

Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN012418\
 Data File : VN046547.D
 Acq On : 24 Jan 2018 16:10
 Operator : MD\SY
 Sample : J1161-07 LOD/MDL 2.0PPB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

Quant Time: Jan 25 03:10:26 2018
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\624N012418W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 24 12:28:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	33795	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	212556	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	181908	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	96043	31.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.53%
60) 4-Bromofluorobenzene	12.41	95	92023	28.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.20%
63) Toluene-d8	10.09	98	269218	30.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.17%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	4259	1.94	ug/l	97
3) Chloromethane	2.06	50	8234	2.21	ug/l	97
4) Vinyl Chloride	2.18	62	7176	2.11	ug/l	98
5) Bromomethane	2.57	94	4278	2.34	ug/l	92
6) Chloroethane	2.71	64	4151	2.13	ug/l	# 86
7) Trichlorofluoromethane	3.01	101	7134	2.14	ug/l	100
8) Diethyl Ether	3.41	74	3261	2.03	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.76	101	4704	2.11	ug/l	99
10) 1,1-Dichloroethene	3.73	96	5289	2.35	ug/l	89
11) Methyl Iodide	3.95	142	2087	1.12	ug/l	# 85
12) Methyl Acetate	4.33	43	5664	2.21	ug/l	93
13) Acrolein	3.61	56	3828	12.14	ug/l	99
14) Acrylonitrile	5.00	53	11512	10.77	ug/l	97
15) Acetone	3.82	58	3420	10.61	ug/l	72
16) Carbon Disulfide	4.05	76	16222	2.16	ug/l	97
17) Allyl chloride	4.32	41	9820	1.87	ug/l	99
18) Methylene Chloride	4.55	84	5936	2.22	ug/l	93
19) trans-1,2-Dichloroethene	5.04	96	5729	2.43	ug/l	97
20) Diisopropyl ether	5.96	45	20971	2.16	ug/l	97
21) 1,1-Dichloroethane	5.85	63	11156	2.12	ug/l	# 96
22) cis-1,2-Dichloroethene	6.83	96	6255	2.28	ug/l	99
23) tert-Butyl Alcohol	4.75	59	115	0.45	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	15850	2.15	ug/l	# 75
25) Chloroform	7.37	83	9882	2.14	ug/l	98
26) Cyclohexane	7.65	56	11034	2.18	ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	7781	1.99	ug/l	97
30) 2-Butanone	6.85	43	14514	10.10	ug/l	# 95
31) 2,2-Dichloropropane	6.82	77	9245	2.11	ug/l	# 72
32) 1,1,1-Trichloroethane	7.57	97	8060	2.08	ug/l	95
33) Carbon Tetrachloride	7.77	117	6078	1.95	ug/l	97
34) Benzene	8.04	78	22629	2.02	ug/l	# 3
35) Methacrylonitrile	7.18	41	3234	1.92	ug/l	96
36) 1,2-Dichloroethane	8.13	62	8225	2.07	ug/l	# 93
37) Trichloroethene	8.84	130	4828	1.91	ug/l	96
38) Methylcyclohexane	9.08	83	9424	2.00	ug/l	97
39) 1,2-Dichloropropane	9.12	63	6435	1.99	ug/l	95
40) Dibromomethane	9.21	93	3231	1.97	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	7824	2.09	ug/l	95
42) Vinyl Acetate	5.90	43	71575	9.61	ug/l	99
43) Ethyl Acetate	6.93	43	6318	2.22	ug/l #	93
44) Isopropyl Acetate	8.17	43	10972	2.03	ug/l	96
45) 1,4-Dioxane	9.20	88	1140	39.79	ug/l #	91
46) Methyl methacrylate	9.20	41	5373	2.01	ug/l	96
47) n-amyl Acetate	12.08	43	9166	1.84	ug/l #	86
48) t-1,3-Dichloropropene	10.38	75	7689	1.85	ug/l	92
49) cis-1,3-Dichloropropene	9.84	75	8917	1.87	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	4923	2.10	ug/l	99
51) Ethyl methacrylate	10.43	69	7394	1.96	ug/l	95
52) 1,3-Dichloropropane	10.71	76	8660	1.96	ug/l	100
53) Dibromochloromethane	10.90	129	4267	1.78	ug/l	97
54) 1,2-Dibromoethane	11.01	107	4417	2.09	ug/l	94
55) 2-Chloroethyl vinyl ether	9.70	63	14940	9.32	ug/l	99
56) Bromoform	12.13	173	2701	1.82	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	30321	10.84	ug/l	99
59) 2-Hexanone	10.76	43	20086	10.14	ug/l	99
61) Tetrachloroethene	10.63	164	4897	2.40	ug/l	94
62) Toluene	10.16	91	23501	2.11	ug/l	99
64) Chlorobenzene	11.44	112	13002	2.00	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.52	131	4304	1.97	ug/l	97
66) Ethyl Benzene	11.52	91	27002	2.21	ug/l	100
67) m/p-Xylenes	11.62	106	18136	4.13	ug/l	99
68) o-Xylene	11.95	106	9138	2.15	ug/l	99
69) Styrene	11.97	104	15202	2.16	ug/l	99
70) Isopropylbenzene	12.26	105	23743	2.10	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.51	83	6428	2.20	ug/l	91
72) 1,2,3-Trichloropropane	12.56	75	7858	3.26	ug/l	50
73) Bromobenzene	12.53	156	4868	2.05	ug/l	96
74) n-propylbenzene	12.60	91	27320	1.92	ug/l	99
75) 2-Chlorotoluene	12.68	91	16891	2.04	ug/l	98
76) 1,3,5-Trimethylbenzene	12.74	105	19069	1.99	ug/l	98
77) t-1,4-Dichloro-2-butene	12.31	75	1785	1.96	ug/l	97
78) 4-Chlorotoluene	12.78	91	16435	1.94	ug/l	99
79) tert-butylbenzene	13.00	119	16299	2.04	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	19564	2.02	ug/l #	82
81) sec-Butylbenzene	13.18	105	22136	1.91	ug/l	100
82) p-Isopropyltoluene	13.30	119	18229	1.88	ug/l	98
83) 1,3-Dichlorobenzene	13.29	146	8980	2.05	ug/l	96
84) 1,4-Dichlorobenzene	13.37	146	9521	2.21	ug/l	99
85) n-Butylbenzene	13.62	91	16653	1.70	ug/l	98
86) Hexachloroethane	13.88	117	3382	1.88	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	9108	2.16	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	979	1.86	ug/l	90
89) 1,2,4-Trichlorobenzene	14.92	180	3360	1.35	ug/l	96
90) Hexachlorobutadiene	15.02	225	2373	1.79	ug/l	97
91) Naphthalene	15.14	128	10562	1.77	ug/l	97
92) 1,2,3-Trichlorobenzene	15.33	180	3152	1.32	ug/l	97

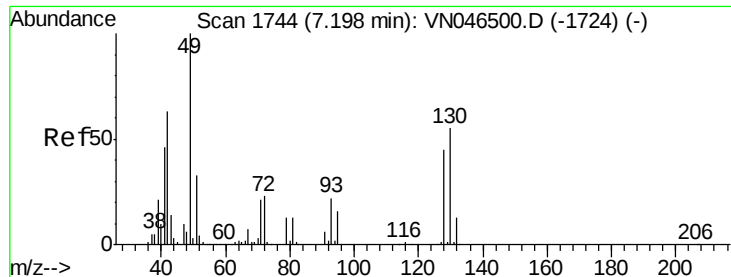
Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN012418\
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

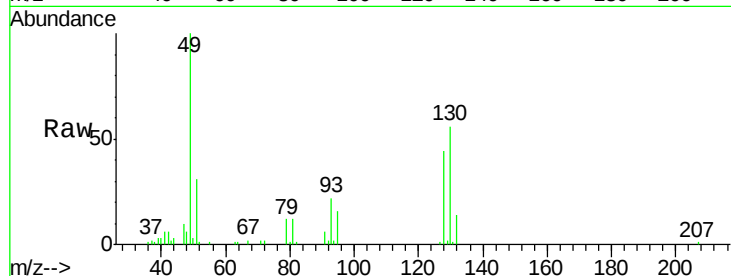
Tgt Ion:128 Resp: 33795

Ion Ratio Lower Upper

128 100

49 227.8 0.0 566.8

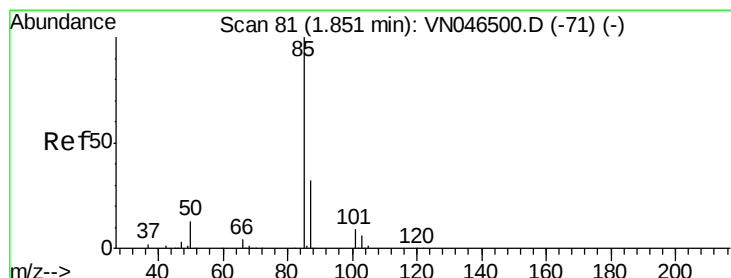
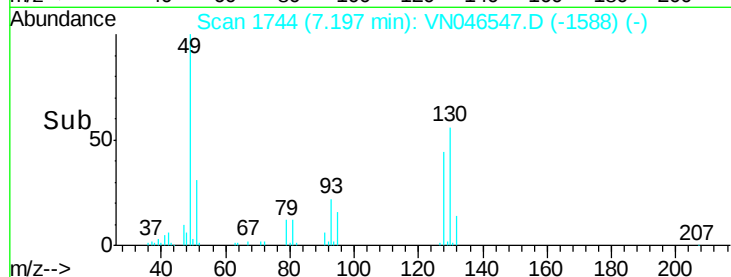
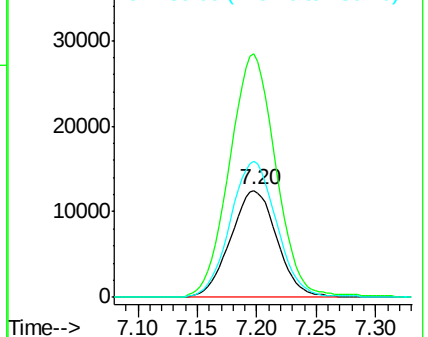
130 126.7 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.94 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN046547.D

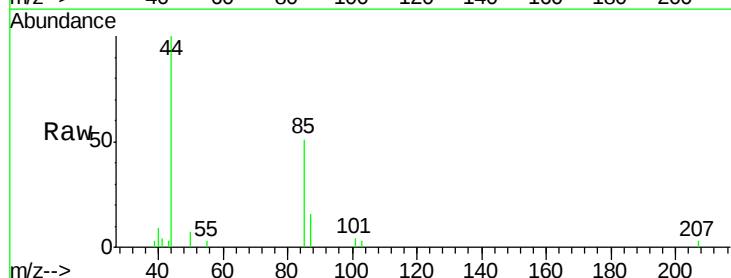
Acq: 24 Jan 2018 16:10

Tgt Ion: 85 Resp: 4259

Ion Ratio Lower Upper

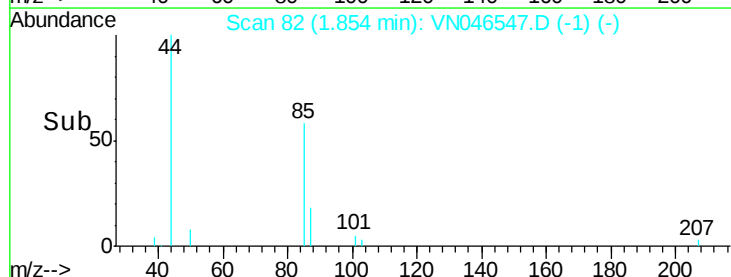
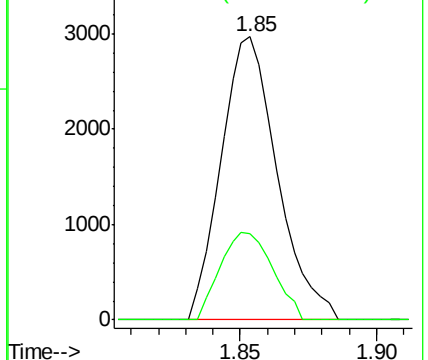
85 100

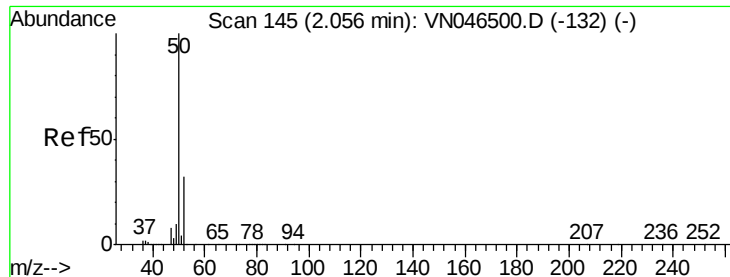
87 30.6 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 2.21 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

