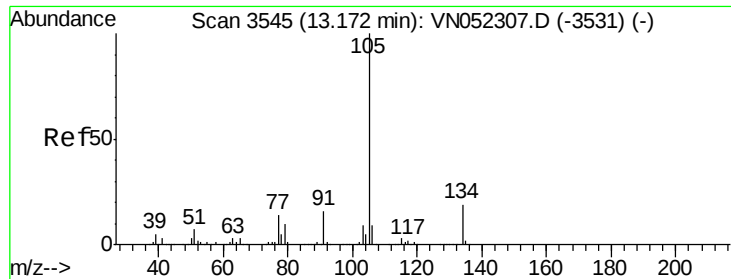
#84
1,2,4-Trimethylbenzene
Concen: 1.987 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:105 Resp: 17666
Ion Ratio Lower Upper
105 100
120 47.2 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.070 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

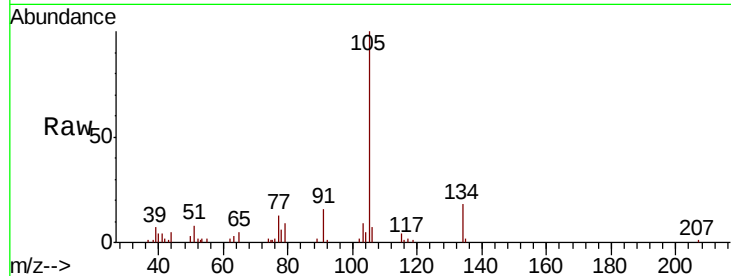
LOQ-WATER-02-QT4-2018

Tot Ion:105 Resp: 22047

Ion Ratio Lower Upper

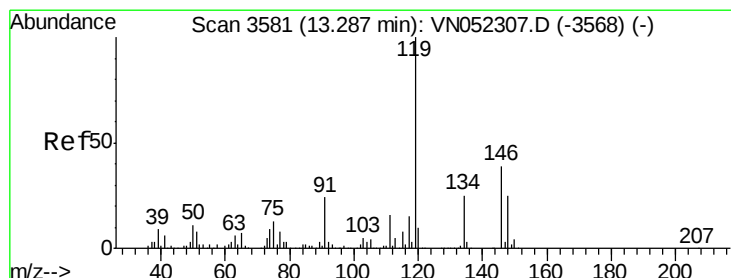
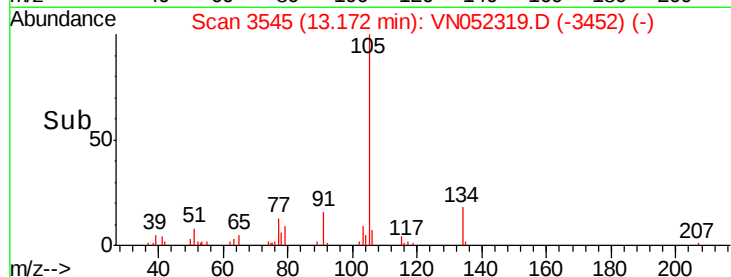
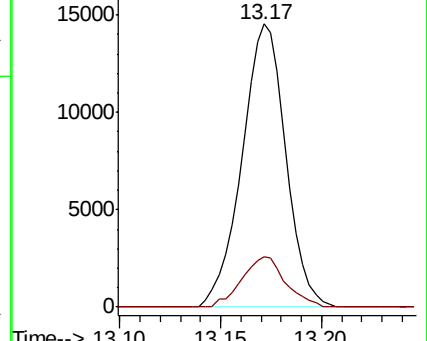
105 100

134 17.8 9.5 28.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.926 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

