

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041519\
 Data File : VN055050.D
 Acq On : 15 Apr 2019 18:41
 Operator : JC/SP
 Sample : K2241-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Quant Time: Apr 16 05:52:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	374842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	625180	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	540225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	172415	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	257334	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
35) Dibromofluoromethane	7.59	113	203105	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
50) Toluene-d8	10.09	98	745873	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
62) 4-Bromofluorobenzene	12.40	95	225510	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	8904	2.090	ug/l	99
3) Chloromethane	2.06	50	12946	2.330	ug/l	96
4) Vinyl Chloride	2.19	62	10378	2.222	ug/l	100
5) Bromomethane	2.54	94	7010	2.653	ug/l	89
6) Chloroethane	2.69	64	5731	2.276	ug/l	100
7) Trichlorofluoromethane	3.01	101	12589	2.155	ug/l	98
8) Diethyl Ether	3.41	74	4637	2.487	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.75	101	7452	2.438	ug/l	95
10) Methyl Iodide	3.94	142	43064	9.079	ug/l	99
11) Tert butyl alcohol	4.83	59	13142	48.119	ug/l #	82
12) 1,1-Dichloroethene	3.73	96	6347	2.133	ug/l	84
13) Acrolein	3.60	56	18973	56.203	ug/l	100
14) Allyl chloride	4.31	41	14285	1.962	ug/l #	75
15) Acrylonitrile	4.99	53	16084	9.843	ug/l #	84
16) Acetone	3.81	43	15102	11.167	ug/l	96
17) Carbon Disulfide	4.03	76	19316	2.011	ug/l #	95
18) Methyl Acetate	4.33	43	11241	2.468	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	11151	1.048	ug/l	92
20) Methylene Chloride	4.55	84	11881	2.499	ug/l	94
21) trans-1,2-Dichloroethene	5.03	96	9092	2.260	ug/l	97
22) Diisopropyl ether	5.95	45	32402	2.164	ug/l #	91
23) Vinyl Acetate	5.90	43	96446	9.747	ug/l	99
24) 1,1-Dichloroethane	5.85	63	17426	2.186	ug/l	98
25) 2-Butanone	6.85	43	19521	9.672	ug/l	100
26) 2,2-Dichloropropane	6.82	77	10612	2.109	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	10385	2.281	ug/l	93
28) Bromochloromethane	7.19	49	8923	2.322	ug/l	96
29) Tetrahydrofuran	7.22	42	14684	11.094	ug/l	98
30) Chloroform	7.37	83	17107	2.209	ug/l	99
31) Cyclohexane	7.66	56	23826	2.185	ug/l #	52
32) 1,1,1-Trichloroethane	7.57	97	12968	2.114	ug/l	98
36) 1,1-Dichloropropene	7.79	75	11914	2.022	ug/l	99
37) Ethyl Acetate	6.94	43	7483	1.560	ug/l #	86
38) Carbon Tetrachloride	7.77	117	11496	2.050	ug/l	94

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

39) Methylcyclohexane	9.08	83	12860	2.014	ug/l	98
40) Benzene	8.04	78	37361	2.103	ug/l	97
41) Methacrylonitrile	7.18	41	4537	1.703	ug/l #	80
42) 1,2-Dichloroethane	8.13	62	13426	2.177	ug/l	99
43) Isopropyl Acetate	8.17	43	14586	1.973	ug/l #	94
44) Trichloroethene	8.83	130	8950	2.012	ug/l	92
45) 1,2-Dichloropropane	9.12	63	10772	2.175	ug/l	97
46) Dibromomethane	9.21	93	5847	2.074	ug/l	97
47) Bromodichloromethane	9.40	83	11430	1.966	ug/l	97
48) Methyl methacrylate	9.20	41	7224	1.971	ug/l #	89
49) 1,4-Dioxane	9.20	88	813	23.681	ug/l #	62
51) 4-Methyl-2-Pentanone	9.99	43	41901	9.810	ug/l	98
52) Toluene	10.16	92	22268	2.189	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	9402	1.851	ug/l	90
54) cis-1,3-Dichloropropene	9.84	75	11677	1.852	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	7996	2.040	ug/l	97
56) Ethyl methacrylate	10.43	69	9570	2.035	ug/l	96
57) 1,3-Dichloropropane	10.71	76	13511	2.025	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	15662	17.992	ug/l	96
59) 2-Hexanone	10.75	43	26106	9.731	ug/l	92
60) Dibromochloromethane	10.90	129	6813	1.780	ug/l	100
61) 1,2-Dibromoethane	11.01	107	7311	2.027	ug/l	99
64) Tetrachloroethene	10.63	164	9053	2.061	ug/l	95
65) Chlorobenzene	11.43	112	22556	2.074	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	8055	2.014	ug/l	88
67) Ethyl Benzene	11.51	91	38663	1.991	ug/l	99
68) m/p-Xylenes	11.62	106	29746	4.230	ug/l	93
69) o-Xylene	11.95	106	14539	2.135	ug/l	99
70) Styrene	11.96	104	20729	1.880	ug/l	95
71) Bromoform	12.13	173	3959	1.727	ug/l #	97
73) Isopropylbenzene	12.25	105	37046	2.421	ug/l	100
74) N-amyl acetate	12.07	43	9940	2.308	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	8980	2.194	ug/l	95
76) 1,2,3-Trichloropropane	12.55	75	11355	3.662	ug/l #	100
77) Bromobenzene	12.53	156	8876	2.327	ug/l	96
78) n-propylbenzene	12.59	91	37912	2.294	ug/l	98
79) 2-Chlorotoluene	12.67	91	25481	2.471	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	29317	2.374	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	111620	143.964	ug/l #	2
82) 4-Chlorotoluene	12.77	91	22239	2.312	ug/l	99
83) tert-Butylbenzene	12.99	119	25827	2.477	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	25117	2.147	ug/l	97
85) sec-Butylbenzene	13.17	105	30042	2.261	ug/l	95
86) p-Isopropyltoluene	13.29	119	24582	2.157	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	14107	2.433	ug/l	92
88) 1,4-Dichlorobenzene	13.28	146	14107	2.552	ug/l	91
89) n-Butylbenzene	13.62	91	17909	2.116	ug/l	98
90) Hexachloroethane	13.87	117	3959	2.135	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	11733	2.011	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.26	75	1045	2.073	ug/l	85

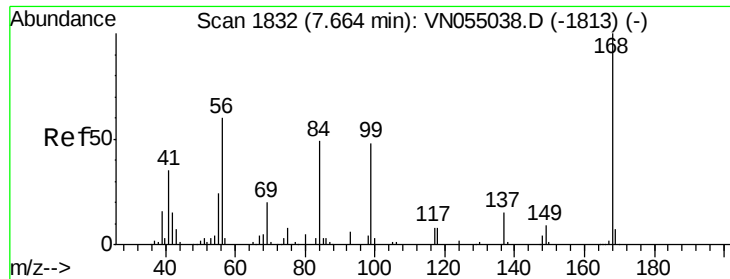
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	4207	4.183	ug/l	87
94) Hexachlorobutadiene	15.01	225	4432	2.460	ug/l	90
95) Naphthalene	15.13	128	8218	4.327	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	4169	1.853	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

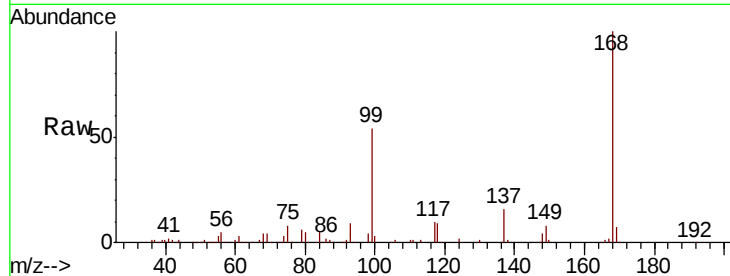
LOQ-WATER-02-QT2-2019

Tot Ion:168 Resp: 374842

Ion Ratio Lower Upper

168 100

99 53.6 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

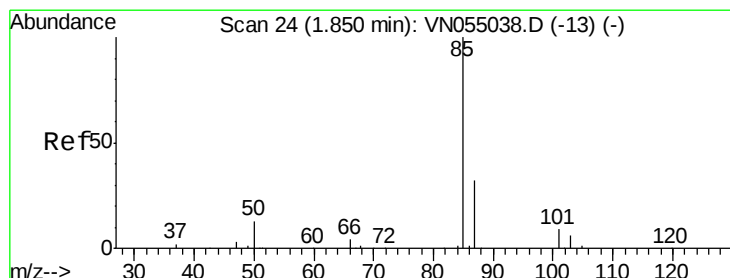
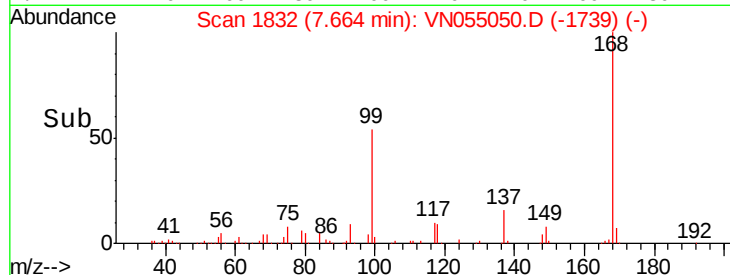
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.090 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055050.D

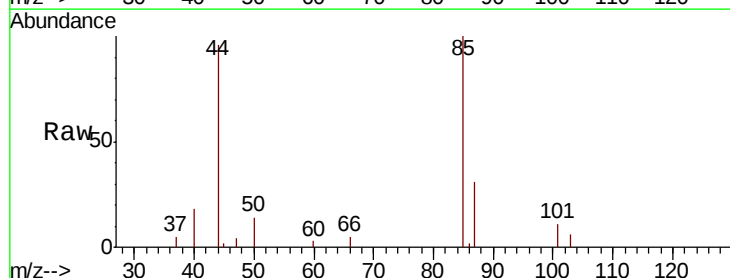
Acq: 15 Apr 2019 18:41

Tgt Ion: 85 Resp: 8904

Ion Ratio Lower Upper

85 100

87 31.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

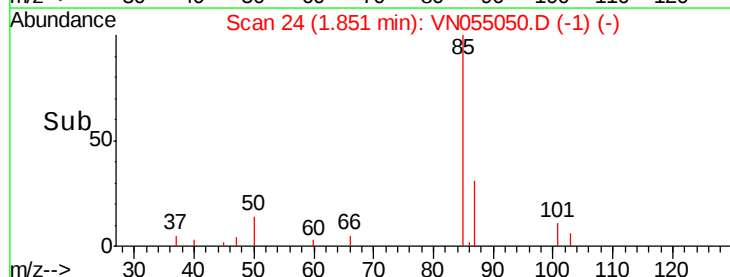
6000

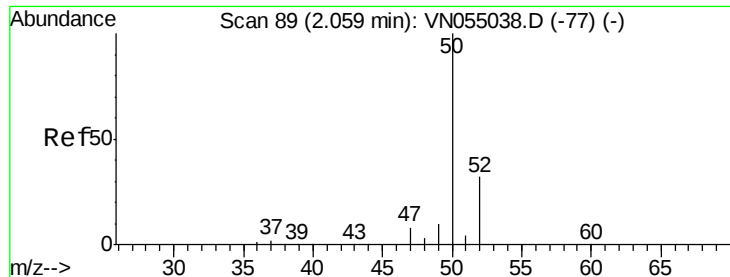
4000

2000

0

Time-->





#3

Chloromethane

Concen: 2.330 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

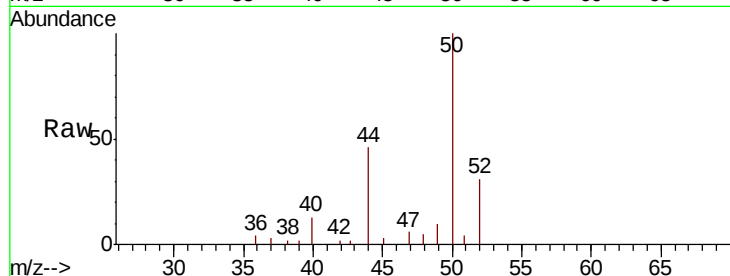
LOQ-WATER-02-QT2-2019

Tot Ion: 50 Resp: 12946

Ion Ratio Lower Upper

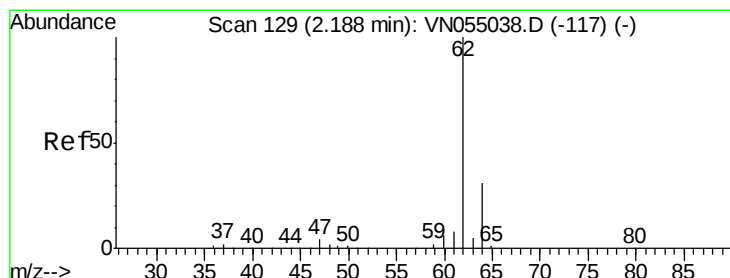
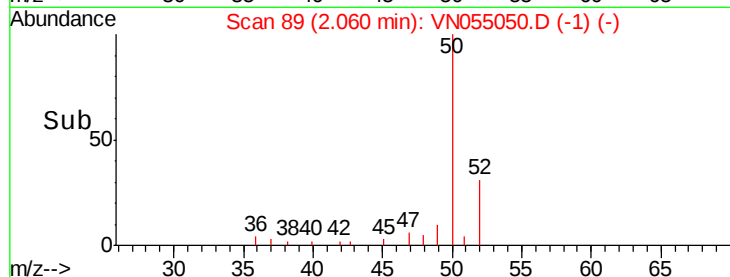
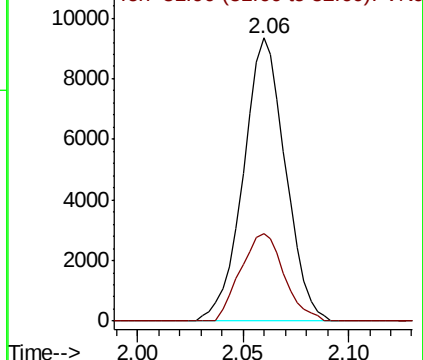
50 100

52 31.1 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 2.222 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055050.D

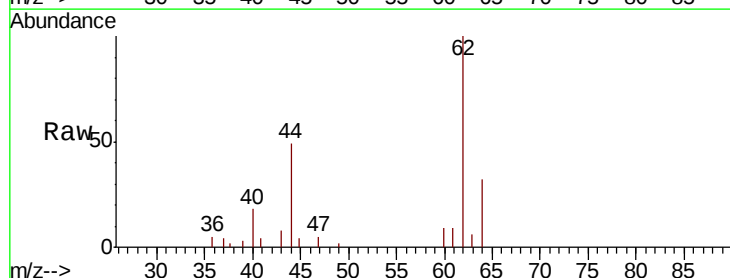
Acq: 15 Apr 2019 18:41

Tgt Ion: 62 Resp: 10378

Ion Ratio Lower Upper

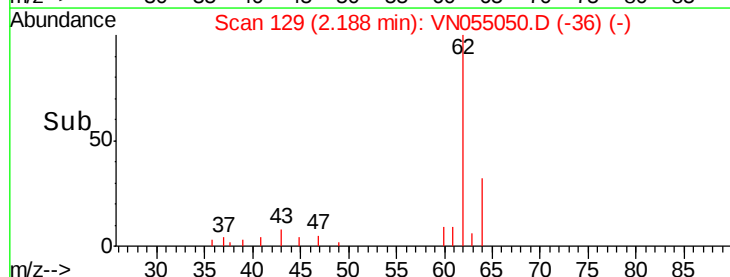
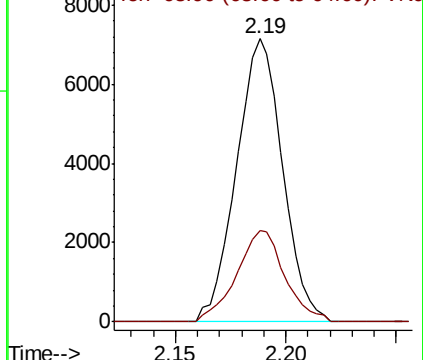
62 100

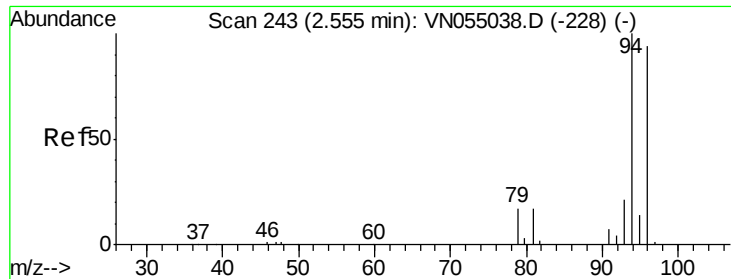
64 32.1 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 2.653 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

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ClientSampleId :

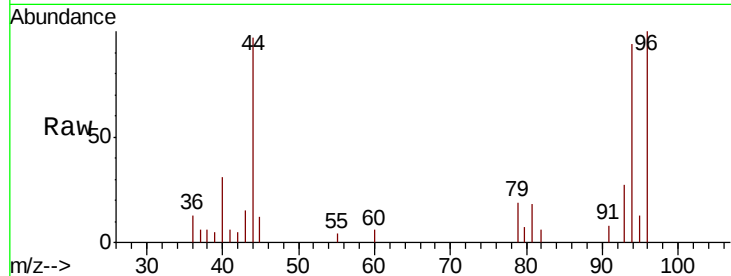
LOQ-WATER-02-QT2-2019

Tot Ion: 94 Resp: 7010

Ion Ratio Lower Upper

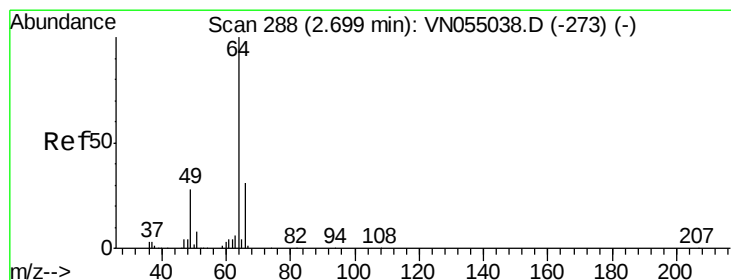
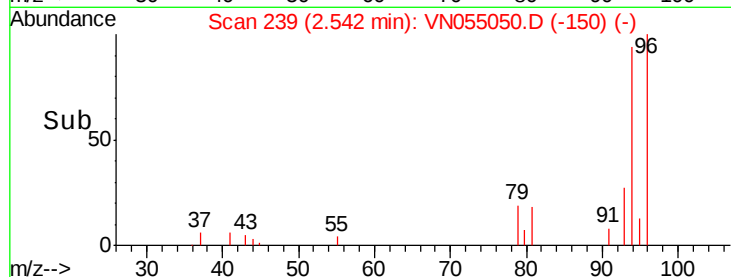
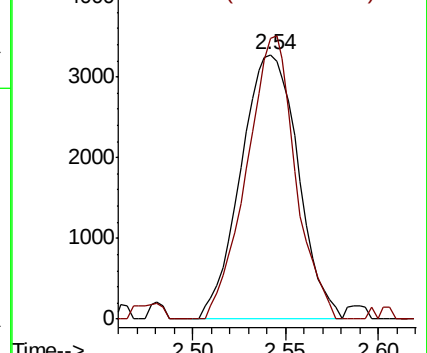
94 100

96 106.0 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 2.276 ug/l

RT: 2.69 min Scan# 286

Delta R.T. -0.01 min

Lab File: VN055050.D

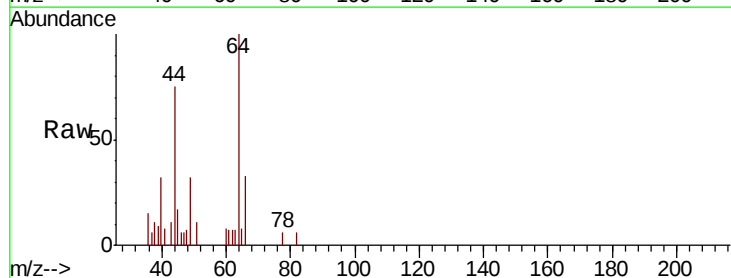
Acq: 15 Apr 2019 18:41

Tgt Ion: 64 Resp: 5731

Ion Ratio Lower Upper

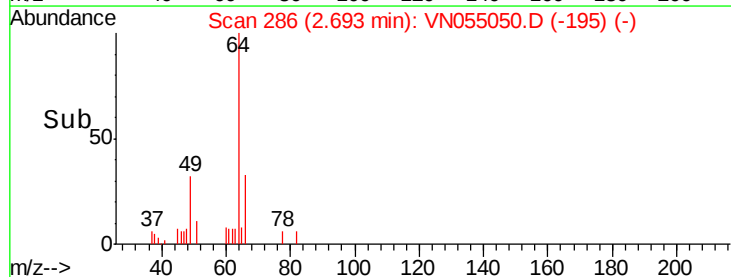
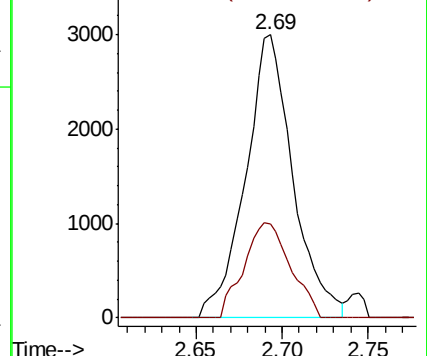
64 100

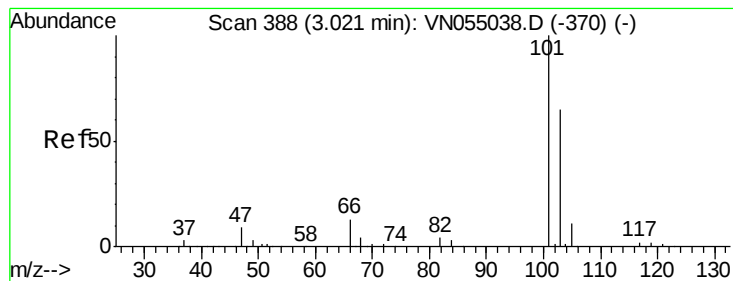
66 33.4 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



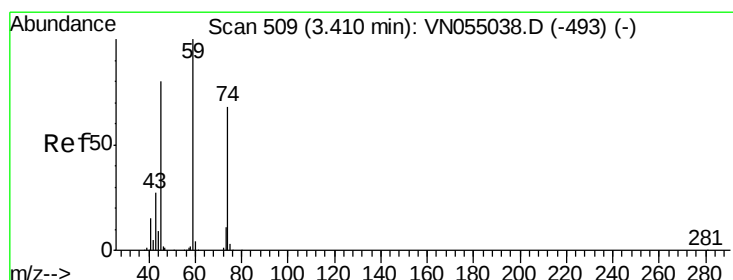
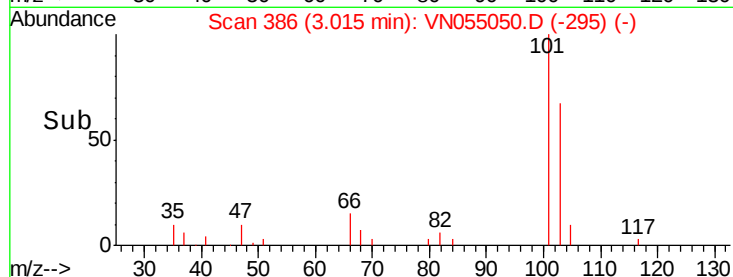
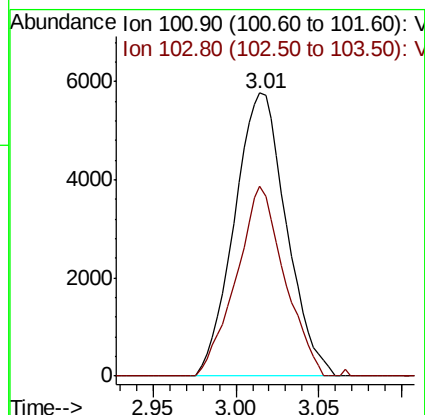
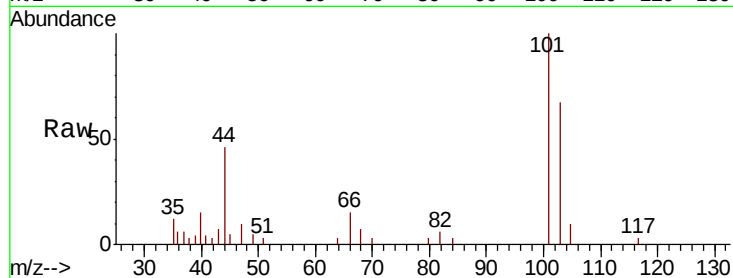


#7

Trichlorofluoromethane
 Concen: 2.155 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.01 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Instrument :
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 LOQ-WATER-02-QT2-2019

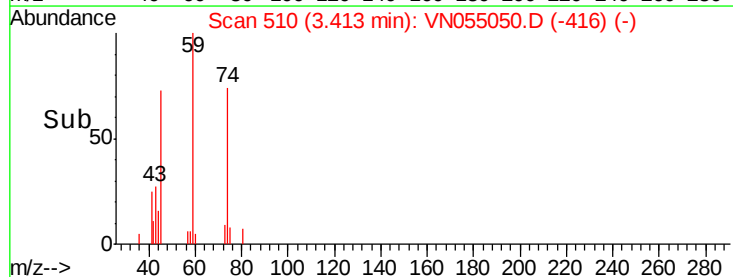
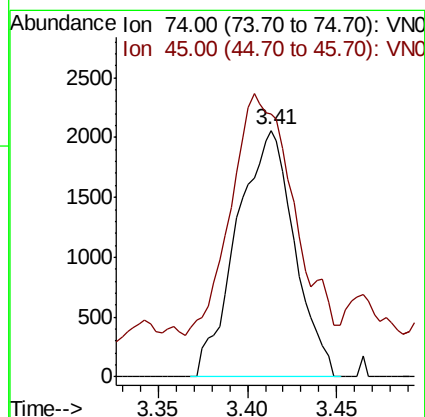
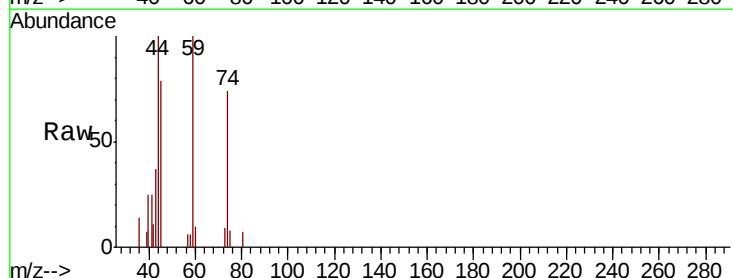
Tot Ion:101 Resp: 12589
 Ion Ratio Lower Upper
 101 100
 103 67.1 52.5 78.7

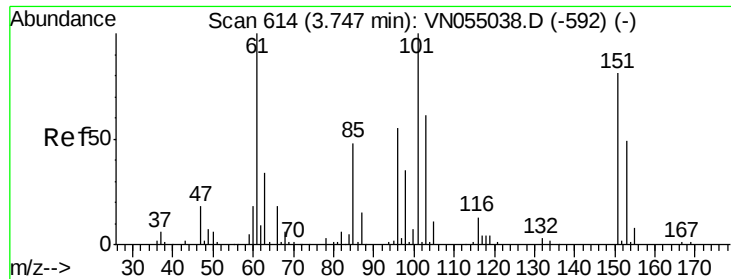


#8

Diethyl Ether
 Concen: 2.487 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion: 74 Resp: 4637
 Ion Ratio Lower Upper
 74 100
 45 121.2 55.7 167.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.438 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

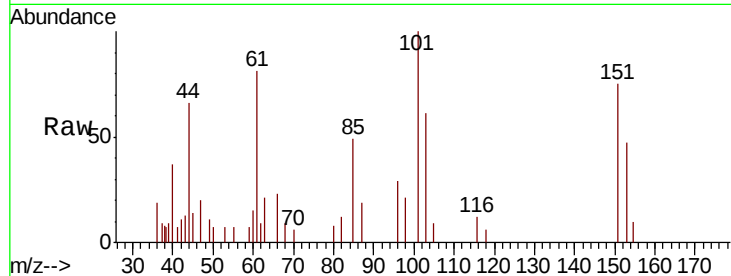
Tot Ion:101 Resp: 7452

Ion Ratio Lower Upper

101 100

85 45.0 36.9 55.3

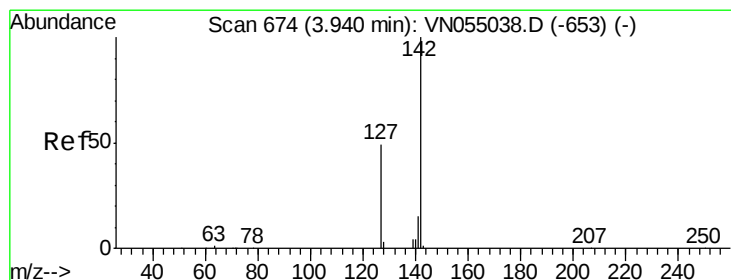
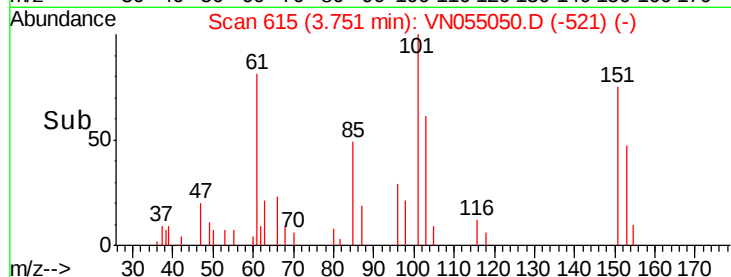
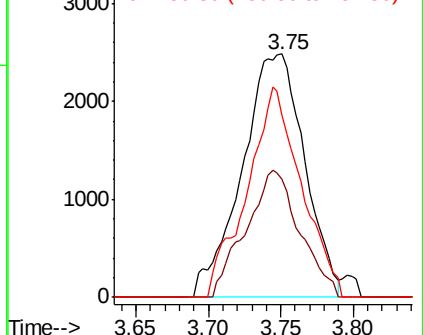
151 75.0 64.4 96.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 9.079 ug/l

RT: 3.94 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

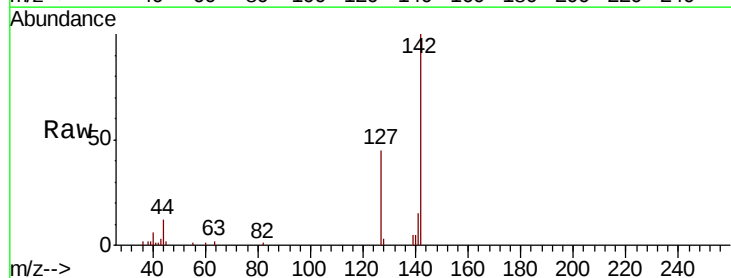
Tgt Ion:142 Resp: 43064

Ion Ratio Lower Upper

142 100

127 47.8 37.9 56.9

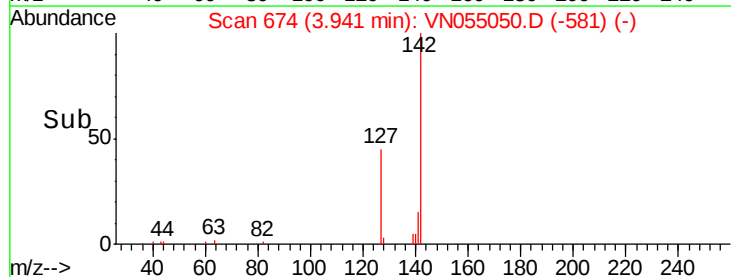
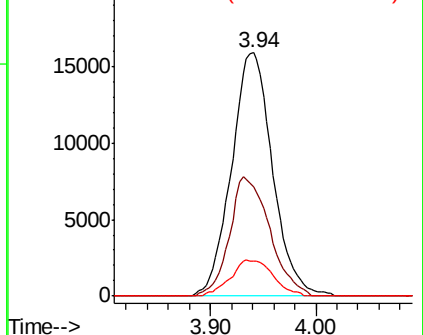
141 15.4 11.8 17.8