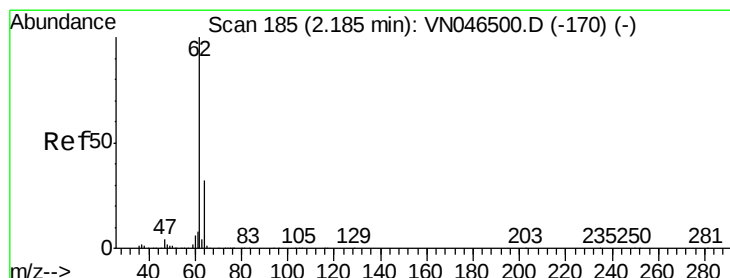
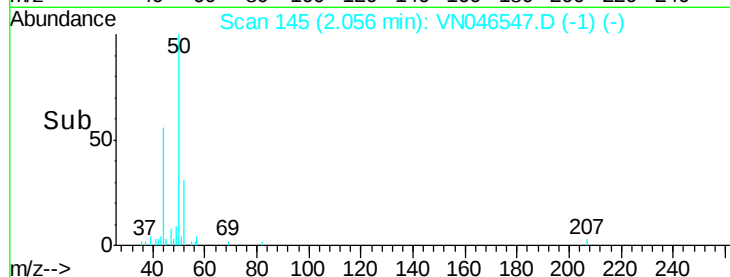
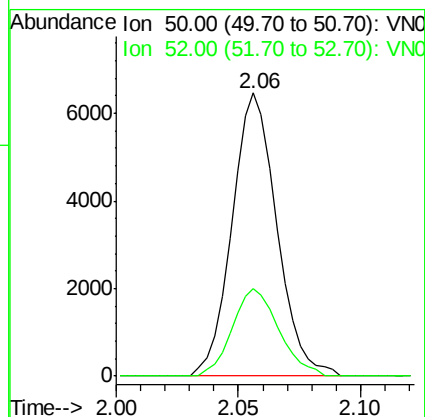
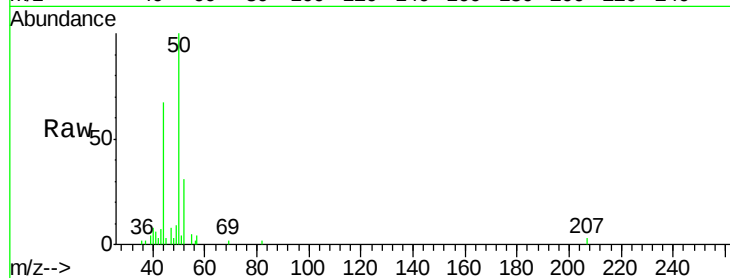
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 50 Resp: 8234

Ion Ratio Lower Upper

50 100

52 30.8 25.8 38.6



#4

Vinyl Chloride

Concen: 2.11 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN046547.D

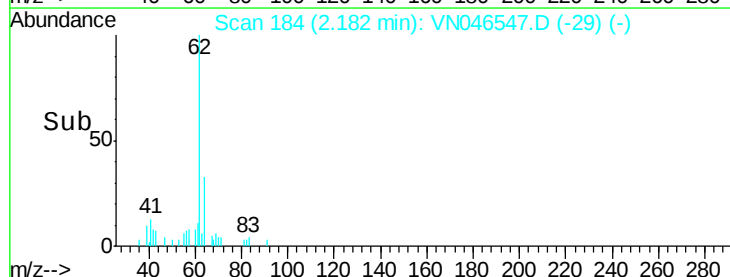
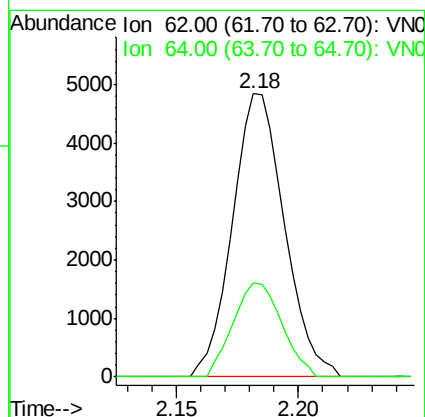
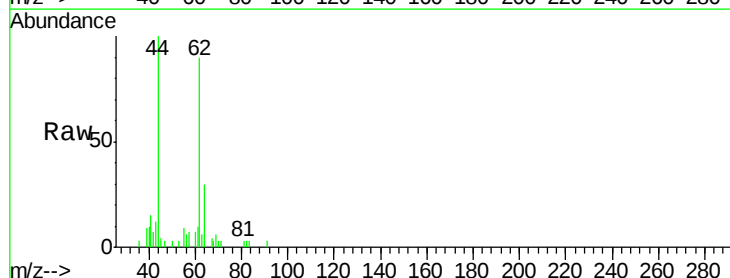
Acq: 24 Jan 2018 16:10

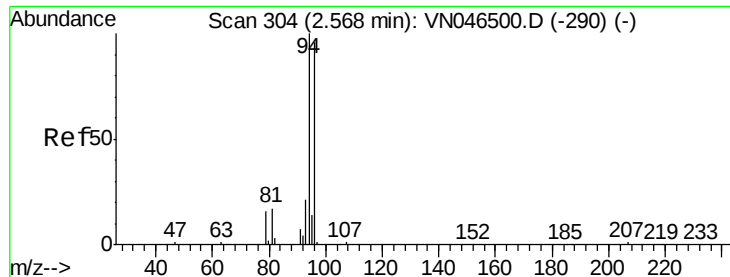
Tgt Ion: 62 Resp: 7176

Ion Ratio Lower Upper

62 100

64 33.2 25.5 38.3





#5

Bromomethane

Concen: 2.34 ug/l

RT: 2.57 min Scan# 304

Delta R.T. -0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

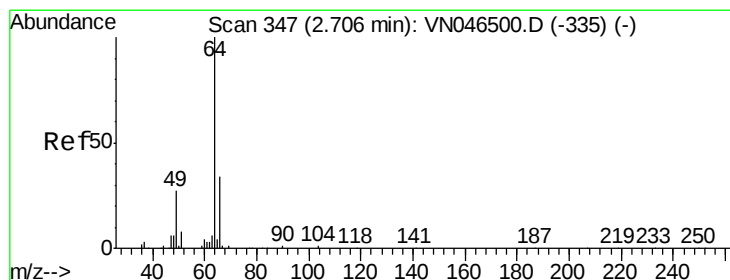
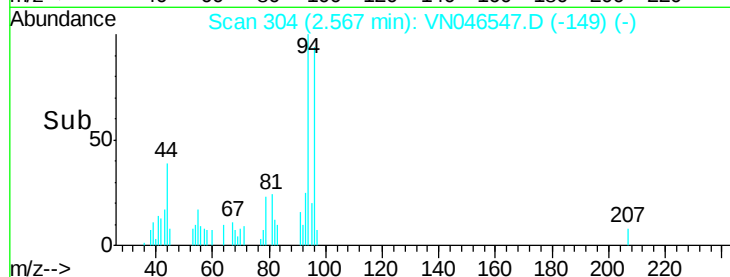
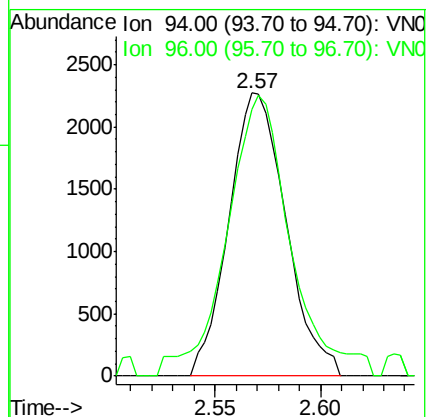
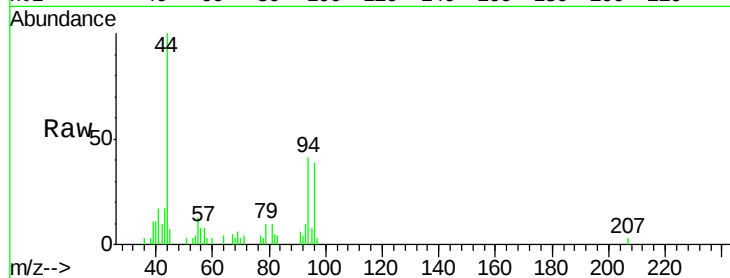
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 94 Resp: 4278

Ion Ratio Lower Upper

94 100

96 85.9 74.6 111.8



#6

Chloroethane

Concen: 2.13 ug/l

RT: 2.71 min Scan# 347

Delta R.T. 0.00 min

Lab File: VN046547.D

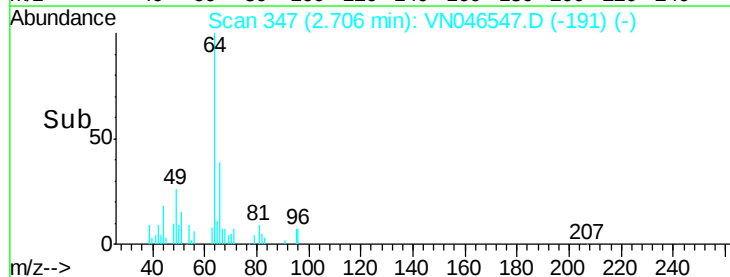
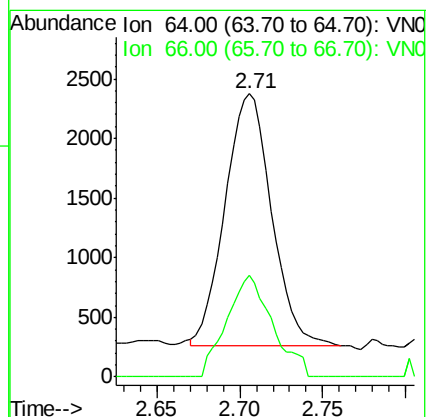
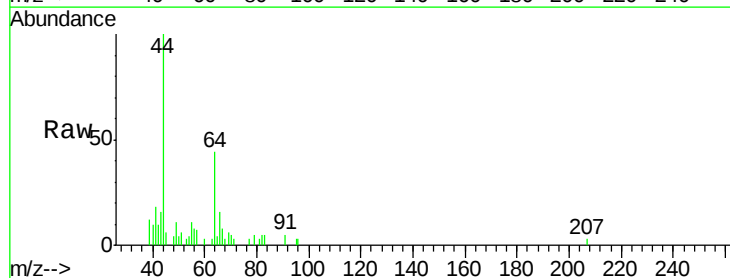
Acq: 24 Jan 2018 16:10

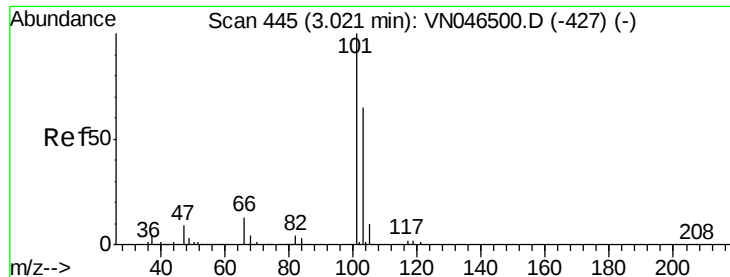
Tgt Ion: 64 Resp: 4151

Ion Ratio Lower Upper

64 100

66 40.4 26.0 39.0#





#7

Trichlorofluoromethane

Concen: 2.14 ug/l

RT: 3.01 min Scan# 443

Delta R.T. -0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

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ClientSampleId :

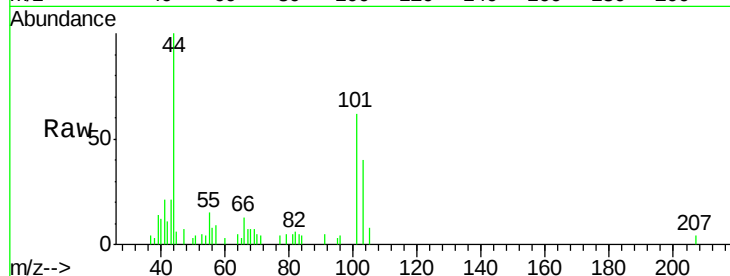
LOD-MDL-WATER-01-QT1-2018

Tgt Ion:101 Resp: 7134

Ion Ratio Lower Upper

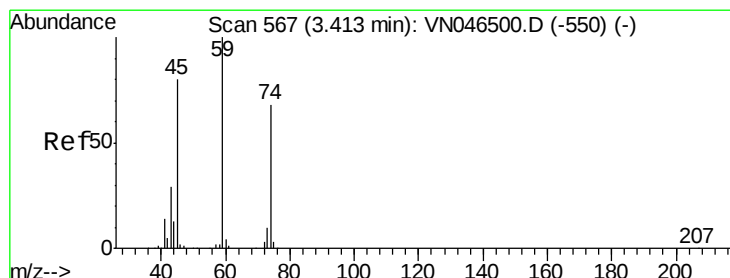
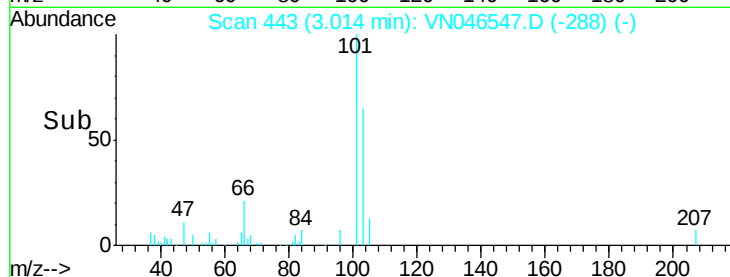
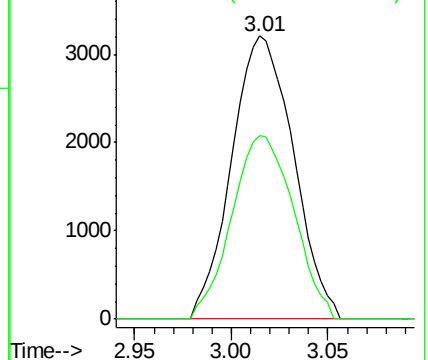
101 100