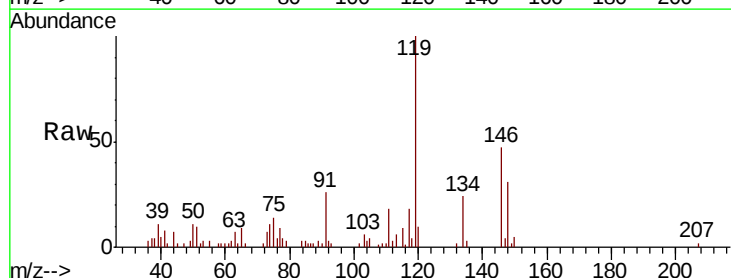
Tgt Ion:119 Resp: 17376

Ion Ratio Lower Upper

119 100

134 26.4 13.0 38.9

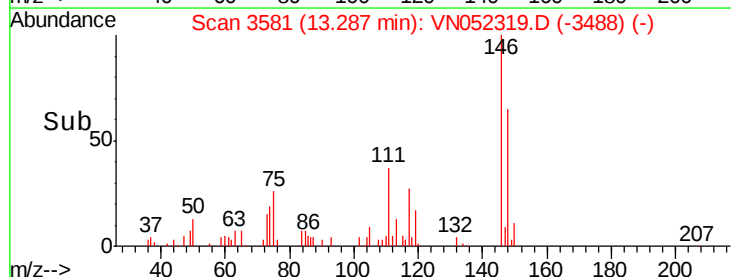
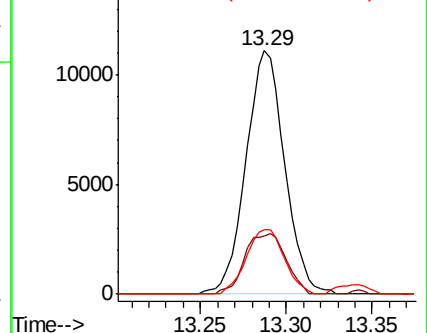
91 26.1 12.4 37.0

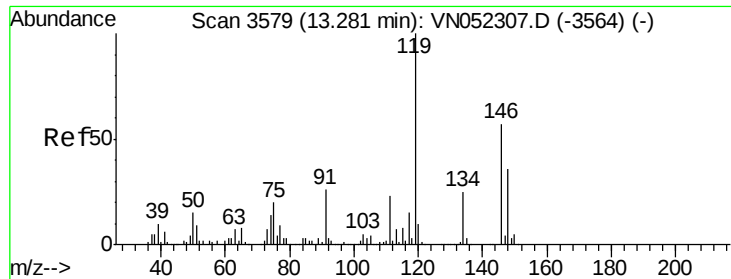


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

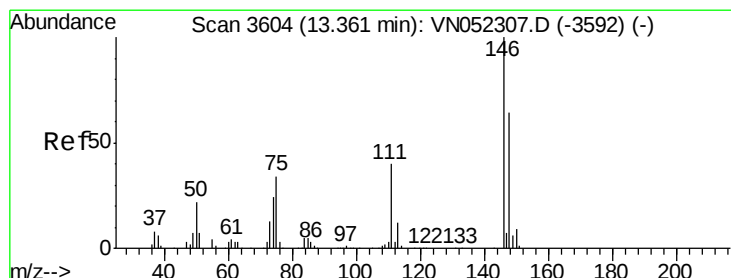
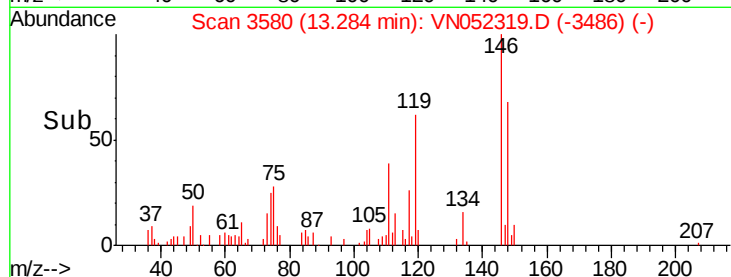
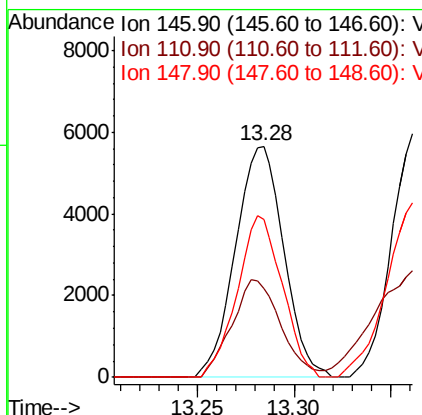
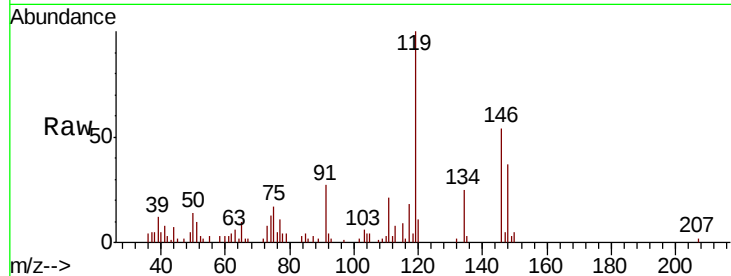