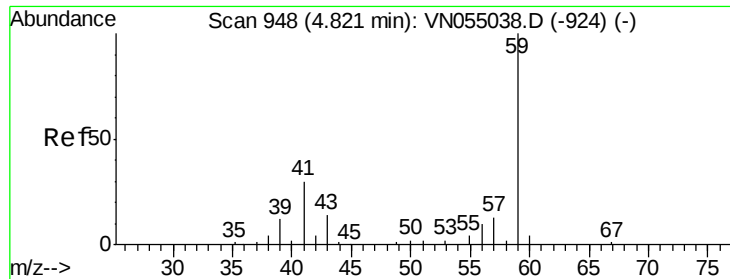


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

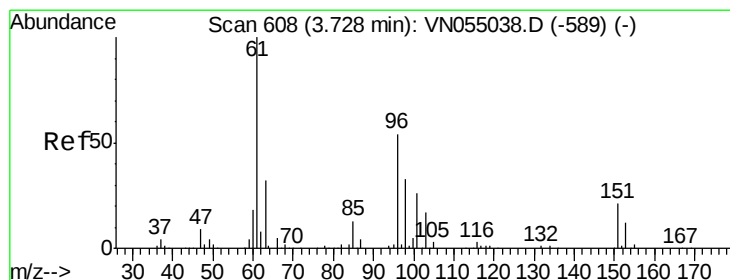
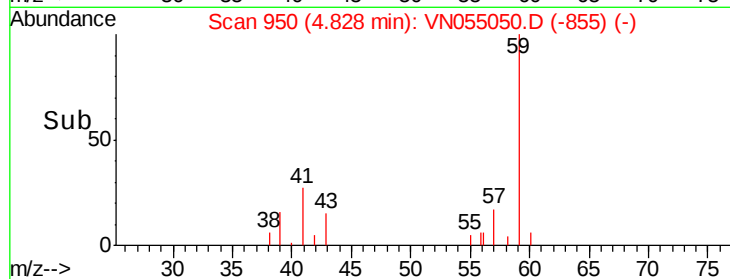
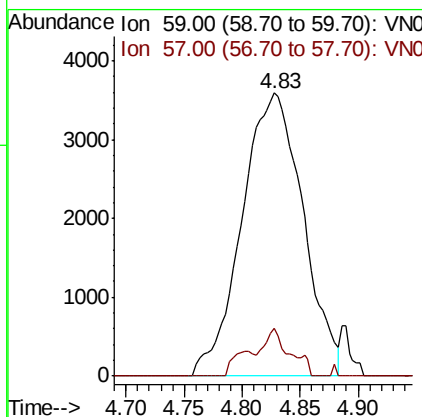
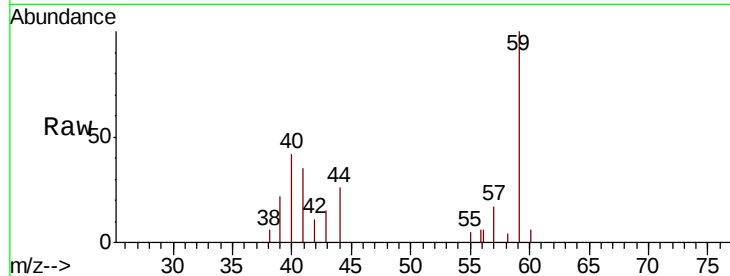




#11
Tert butyl alcohol
Concen: 48.119 ug/l
RT: 4.83 min Scan# 950
Delta R.T. 0.01 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

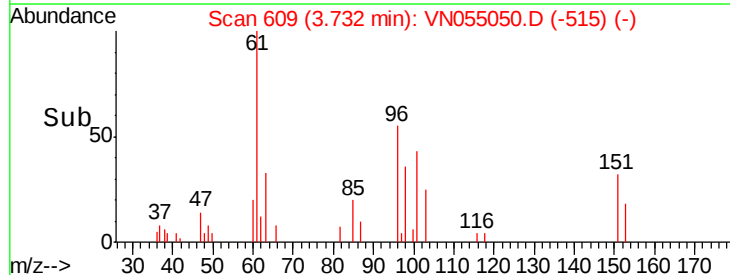
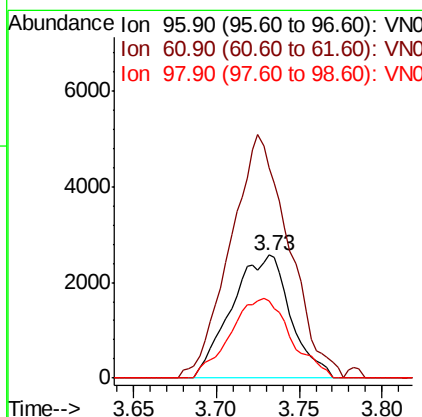
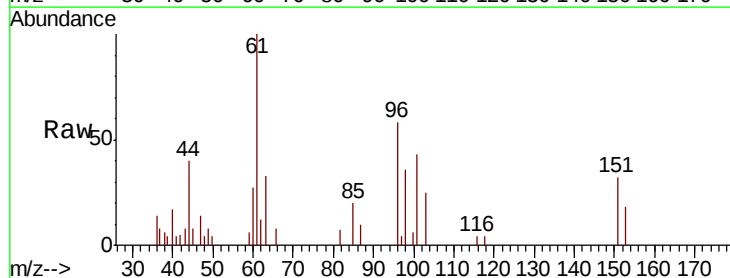
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

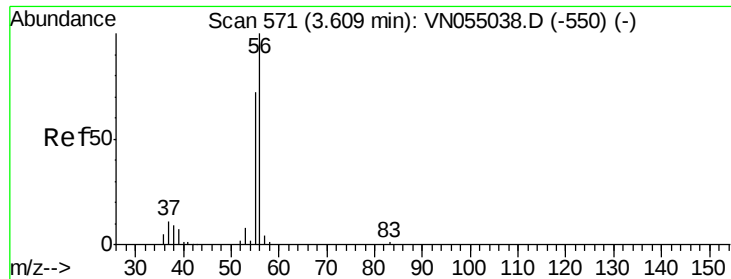
Tot Ion: 59 Resp: 13142
Ion Ratio Lower Upper
59 100
57 3.5 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 2.133 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 96 Resp: 6347
Ion Ratio Lower Upper
96 100
61 163.7 154.2 231.4
98 62.4 52.9 79.3





#13

Acrolein

Concen: 56.203 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

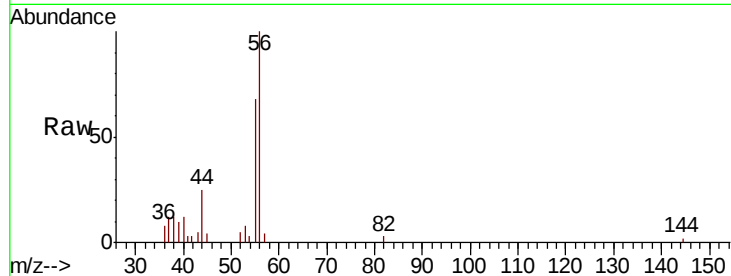
LOQ-WATER-02-QT2-2019

Tot Ion: 56 Resp: 18973

Ion Ratio Lower Upper

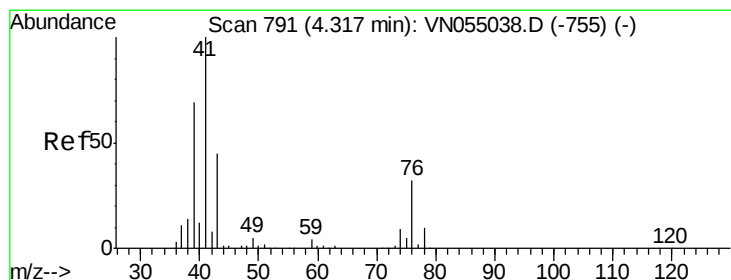
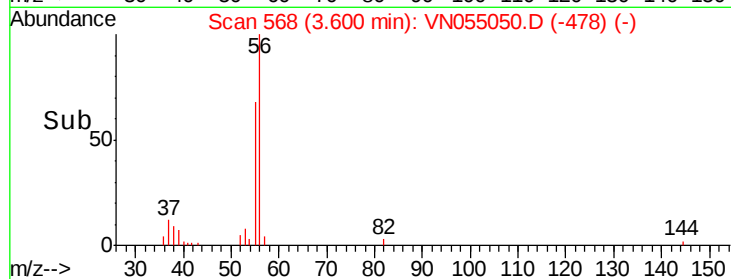
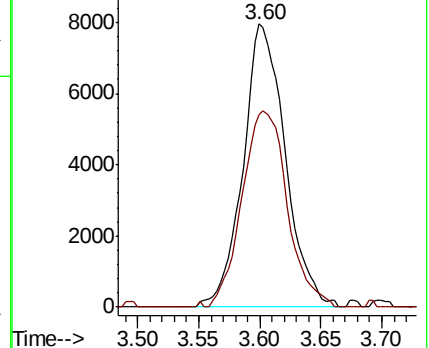
56 100

55 74.7 59.5 89.3



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 1.962 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.01 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

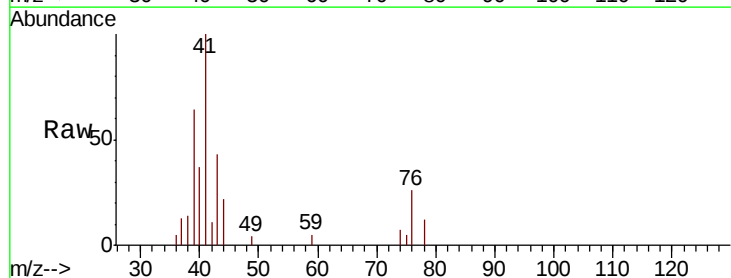
Tgt Ion: 41 Resp: 14285

Ion Ratio Lower Upper

41 100

39 38.0 52.7 79.1#

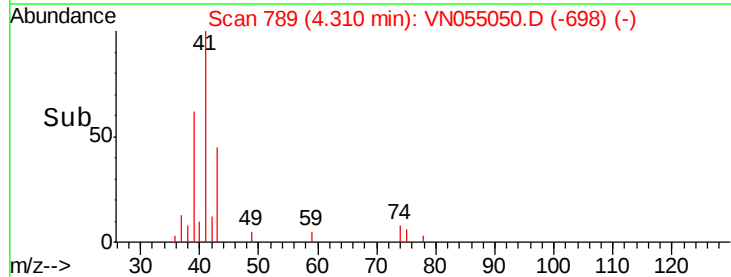
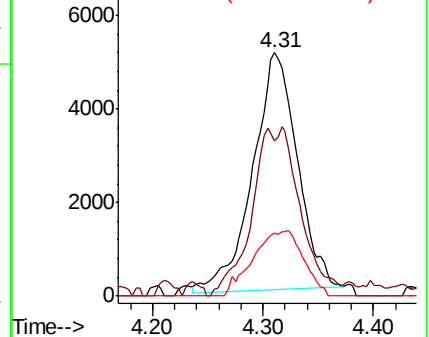
76 30.9 23.2 34.8

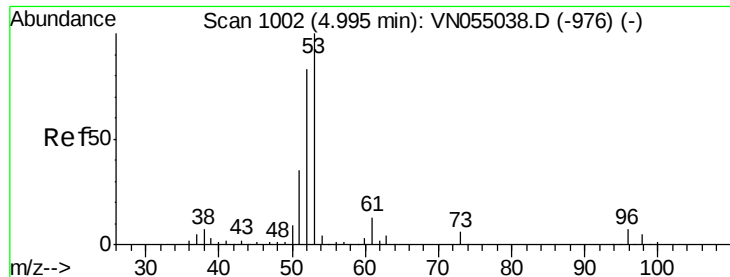


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 9.843 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

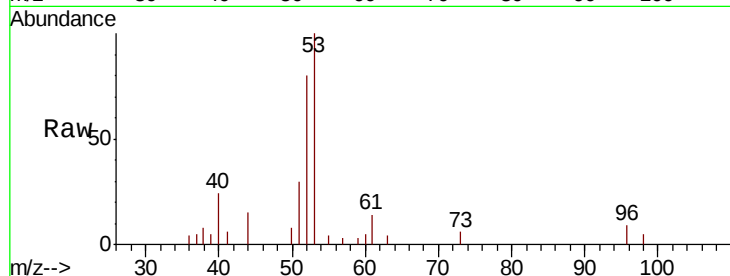
Tot Ion: 53 Resp: 16084

Ion Ratio Lower Upper

53 100

52 87.7 65.9 98.9

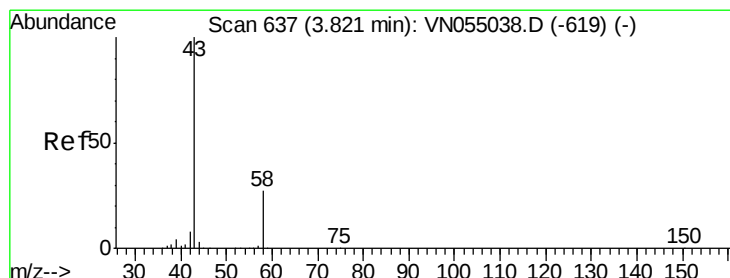
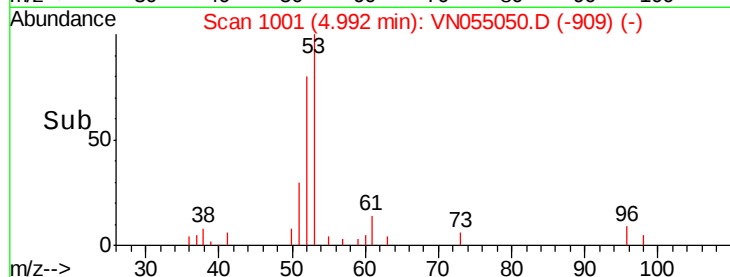
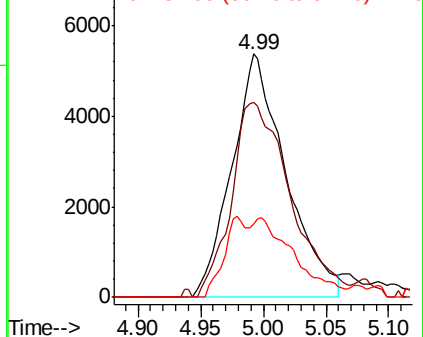
51 14.9 29.7 44.5#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 11.167 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN055050.D

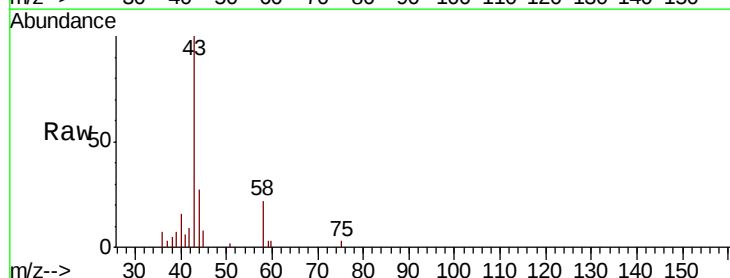
Acq: 15 Apr 2019 18:41

Tgt Ion: 43 Resp: 15102

Ion Ratio Lower Upper

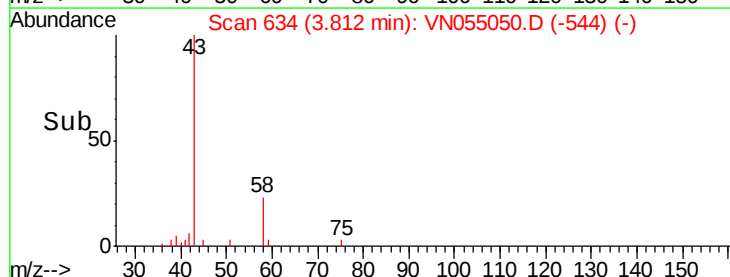
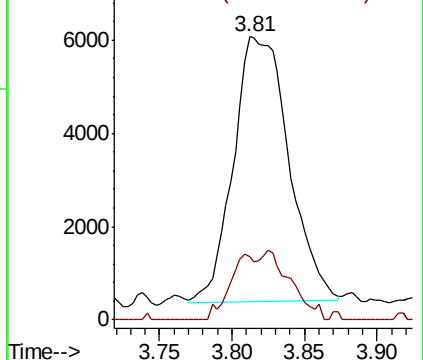
43 100

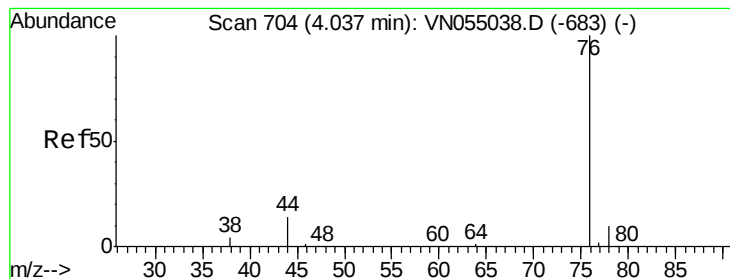
58 24.1 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 2.011 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

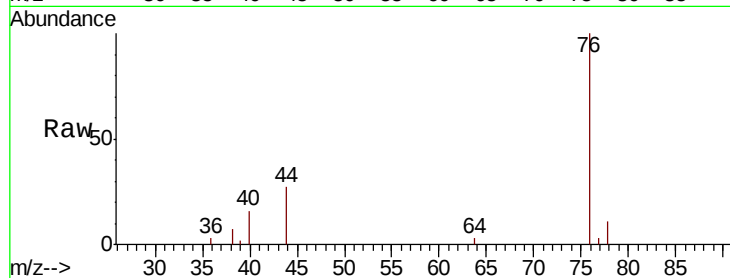
LOQ-WATER-02-QT2-2019

Tot Ion: 76 Resp: 19316

Ion Ratio Lower Upper

76 100

78 10.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

8000

6000

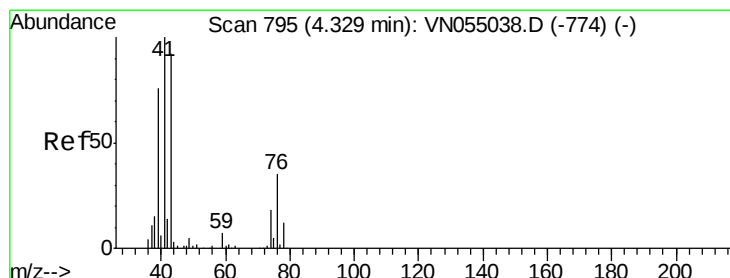
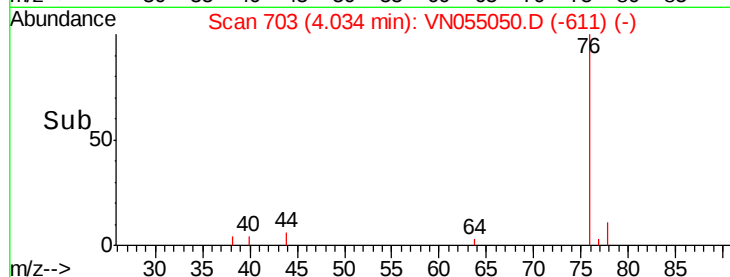
4000

2000

0

Time-->

3.95 4.00 4.05 4.10



#18

Methyl Acetate

Concen: 2.468 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN055050.D

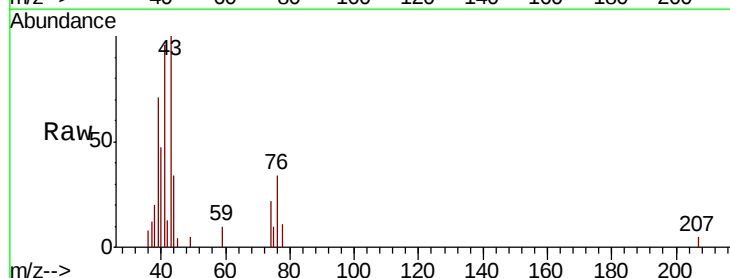
Acq: 15 Apr 2019 18:41

Tgt Ion: 43 Resp: 11241

Ion Ratio Lower Upper

43 100

74 19.0 16.1 24.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

4000

3000

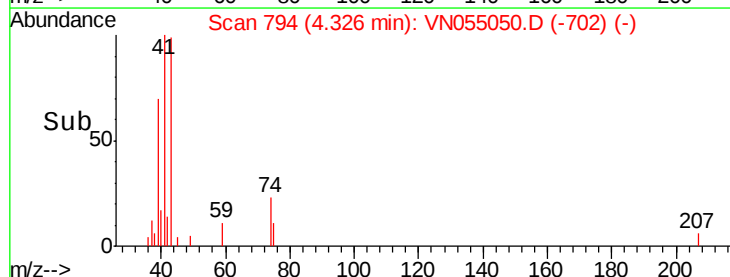
2000

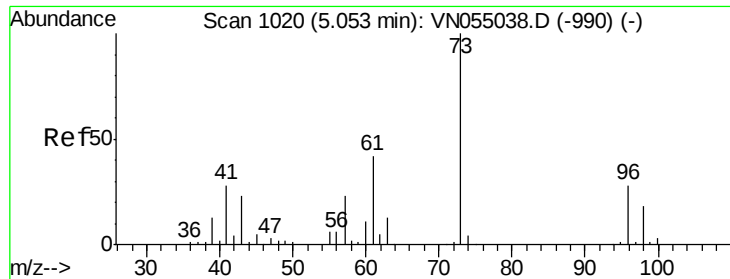
1000

0

Time-->

4.25 4.30 4.35 4.40

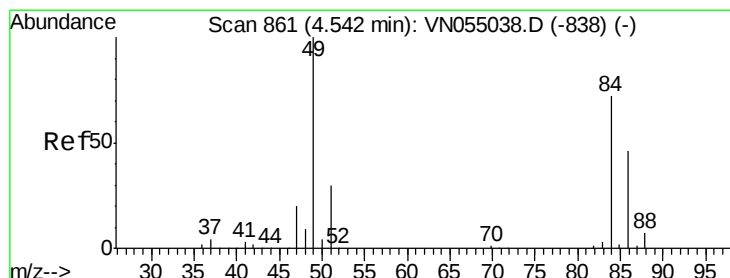
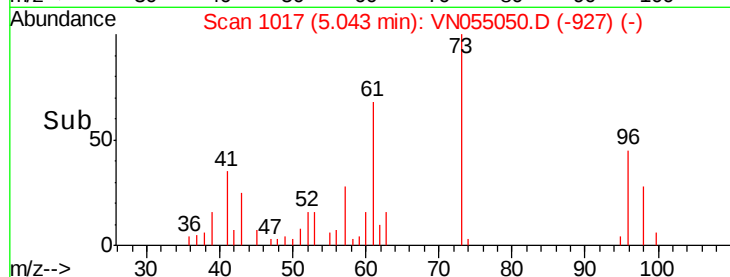
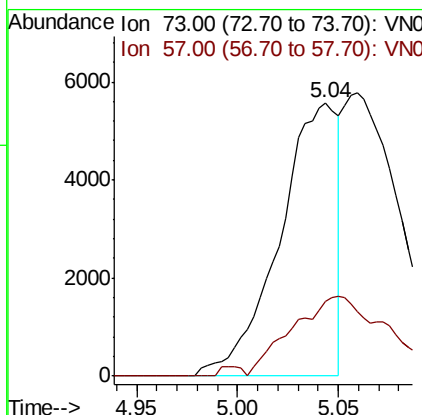
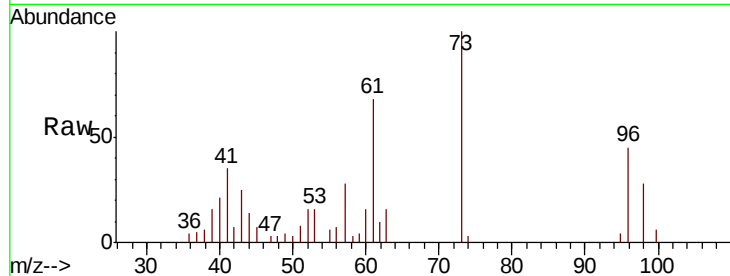




#19
Methyl tert-butyl Ether
Concen: 1.048 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

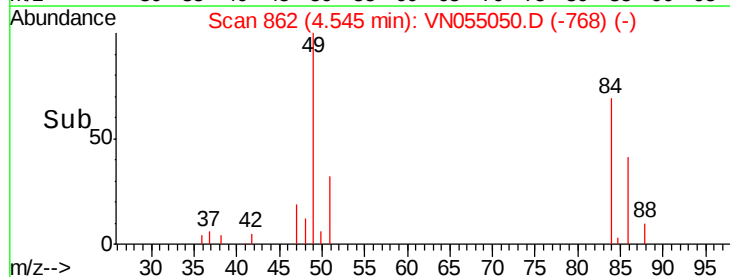
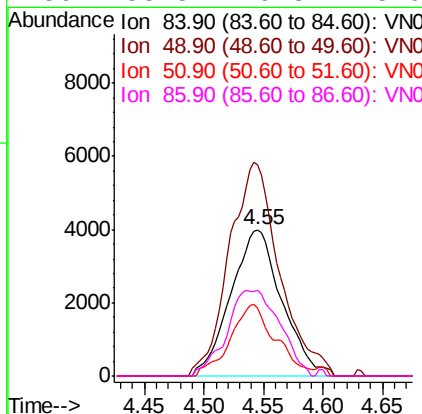
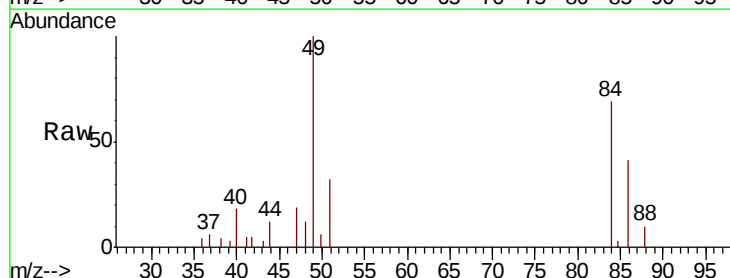
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

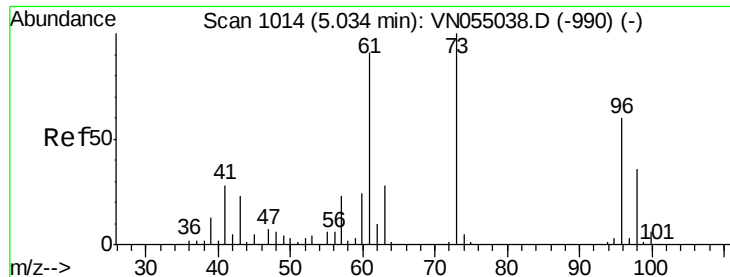
Tot Ion: 73 Resp: 11151
Ion Ratio Lower Upper
73 100
57 27.6 19.0 28.4



#20
Methylene Chloride
Concen: 2.499 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 84 Resp: 11881
Ion Ratio Lower Upper
84 100
49 144.6 109.4 164.2
51 46.2 32.2 48.4
86 58.8 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 2.260 ug/l

RT: 5.03 min Scan# 1012

Delta R.T. -0.01 min

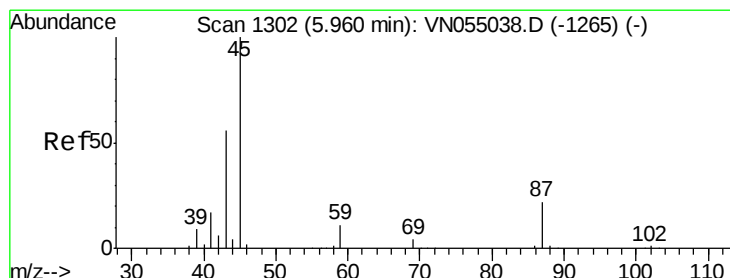
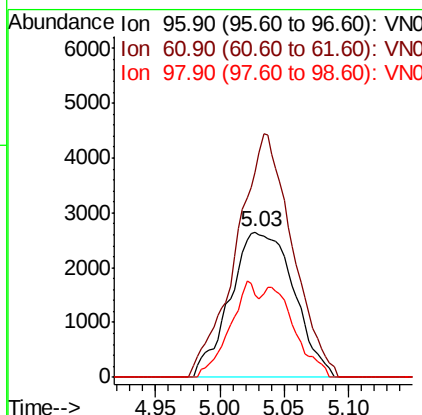
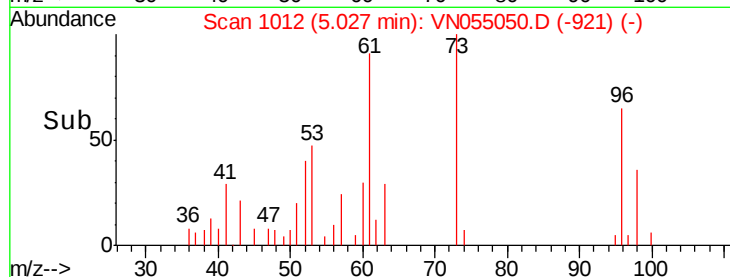
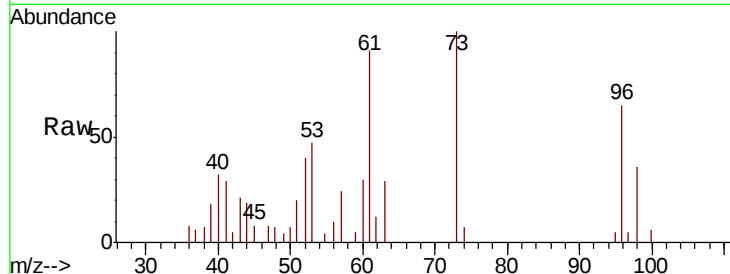
Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion: 96 Resp: 9092

Ion	Ratio	Lower	Upper
96	100		
61	141.1	114.9	172.3
98	56.3	48.4	72.6



#22

Diisopropyl ether

Concen: 2.164 ug/l

RT: 5.95 min Scan# 1300

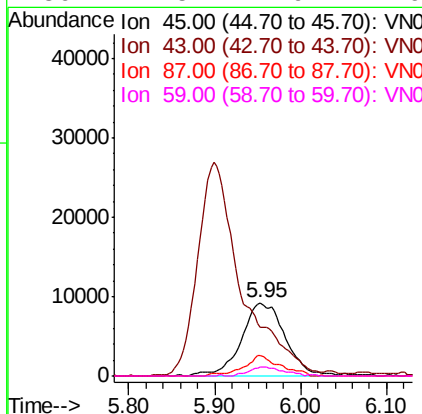
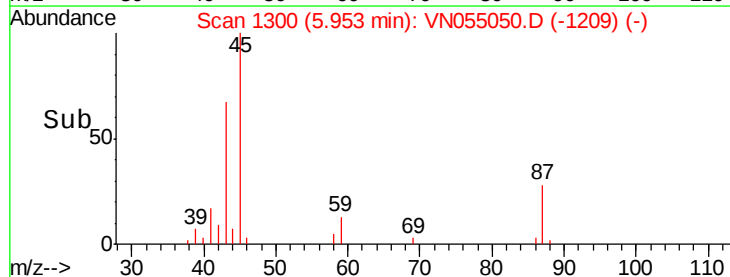
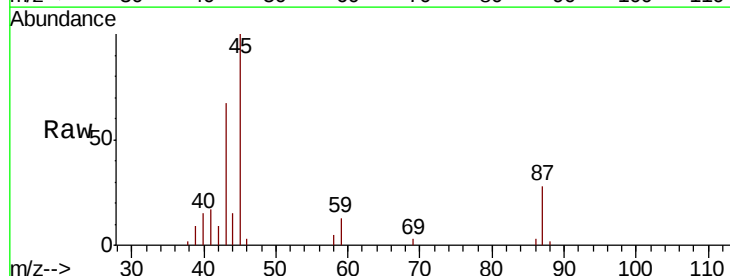
Delta R.T. -0.01 min

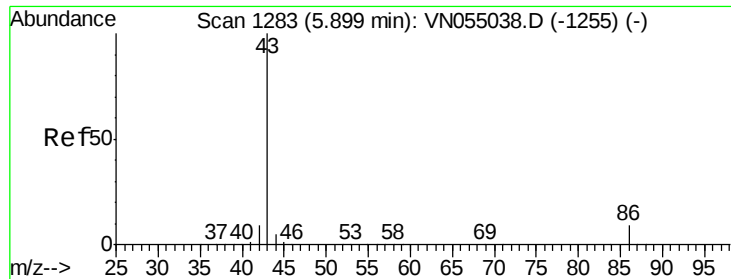
Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Tgt Ion: 45 Resp: 32402

Ion	Ratio	Lower	Upper
45	100		
43	63.1	44.8	67.2
87	28.1	18.9	28.3
59	12.5	7.9	11.9#