103 64.9 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.03 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN046547.D

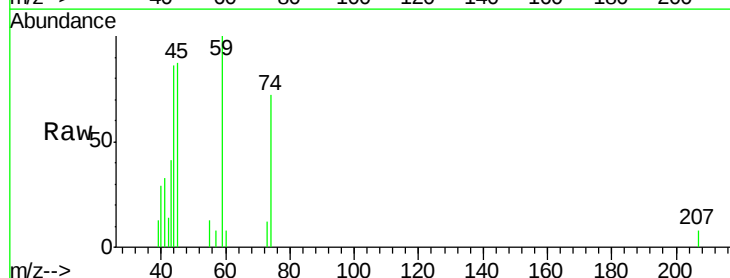
Acq: 24 Jan 2018 16:10

Tgt Ion: 74 Resp: 3261

Ion Ratio Lower Upper

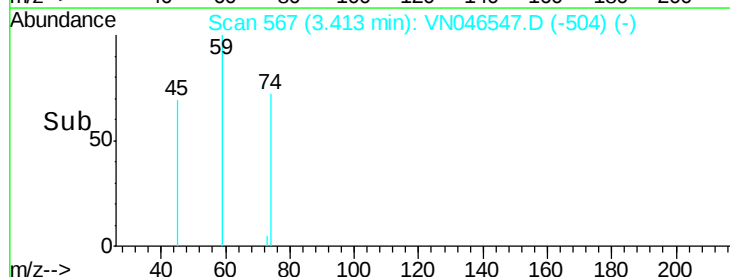
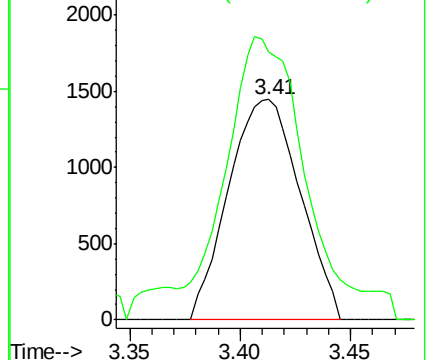
74 100

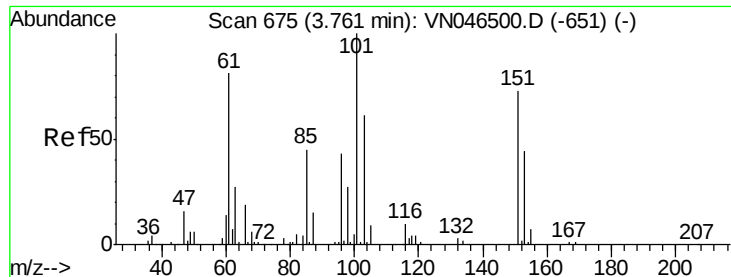
45 122.6 22.0 197.6



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.11 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

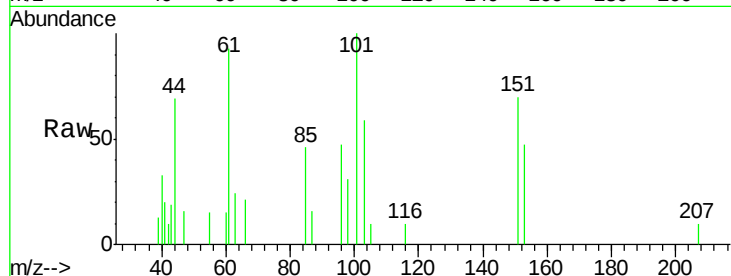
Tgt Ion: 101 Resp: 4704

Ion Ratio Lower Upper

101 100

85 44.0 0.0 90.8

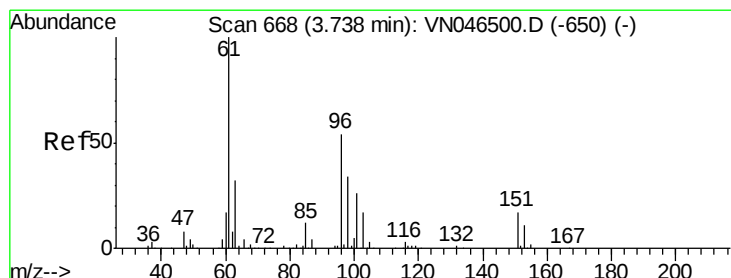
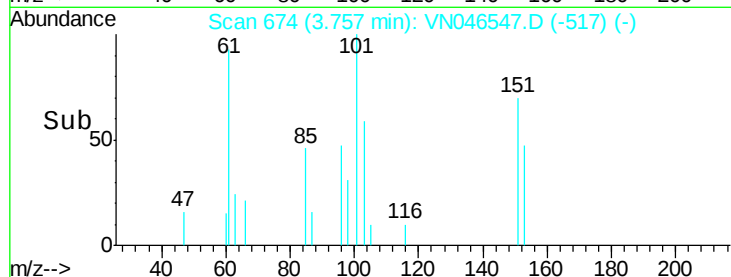
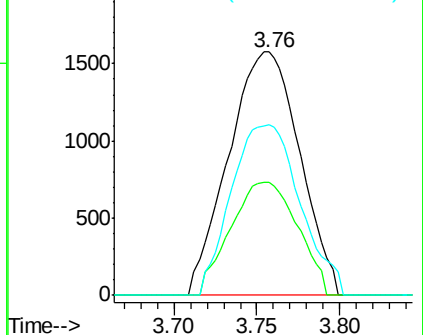
151 68.1 0.0 137.6



Abundance Ion 101.00 (100.70 to 101.70): VN046500.D (-651) (-)

Ion 85.00 (84.70 to 85.70): VN046500.D (-651) (-)

Ion 151.00 (150.70 to 151.70): VN046500.D (-651) (-)



#10

1,1-Dichloroethene

Concen: 2.35 ug/l

RT: 3.73 min Scan# 666

Delta R.T. -0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

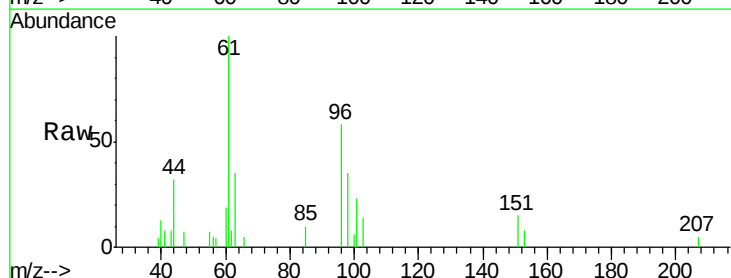
Tgt Ion: 96 Resp: 5289

Ion Ratio Lower Upper

96 100

61 171.0 152.4 228.6

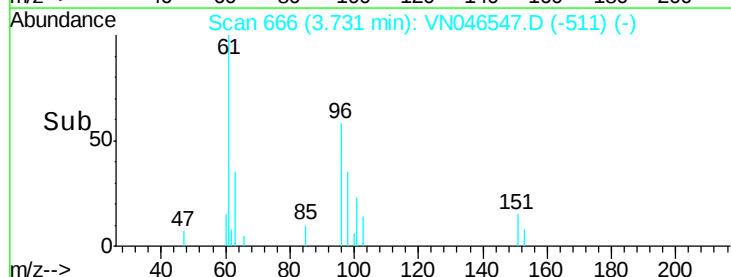
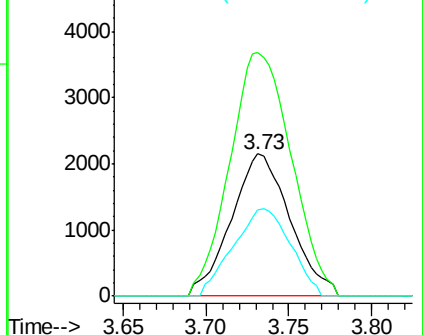
98 60.7 51.3 76.9

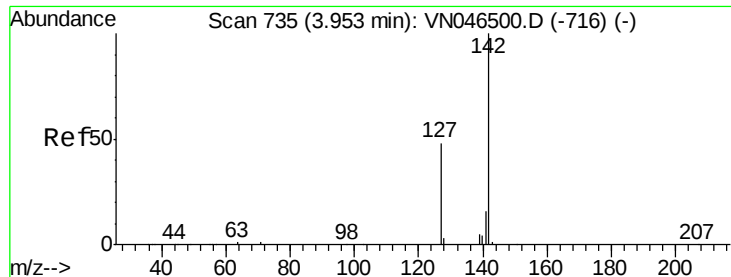


Abundance Ion 96.00 (95.70 to 96.70): VN046500.D (-650) (-)

Ion 61.00 (60.70 to 61.70): VN046500.D (-650) (-)

Ion 98.00 (97.70 to 98.70): VN046500.D (-650) (-)

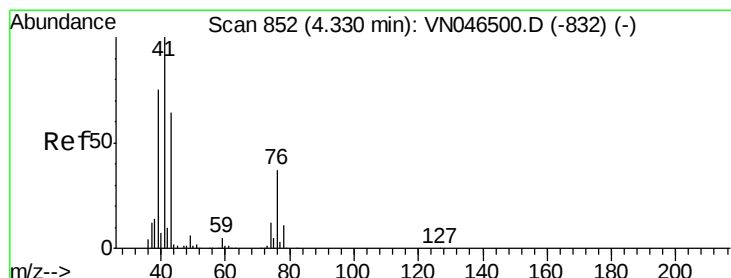
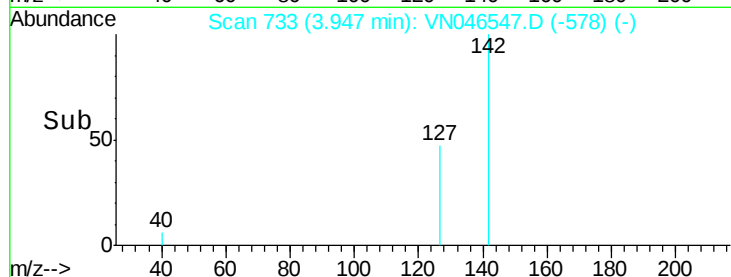
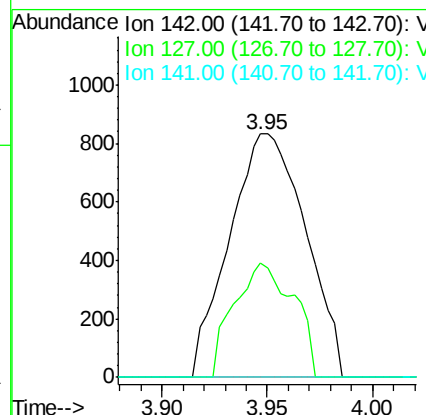
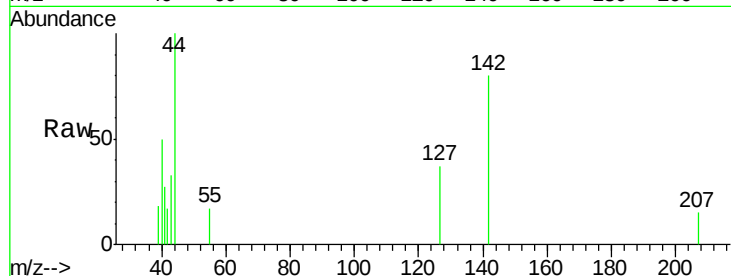




#11
Methyl Iodide
Concen: 1.12 ug/l
RT: 3.95 min Scan# 733
Delta R.T. -0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

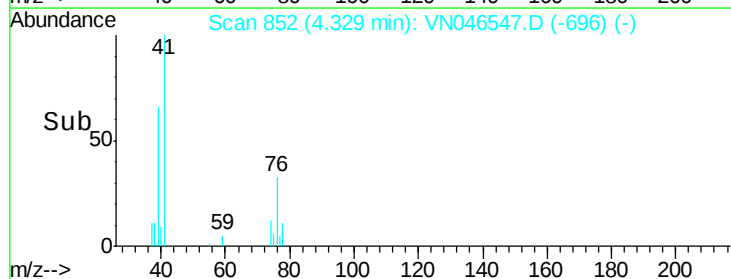
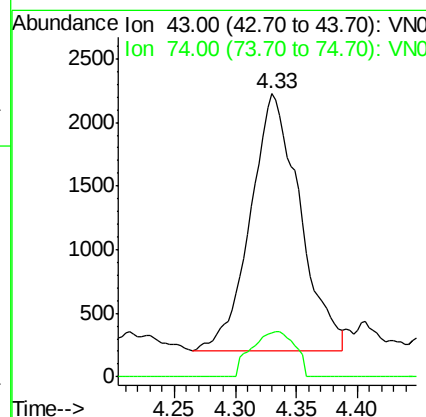
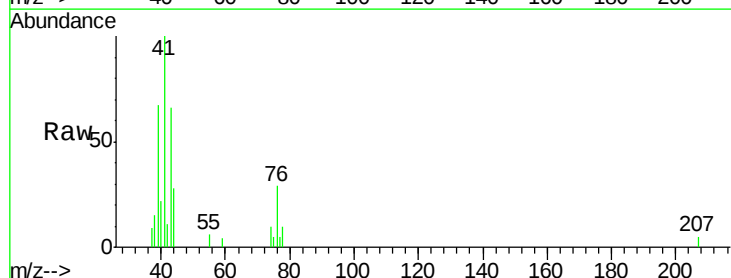
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