#87
 1,3-Dichlorobenzene
 Concen: 2.135 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

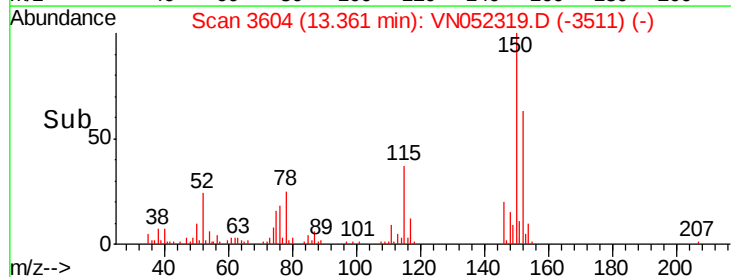
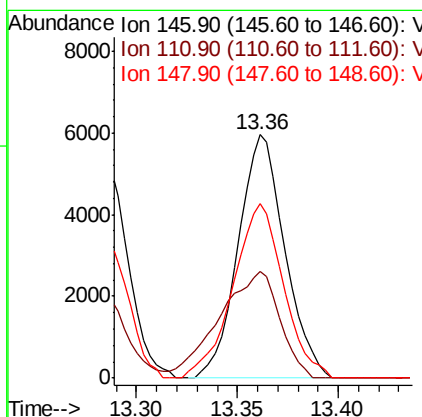
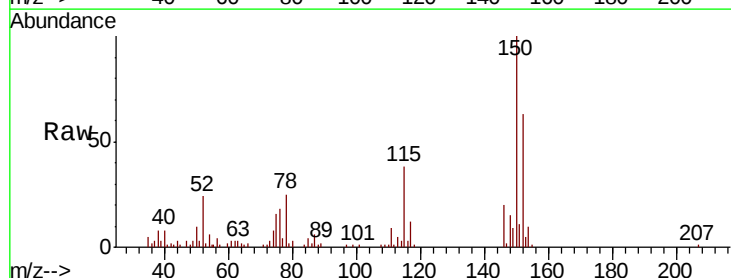
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

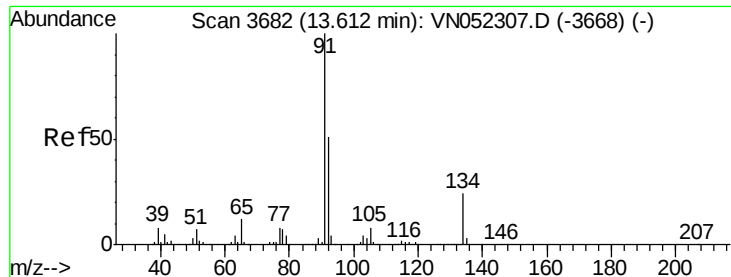
Tot Ion:146 Resp: 9824
 Ion Ratio Lower Upper
 146 100
 111 43.0 20.3 61.0
 148 65.3 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 2.105 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion:146 Resp: 9631
 Ion Ratio Lower Upper
 146 100
 111 56.4 20.6 61.8
 148 77.7 32.4 97.2