#23

Vinyl Acetate

Concen: 9.747 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

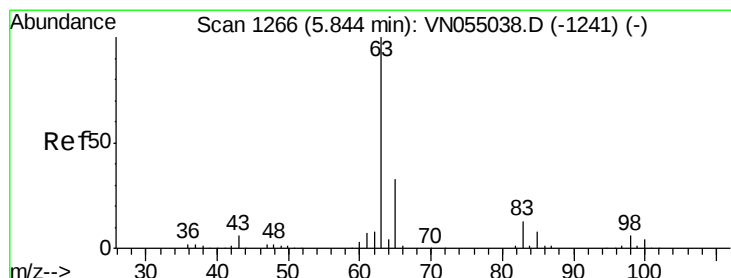
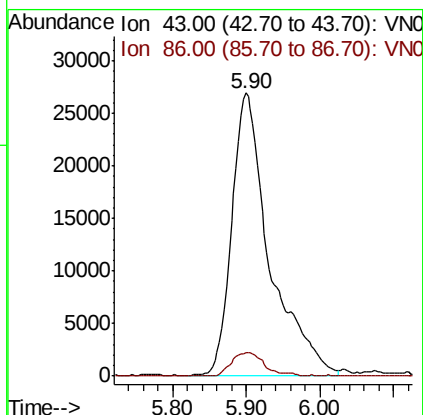
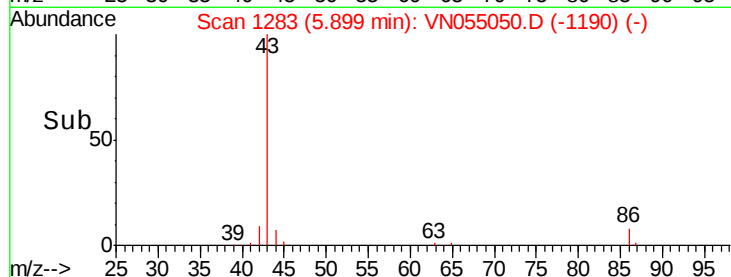
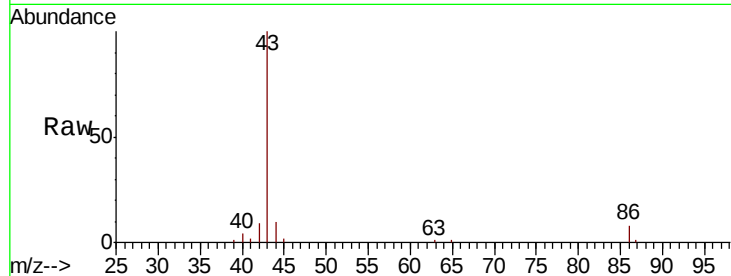
LOQ-WATER-02-QT2-2019

Tot Ion: 43 Resp: 96446

Ion Ratio Lower Upper

43 100

86 8.3 7.0 10.4



#24

1,1-Dichloroethane

Concen: 2.186 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

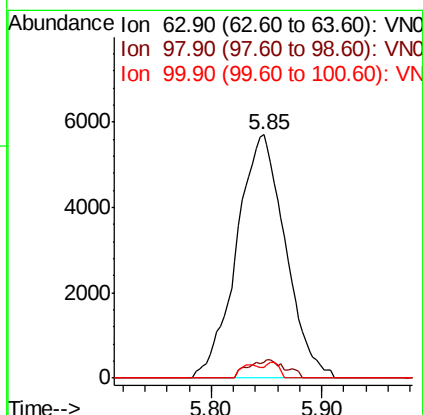
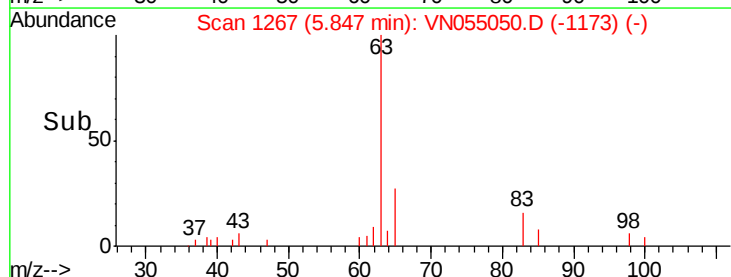
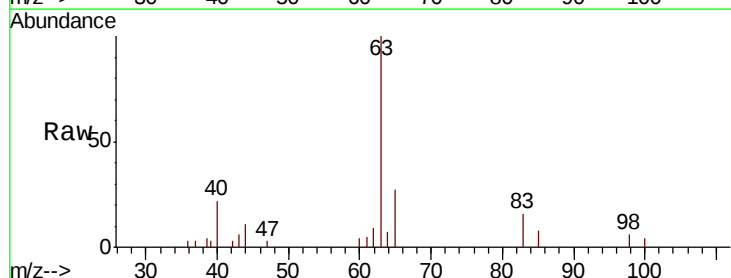
Tgt Ion: 63 Resp: 17426

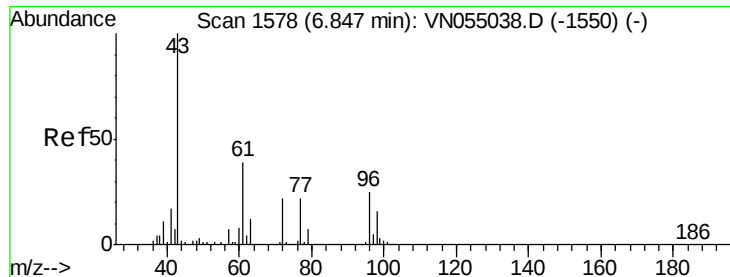
Ion Ratio Lower Upper

63 100

98 6.4 2.8 8.4

100 4.3 2.0 5.8

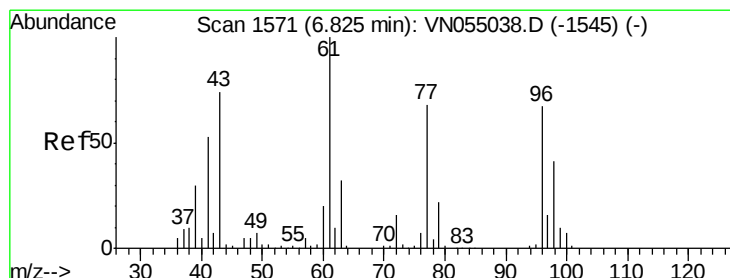
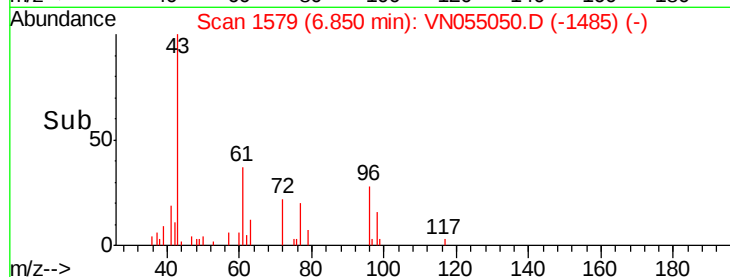
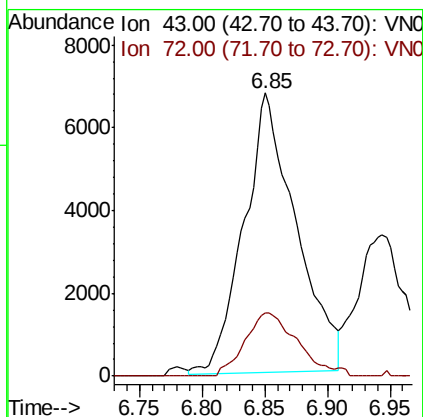
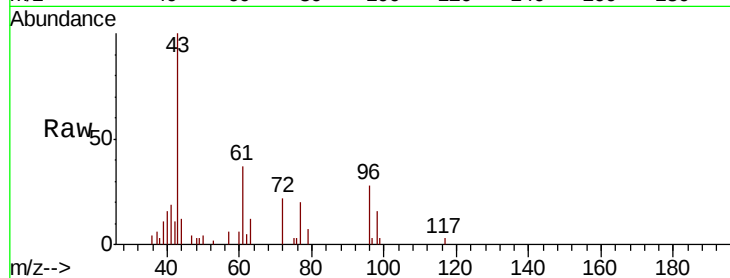




#25
2-Butanone
Concen: 9.672 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

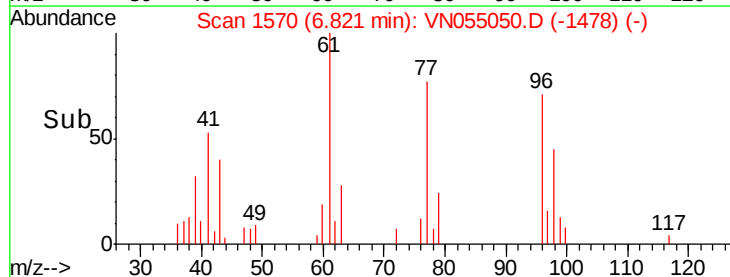
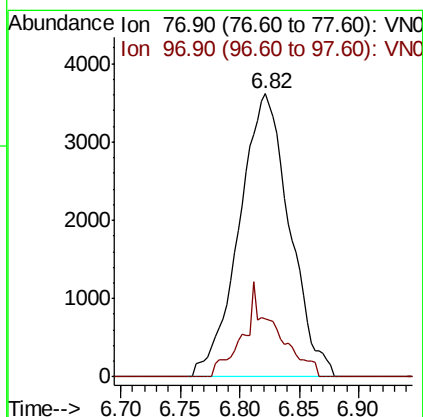
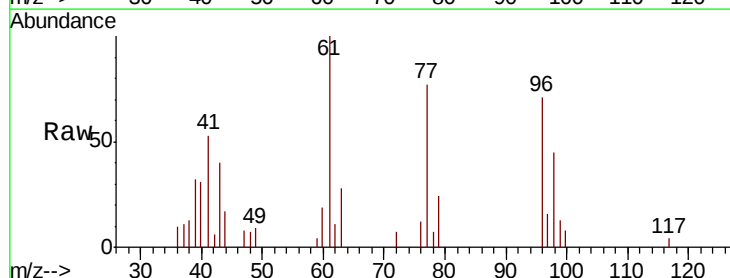
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

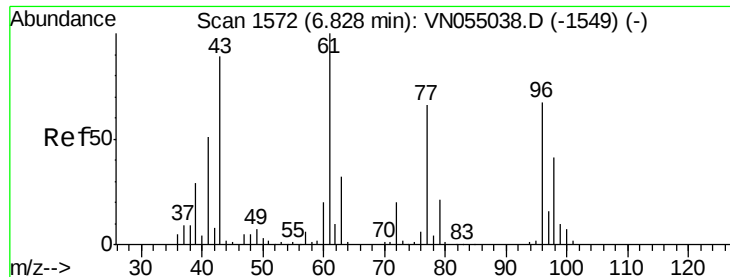
Tot Ion: 43 Resp: 19521
Ion Ratio Lower Upper
43 100
72 22.7 18.1 27.1



#26
2,2-Dichloropropane
Concen: 2.109 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 77 Resp: 10612
Ion Ratio Lower Upper
77 100
97 21.8 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 2.281 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

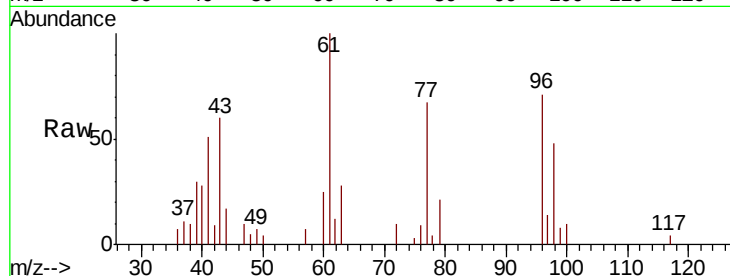
Tot Ion: 96 Resp: 10385

Ion Ratio Lower Upper

96 100

61 147.0 0.0 311.0

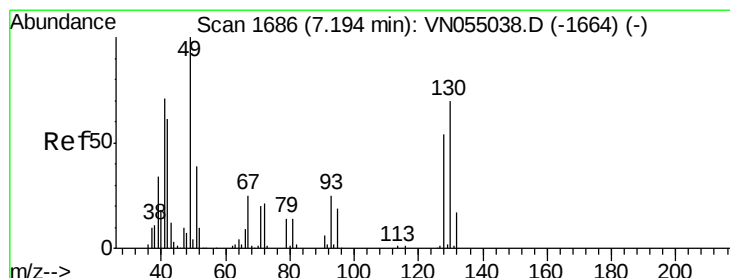
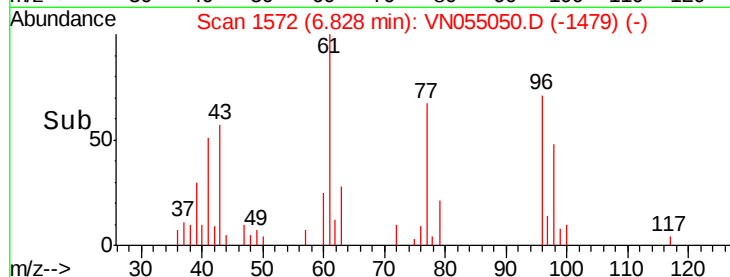
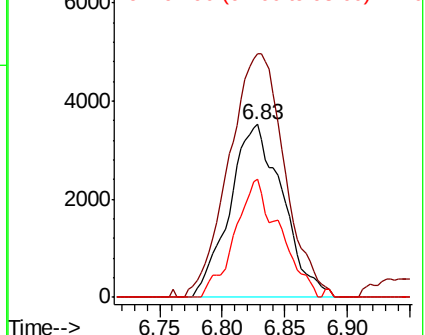
98 57.9 0.0 127.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 2.322 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

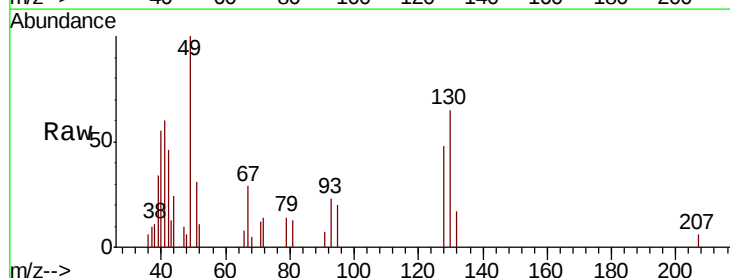
Tgt Ion: 49 Resp: 8923

Ion Ratio Lower Upper

49 100

129 0.7 0.0 2.0

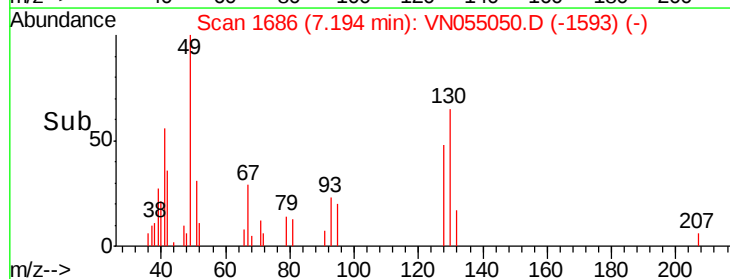
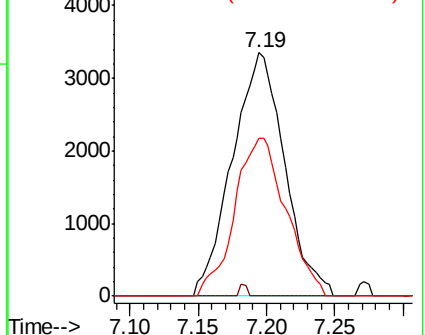
130 63.5 53.4 80.2

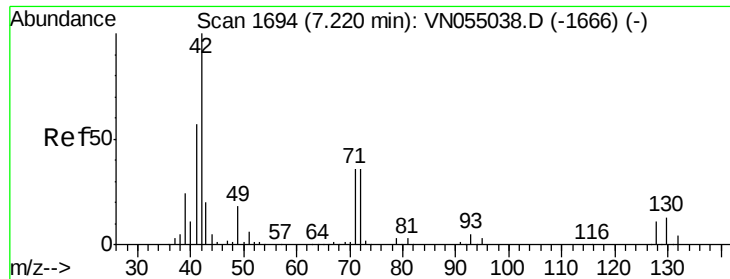


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

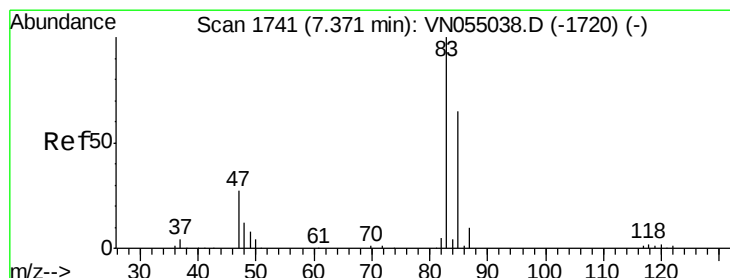
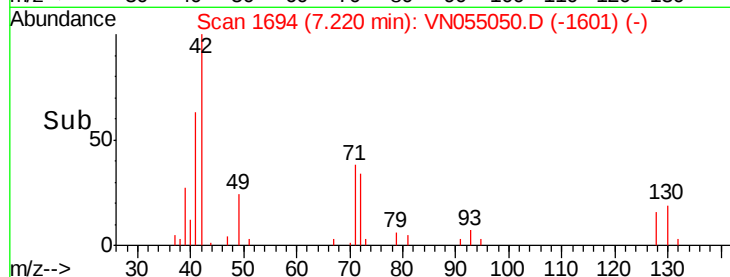
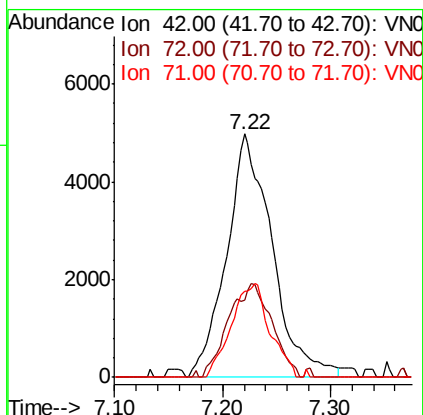
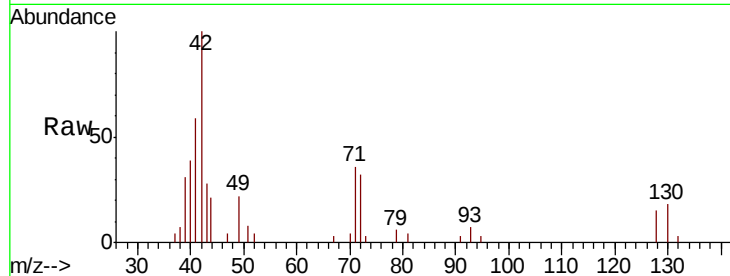




#29
Tetrahydrofuran
Concen: 11.094 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

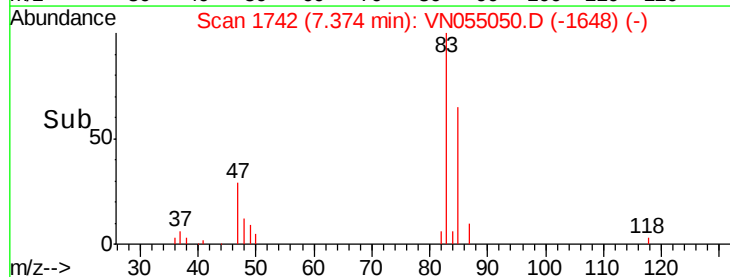
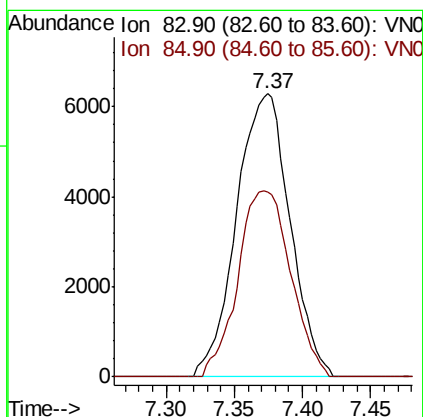
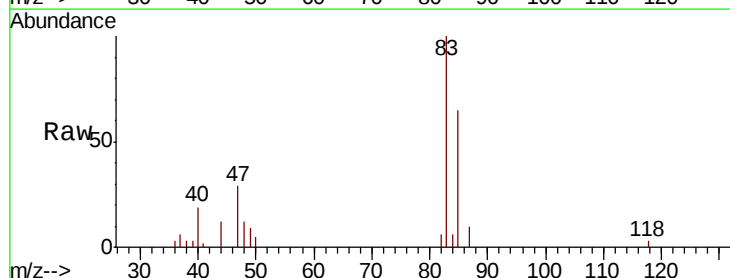
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

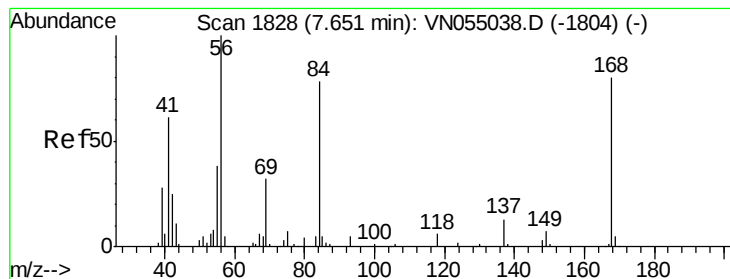
Tot Ion: 42 Resp: 14684
Ion Ratio Lower Upper
42 100
72 36.5 29.4 44.0
71 32.5 27.8 41.6



#30
Chloroform
Concen: 2.209 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 83 Resp: 17107
Ion Ratio Lower Upper
83 100
85 65.4 51.8 77.6





#31

Cyclohexane

Concen: 2.185 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

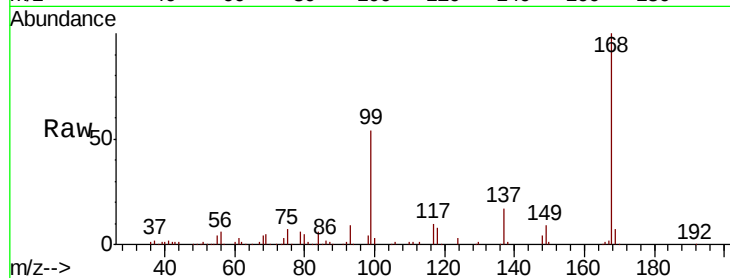
Tot Ion: 56 Resp: 23826

Ion Ratio Lower Upper

56 100

69 84.6 24.5 36.7#

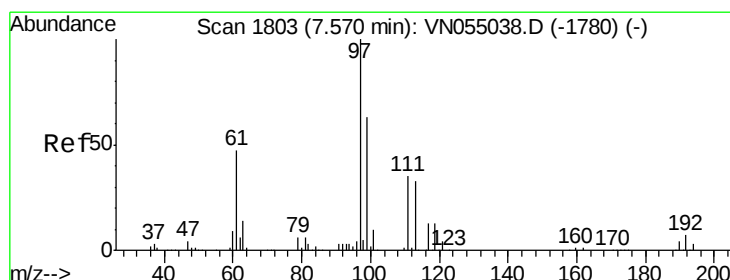
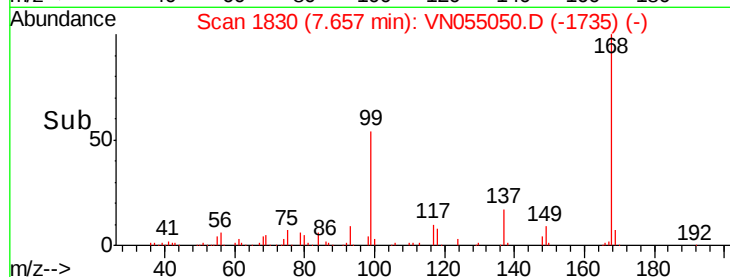
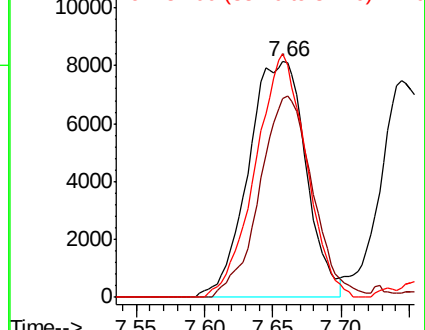
84 103.5 62.9 94.3#



Abundance Ion 56.00 (55.70 to 56.70): VN055050.D (-1735) (-)

Ion 69.00 (68.70 to 69.70): VN055050.D (-1735) (-)

Ion 84.00 (83.70 to 84.70): VN055050.D (-1735) (-)



#32

1,1,1-Trichloroethane

Concen: 2.114 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

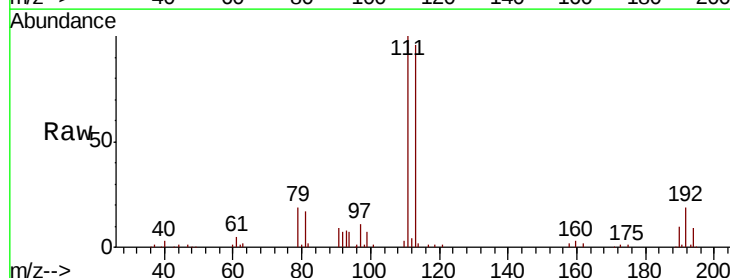
Tgt Ion: 97 Resp: 12968

Ion Ratio Lower Upper

97 100

99 64.6 51.6 77.4

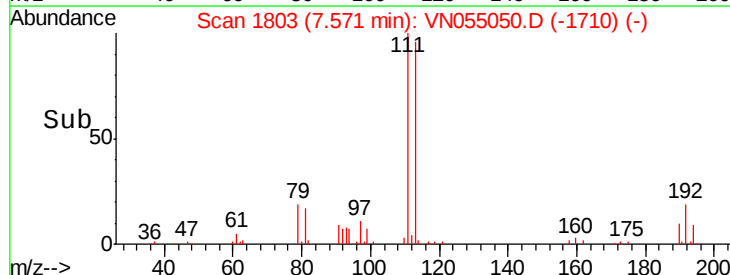
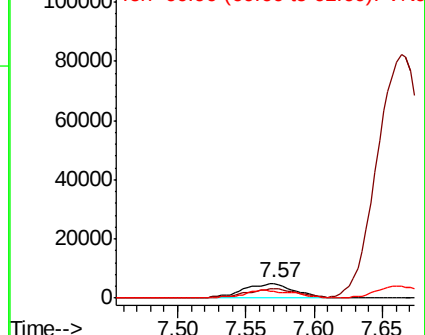
61 51.1 38.3 57.5

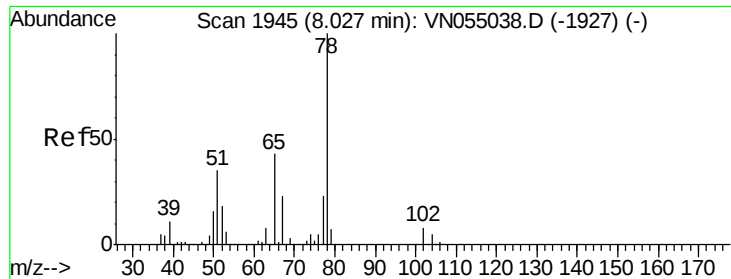


Abundance Ion 96.90 (96.60 to 97.60): VN055050.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN055050.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN055050.D (-1710) (-)

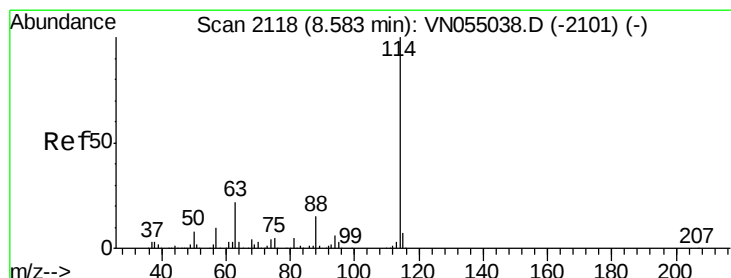
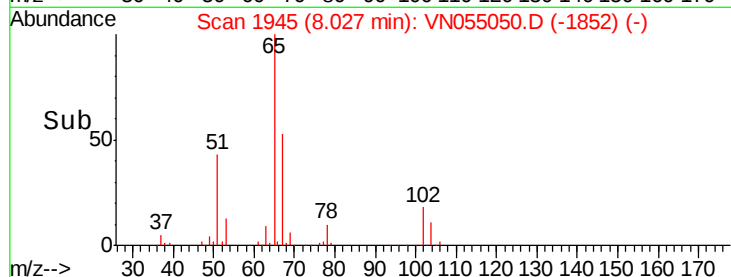
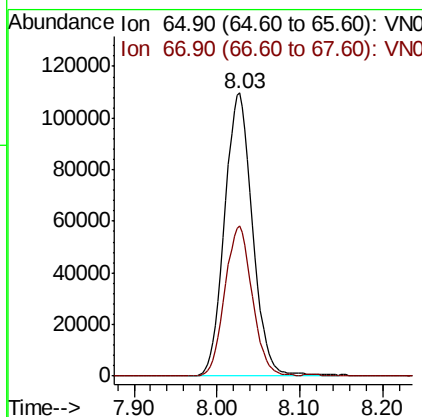
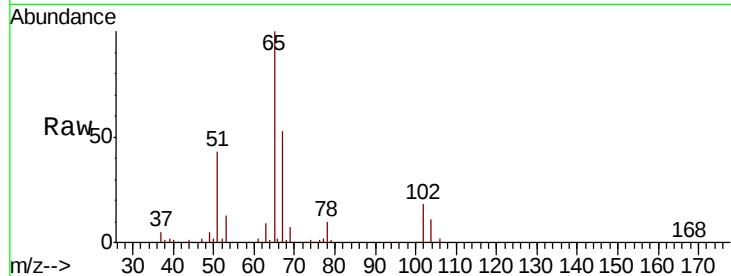




#33
 1,2-Dichloroethane-d4
 Concen: 51.647 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

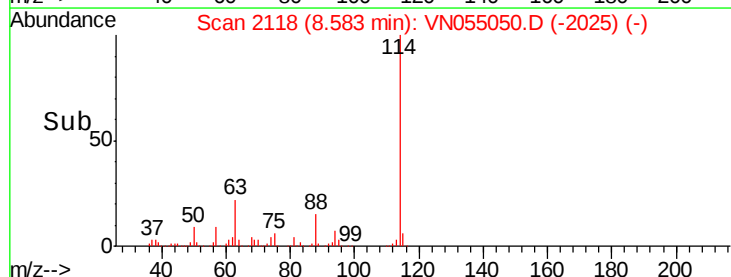
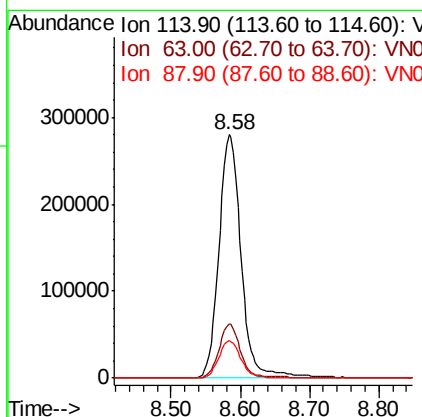
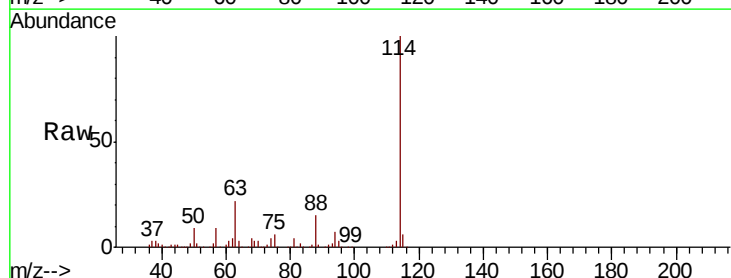
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

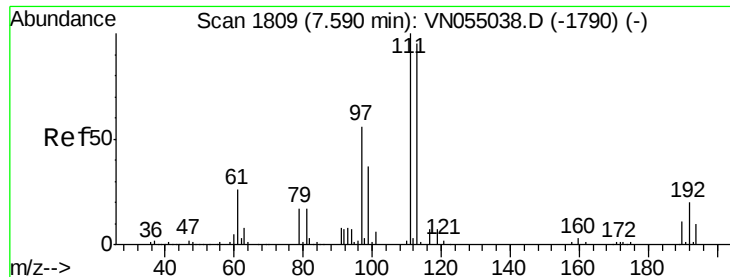
Tot Ion: 65 Resp: 257334
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion: 114 Resp: 625180
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.2
 88 15.4 0.0 31.8