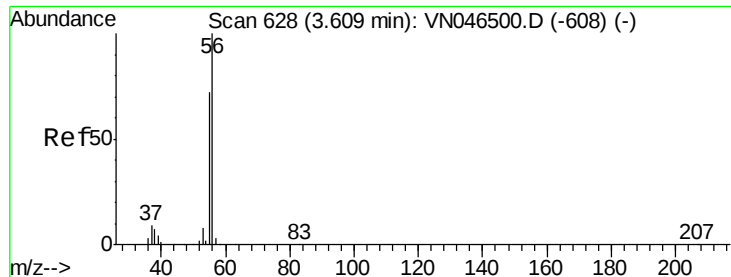
Tgt Ion: 142 Resp: 2087
Ion Ratio Lower Upper
142 100
127 46.9 21.1 63.3
141 0.0 7.3 21.9#



#12
Methyl Acetate
Concen: 2.21 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion: 43 Resp: 5664
Ion Ratio Lower Upper
43 100
74 18.0 17.0 25.6





#13

Acrolein

Concen: 12.14 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

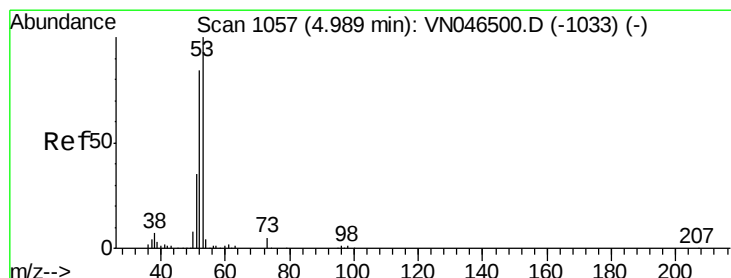
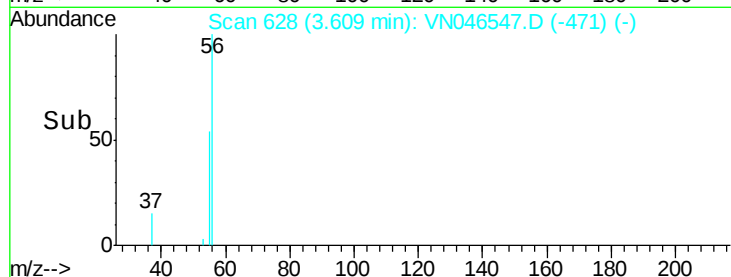
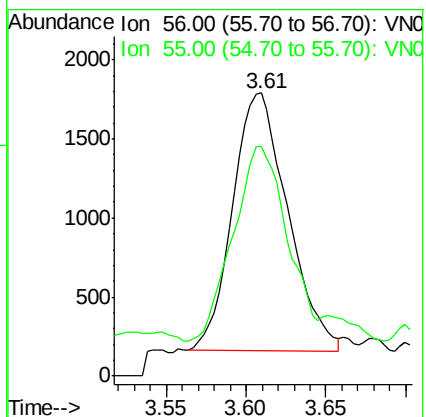
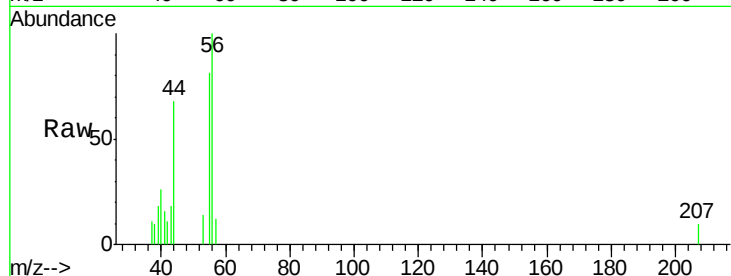
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 56 Resp: 3828

Ion Ratio Lower Upper

56 100

55 74.4 58.9 88.3



#14

Acrylonitrile

Concen: 10.77 ug/l

RT: 5.00 min Scan# 1061

Delta R.T. 0.01 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

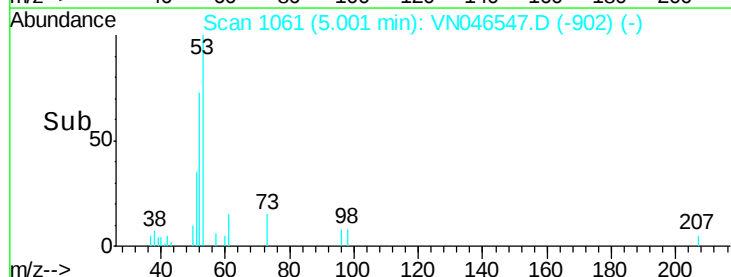
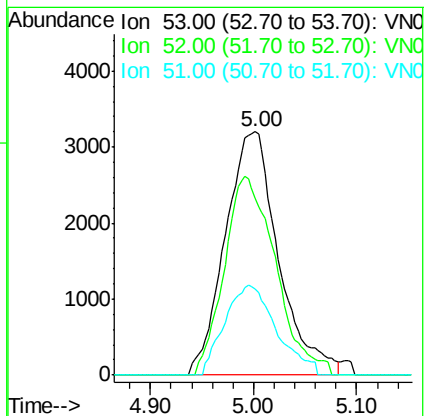
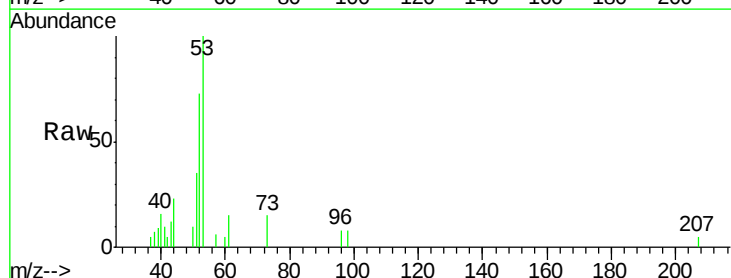
Tgt Ion: 53 Resp: 11512

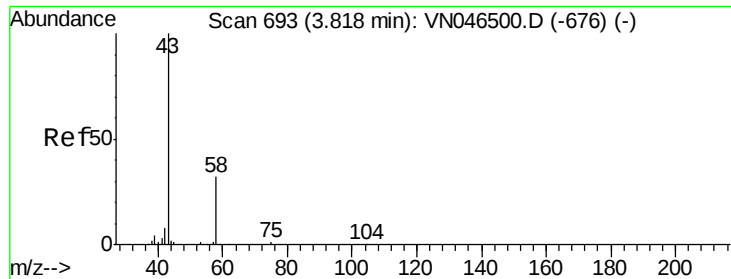
Ion Ratio Lower Upper

53 100

52 78.1 40.9 122.7

51 35.5 18.1 54.1

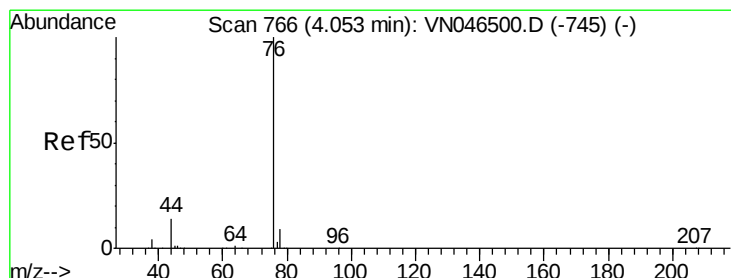
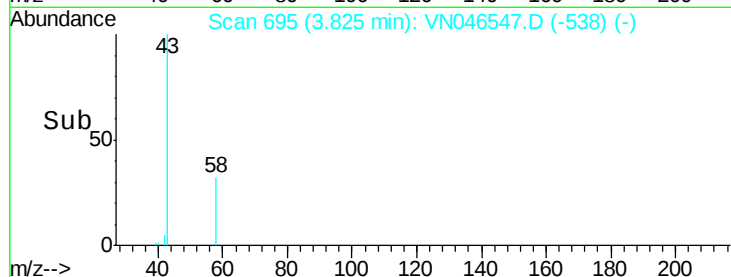
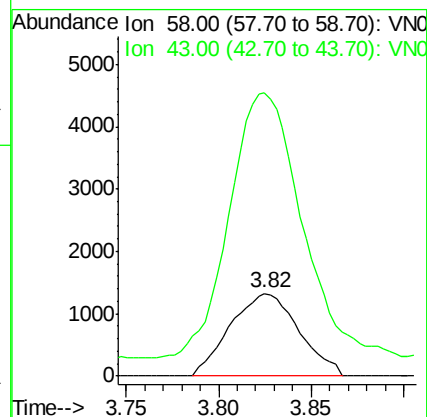
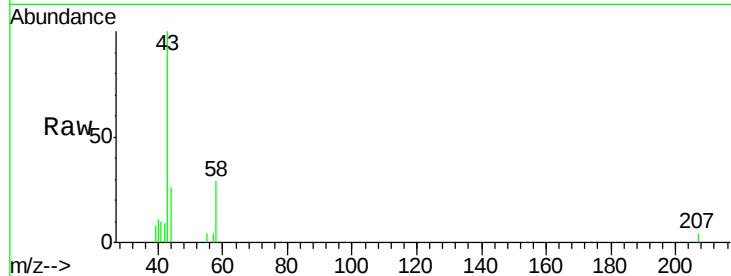




#15
Acetone
Concen: 10.61 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

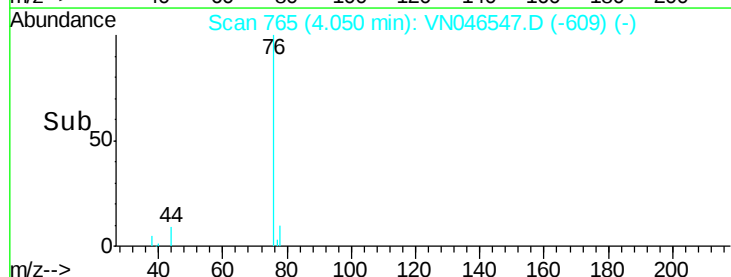
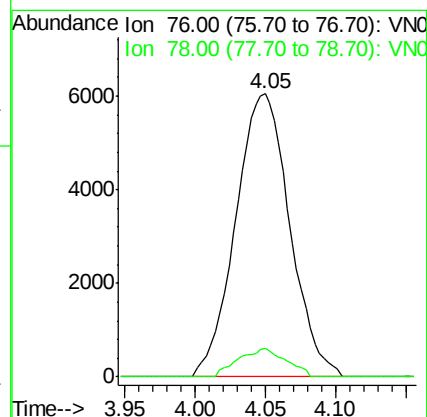
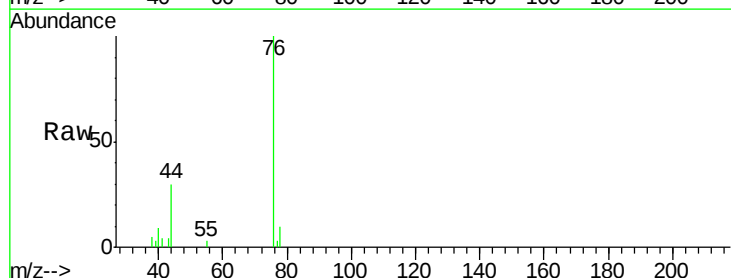
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

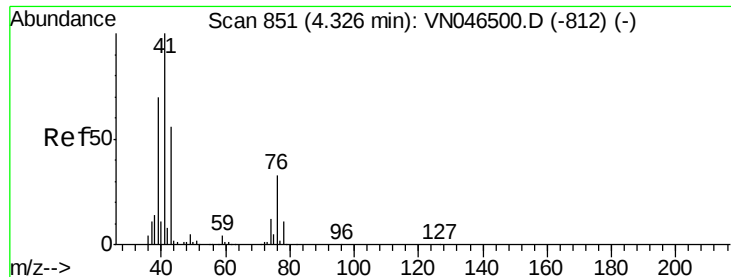
Tgt Ion: 58 Resp: 3420
Ion Ratio Lower Upper
58 100
43 294.0 285.3 427.9



#16
Carbon Disulfide
Concen: 2.16 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion: 76 Resp: 16222
Ion Ratio Lower Upper
76 100
78 10.0 7.2 10.8

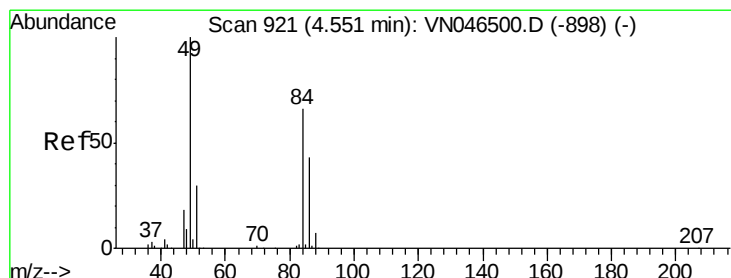
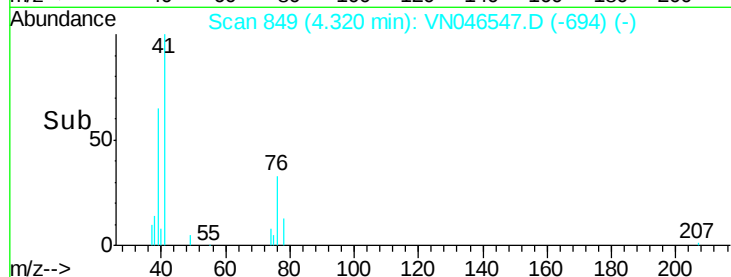
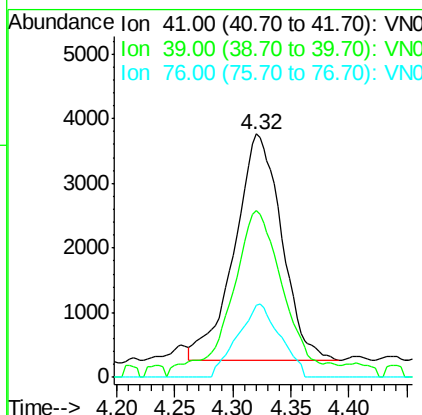
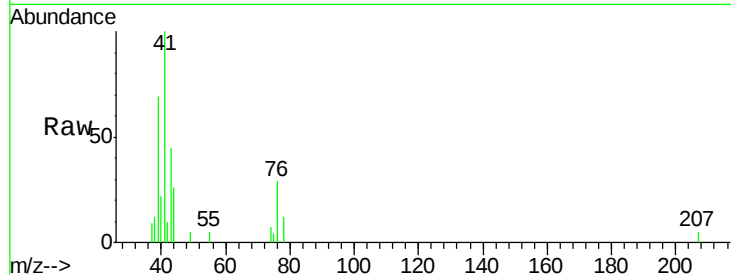