#89

n-Butylbenzene

Concen: 1.745 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

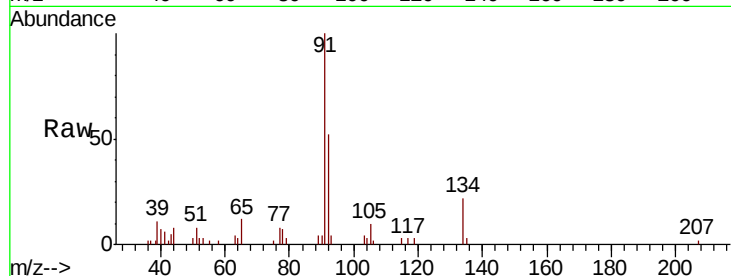
Tot Ion: 91 Resp: 13518

Ion Ratio Lower Upper

91 100

92 53.8 25.4 76.2

134 24.6 12.2 36.4

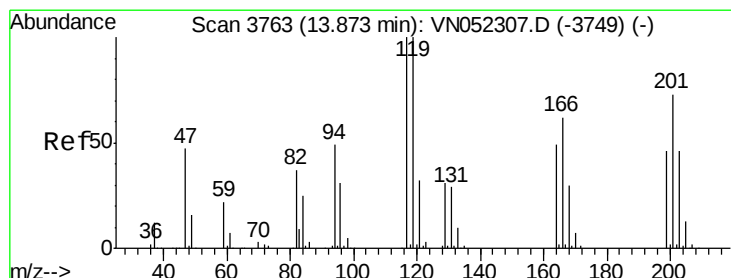
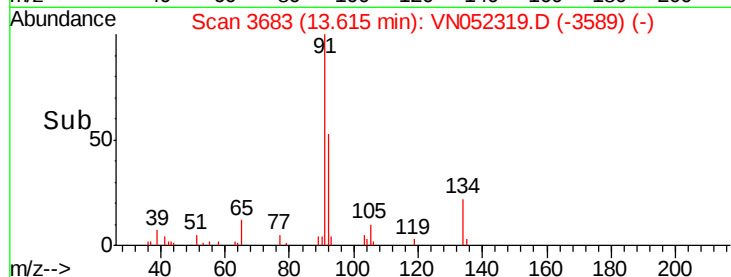


Abundance Ion 91.00 (90.70 to 91.70): VN052307.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN052307.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN052307.D (-3668) (-)