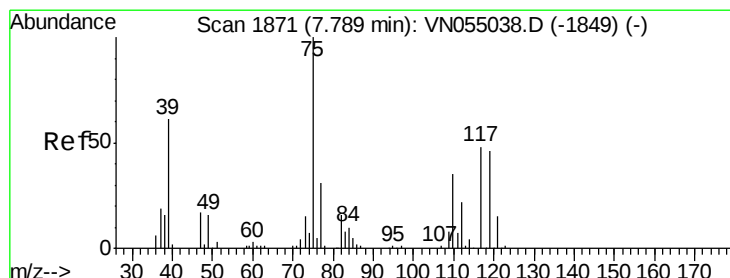
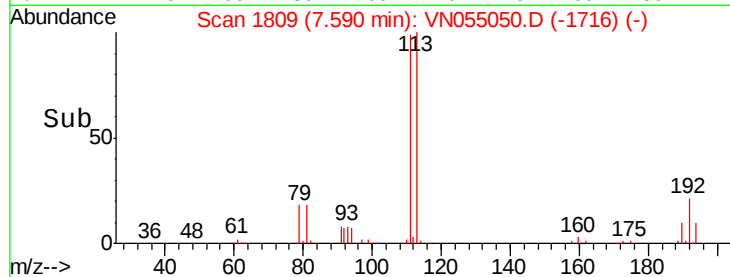
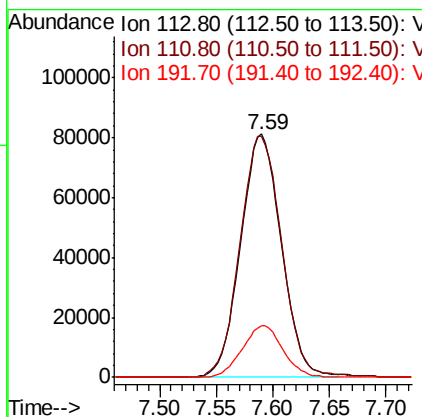
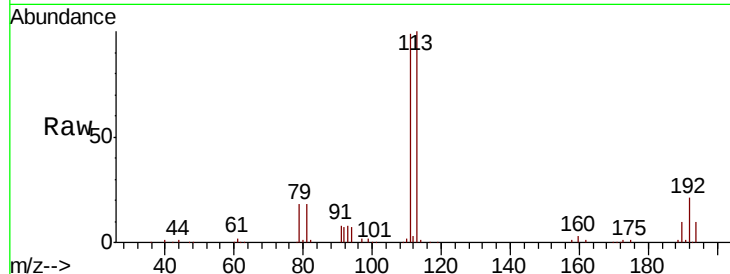




#35
 Dibromofluoromethane
 Concen: 48.611 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

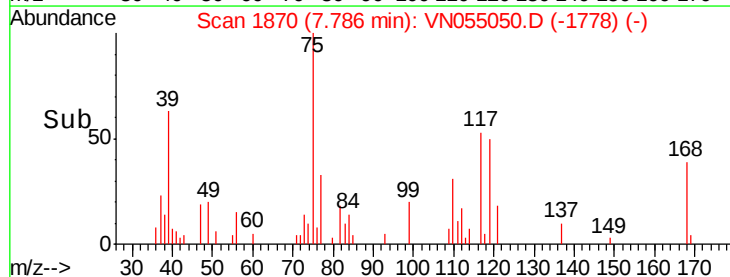
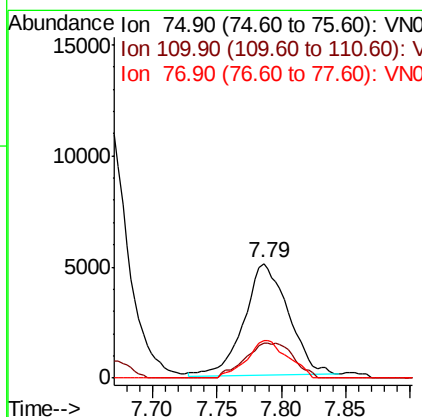
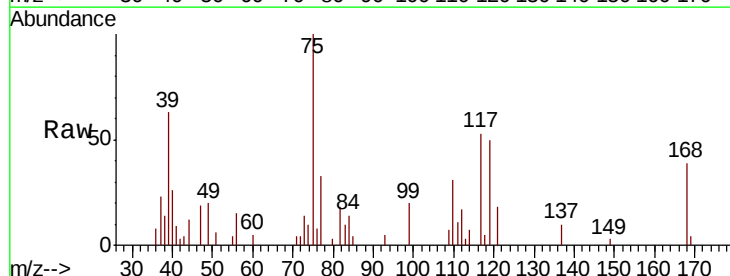
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

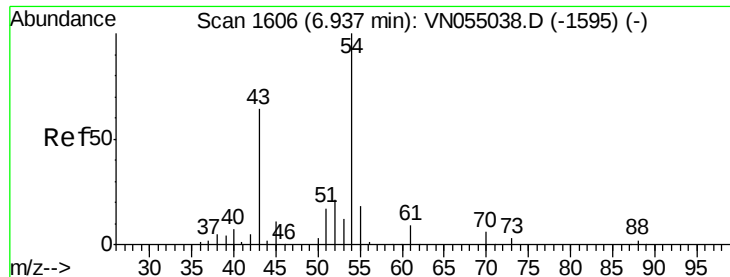
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.1	123.1
192	21.3	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 2.022 ug/l
 RT: 7.79 min Scan# 1870
 Delta R.T. -0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.5	52.5
77	31.6	24.9	37.3

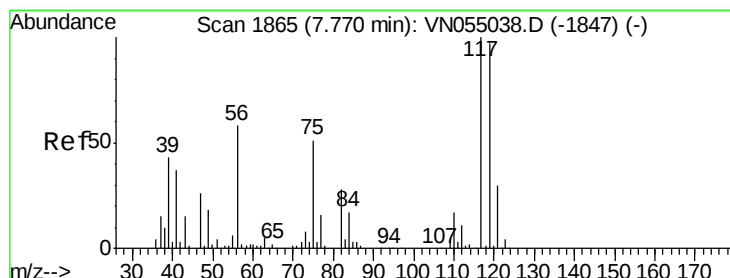
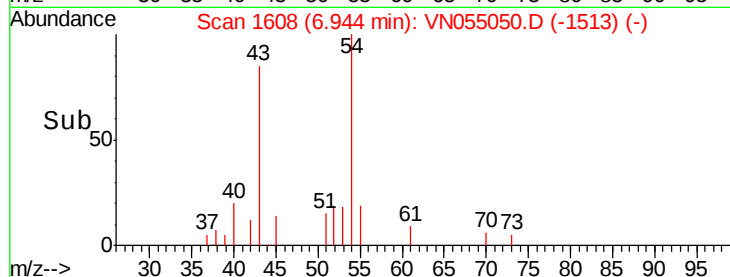
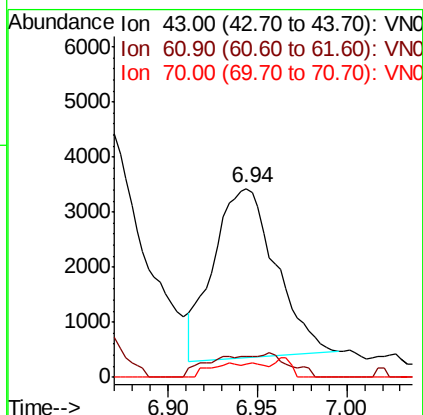
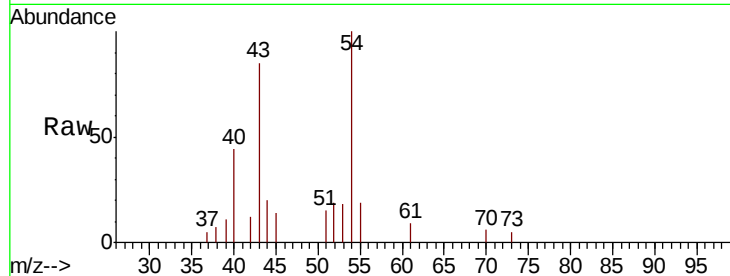




#37
Ethyl Acetate
Concen: 1.560 ug/l
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

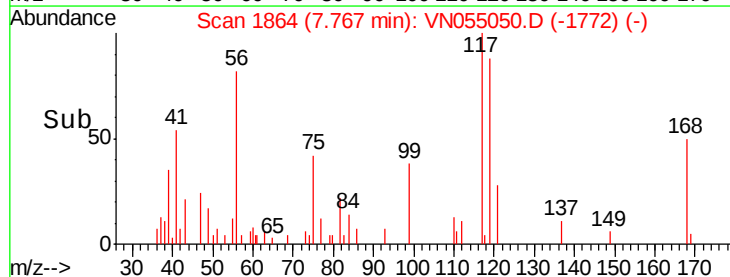
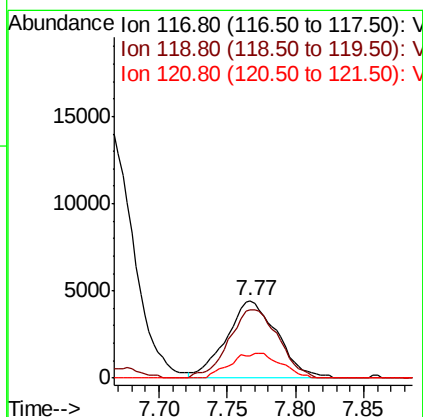
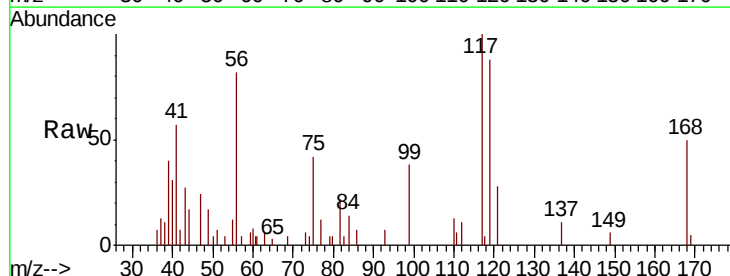
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

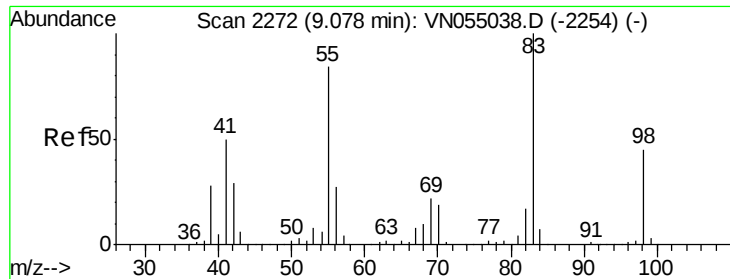
Tot Ion: 43 Resp: 7483
Ion Ratio Lower Upper
43 100
61 6.6 10.0 15.0#
70 4.2 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 2.050 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 117 Resp: 11496
Ion Ratio Lower Upper
117 100
119 87.9 76.3 114.5
121 28.4 23.9 35.9

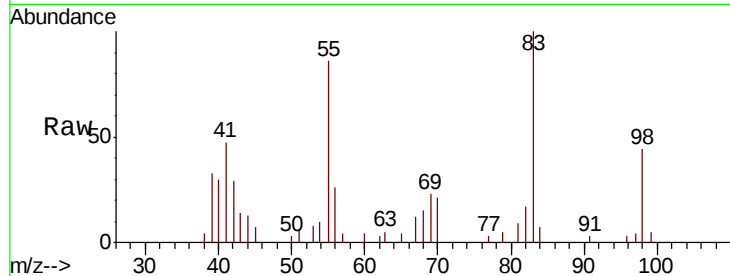




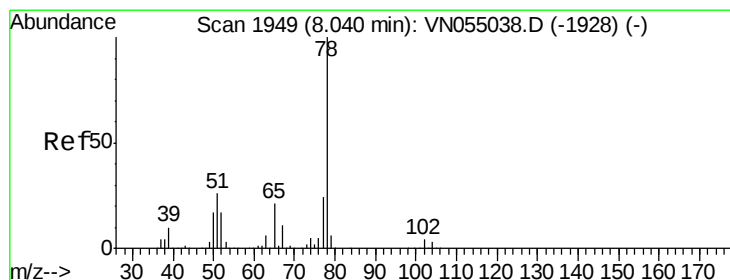
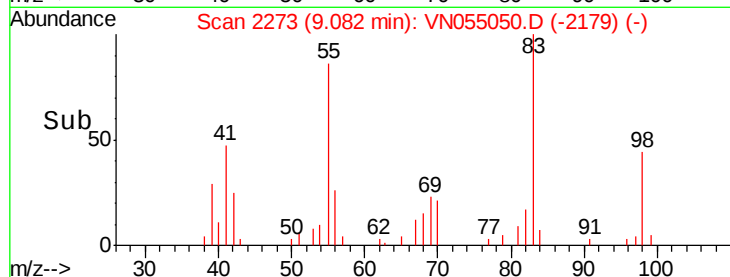
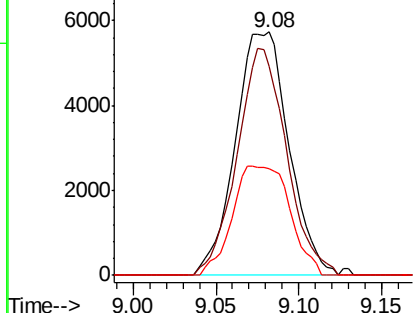
#39
Methvlcvclohexane
Concen: 2.014 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion: 83 Resp: 12860
Ion Ratio Lower Upper
83 100
55 85.6 67.0 100.4
98 44.0 35.6 53.4

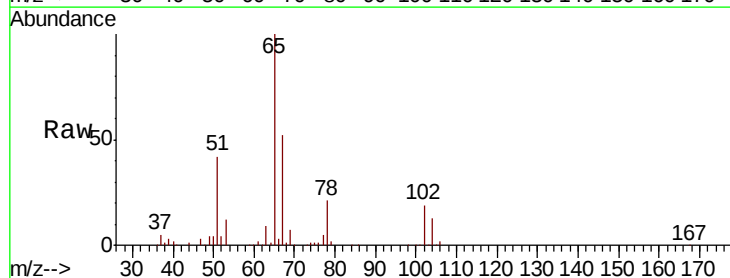


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

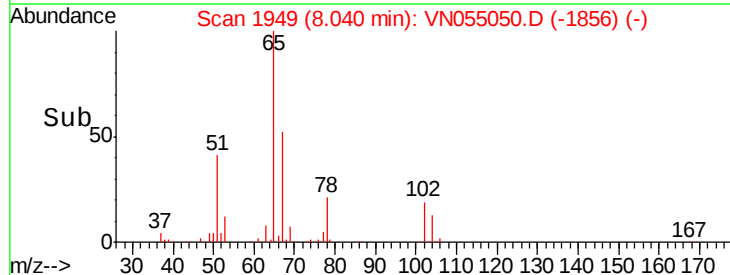
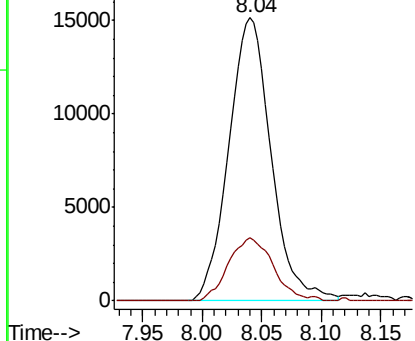


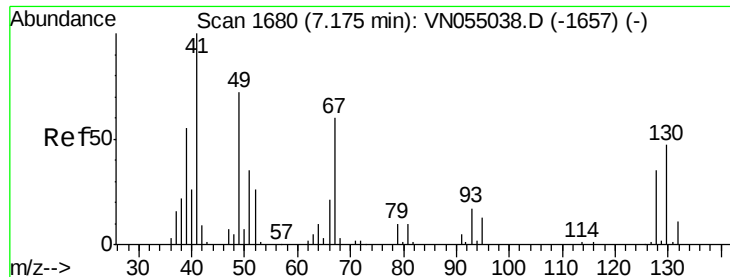
#40
Benzene
Concen: 2.103 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 78 Resp: 37361
Ion Ratio Lower Upper
78 100
77 22.1 18.8 28.2



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

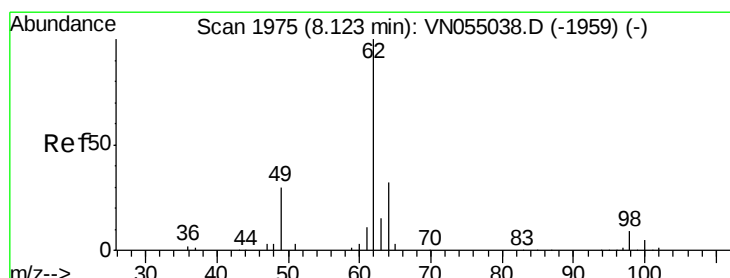
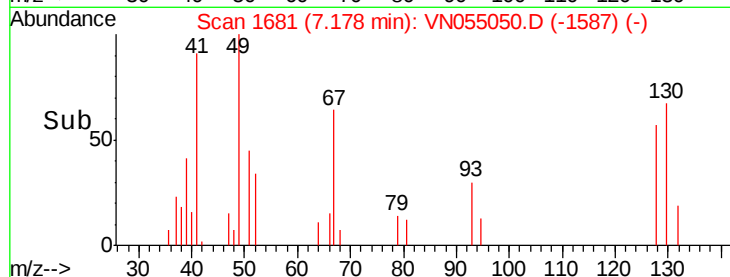
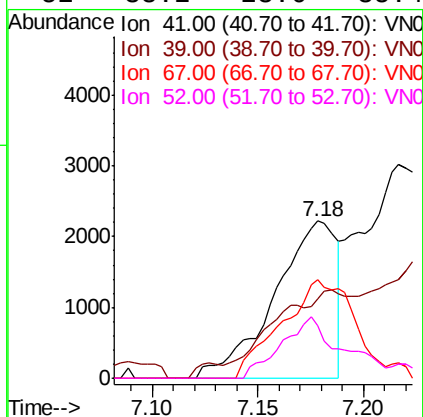
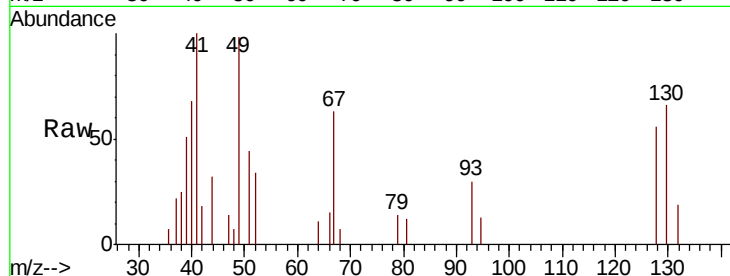




#41
Methacrylonitrile
Concen: 1.703 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

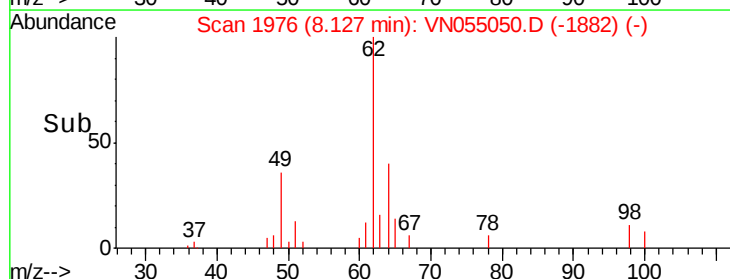
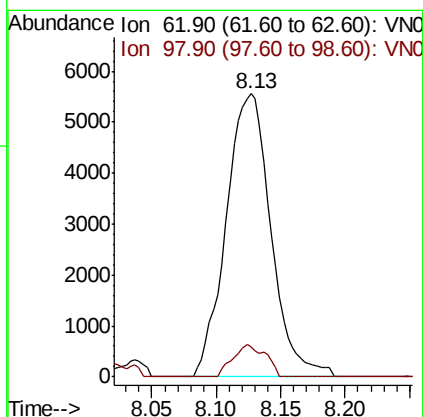
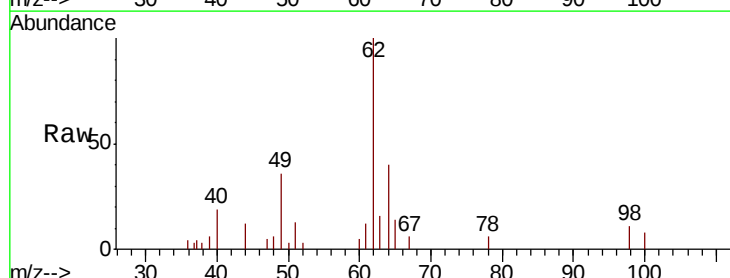
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

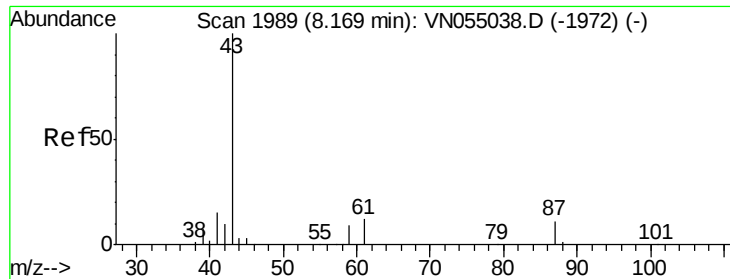
Tot Ion: 41 Resp: 4537
Ion Ratio Lower Upper
41 100
39 24.5 45.6 68.4#
67 72.9 57.0 85.6
52 38.2 23.6 35.4#



#42
1,2-Dichloroethane
Concen: 2.177 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 62 Resp: 13426
Ion Ratio Lower Upper
62 100
98 8.2 0.0 17.4





#43

Isopropyl Acetate

Concen: 1.973 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

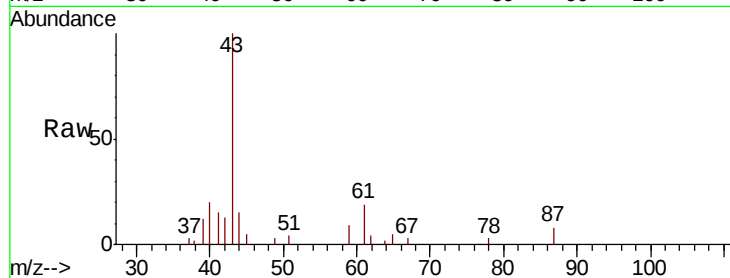
Tot Ion: 43 Resp: 14586

Ion Ratio Lower Upper

43 100

61 18.3 14.3 21.5

87 5.0 8.6 13.0#

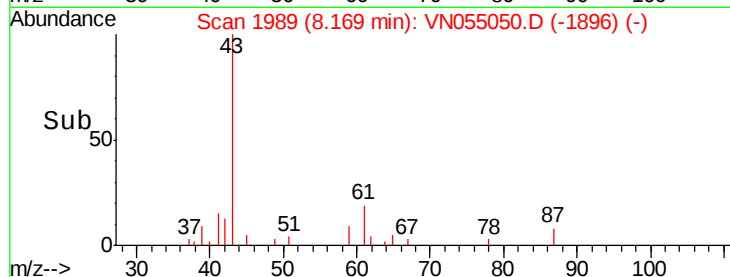


Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-1972) (-)

Ion 61.00 (60.70 to 61.70): VN055038.D (-1972) (-)

Ion 87.00 (86.70 to 87.70): VN055038.D (-1972) (-)

Time-->



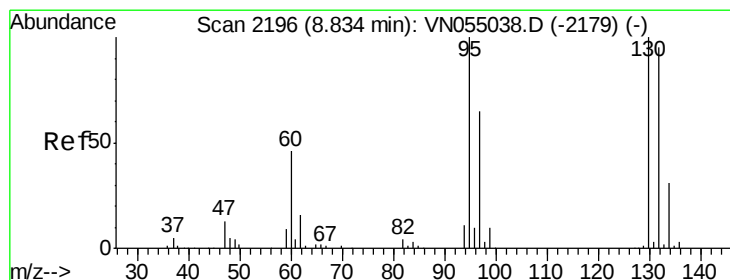
Abundance

Ion 43.00 (42.70 to 43.70): VN055050.D (-1896) (-)

Ion 61.00 (60.70 to 61.70): VN055050.D (-1896) (-)

Ion 87.00 (86.70 to 87.70): VN055050.D (-1896) (-)

Time-->



#44

Trichloroethene

Concen: 2.012 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055050.D

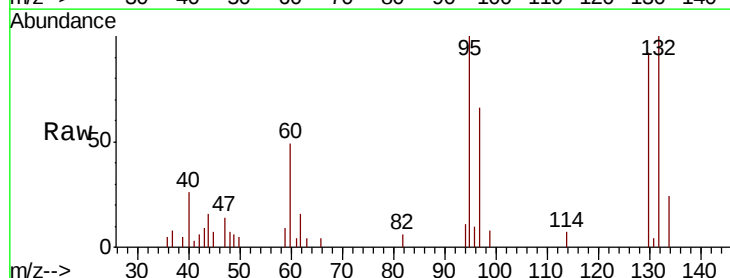
Acq: 15 Apr 2019 18:41

Tgt Ion:130 Resp: 8950

Ion Ratio Lower Upper

130 100

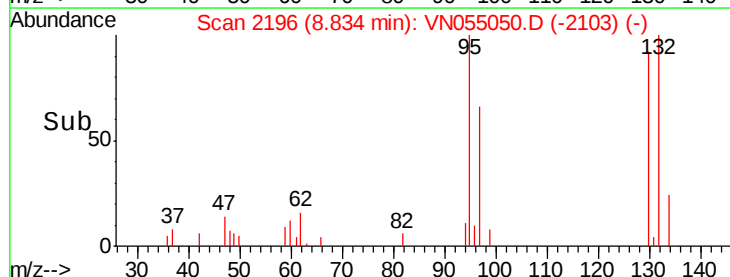
95 109.2 0.0 201.6



Abundance Ion 129.80 (129.50 to 130.50): VN055038.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055038.D (-2179) (-)

Time-->

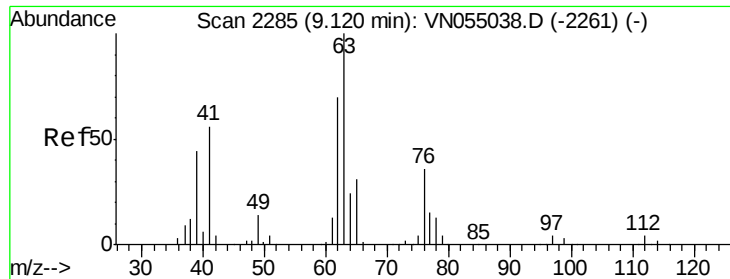


Abundance

Ion 129.80 (129.50 to 130.50): VN055050.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN055050.D (-2103) (-)

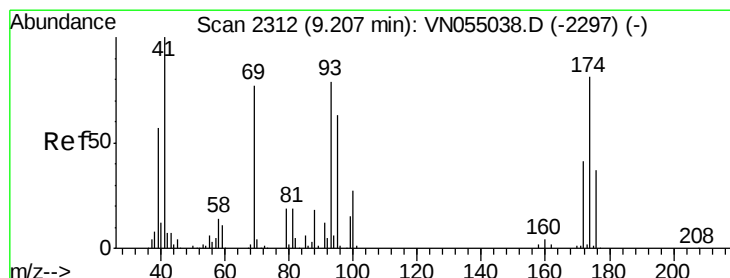
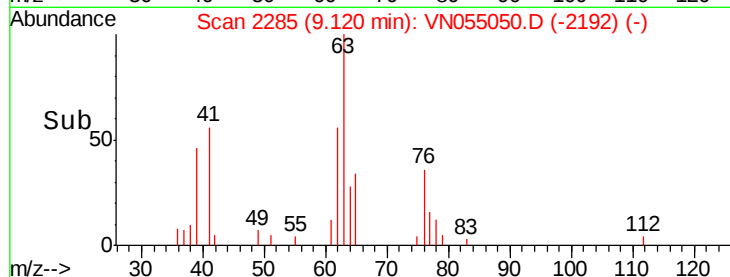
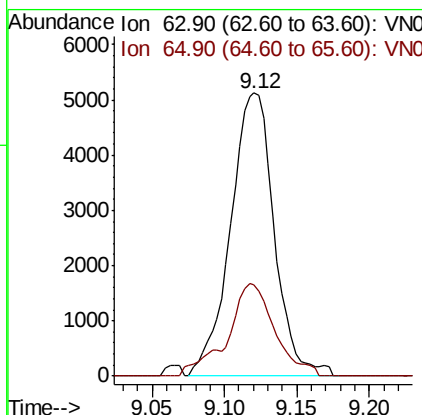
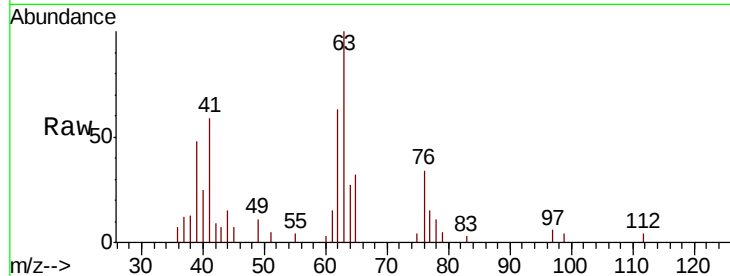
Time-->



#45
 1,2-Dichloropropane
 Concen: 2.175 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

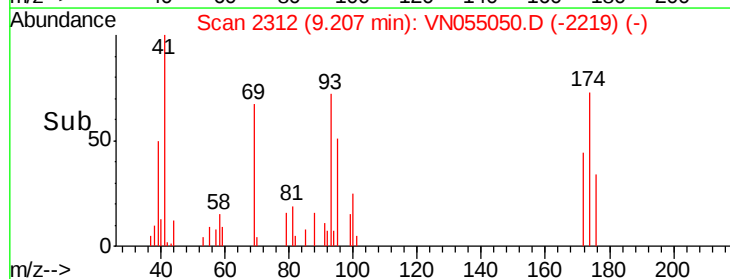
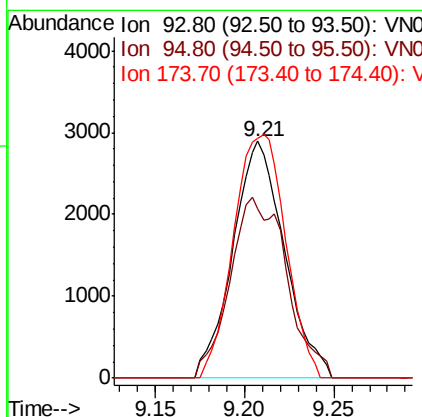
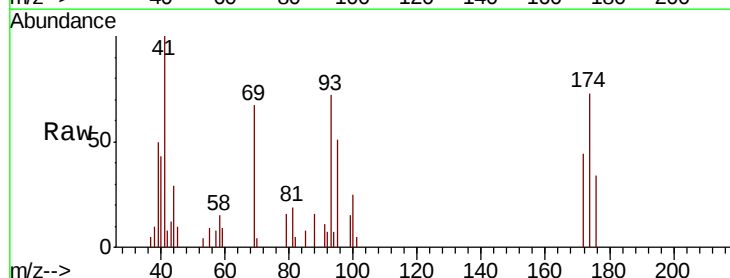
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

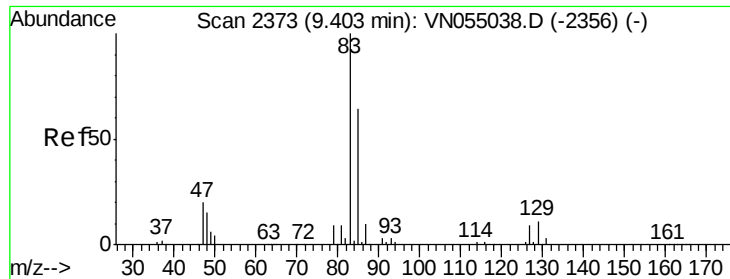
Tot Ion: 63 Resp: 10772
 Ion Ratio Lower Upper
 63 100
 65 32.4 24.4 36.6



#46
 Dibromomethane
 Concen: 2.074 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion: 93 Resp: 5847
 Ion Ratio Lower Upper
 93 100
 95 83.6 65.0 97.6
 174 103.9 81.0 121.6