#17
 Allyl chloride
 Concen: 1.87 ug/l
 RT: 4.32 min Scan# 849
 Delta R.T. -0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

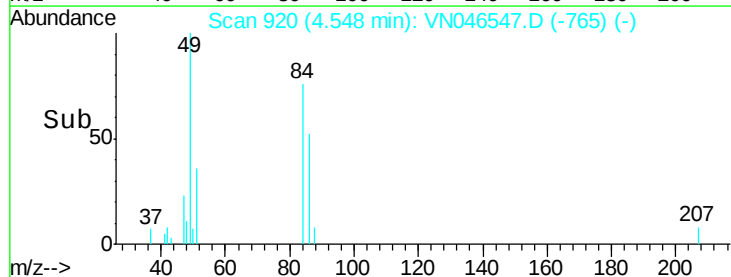
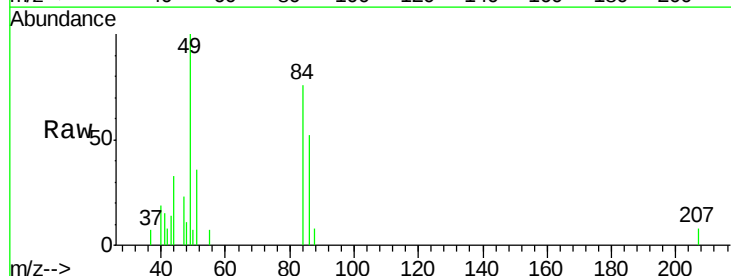
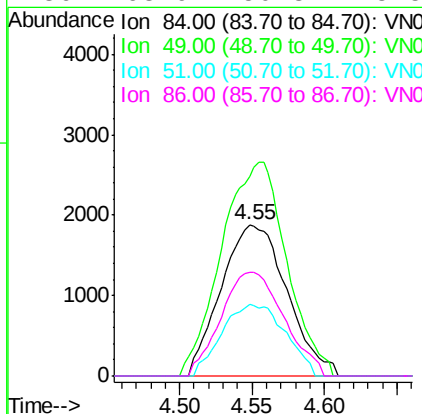
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

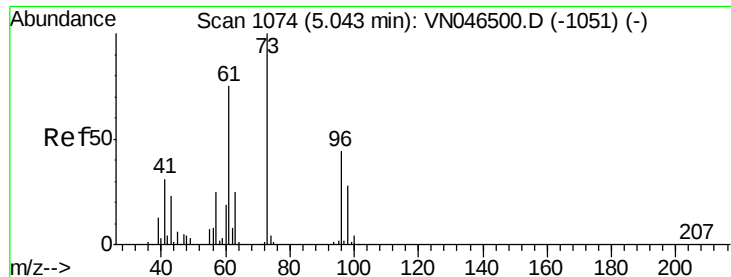
Tgt Ion: 41 Resp: 9820
 Ion Ratio Lower Upper
 41 100
 39 68.4 33.5 100.4
 76 31.6 15.9 47.7



#18
 Methylene Chloride
 Concen: 2.22 ug/l
 RT: 4.55 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion: 84 Resp: 5936
 Ion Ratio Lower Upper
 84 100
 49 131.9 113.9 170.9
 51 47.1 36.3 54.5
 86 68.9 50.3 75.5

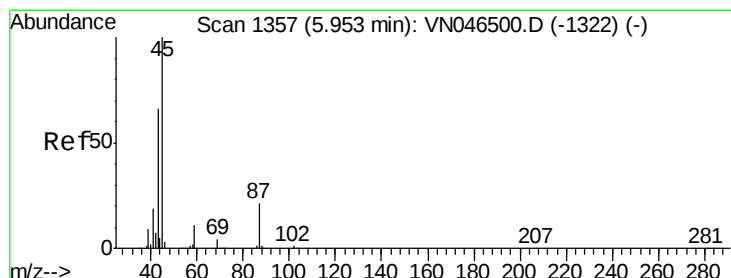
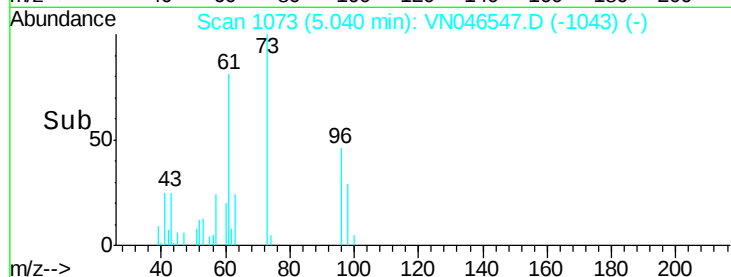
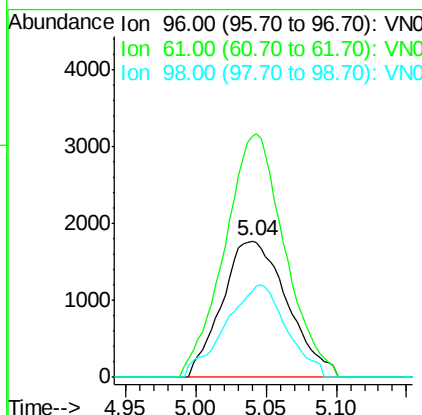
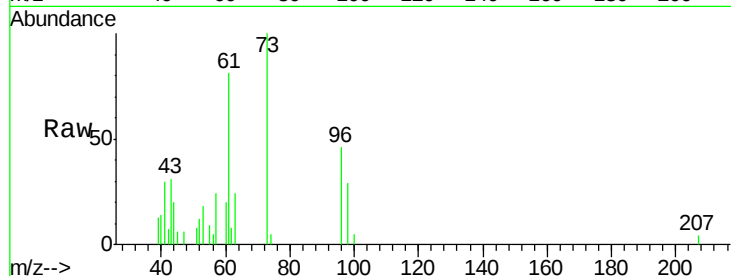




#19
trans-1,2-Dichloroethene
Concen: 2.43 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

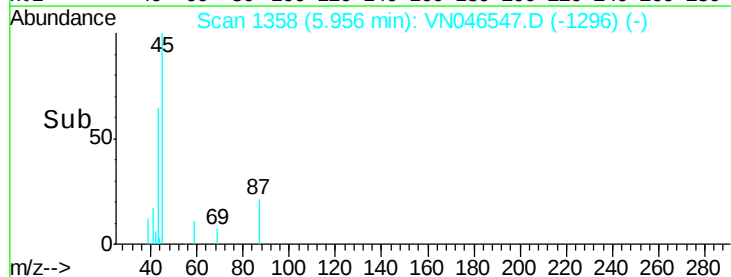
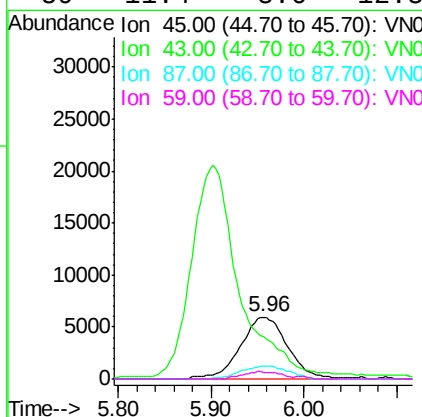
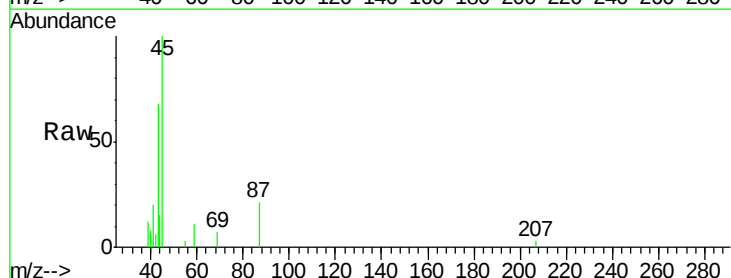
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

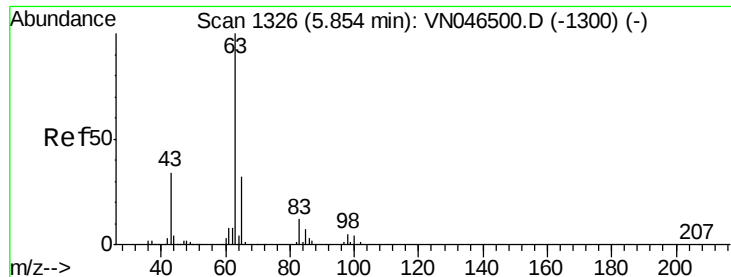
Tgt Ion: 96 Resp: 5729
Ion Ratio Lower Upper
96 100
61 176.8 137.3 205.9
98 63.3 52.3 78.5



#20
Diisopropyl ether
Concen: 2.16 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion: 45 Resp: 20971
Ion Ratio Lower Upper
45 100
43 59.4 45.1 67.7
87 20.7 16.6 24.8
59 11.4 8.6 12.8





#21

1,1-Dichloroethane

Concen: 2.12 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

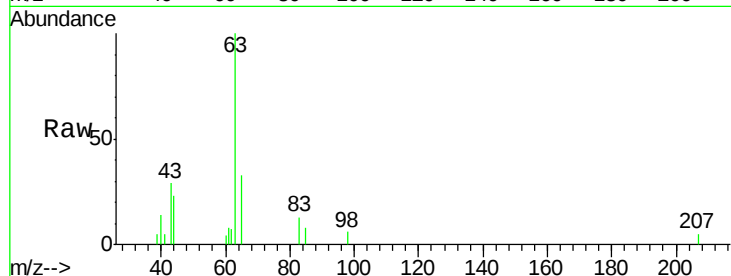
Tgt Ion: 63 Resp: 11156

Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.9

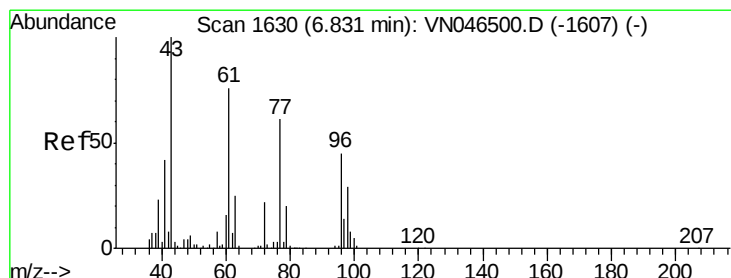
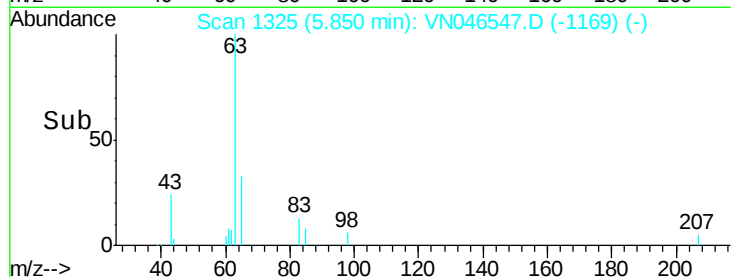
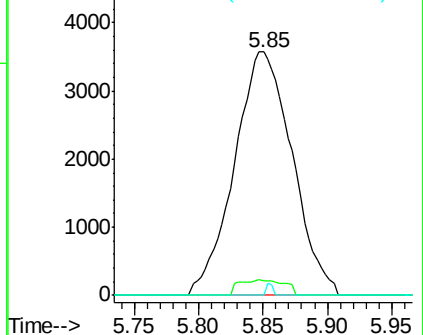
100 0.0 1.7 5.0#



Abundance Ion 63.00 (62.70 to 63.70): VN046547.D (-1169) (-)

Ion 98.00 (97.70 to 98.70): VN046547.D (-1169) (-)

Ion 100.00 (99.70 to 100.70): VN046547.D (-1169) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.28 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