Time-->



#90

Hexachloroethane

Concen: 1.780 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN052319.D

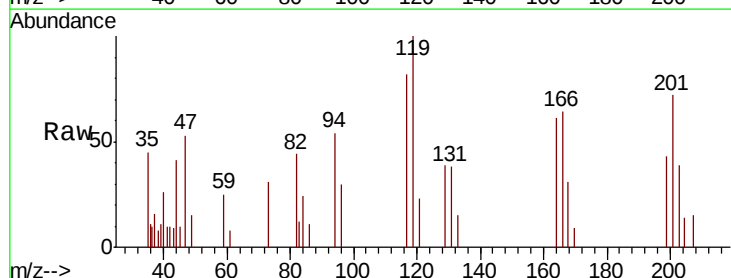
Acq: 14 Nov 2018 18:02

Tgt Ion: 117 Resp: 2845

Ion Ratio Lower Upper

117 100

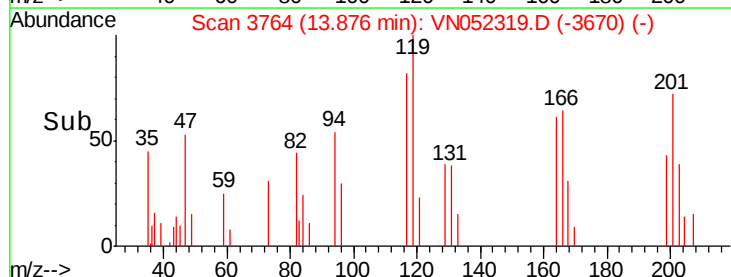
201 80.9 35.3 105.9

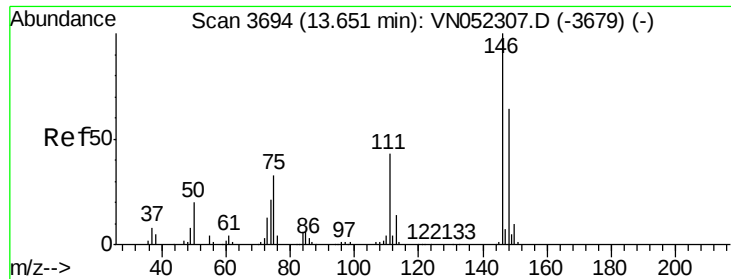


Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN052307.D (-3749) (-)

Time-->

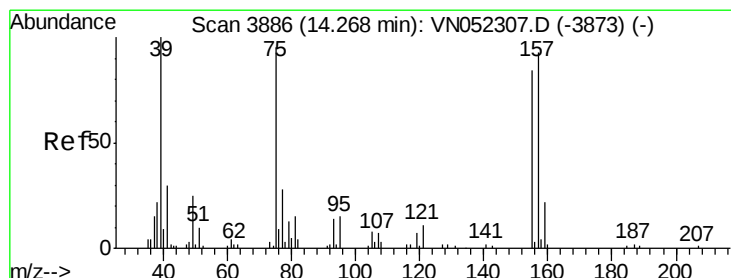
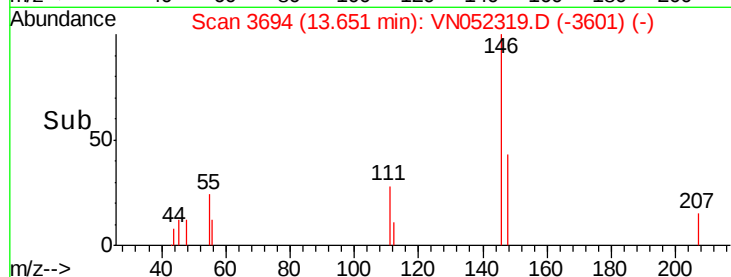
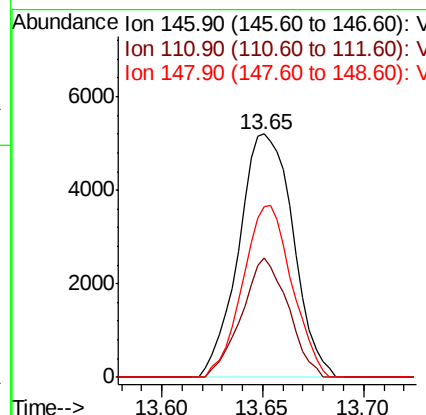
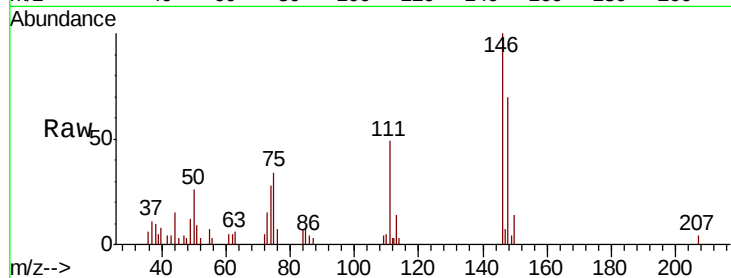