#47

Bromodichloromethane

Concen: 1.966 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

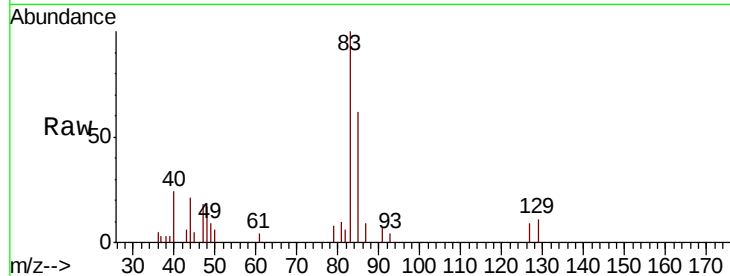
Tot Ion: 83 Resp: 11430

Ion Ratio Lower Upper

83 100

85 61.6 51.2 76.8

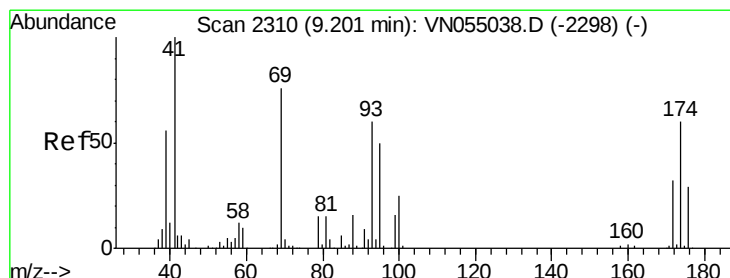
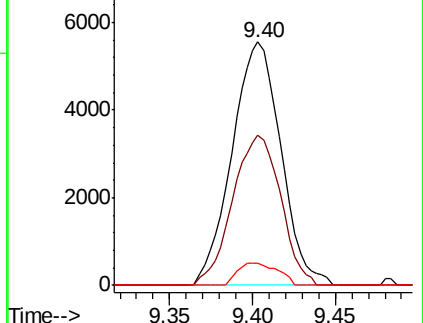
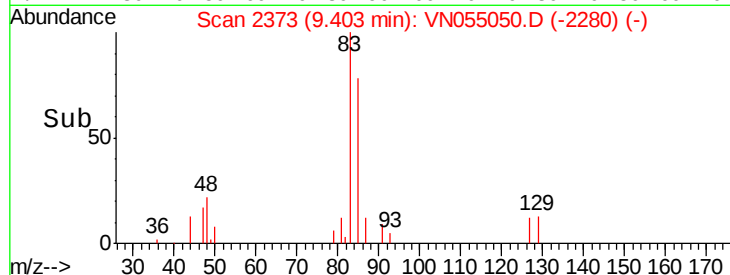
127 9.1 6.8 10.2



Abundance Ion 82.90 (82.60 to 83.60): VN055050.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN055050.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN055050.D (-2280) (-)



#48

Methyl methacrylate

Concen: 1.971 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

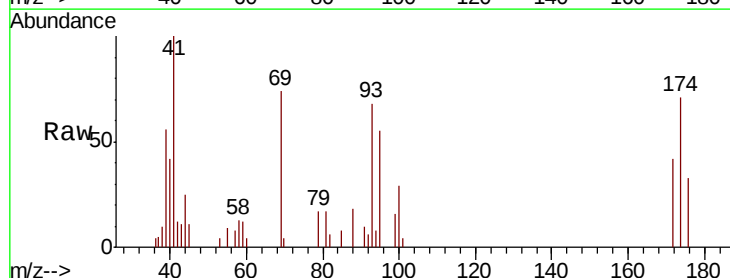
Tgt Ion: 41 Resp: 7224

Ion Ratio Lower Upper

41 100

69 79.2 60.5 90.7

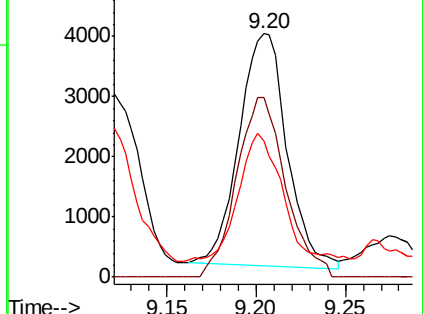
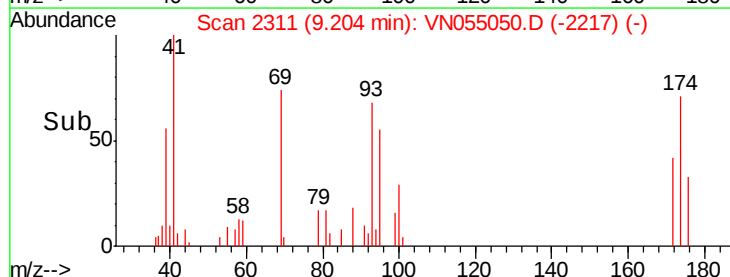
39 69.1 43.9 65.9#

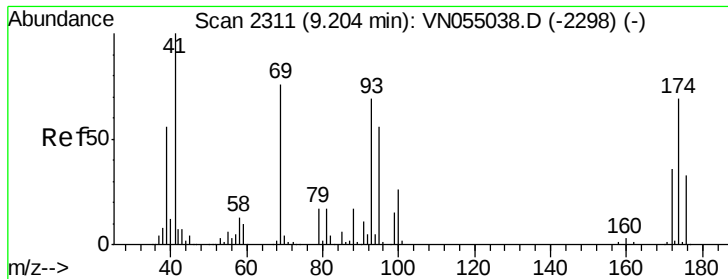


Abundance Ion 41.00 (40.70 to 41.70): VN055050.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN055050.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN055050.D (-2217) (-)





#49

1,4-Dioxane

Concen: 23.681 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

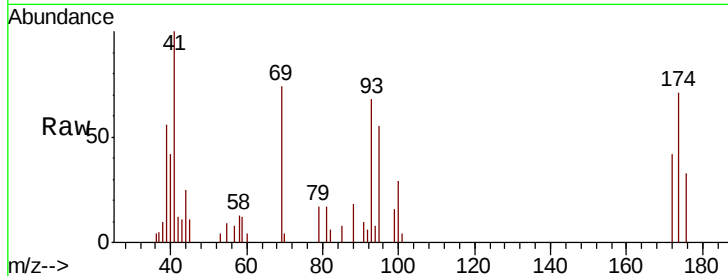
Tot Ion: 88 Resp: 813

Ion Ratio Lower Upper

88 100

43 40.6 31.8 47.8

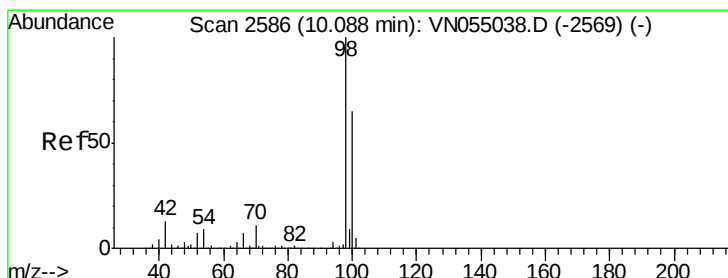
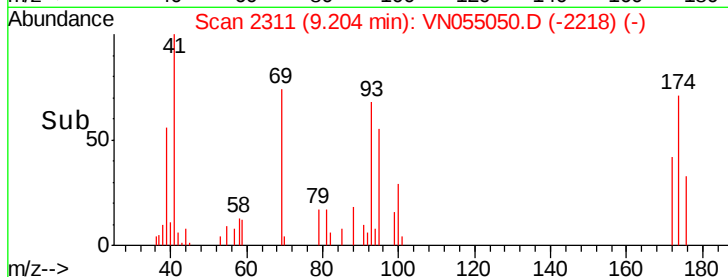
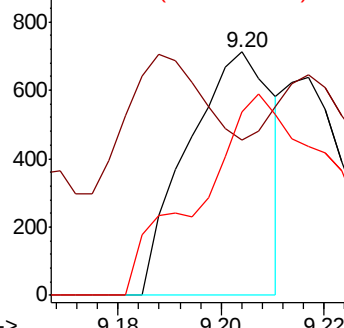
58 126.1 61.6 92.4#



Abundance Ion 88.00 (87.70 to 88.70): VN055038.D (-2298) (-)

Ion 43.00 (42.70 to 43.70): VN055038.D (-2298) (-)

Ion 58.00 (57.70 to 58.70): VN055038.D (-2298) (-)



#50

Toluene-d8

Concen: 49.878 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055050.D

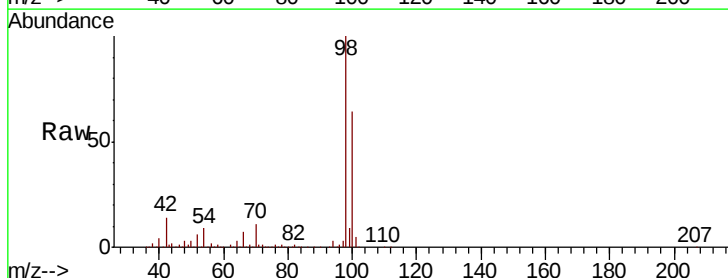
Acq: 15 Apr 2019 18:41

Tgt Ion: 98 Resp: 745873

Ion Ratio Lower Upper

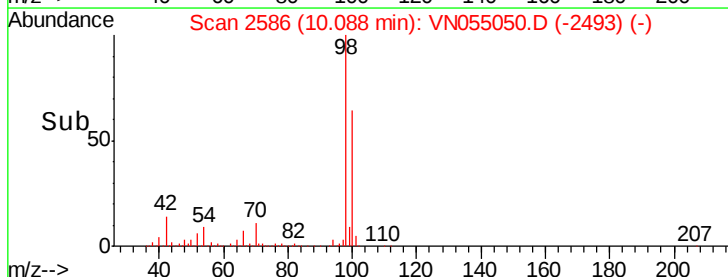
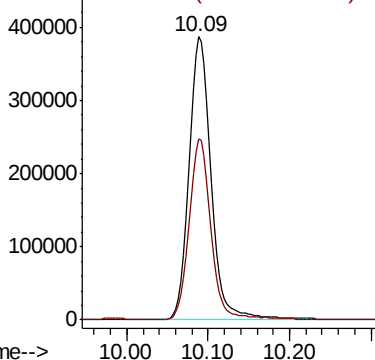
98 100

100 63.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN055038.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN055038.D (-2569) (-)

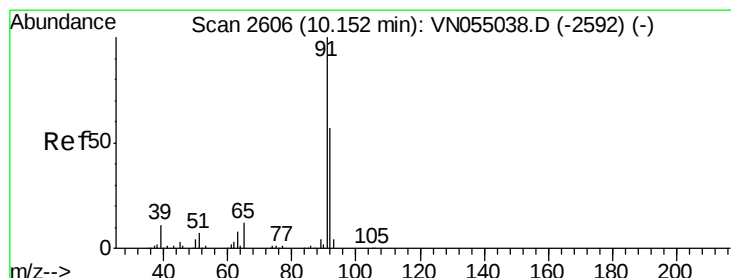
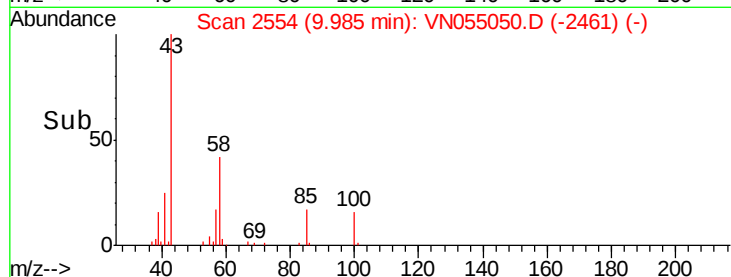
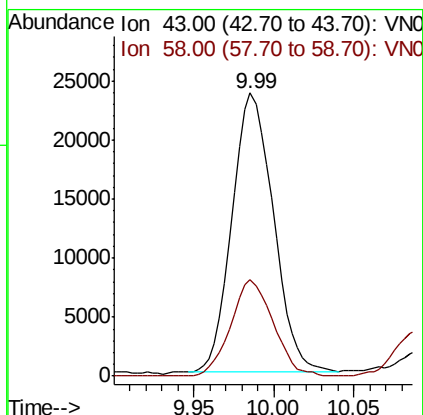
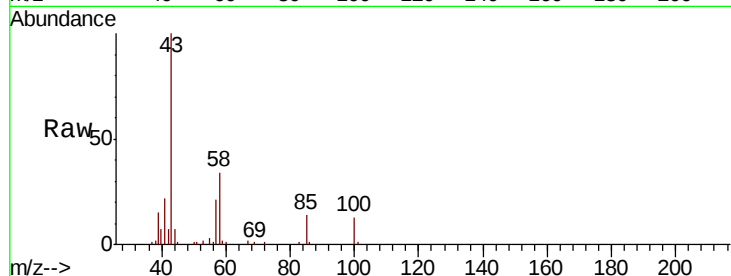




#51
4-Methyl-2-Pentanone
Concen: 9.810 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

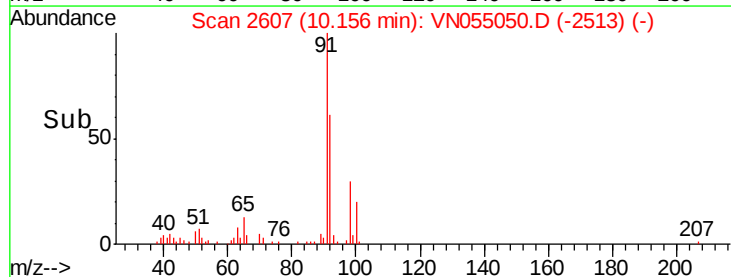
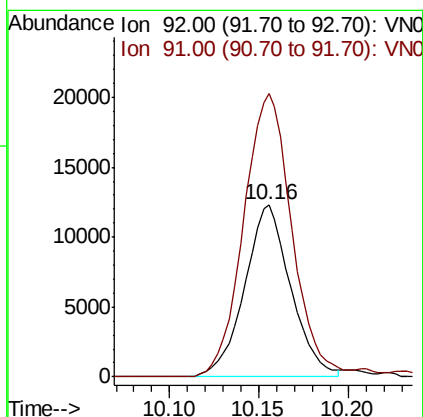
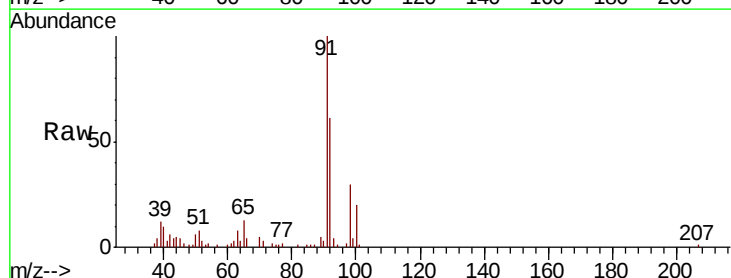
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

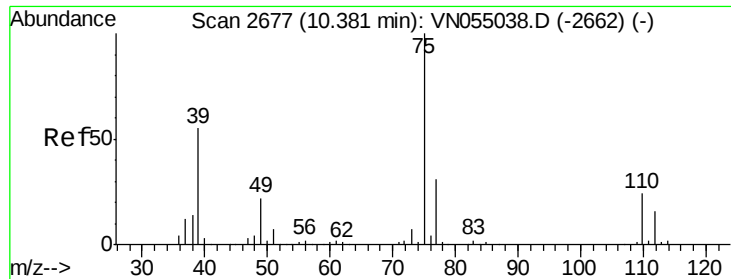
Tot Ion: 43 Resp: 41901
Ion Ratio Lower Upper
43 100
58 35.3 29.0 43.4



#52
Toluene
Concen: 2.189 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 92 Resp: 22268
Ion Ratio Lower Upper
92 100
91 172.0 140.8 211.2

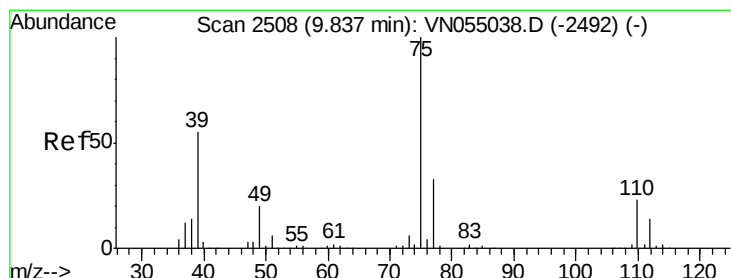
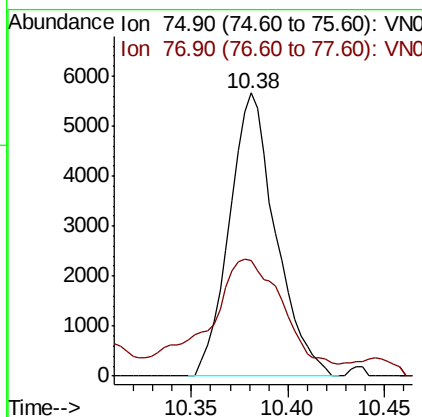
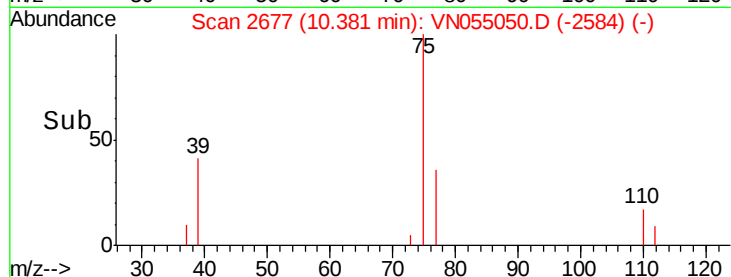
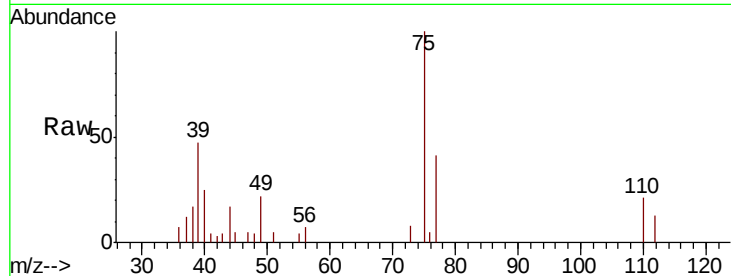




#53
 t-1,3-Dichloropropene
 Concen: 1.851 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

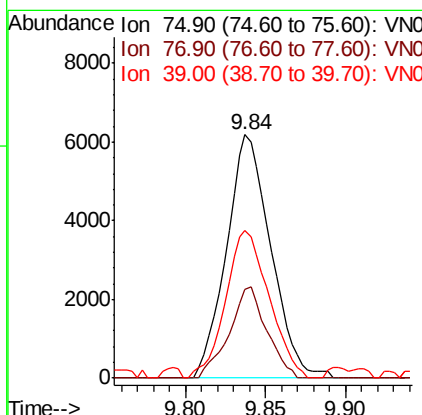
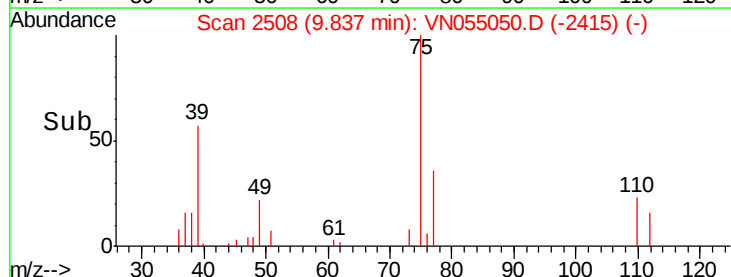
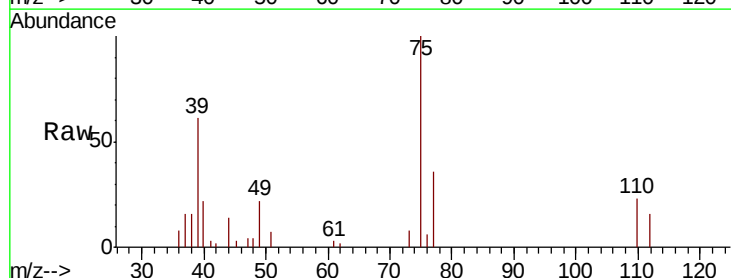
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

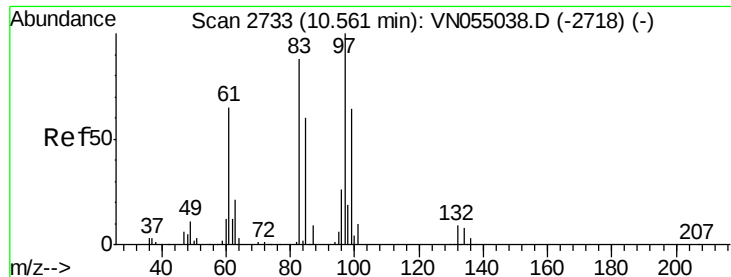
Tot Ion: 75 Resp: 9402
 Ion Ratio Lower Upper
 75 100
 77 36.3 24.6 37.0



#54
 cis-1,3-Dichloropropene
 Concen: 1.852 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion: 75 Resp: 11677
 Ion Ratio Lower Upper
 75 100
 77 36.4 25.8 38.6
 39 60.8 43.8 65.8

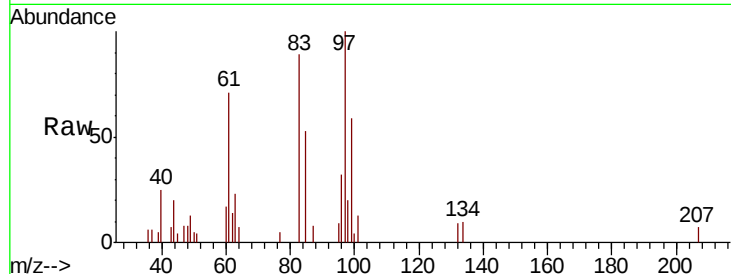




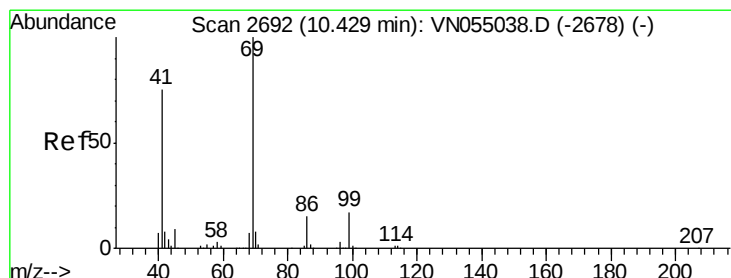
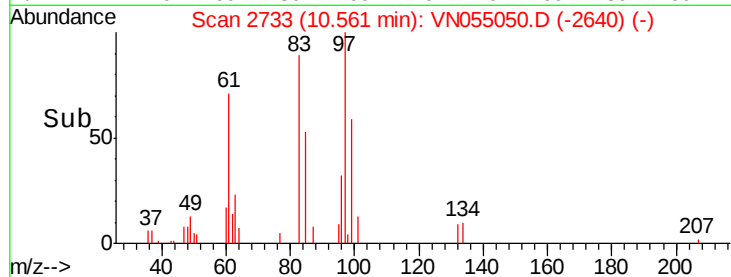
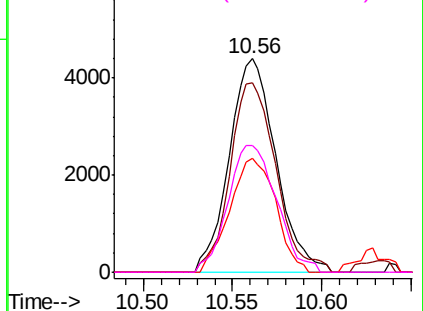
#55
 1,1,2-Trichloroethane
 Concen: 2.040 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion:	97	Resp:	7996
Ion	Ratio	Lower	Upper
97	100		
83	88.7	70.5	105.7
85	53.1	45.5	68.3
99	59.1	49.4	74.0

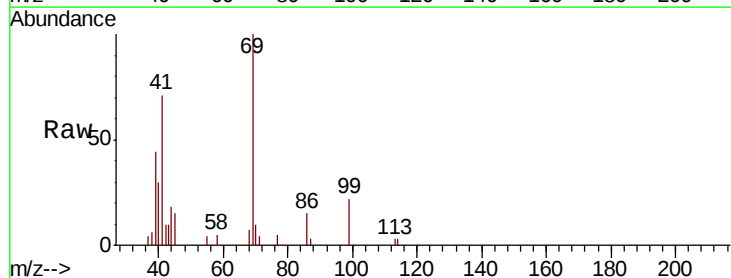


Abundance Ion 96.90 (96.60 to 97.60): VNO
 Ion 82.90 (82.60 to 83.60): VNO
 Ion 84.90 (84.60 to 85.60): VNO
 Ion 98.90 (98.60 to 99.60): VNO

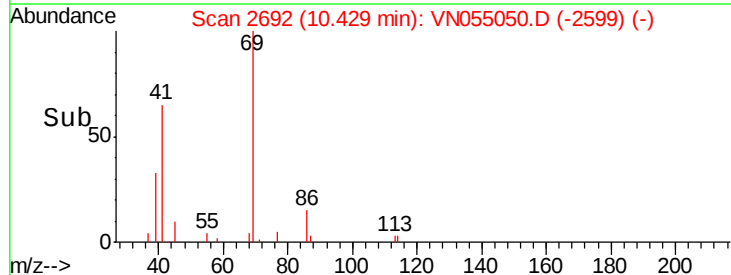
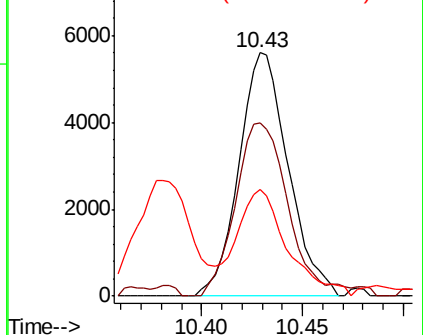


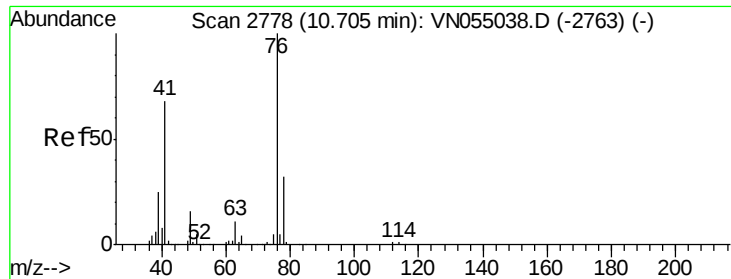
#56
 Ethyl methacrylate
 Concen: 2.035 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion:	69	Resp:	9570
Ion	Ratio	Lower	Upper
69	100		
41	77.6	61.4	92.0
39	45.2	30.8	46.2



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





#57

1,3-Dichloropropane

Concen: 2.025 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

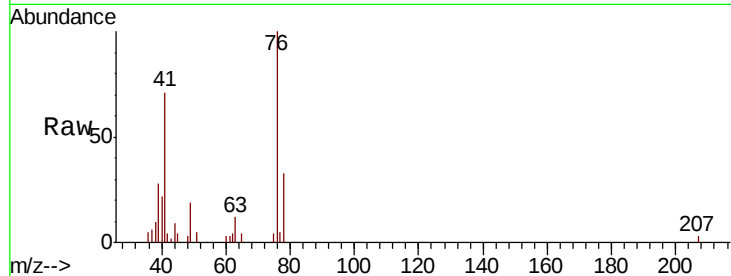
LOQ-WATER-02-QT2-2019

Tot Ion: 76 Resp: 13511

Ion Ratio Lower Upper

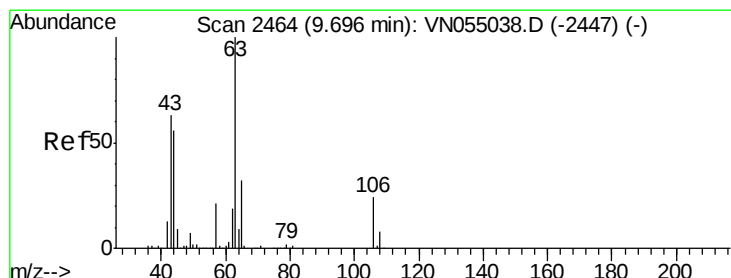
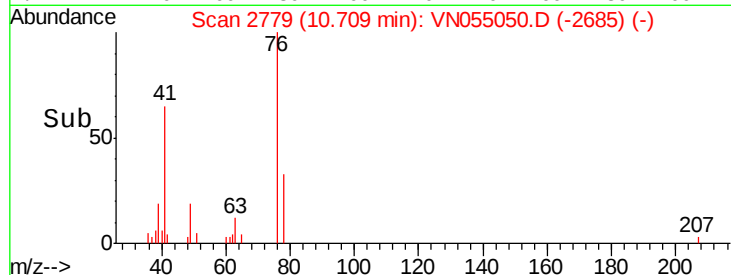
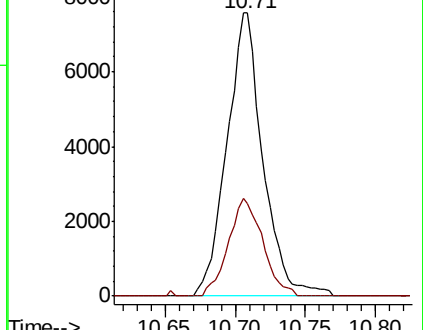
76 100

78 33.0 25.6 38.4



Abundance Ion 75.90 (75.60 to 76.60): VN055038.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN055038.D (-2763) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 17.992 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN055050.D

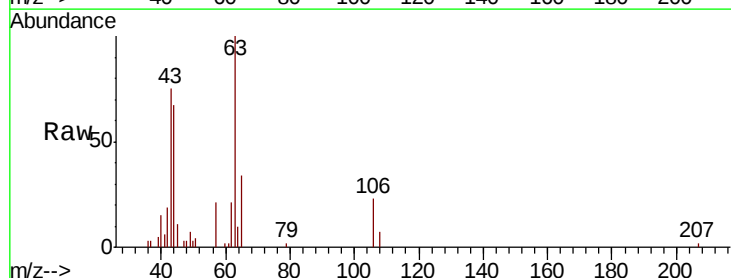
Acq: 15 Apr 2019 18:41

Tgt Ion: 63 Resp: 15662

Ion Ratio Lower Upper

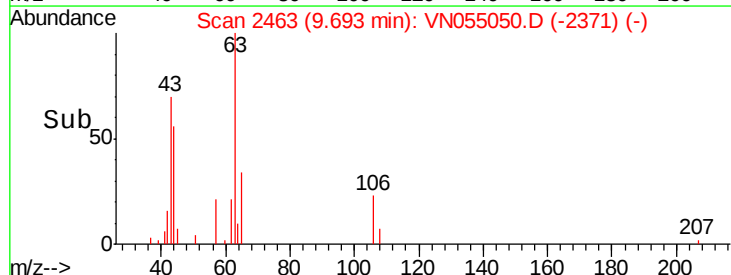
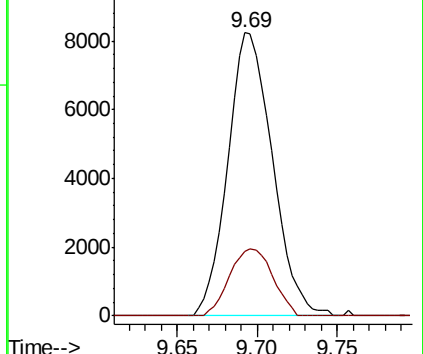
63 100

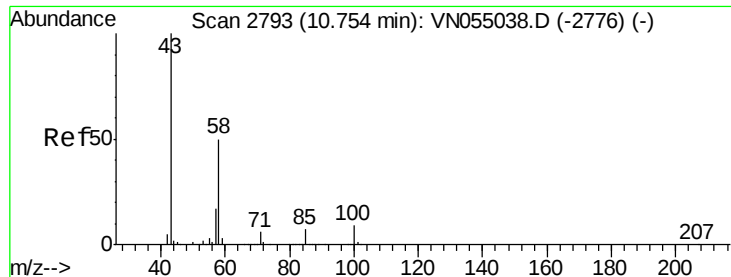
106 22.9 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN055038.D (-2447) (-)

Ion 105.90 (105.60 to 106.60): VN055038.D (-2447) (-)

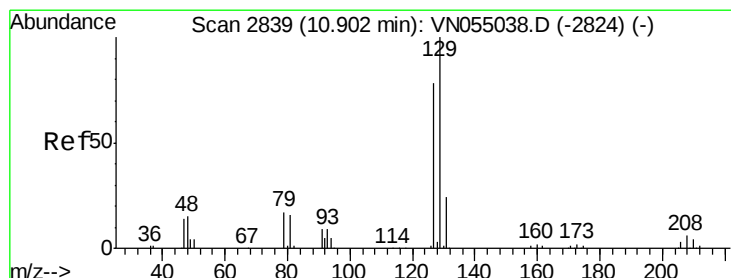
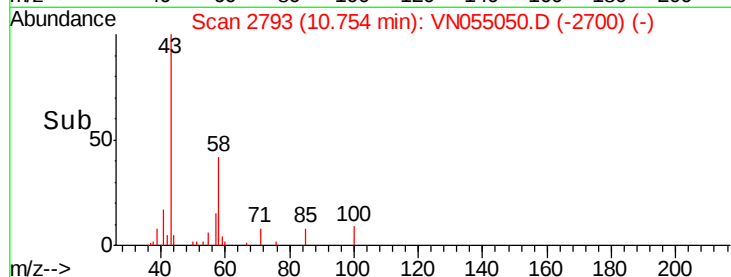
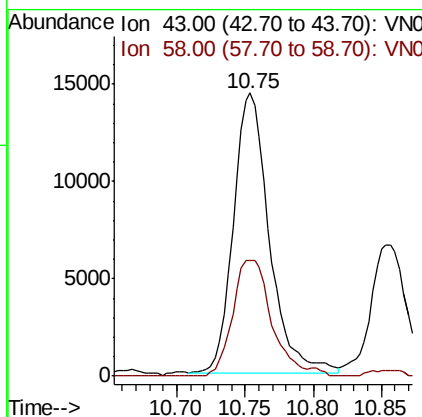
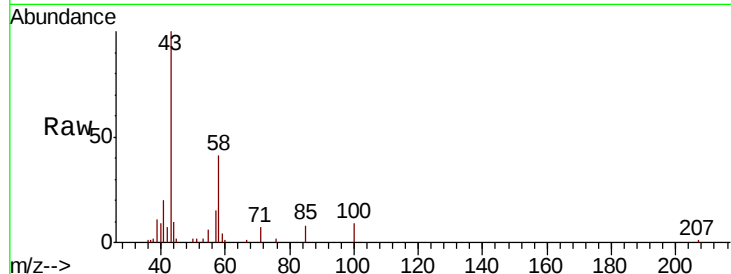