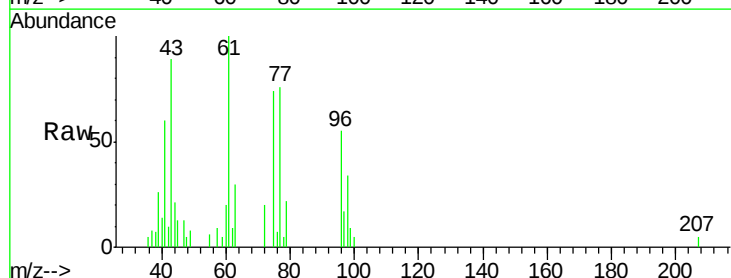
Tgt Ion: 96 Resp: 6255

Ion Ratio Lower Upper

96 100

61 175.5 141.3 211.9

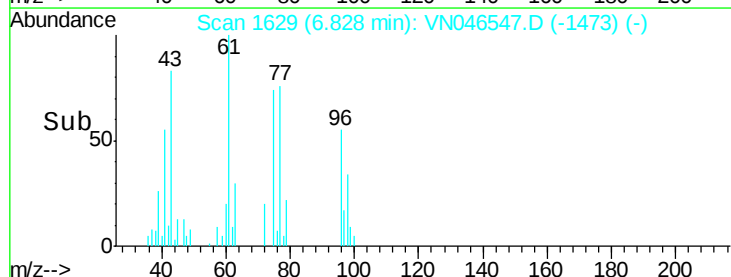
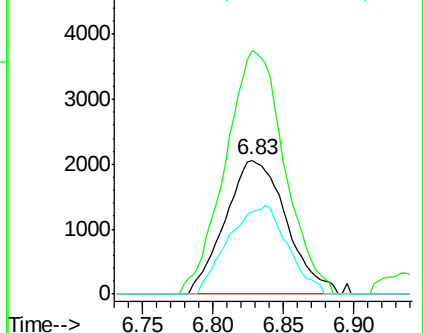
98 63.6 51.0 76.6

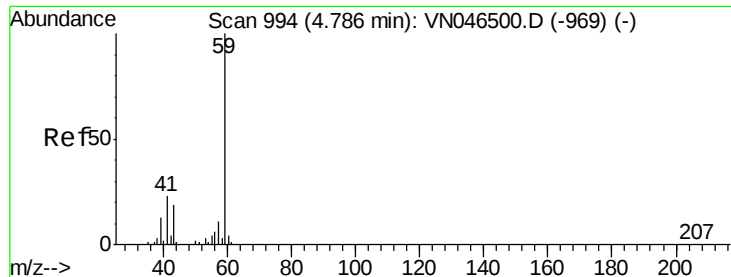


Abundance Ion 96.00 (95.70 to 96.70): VN046547.D (-1473) (-)

Ion 61.00 (60.70 to 61.70): VN046547.D (-1473) (-)

Ion 98.00 (97.70 to 98.70): VN046547.D (-1473) (-)

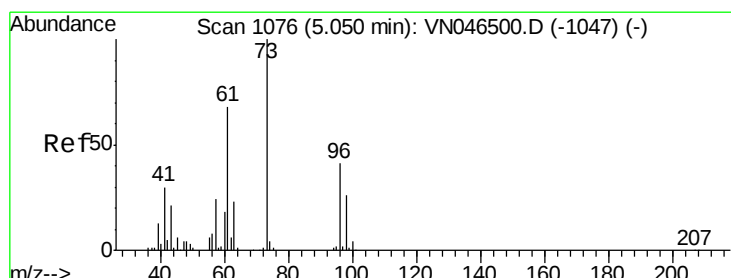
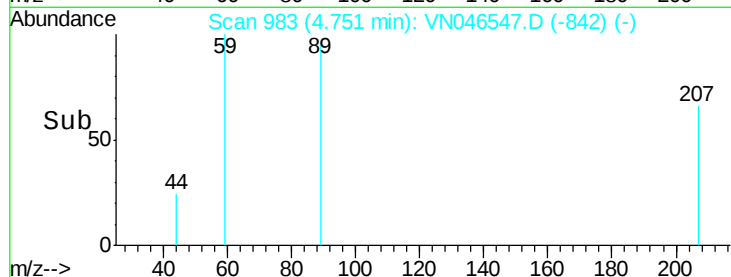
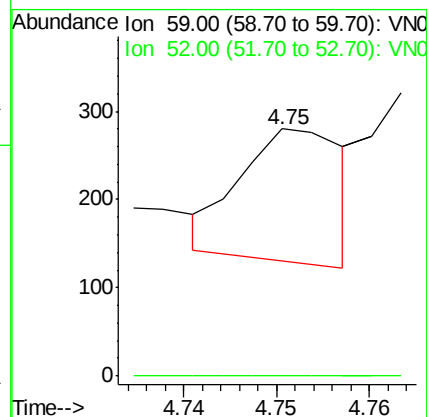
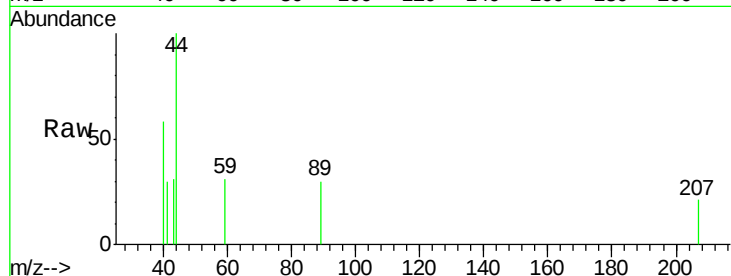




#23
 tert-Butyl Alcohol
 Concen: 0.45 ug/l
 RT: 4.75 min Scan# 983
 Delta R.T. -0.05 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

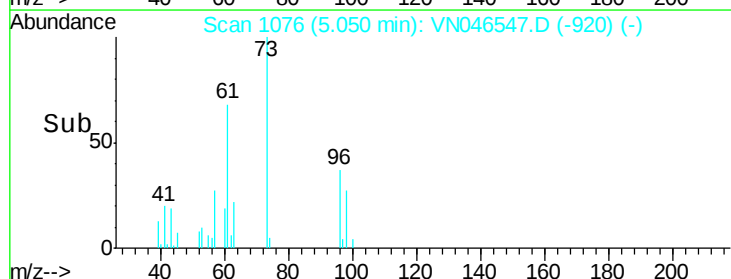
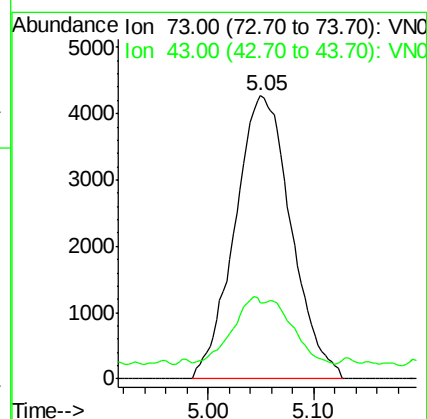
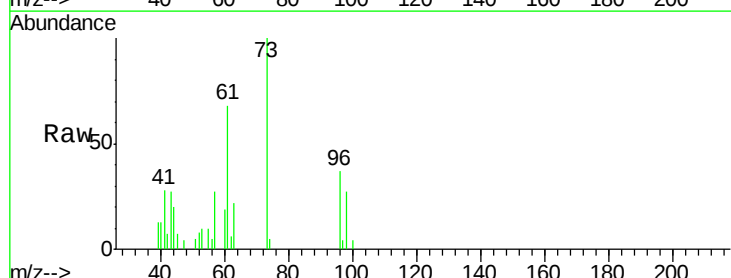
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

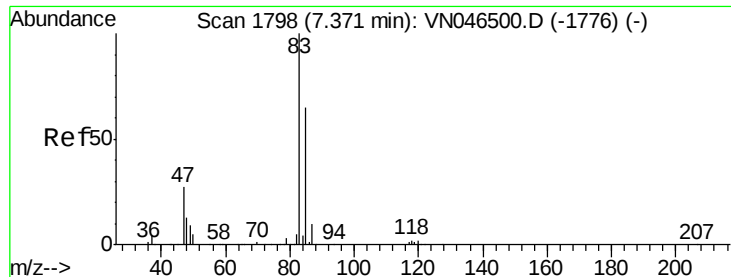
Tgt Ion: 59 Resp: 115
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#24
 Methyl tert-Butyl Ether
 Concen: 2.15 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion: 73 Resp: 15850
 Ion Ratio Lower Upper
 73 100
 43 11.6 19.0 28.6#

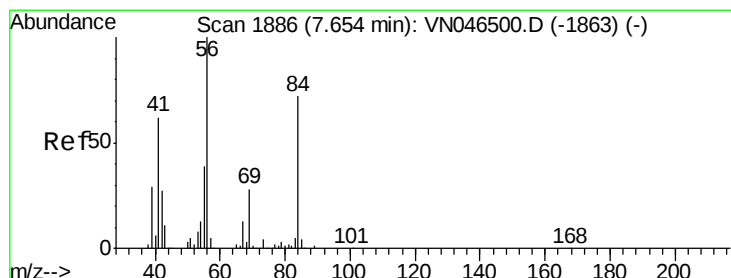
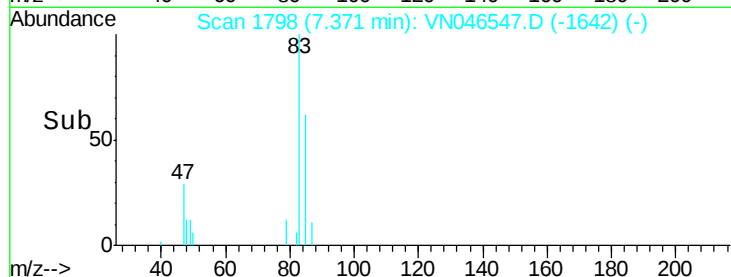
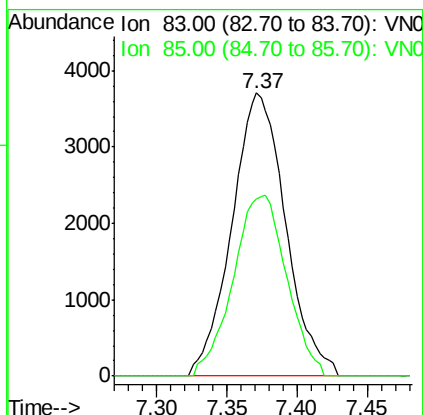
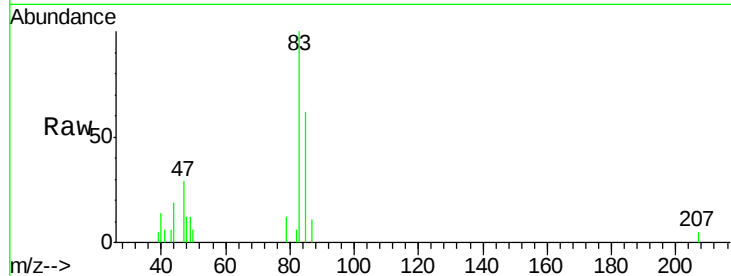




#25
Chloroform
Concen: 2.14 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

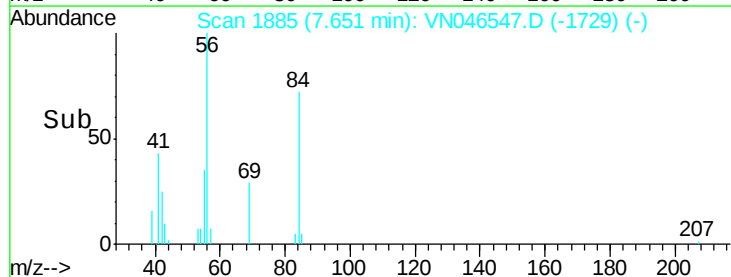
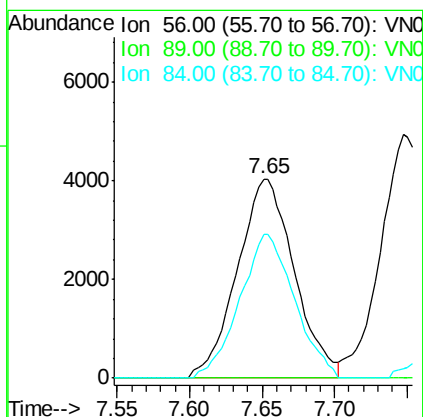
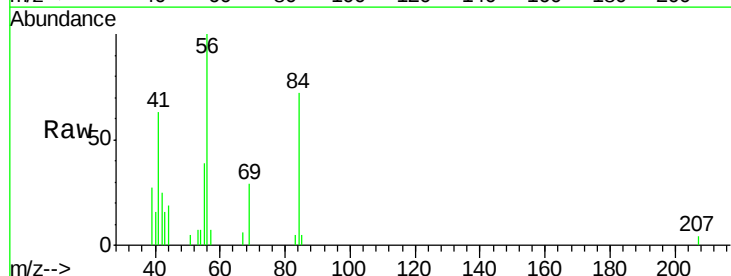
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

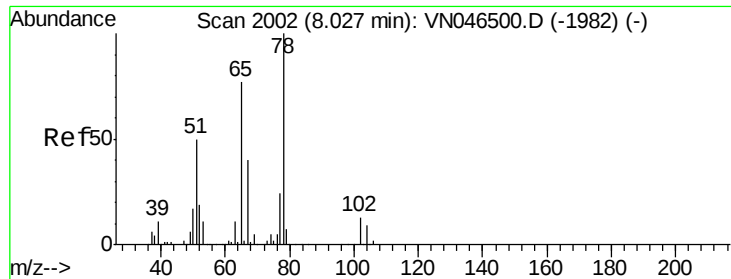
Tgt Ion: 83 Resp: 9882
Ion Ratio Lower Upper
83 100
85 62.4 51.4 77.0