#91
 1,2-Dichlorobenzene
 Concen: 2.197 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

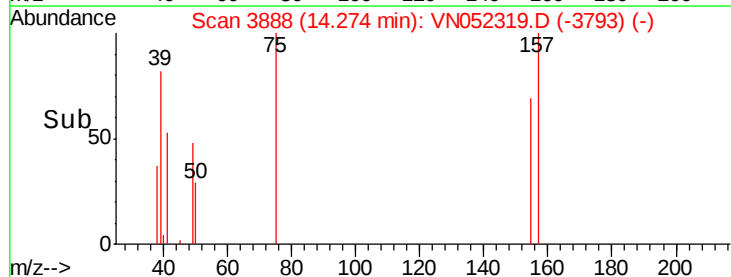
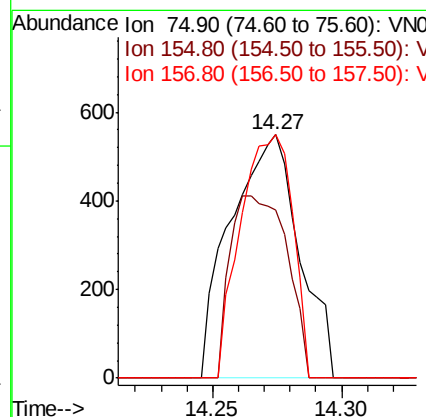
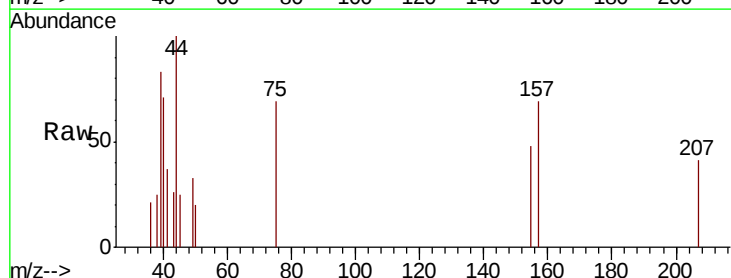
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

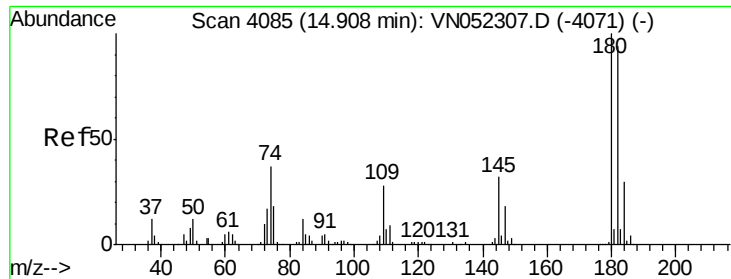
Tot Ion:146 Resp: 9793
 Ion Ratio Lower Upper
 146 100
 111 41.9 21.3 63.9
 148 63.7 31.6 94.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.567 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.01 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion: 75 Resp: 1019
 Ion Ratio Lower Upper
 75 100
 155 61.9 42.4 127.3
 157 76.0 49.6 149.0