#59
2-Hexanone
Concen: 9.731 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

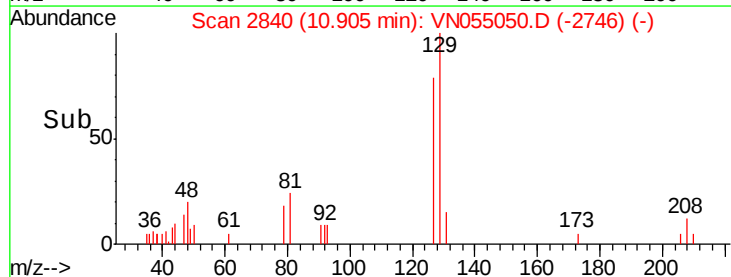
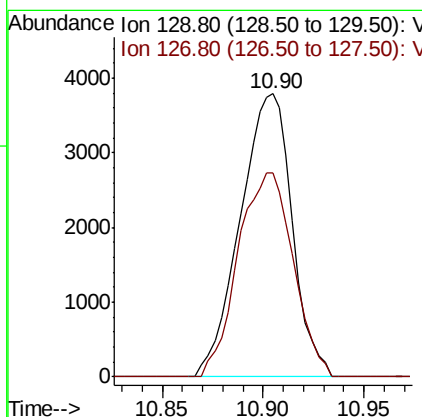
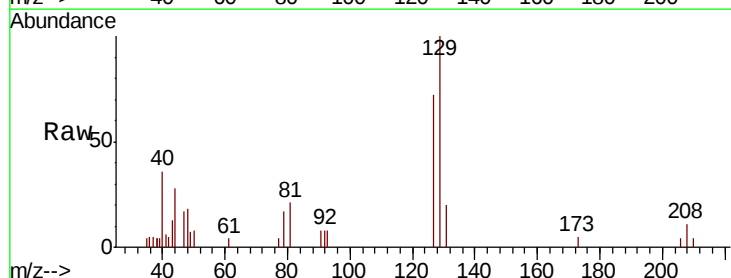
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

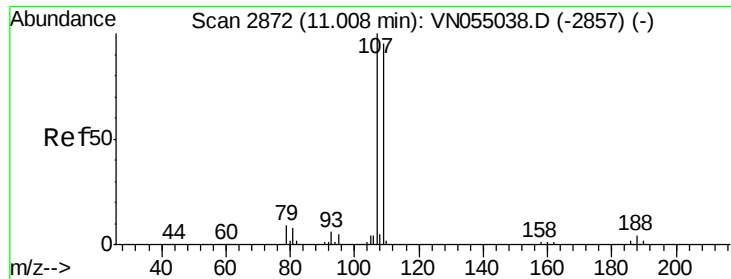
Tot Ion: 43 Resp: 26106
Ion Ratio Lower Upper
43 100
58 44.8 25.1 75.2



#60
Dibromochloromethane
Concen: 1.780 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 129 Resp: 6813
Ion Ratio Lower Upper
129 100
127 76.5 38.2 114.6





#61

1,2-Dibromoethane

Concen: 2.027 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

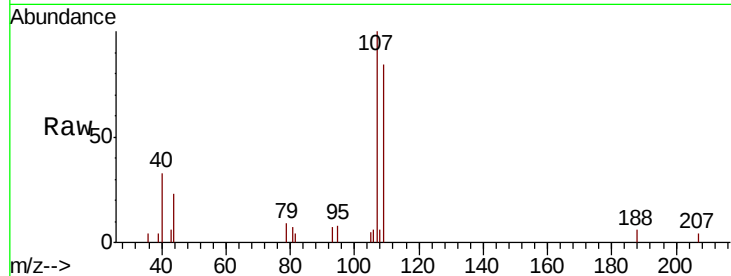
LOQ-WATER-02-QT2-2019

Tot Ion: 107 Resp: 7311

Ion Ratio Lower Upper

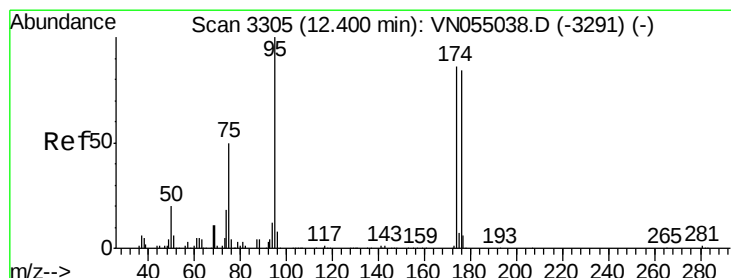
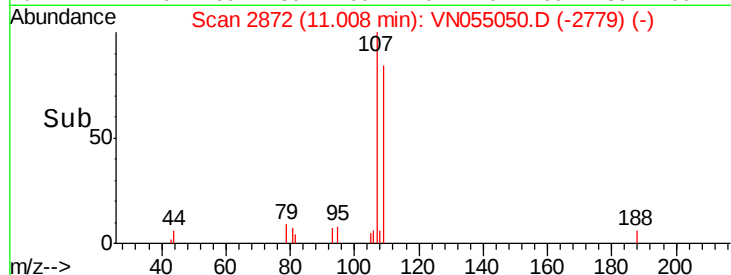
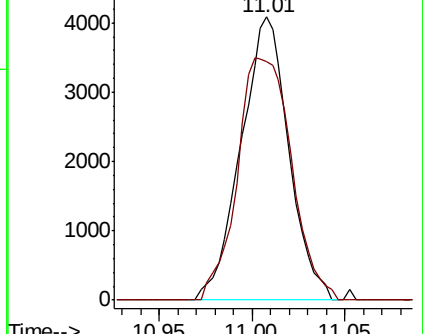
107 100

109 96.8 76.5 114.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 46.387 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

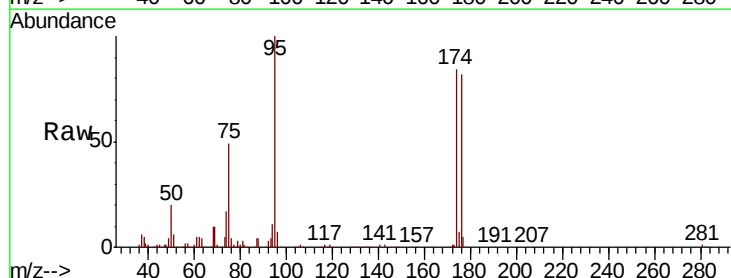
Tgt Ion: 95 Resp: 225510

Ion Ratio Lower Upper

95 100

174 84.6 0.0 174.4

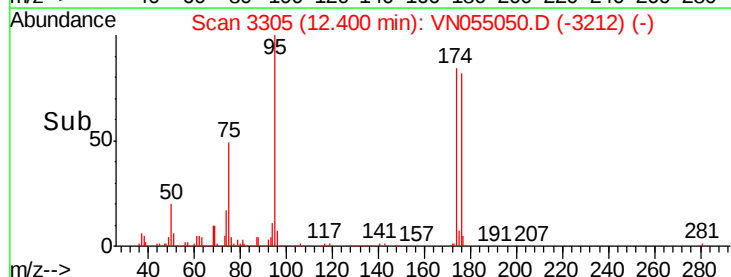
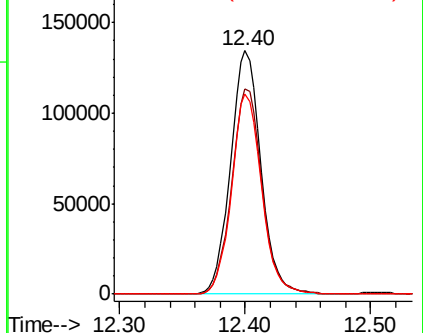
176 81.3 0.0 166.8

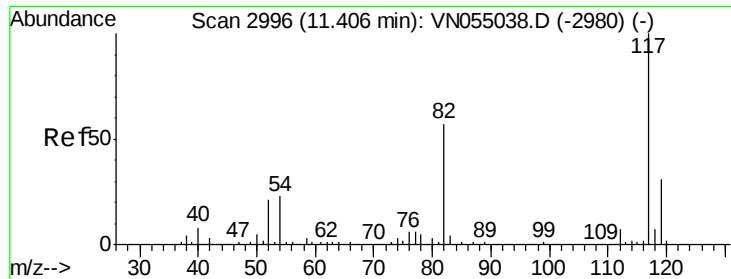


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

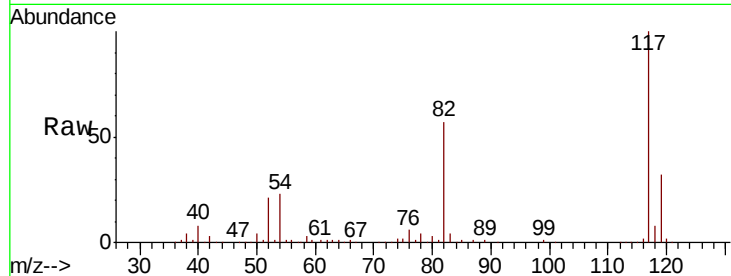




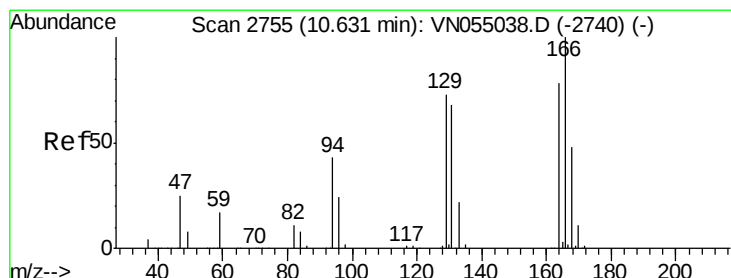
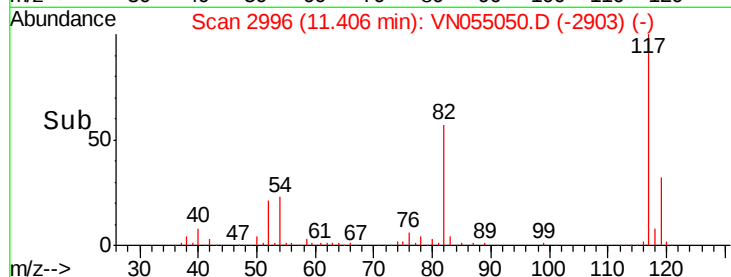
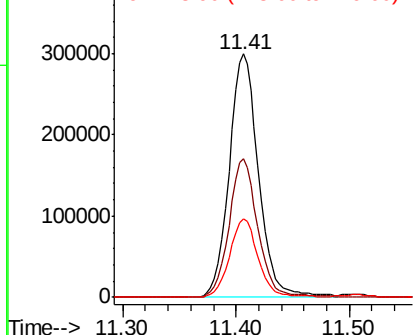
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion:117 Resp: 540225
Ion Ratio Lower Upper
117 100
82 57.0 44.6 66.8
119 32.4 25.5 38.3



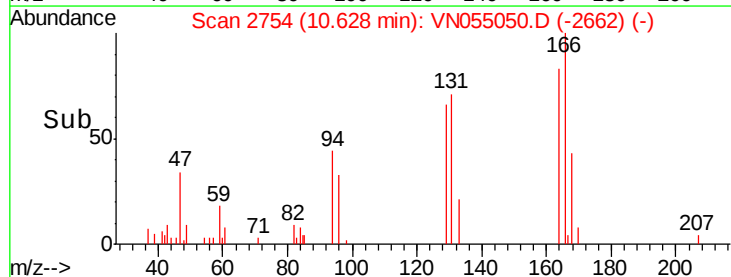
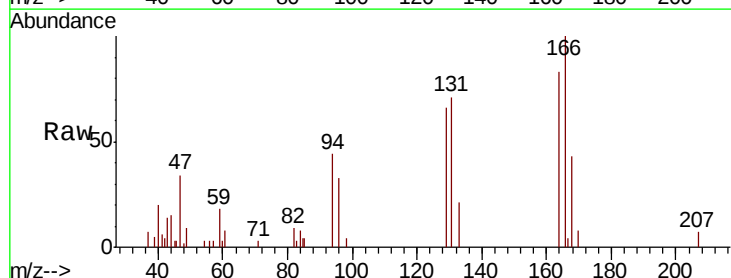
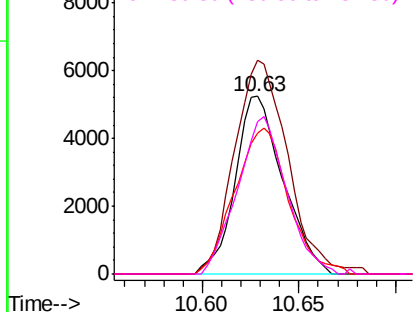
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 2.061 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion:164 Resp: 9053
Ion Ratio Lower Upper
164 100
166 120.5 100.0 150.0
129 79.7 72.0 108.0
131 85.8 69.7 104.5

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

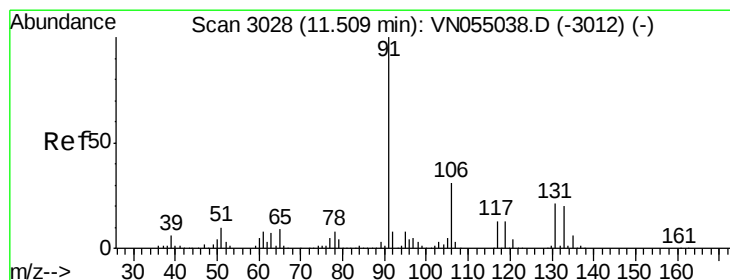
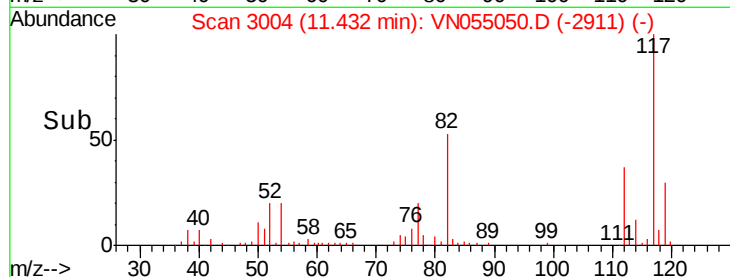
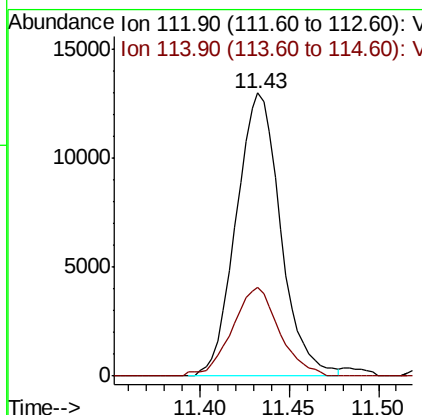
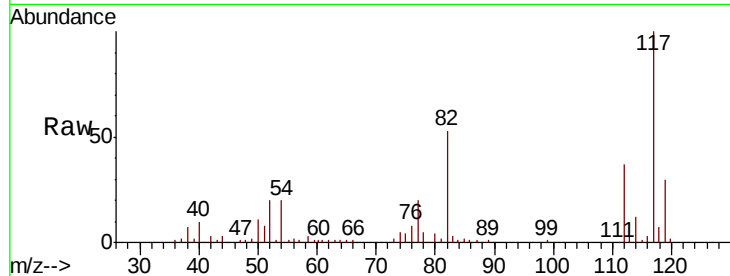




#65
Chlorobenzene
Concen: 2.074 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

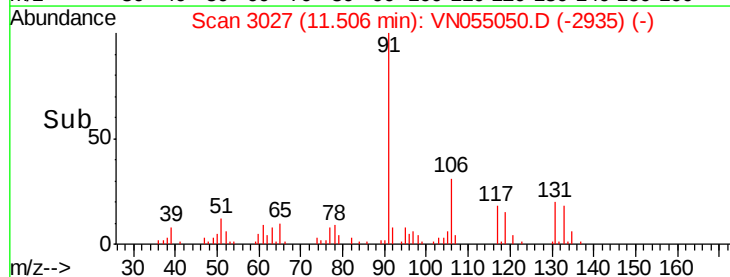
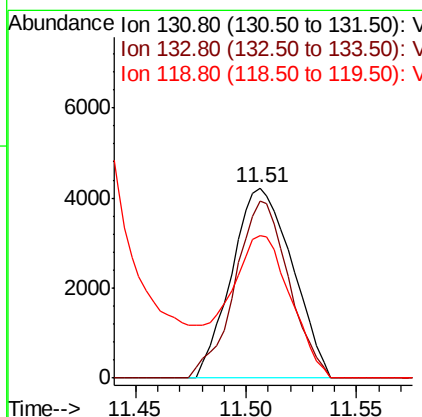
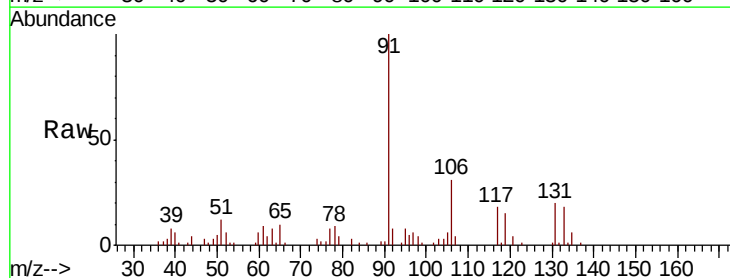
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

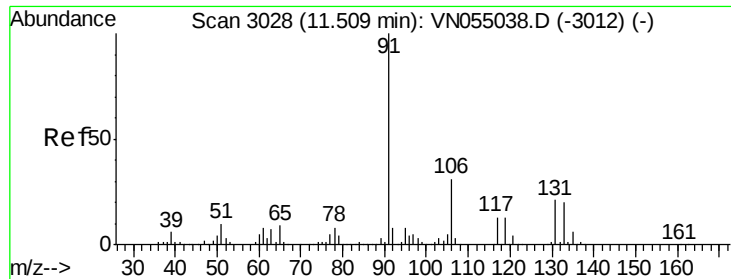
Tot Ion:112 Resp: 22556
Ion Ratio Lower Upper
112 100
114 31.4 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 2.014 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion:131 Resp: 8055
Ion Ratio Lower Upper
131 100
133 82.9 47.8 143.3
119 76.2 33.6 100.6

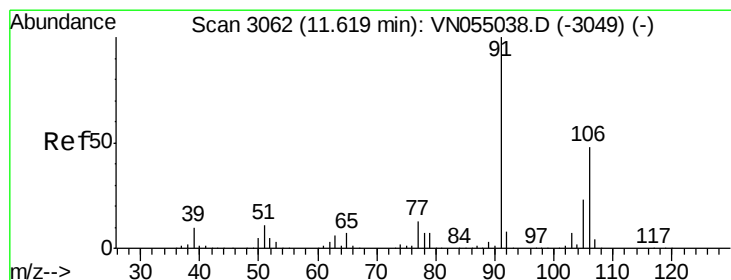
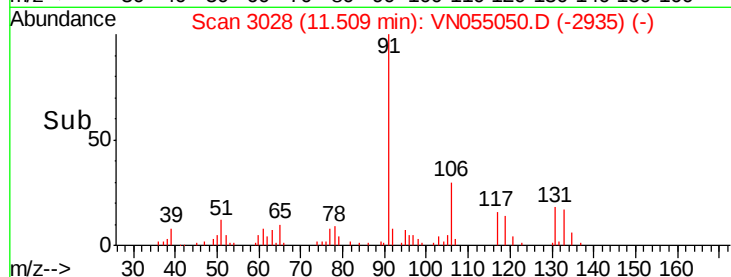
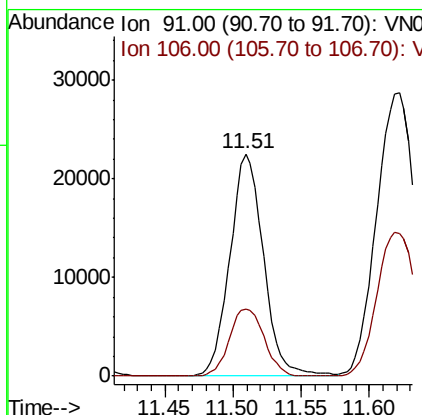
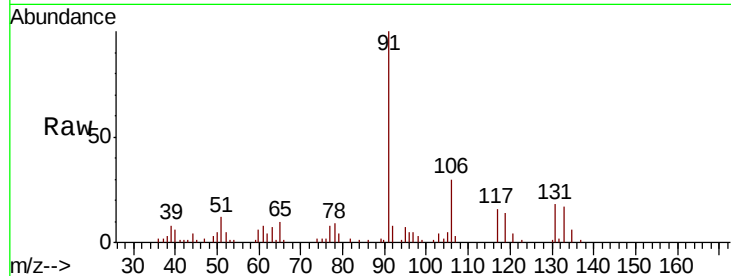




#67
Ethyl Benzene
Concen: 1.991 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

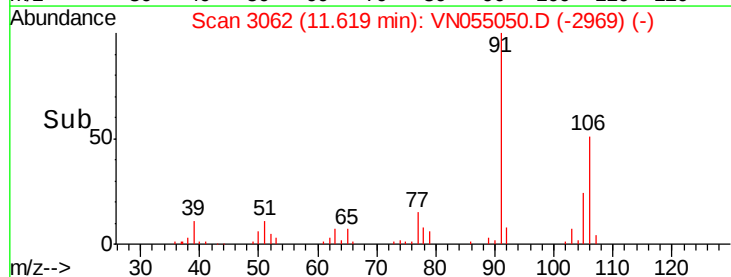
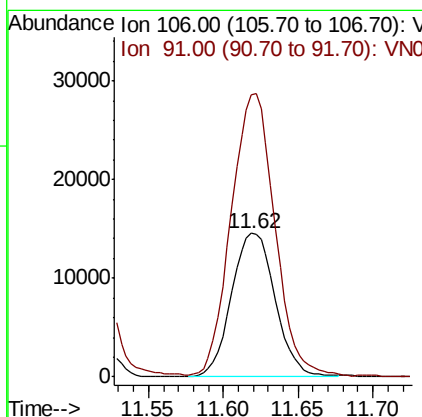
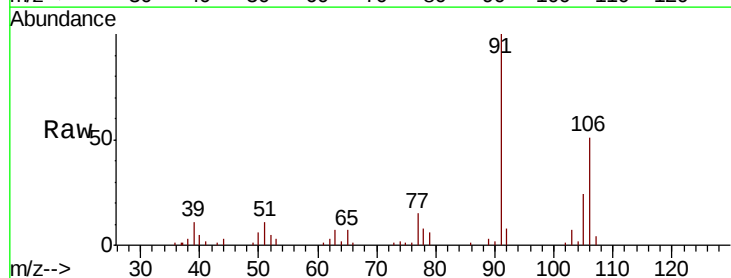
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

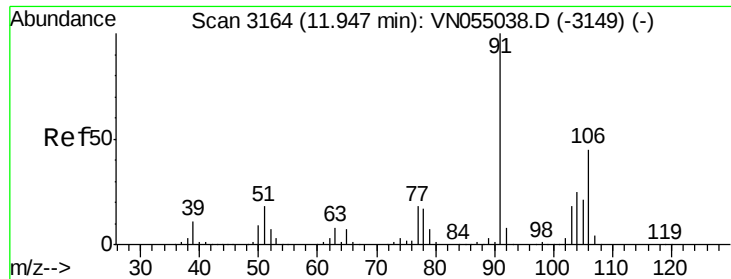
Tot Ion: 91 Resp: 38663
Ion Ratio Lower Upper
91 100
106 30.0 24.3 36.5



#68
m/p-Xylenes
Concen: 4.230 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 106 Resp: 29746
Ion Ratio Lower Upper
106 100
91 197.1 165.9 248.9

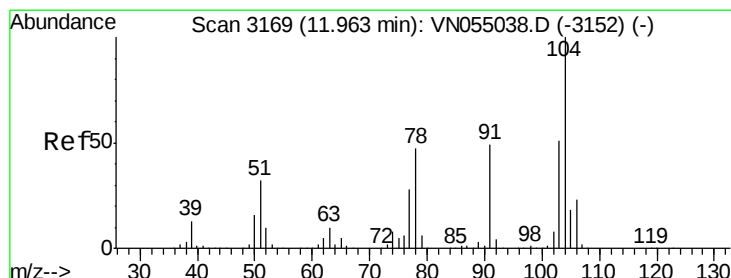
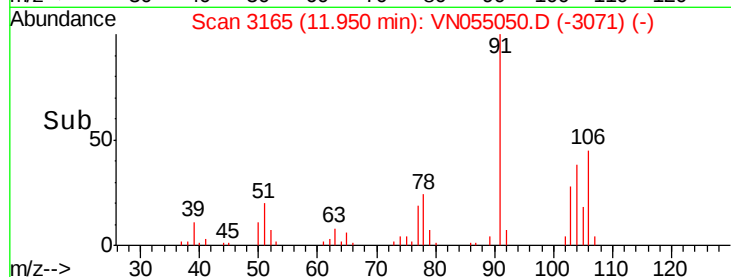
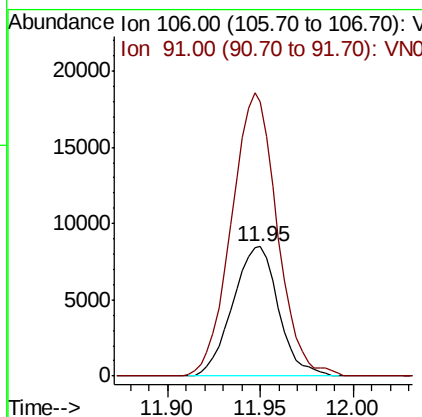
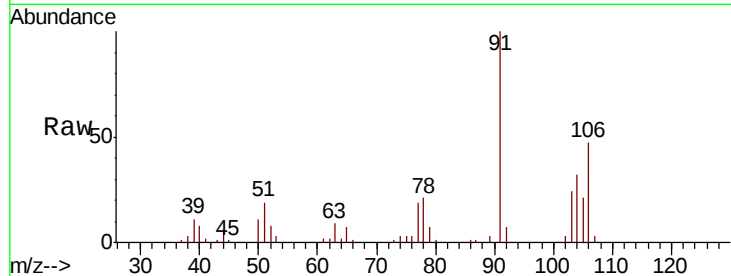




#69
o-Xylene
Concen: 2.135 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

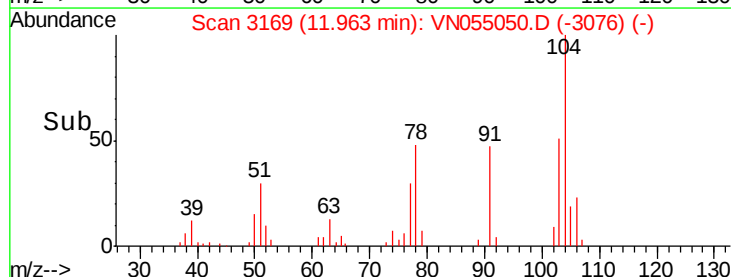
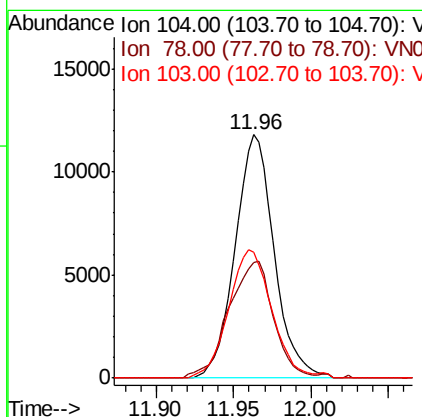
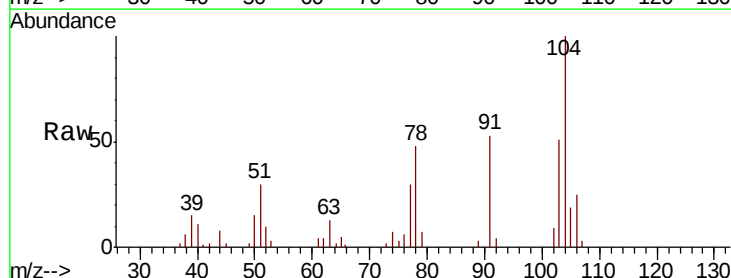
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

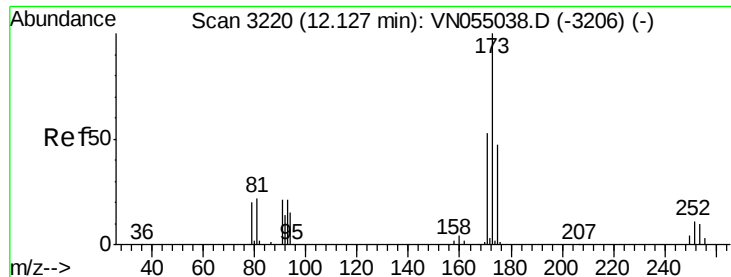
Tot Ion:106 Resp: 14539
Ion Ratio Lower Upper
106 100
91 217.8 109.9 329.8



#70
Styrene
Concen: 1.880 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion:104 Resp: 20729
Ion Ratio Lower Upper
104 100
78 55.0 40.3 60.5
103 58.3 44.3 66.5





#71

Bromoform

Concen: 1.727 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

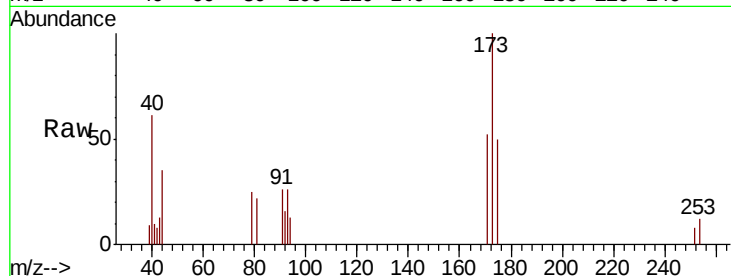
Tot Ion:173 Resp: 3959

Ion Ratio Lower Upper

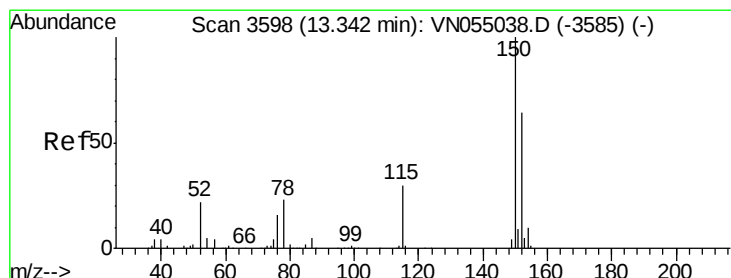
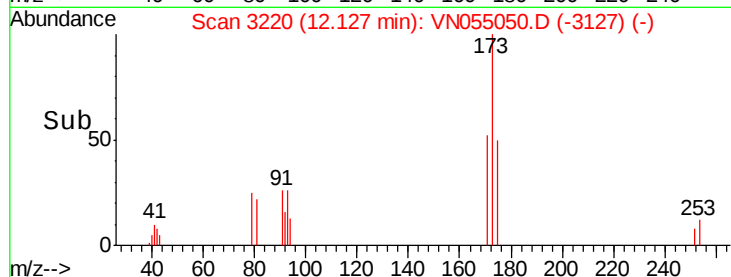
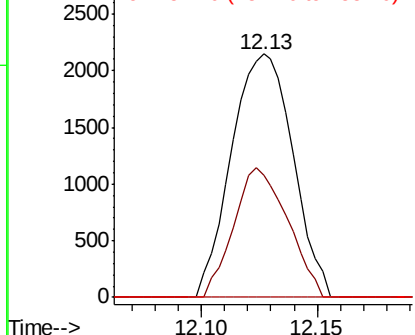
173 100