#26
Cyclohexane
Concen: 2.18 ug/l
RT: 7.65 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion: 56 Resp: 11034
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 69.5 56.8 85.2

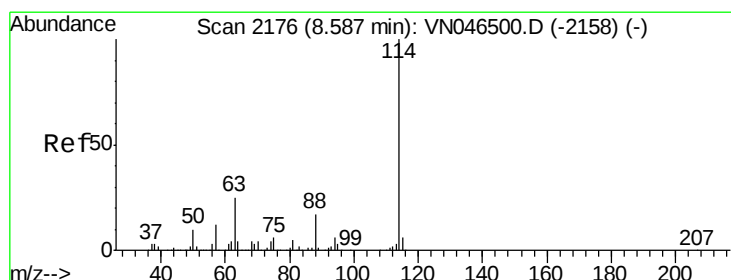
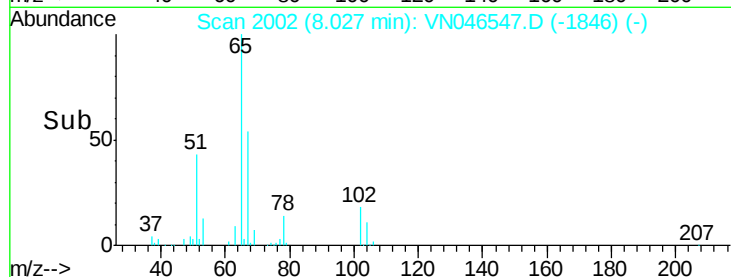
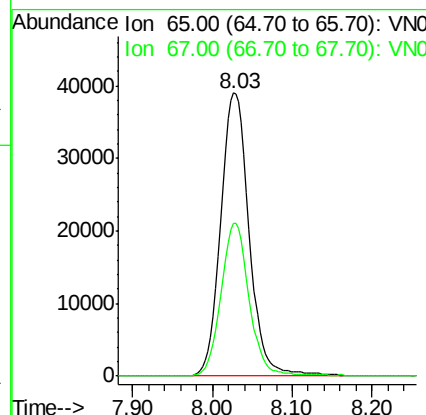
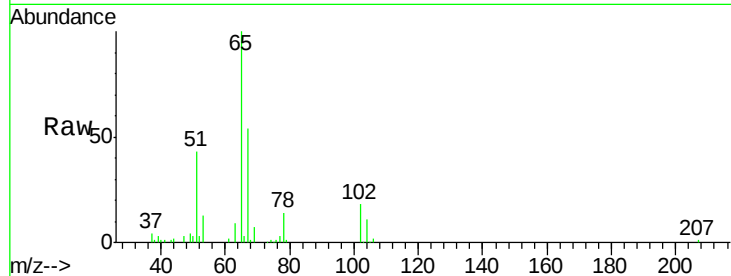




#27
 1,2-Dichloroethane-d4
 Concen: 31.36 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

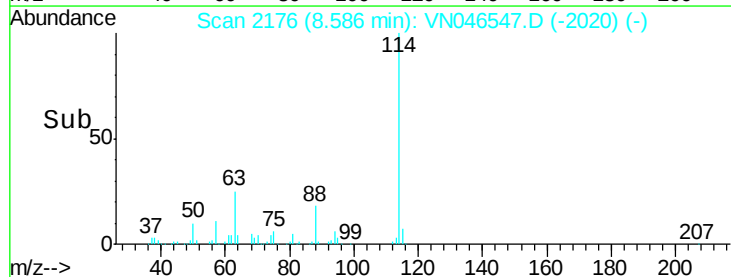
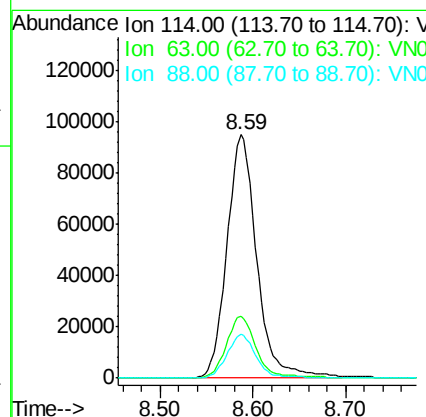
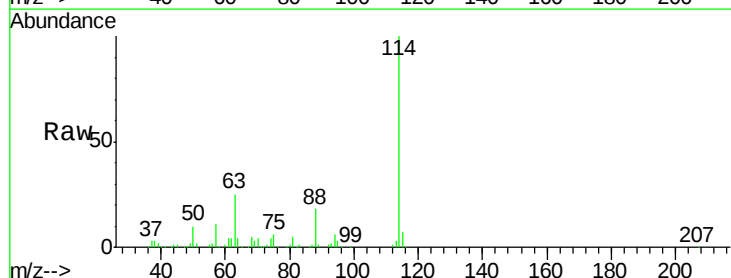
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

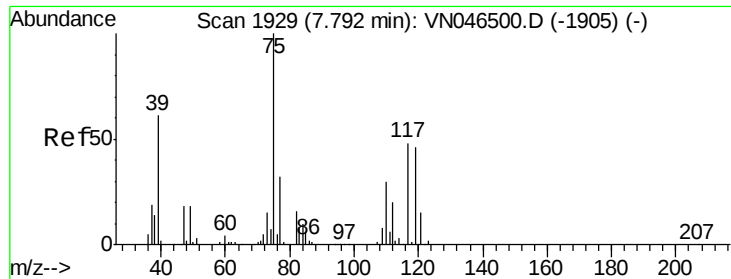
Tgt Ion: 65 Resp: 96043
 Ion Ratio Lower Upper
 65 100
 67 52.9 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion: 114 Resp: 212556
 Ion Ratio Lower Upper
 114 100
 63 25.4 20.2 30.4
 88 17.7 14.2 21.2

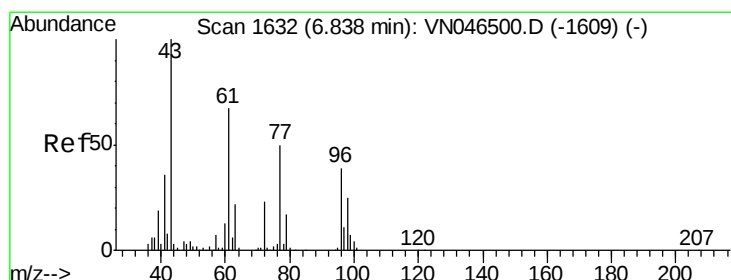
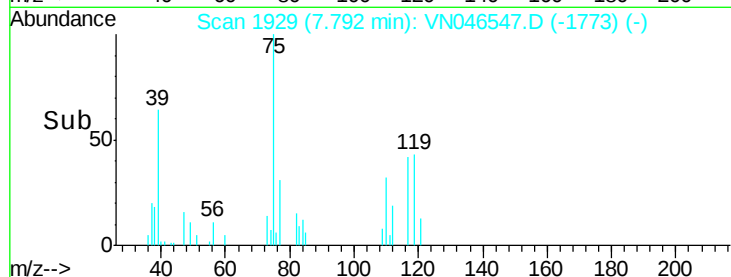
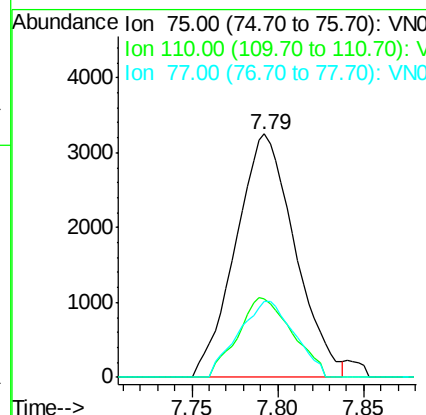
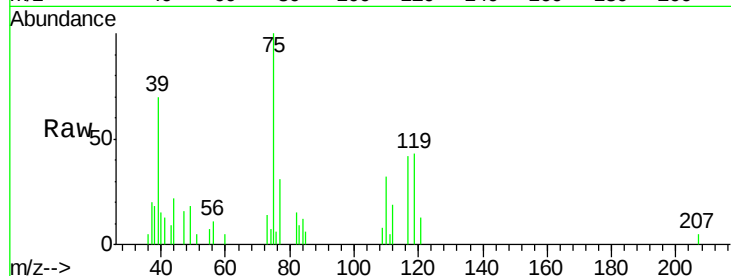




#29
 1,1-Dichloropropene
 Concen: 1.99 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

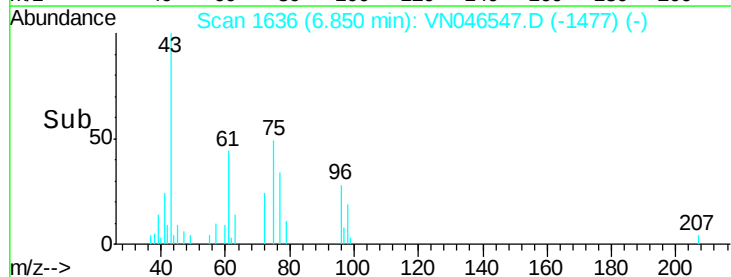
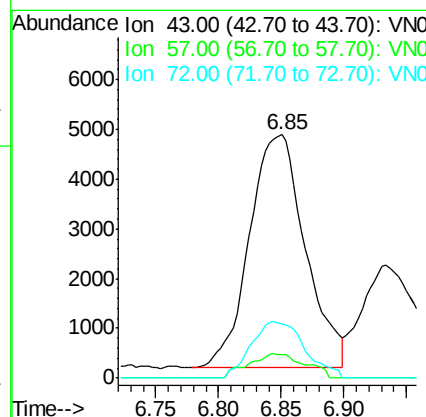
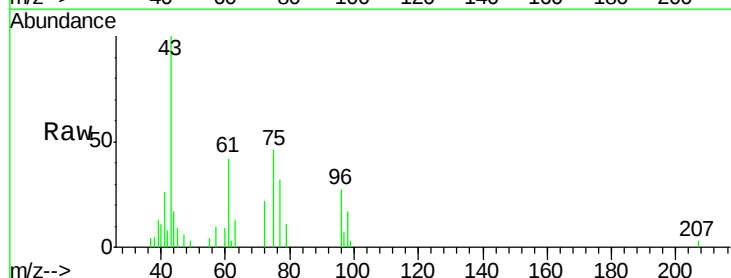
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

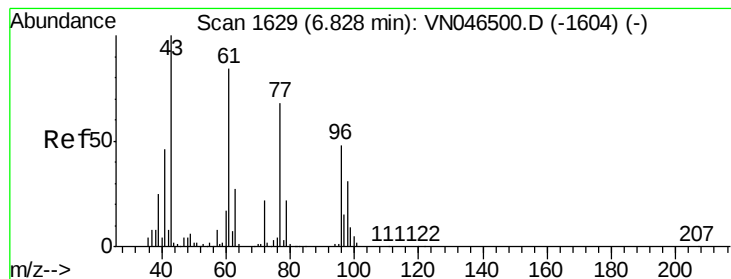
Tgt Ion: 75 Resp: 7781
 Ion Ratio Lower Upper
 75 100
 110 29.9 0.0 61.0
 77 29.5 0.0 63.2



#30
 2-Butanone
 Concen: 10.10 ug/l
 RT: 6.85 min Scan# 1636
 Delta R.T. 0.01 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion: 43 Resp: 14514
 Ion Ratio Lower Upper
 43 100
 57 2.4 6.8 10.2#
 72 23.2 18.9 28.3





#31

2,2-Dichloropropane

Concen: 2.11 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

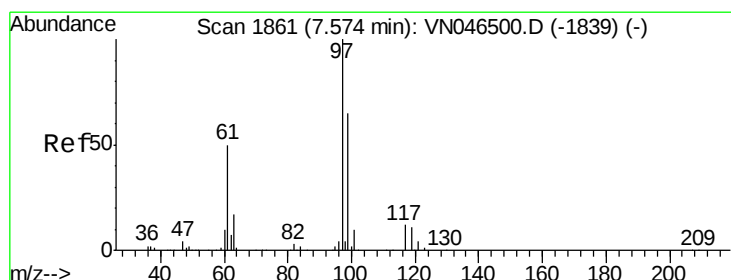
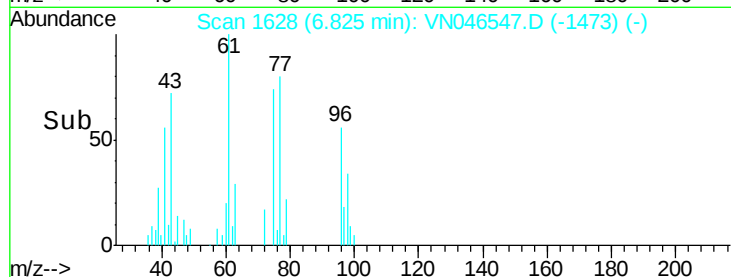
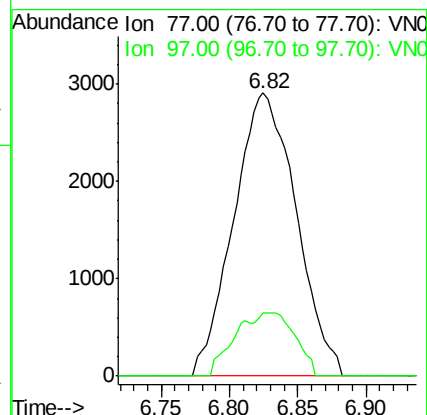
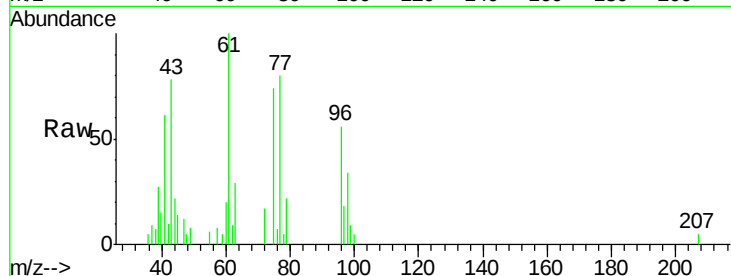
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 77 Resp: 9245