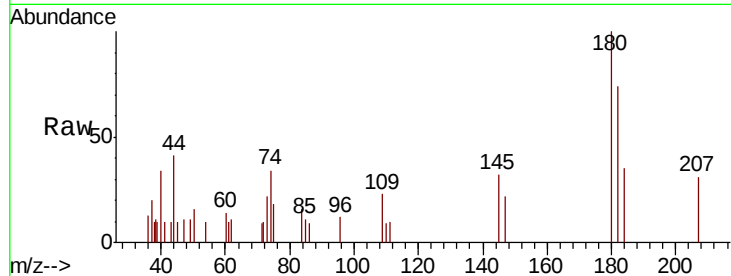




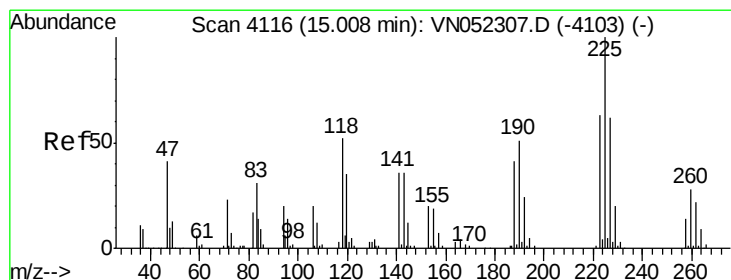
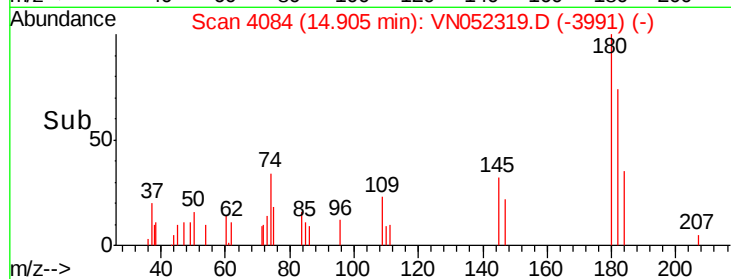
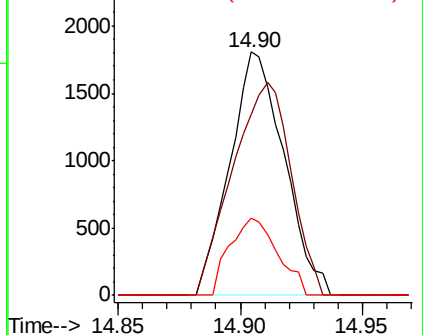
#93
 1,2,4-Trichlorobenzene
 Concen: 3.538 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion:180 Resp: 2782
 Ion Ratio Lower Upper
 180 100
 182 94.6 47.6 142.9
 145 28.1 15.5 46.5

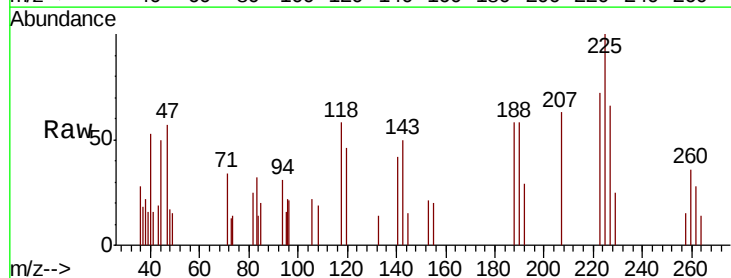


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

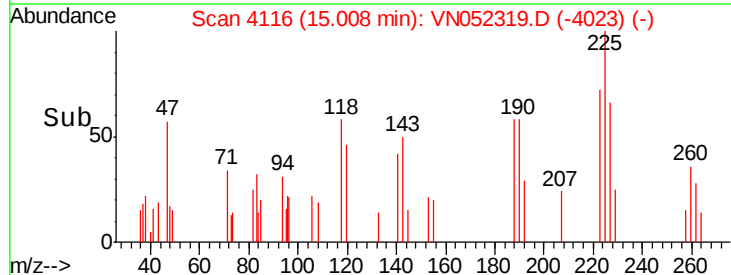
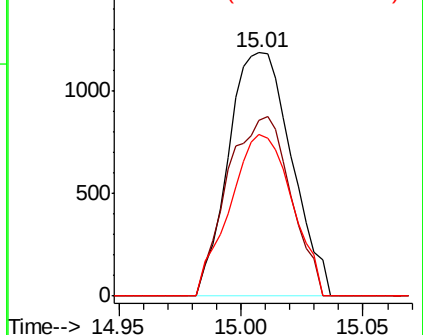