175 46.8 24.3 73.0

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

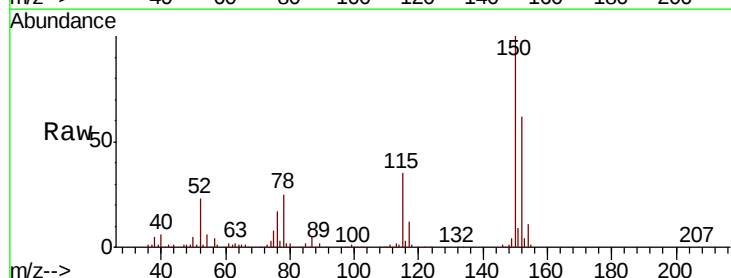
Tgt Ion:152 Resp: 172415

Ion Ratio Lower Upper

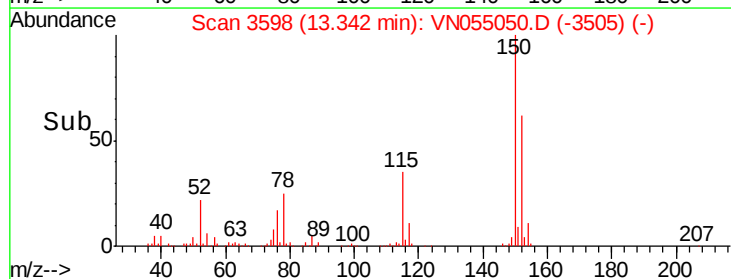
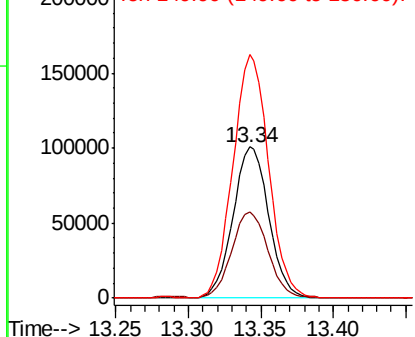
152 100

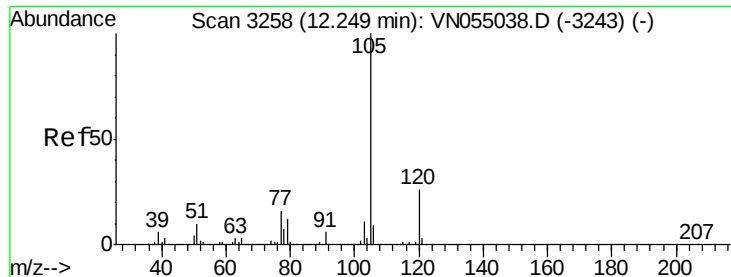
115 58.1 28.5 85.6

150 160.3 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

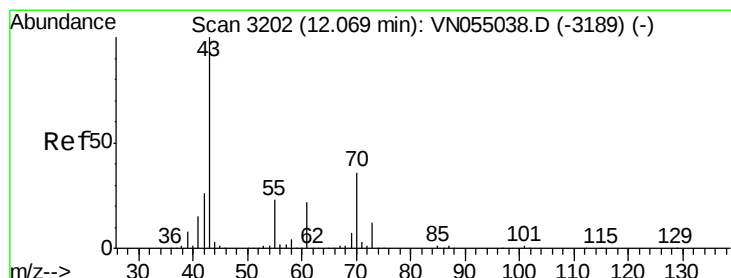
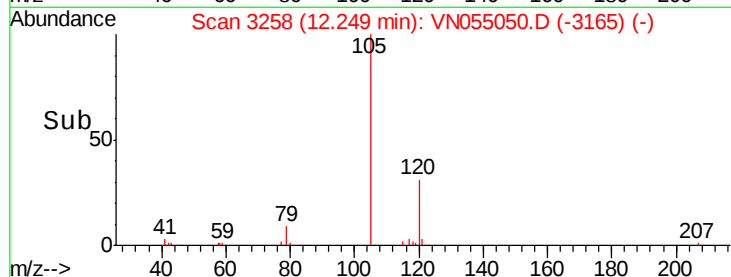
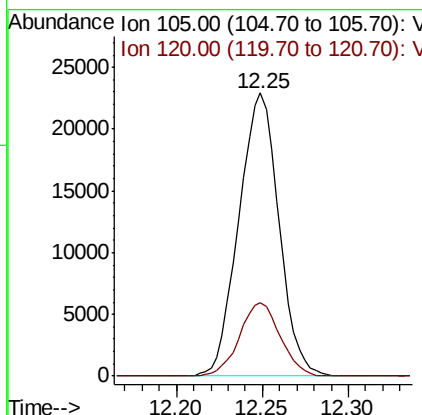
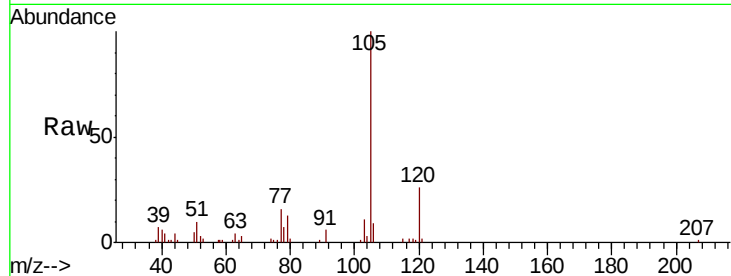




#73
Isopropylbenzene
Concen: 2.421 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

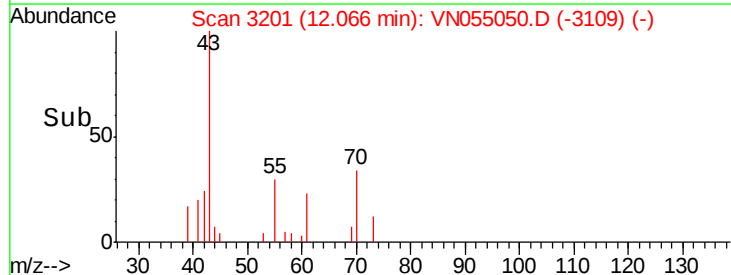
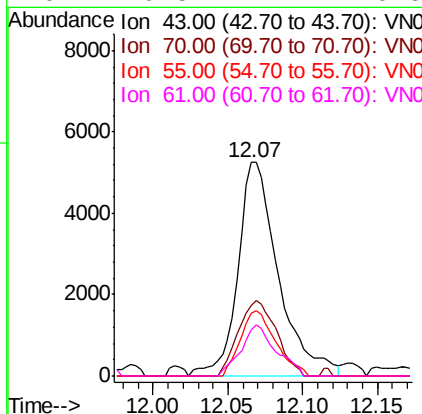
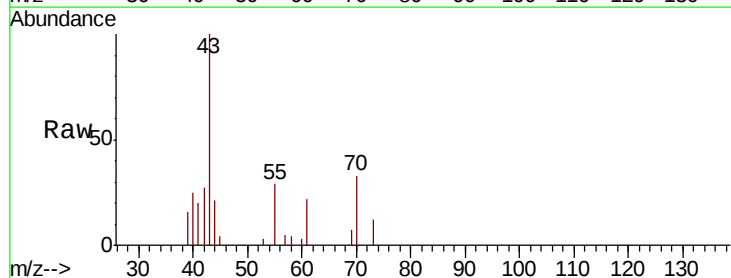
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

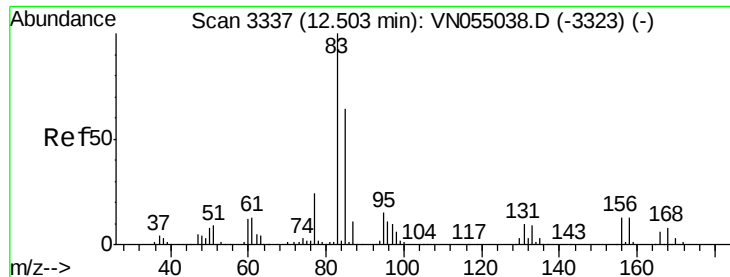
Tot Ion:105 Resp: 37046
Ion Ratio Lower Upper
105 100
120 26.4 13.3 39.9



#74
N-ethyl acetate
Concen: 2.308 ug/l
RT: 12.07 min Scan# 3201
Delta R.T. -0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion: 43 Resp: 9940
Ion Ratio Lower Upper
43 100
70 32.8 29.4 44.0
55 26.5 19.0 28.4
61 20.5 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 2.194 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

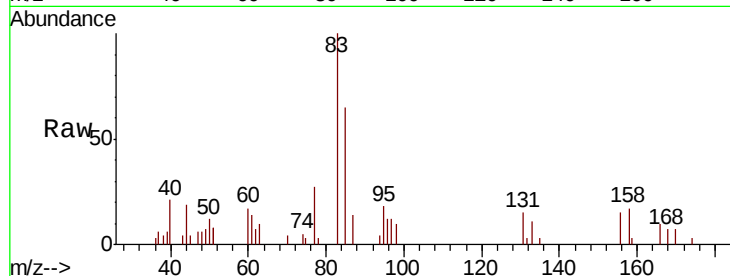
Tot Ion: 83 Resp: 8980

Ion Ratio Lower Upper

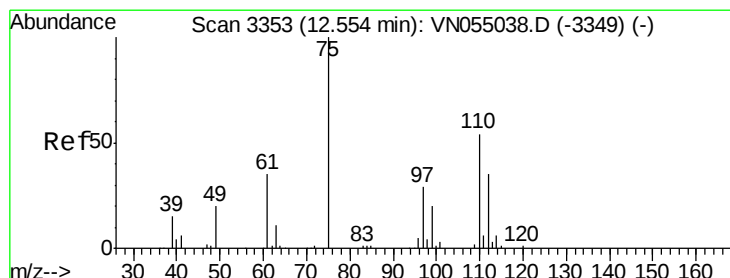
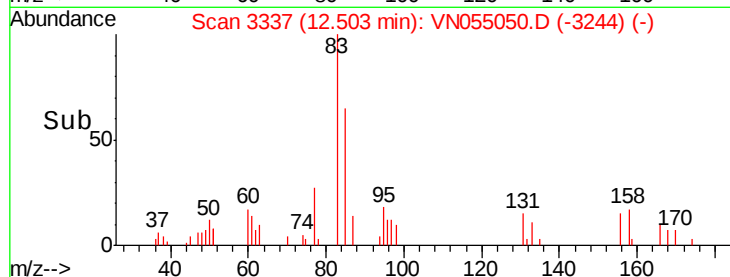
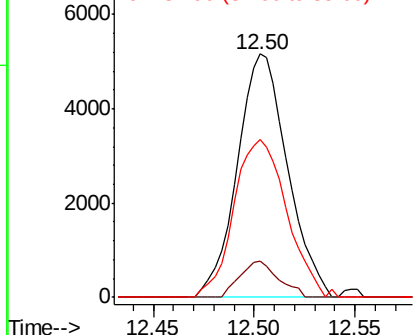
83 100

131 11.5 5.0 15.0

85 68.3 32.3 96.9



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 3.662 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN055050.D

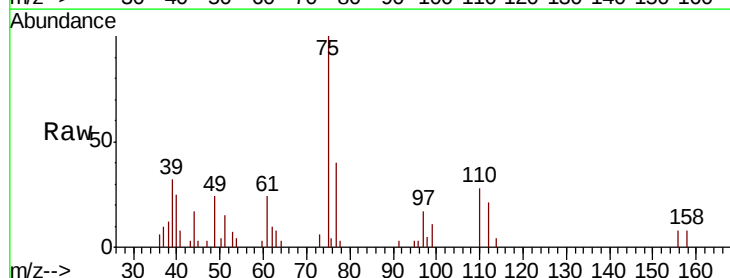
Acq: 15 Apr 2019 18:41

Tgt Ion: 75 Resp: 11355

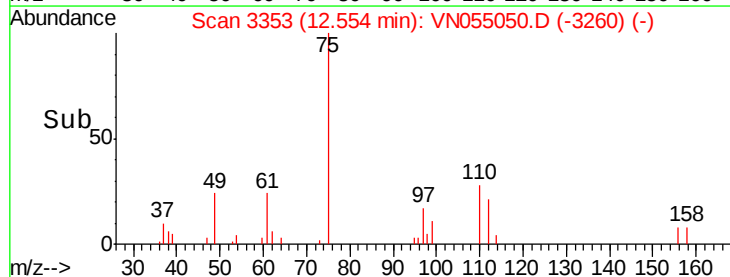
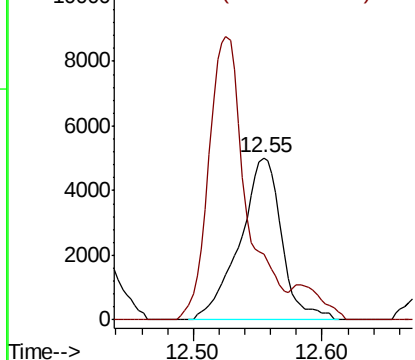
Ion Ratio Lower Upper

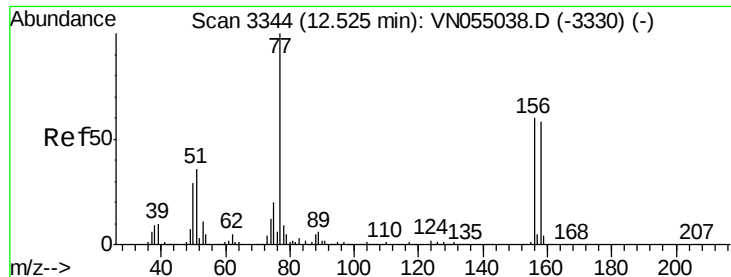
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 2.327 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

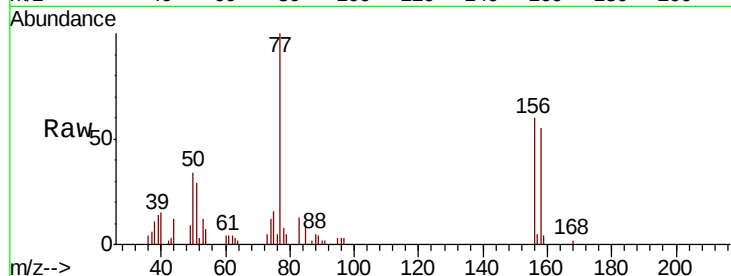
Tot Ion:156 Resp: 8876

Ion Ratio Lower Upper

156 100

77 200.7 97.2 291.5

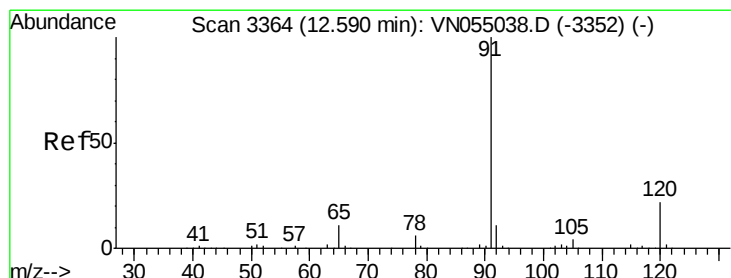
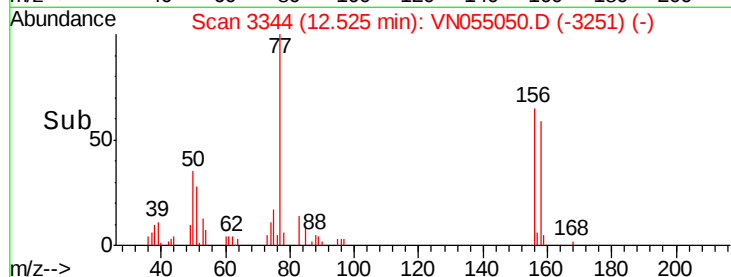
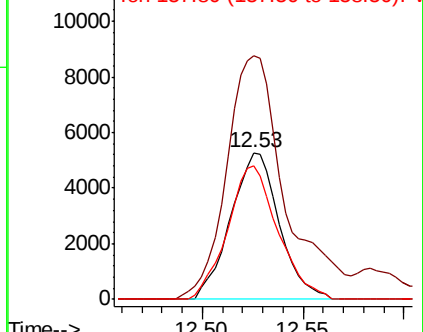
158 94.1 48.6 145.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.294 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055050.D

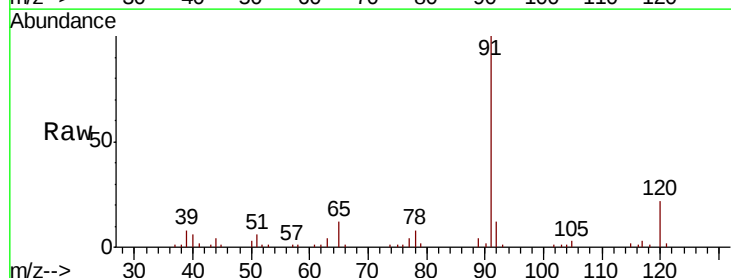
Acq: 15 Apr 2019 18:41

Tgt Ion: 91 Resp: 37912

Ion Ratio Lower Upper

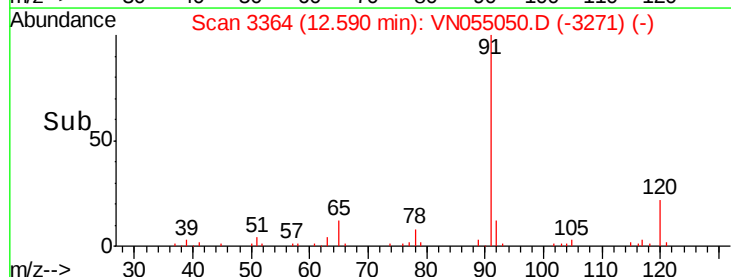
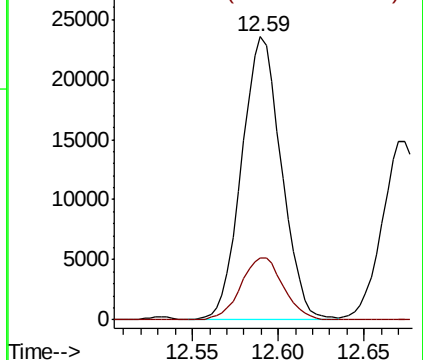
91 100

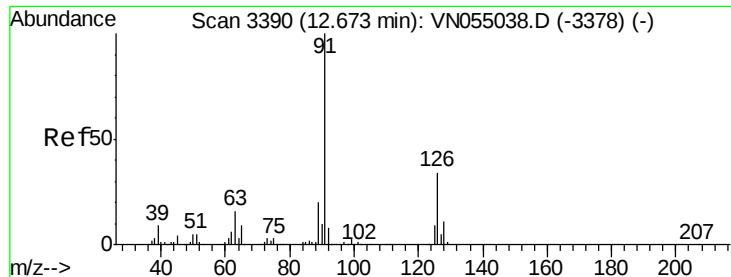
120 23.2 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

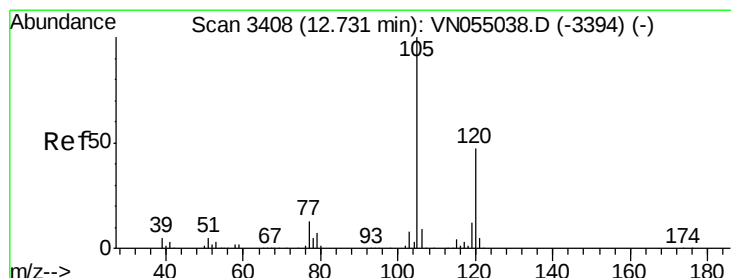
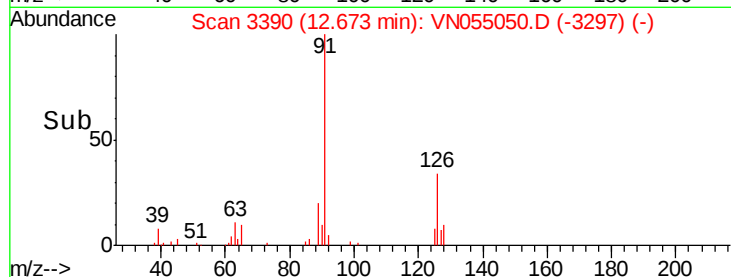
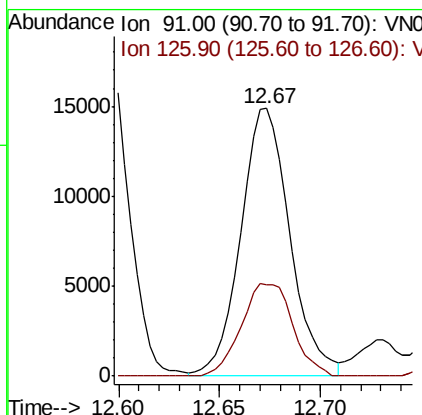
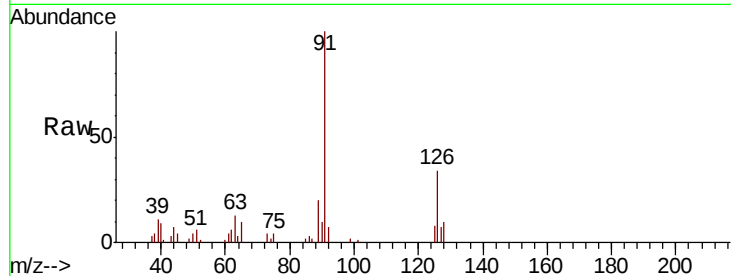




#79
 2-Chlorotoluene
 Concen: 2.471 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

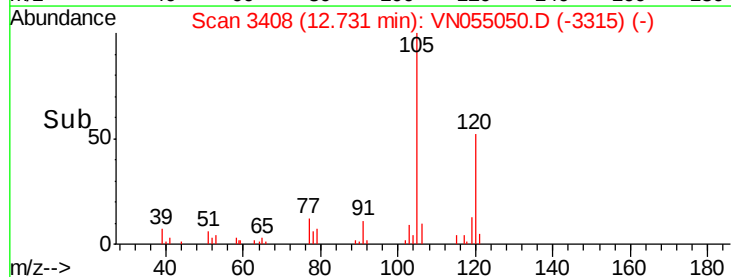
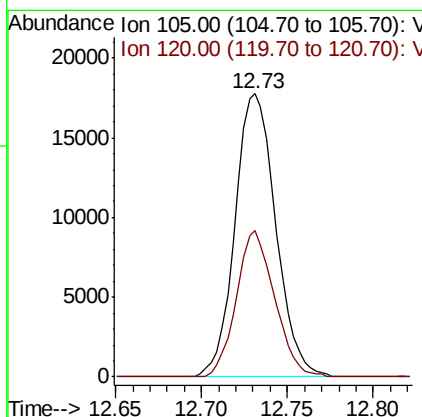
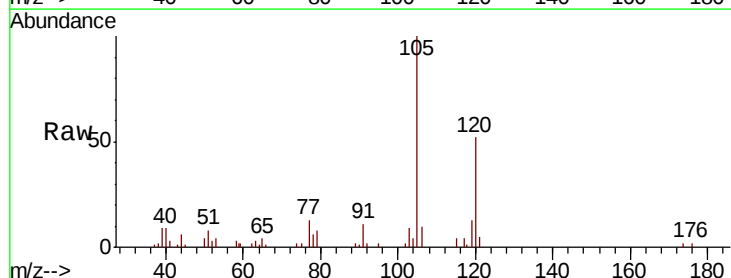
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

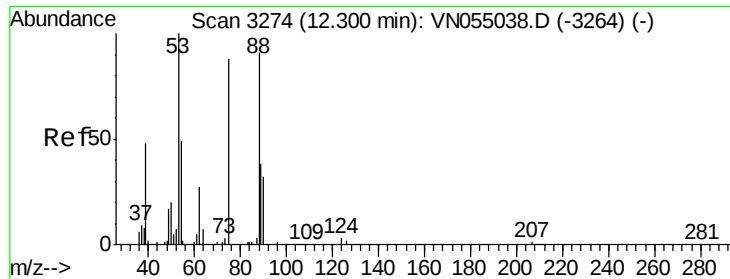
Tot Ion: 91 Resp: 25481
 Ion Ratio Lower Upper
 91 100
 126 36.1 17.1 51.2



#80
 1,3,5-Trimethylbenzene
 Concen: 2.374 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion: 105 Resp: 29317
 Ion Ratio Lower Upper
 105 100
 120 48.3 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 143.964 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

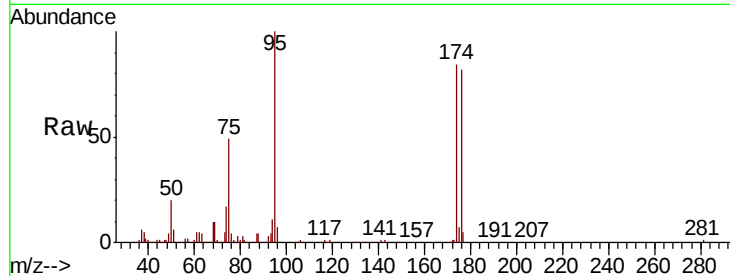
Tot Ion: 75 Resp: 111620

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

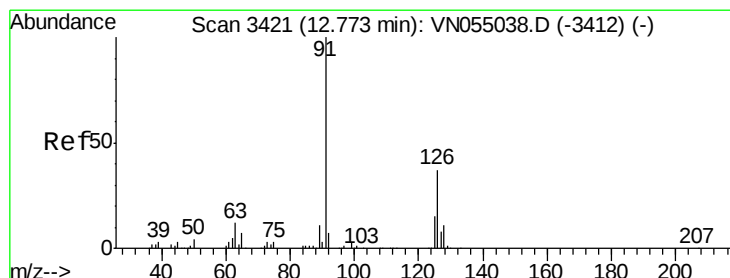
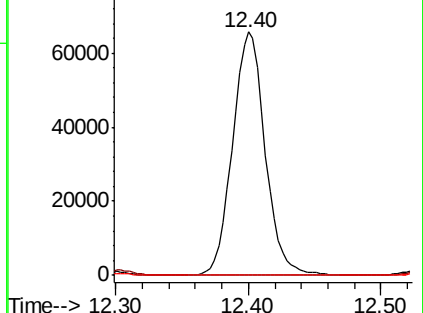
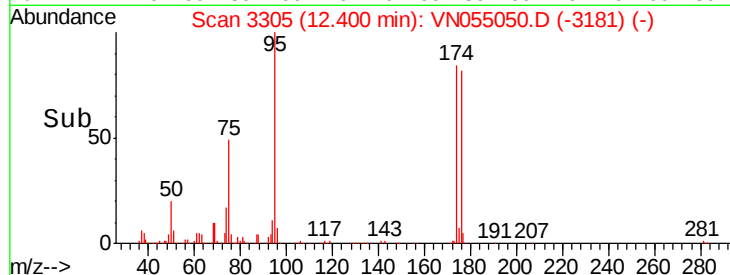
89 0.0 38.6 57.8#



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: 2.312 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN055050.D

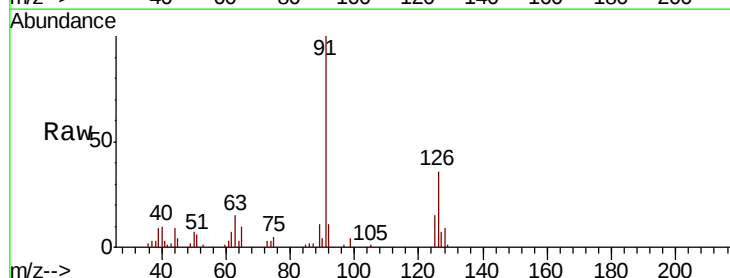
Acq: 15 Apr 2019 18:41

Tgt Ion: 91 Resp: 22239

Ion Ratio Lower Upper

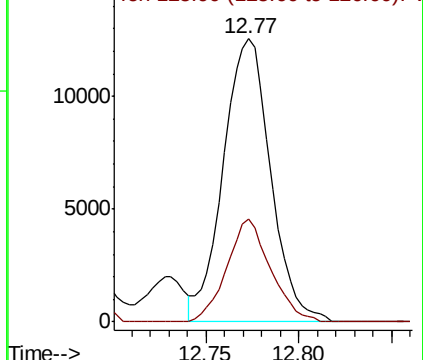
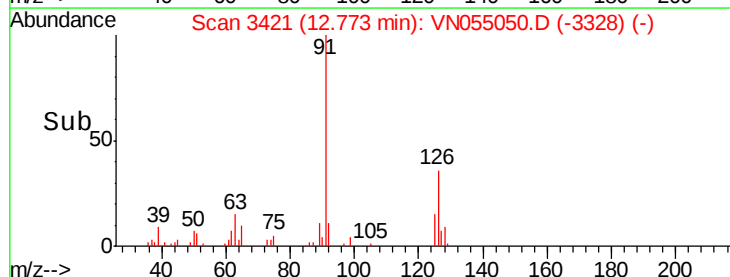
91 100

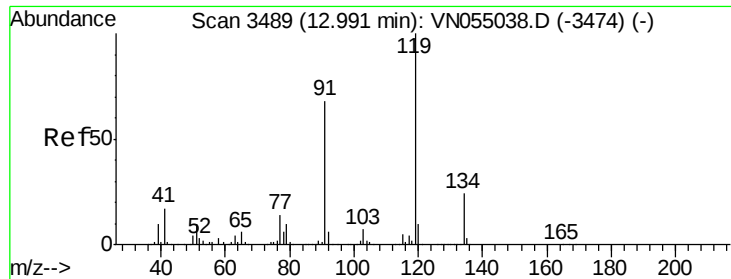
126 33.6 16.4 49.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

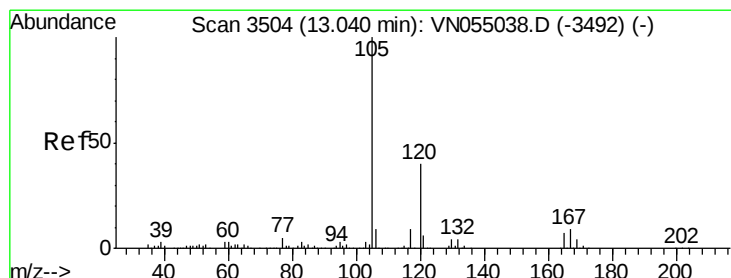
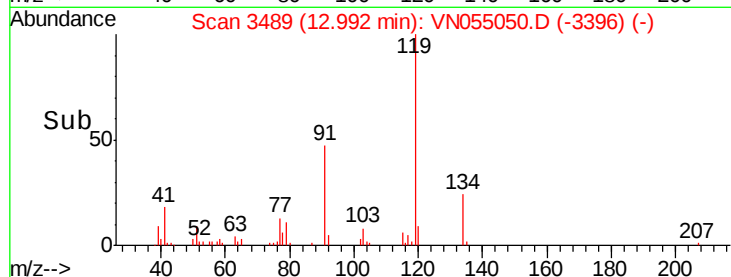
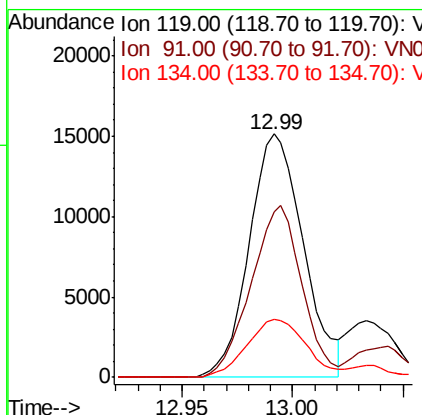
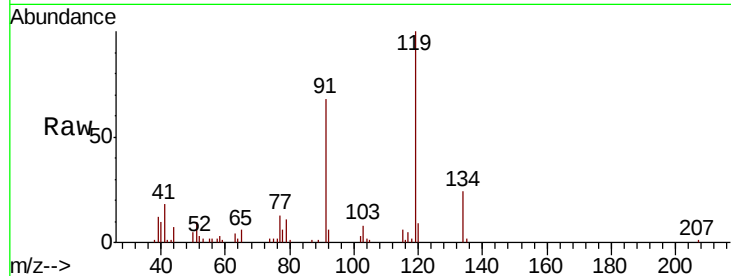




#83
tert-Butylbenzene
Concen: 2.477 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

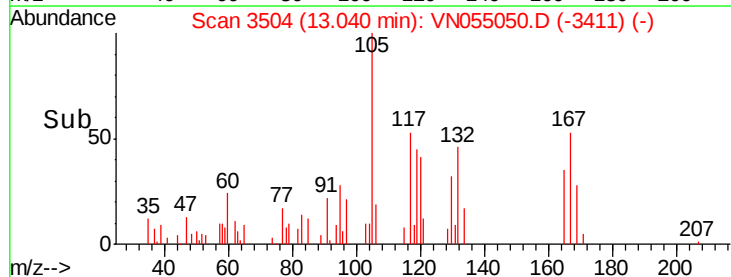
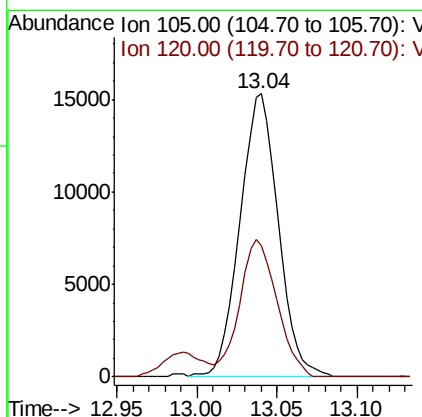
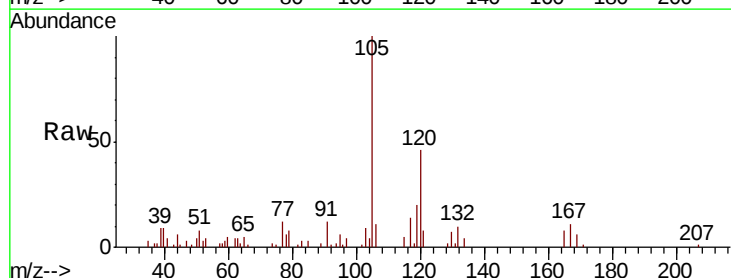
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT2-2019