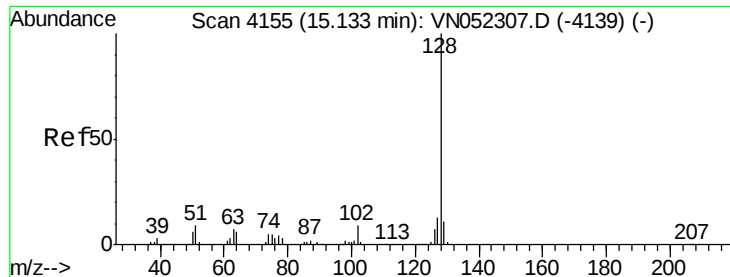
#94
 Hexachlorobutadiene
 Concen: 2.087 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion:225 Resp: 2130
 Ion Ratio Lower Upper
 225 100
 223 74.2 31.9 95.5
 227 65.6 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

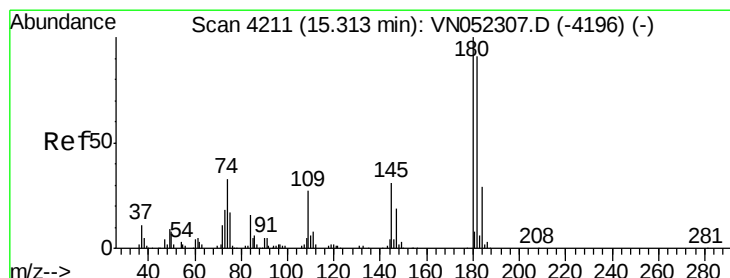
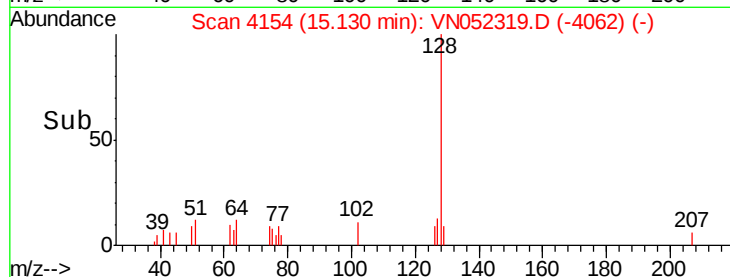
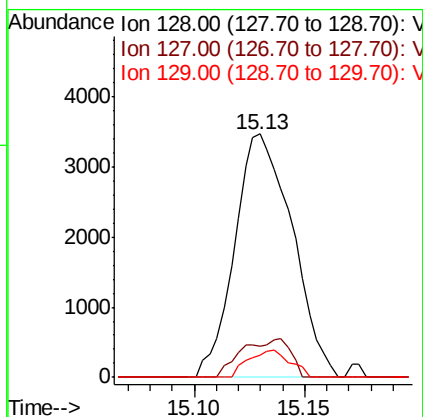
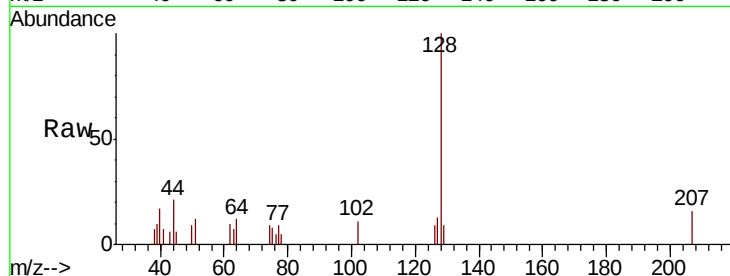




#95
Naphthalene
Concen: 3.817 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion:128 Resp: 6270
Ion Ratio Lower Upper
128 100
127 13.4 10.4 15.6
129 8.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.481 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:180 Resp: 2509
Ion Ratio Lower Upper
180 100
182 112.7 46.5 139.3
145 28.7 16.4 49.2