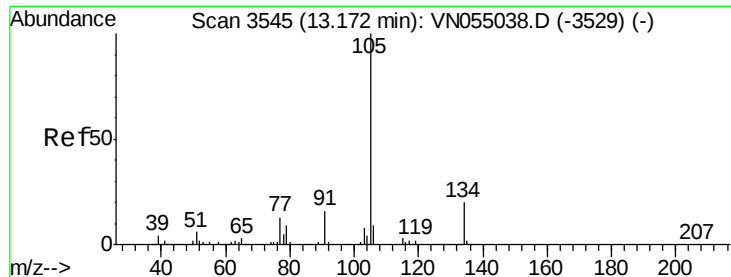
Tot Ion:119 Resp: 25827
Ion Ratio Lower Upper
119 100
91 66.1 33.3 99.8
134 25.8 12.3 36.9



#84
1,2,4-Trimethylbenzene
Concen: 2.147 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055050.D
Acq: 15 Apr 2019 18:41

Tgt Ion:105 Resp: 25117
Ion Ratio Lower Upper
105 100
120 47.1 22.4 67.3

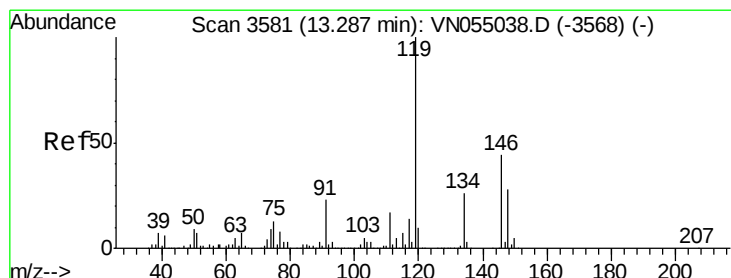
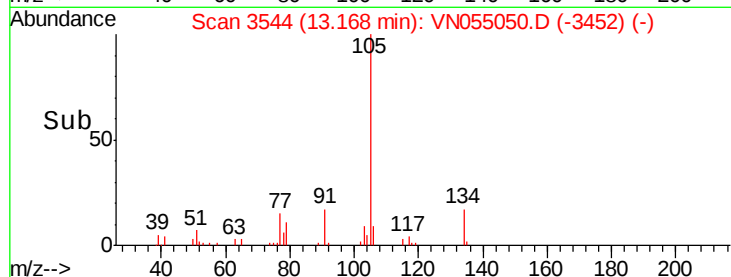
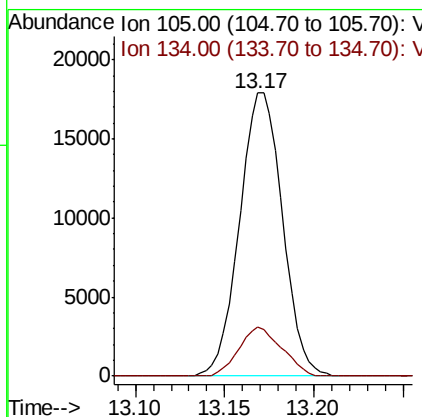
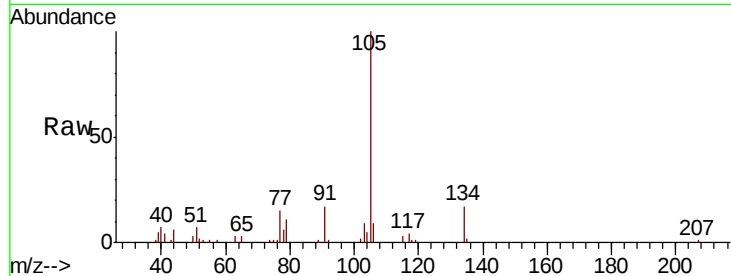




#85
 sec-Butylbenzene
 Concen: 2.261 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

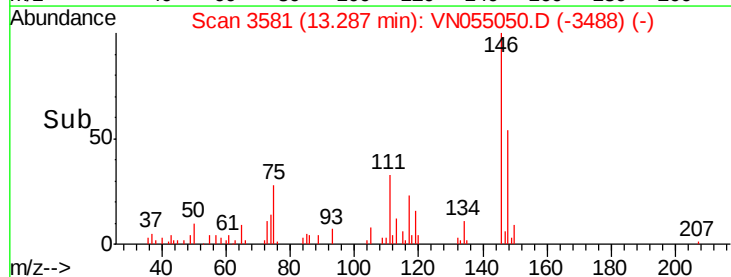
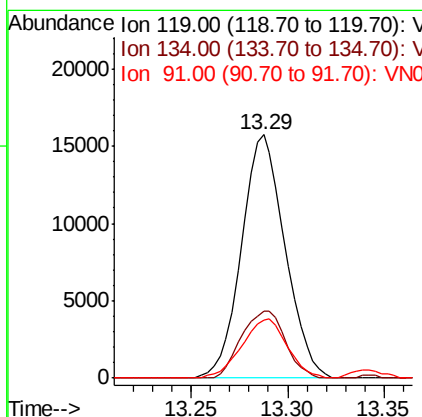
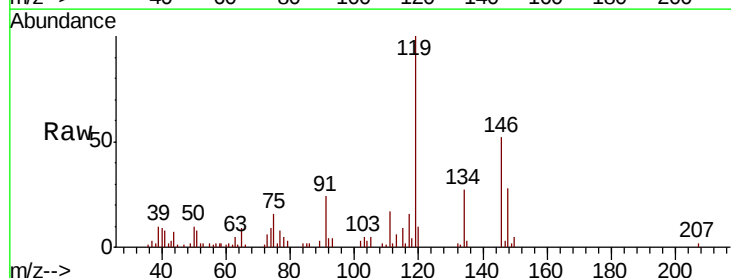
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

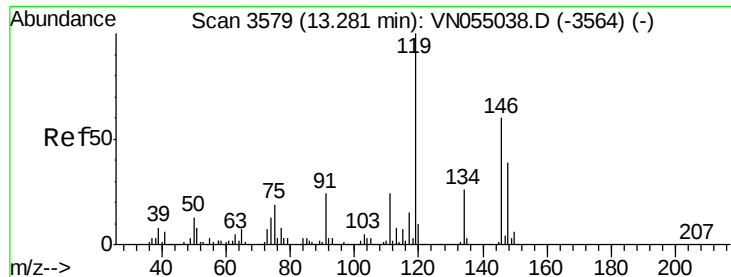
Tot Ion:105 Resp: 30042
 Ion Ratio Lower Upper
 105 100
 134 17.3 9.8 29.3



#86
 p-Isopropyltoluene
 Concen: 2.157 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion:119 Resp: 24582
 Ion Ratio Lower Upper
 119 100
 134 27.9 13.2 39.5
 91 25.2 11.7 35.1

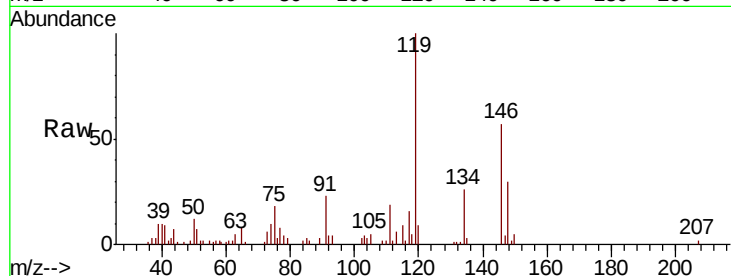




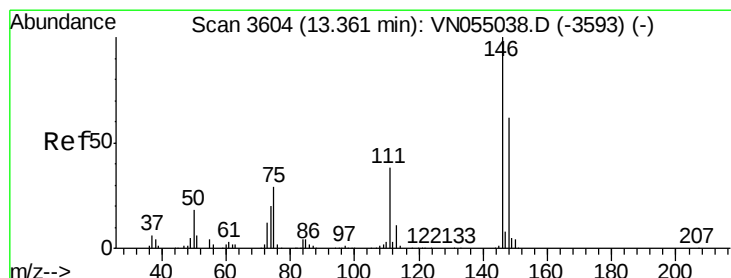
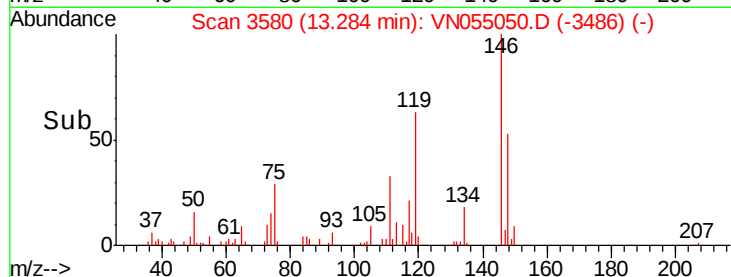
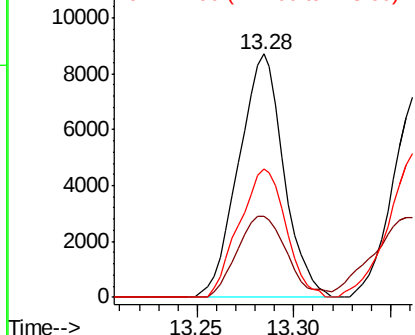
#87
 1,3-Dichlorobenzene
 Concen: 2.433 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion:146 Resp: 14107
 Ion Ratio Lower Upper
 146 100
 111 36.8 19.5 58.5
 148 54.4 31.6 94.7

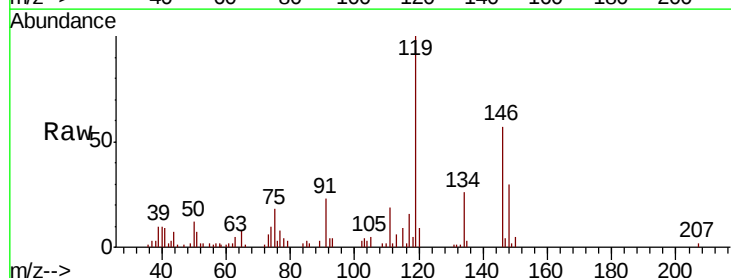


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

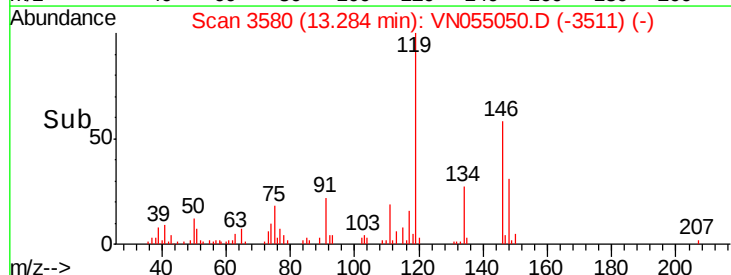
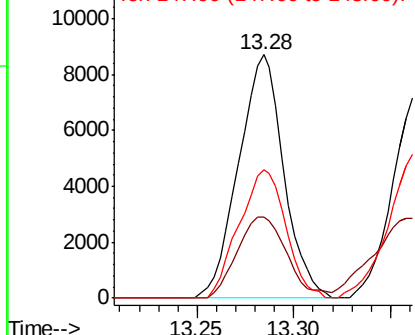


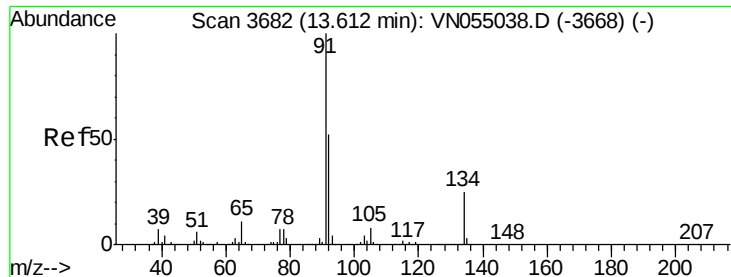
#88
 1,4-Dichlorobenzene
 Concen: 2.552 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion:146 Resp: 14107
 Ion Ratio Lower Upper
 146 100
 111 36.8 18.8 56.4
 148 54.4 32.4 97.2



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 2.116 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

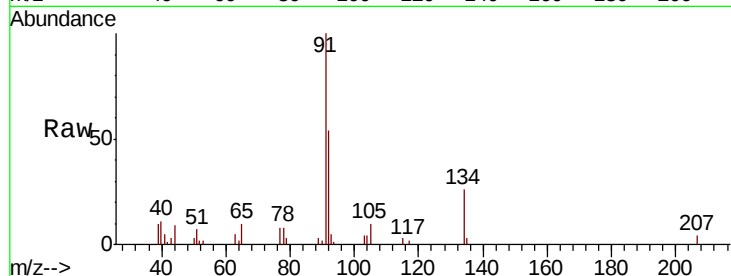
Tot Ion: 91 Resp: 17909

Ion Ratio Lower Upper

91 100

92 50.5 25.9 77.7

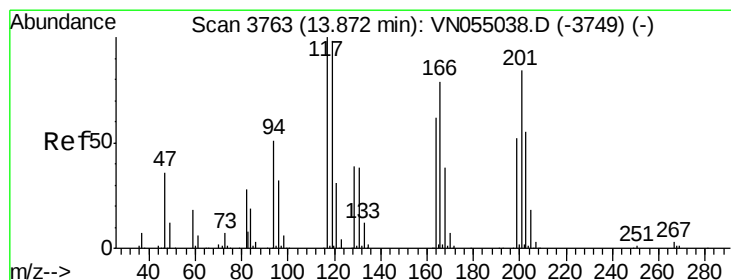
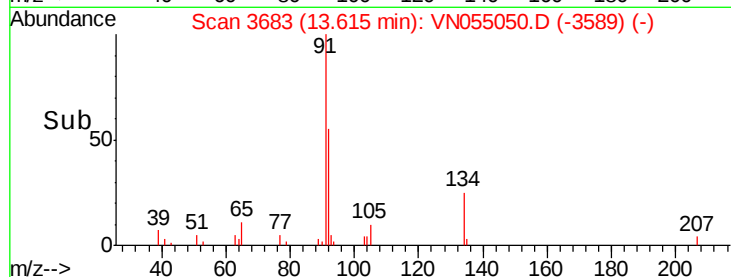
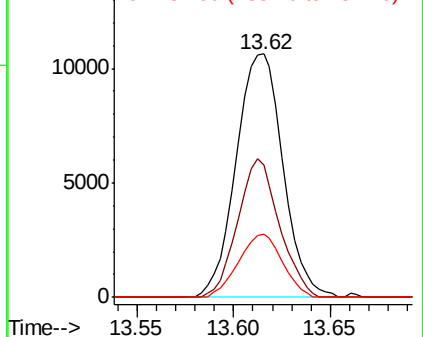
134 24.2 12.8 38.3



Abundance Ion 91.00 (90.70 to 91.70): VN055038.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN055038.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN055038.D (-3668) (-)



#90

Hexachloroethane

Concen: 2.135 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN055050.D

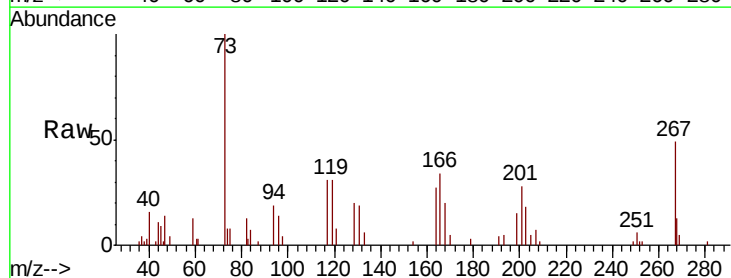
Acq: 15 Apr 2019 18:41

Tgt Ion: 117 Resp: 3959

Ion Ratio Lower Upper

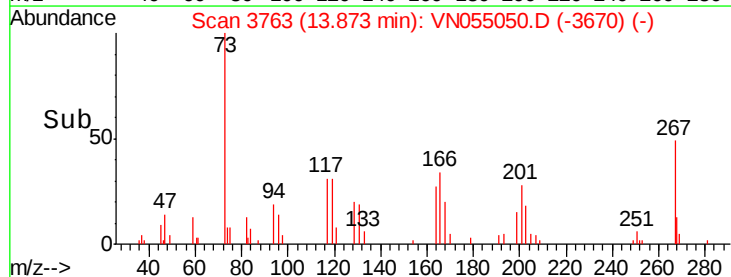
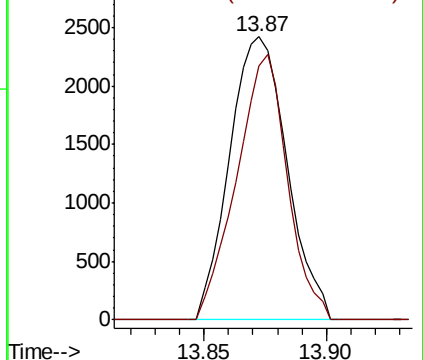
117 100

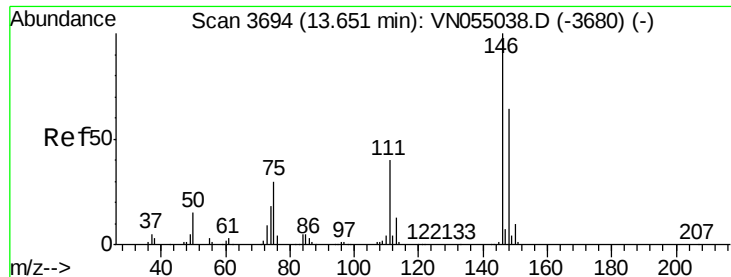
201 82.7 43.4 130.2



Abundance Ion 116.80 (116.50 to 117.50): VN055038.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN055038.D (-3749) (-)





#91

1,2-Dichlorobenzene

Concen: 2.011 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

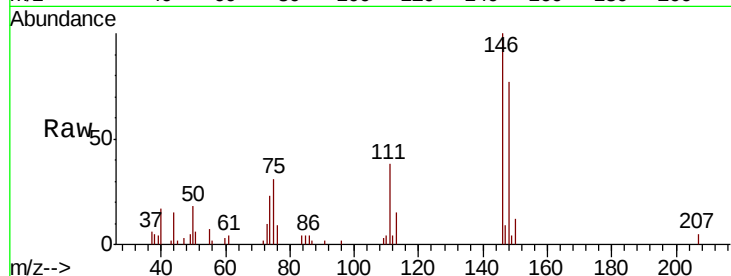
Tot Ion:146 Resp: 11733

Ion Ratio Lower Upper

146 100

111 42.8 20.3 60.9

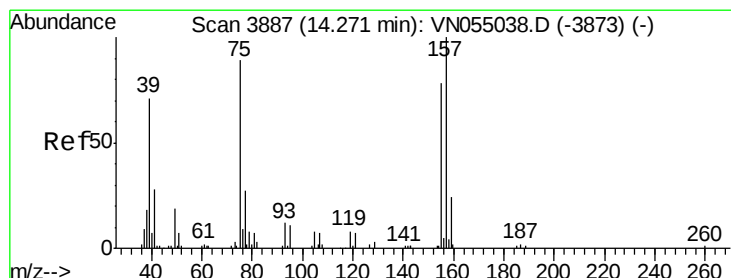
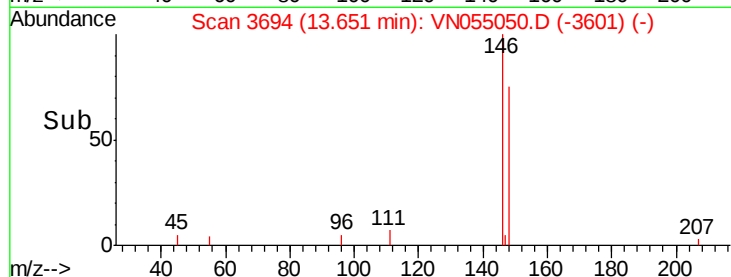
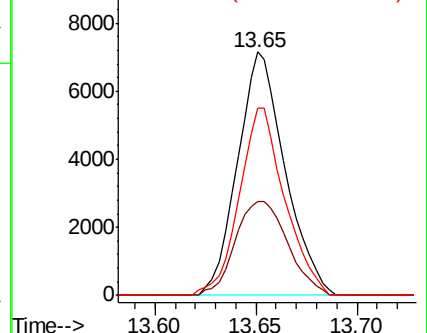
148 74.0 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.073 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. -0.01 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

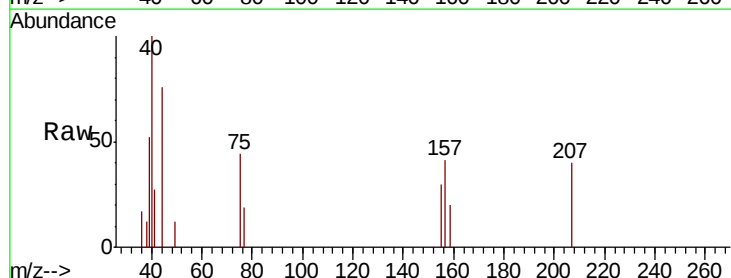
Tgt Ion: 75 Resp: 1045

Ion Ratio Lower Upper

75 100

155 66.7 42.0 126.0

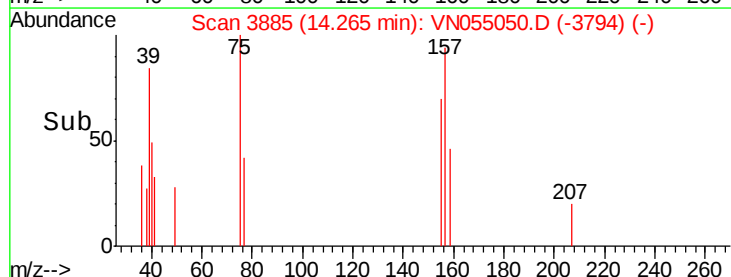
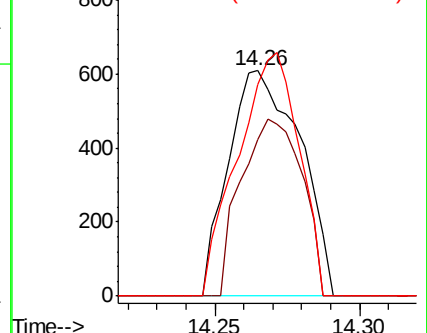
157 92.5 52.1 156.4

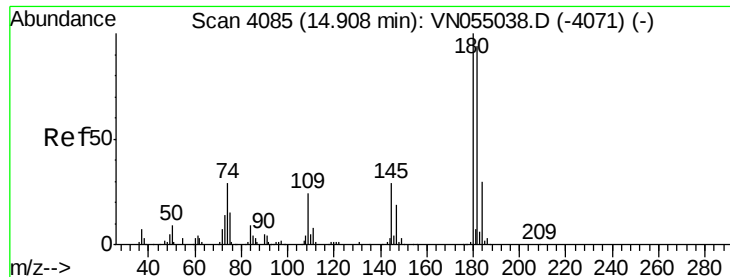


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

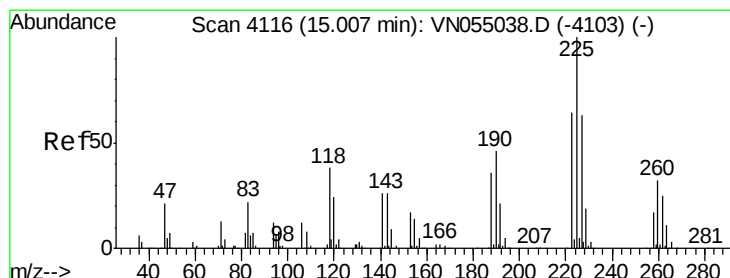
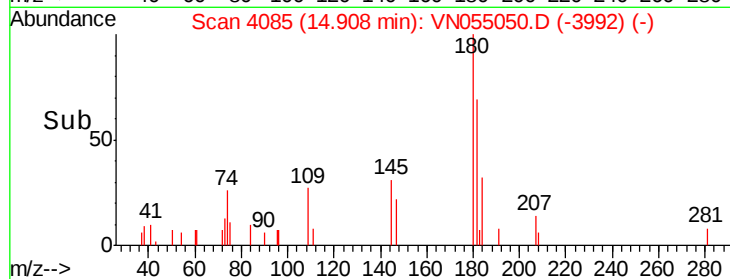
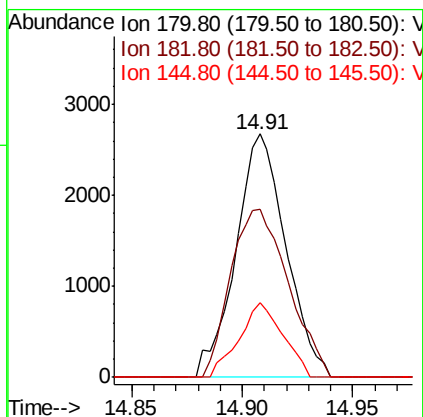
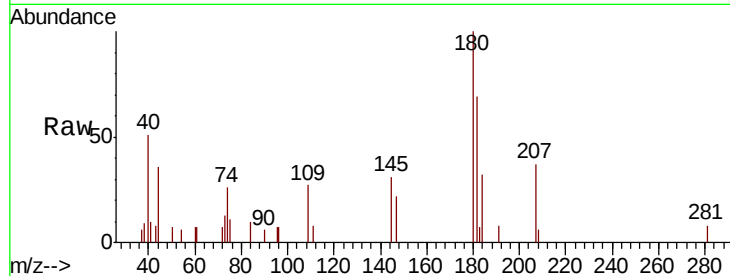




#93
 1,2,4-Trichlorobenzene
 Concen: 4.183 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

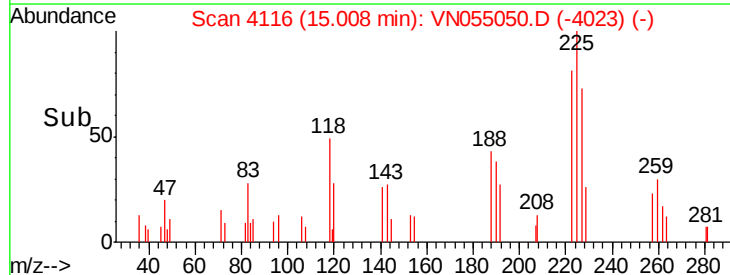
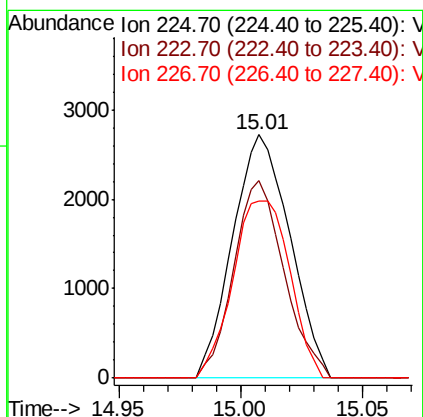
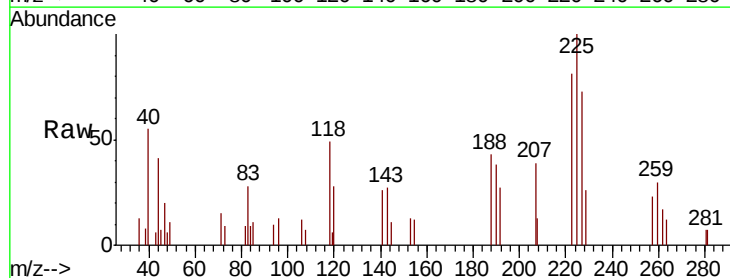
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

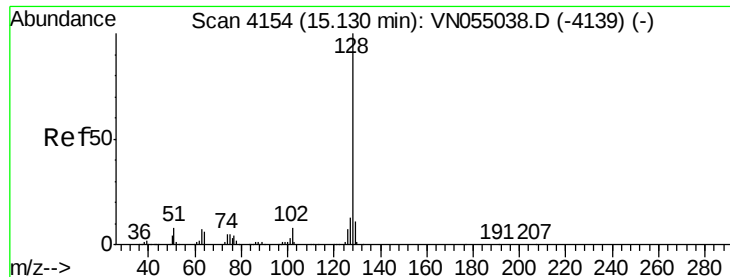
Tot Ion:180 Resp: 4207
 Ion Ratio Lower Upper
 180 100
 182 79.6 47.5 142.6
 145 26.9 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: 2.460 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055050.D
 Acq: 15 Apr 2019 18:41

Tgt Ion:225 Resp: 4432
 Ion Ratio Lower Upper
 225 100
 223 71.5 31.4 94.0
 227 72.6 32.6 97.7





#95

Naphthalene

Concen: 4.327 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT2-2019

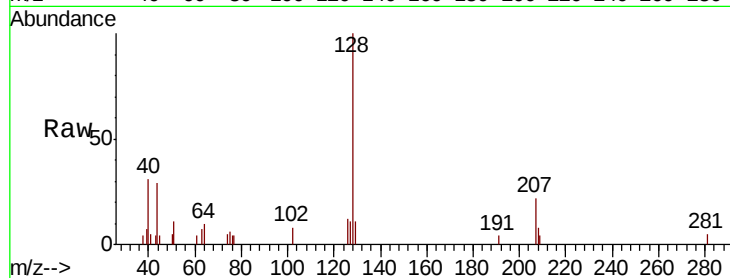
Tot Ion:128 Resp: 8218

Ion Ratio Lower Upper

128 100

127 12.1 10.1 15.1

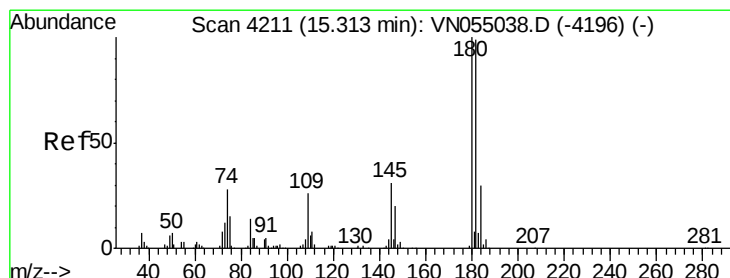
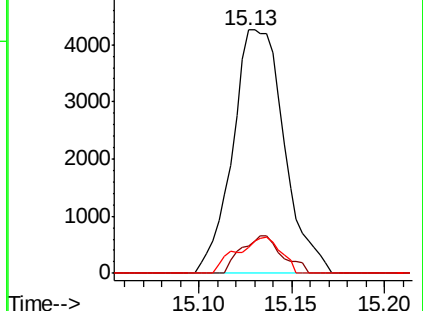
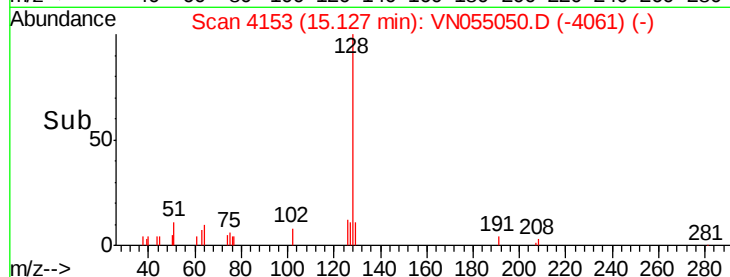
129 12.6 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.853 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055050.D

Acq: 15 Apr 2019 18:41

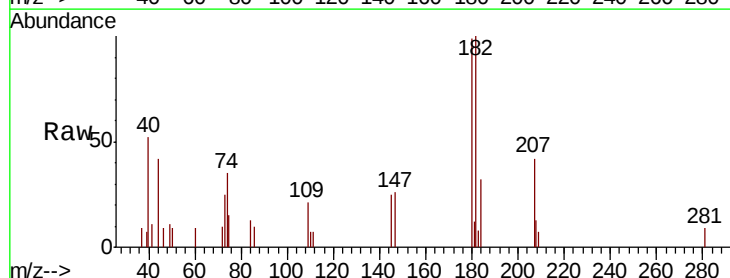
Tgt Ion:180 Resp: 4169

Ion Ratio Lower Upper

180 100

182 99.3 48.0 144.0

145 27.1 15.3 45.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