Ion Ratio Lower Upper

77 100

97 8.2 17.2 25.8#



#32

1,1,1-Trichloroethane

Concen: 2.08 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

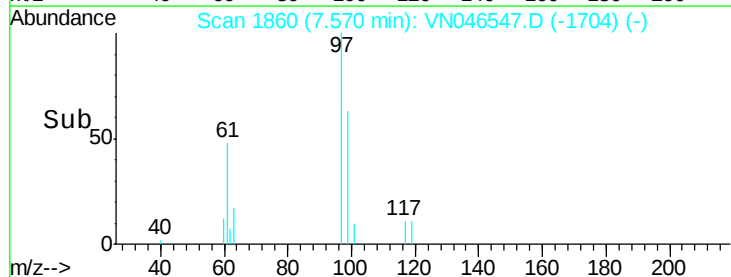
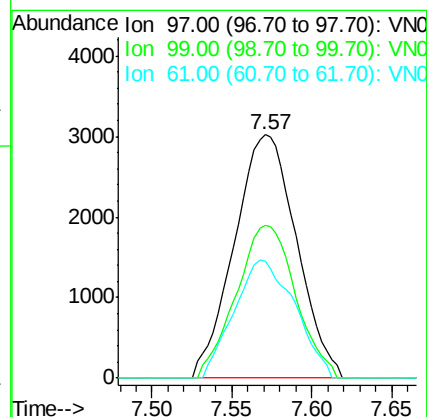
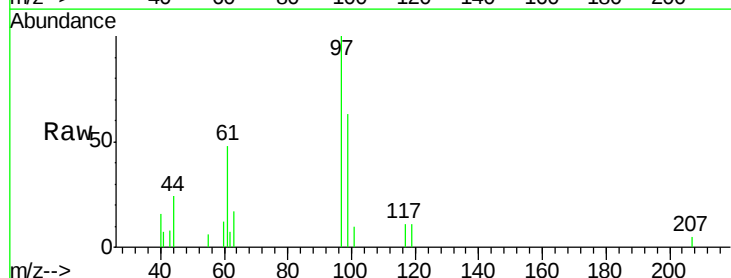
Tgt Ion: 97 Resp: 8060

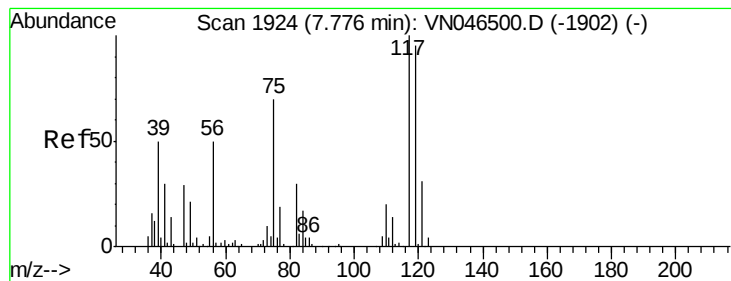
Ion Ratio Lower Upper

97 100

99 59.8 50.4 75.6

61 47.4 41.3 61.9





#33

Carbon Tetrachloride

Concen: 1.95 ug/l

RT: 7.77 min Scan# 1922

Delta R.T. -0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

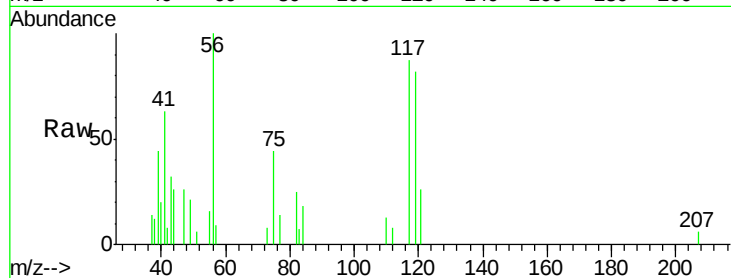
Tgt Ion:117 Resp: 6078

Ion Ratio Lower Upper

117 100

119 94.8 77.7 116.5

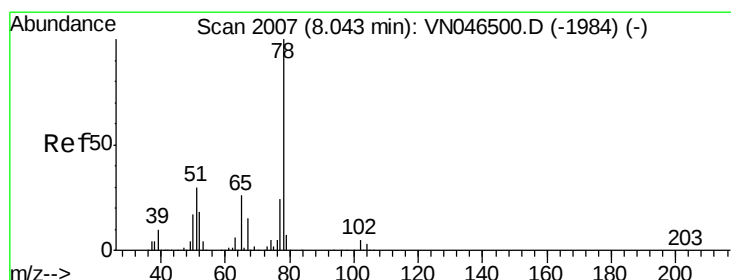
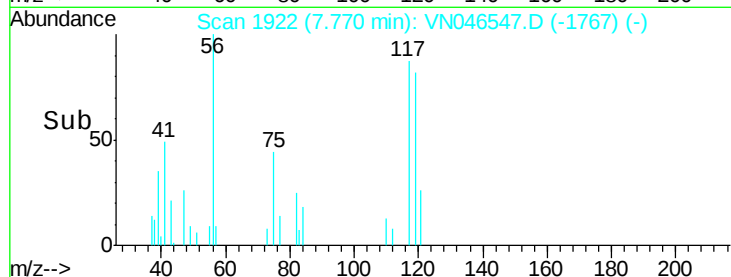
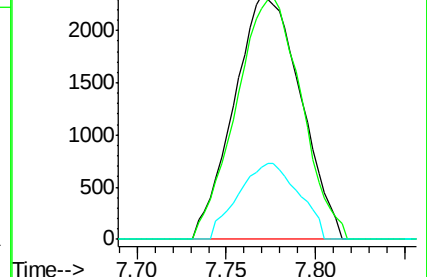
121 29.5 25.1 37.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 2.02 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

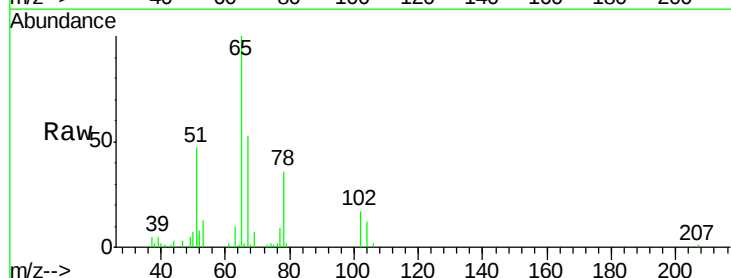
Tgt Ion: 78 Resp: 22629

Ion Ratio Lower Upper

78 100

77 24.0 18.8 28.2

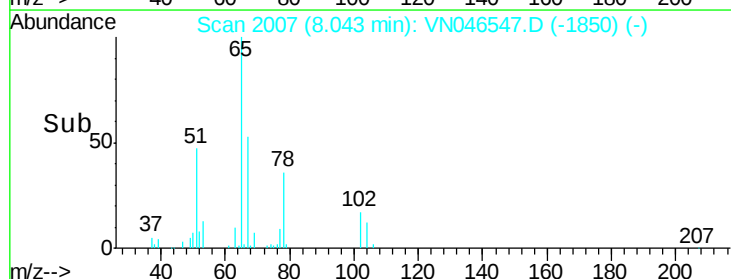
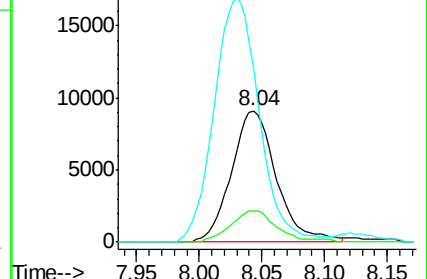
51 125.4 25.4 38.0#

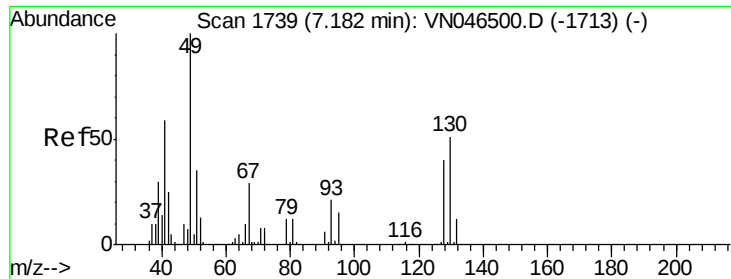


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

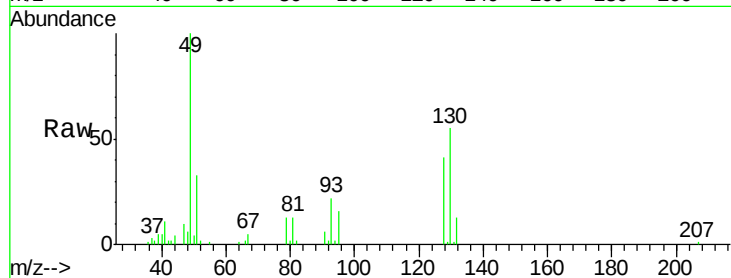




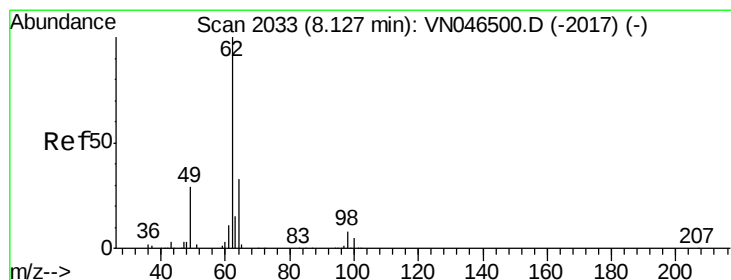
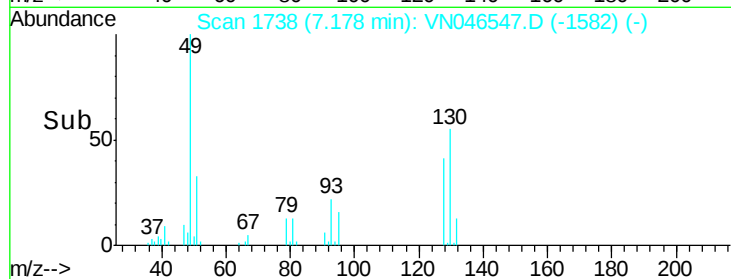
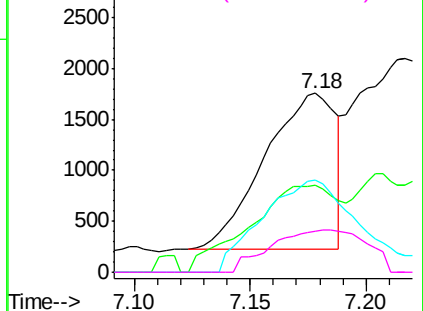
#35
Methacrylonitrile
Concen: 1.92 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

Tgt Ion:	41	Resp:	3234
Ion	Ratio	Lower	Upper
41	100		
39	55.7	26.6	79.8
67	59.3	28.0	83.9
52	26.2	12.7	38.1

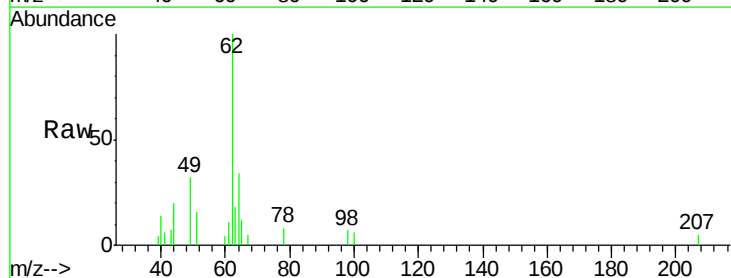


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

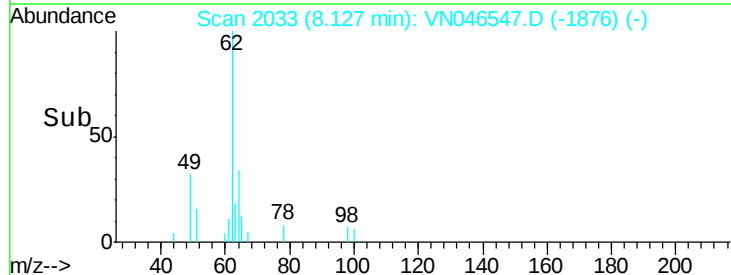
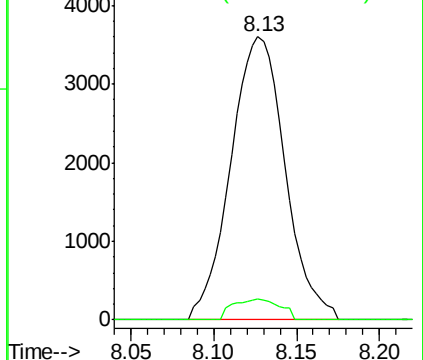


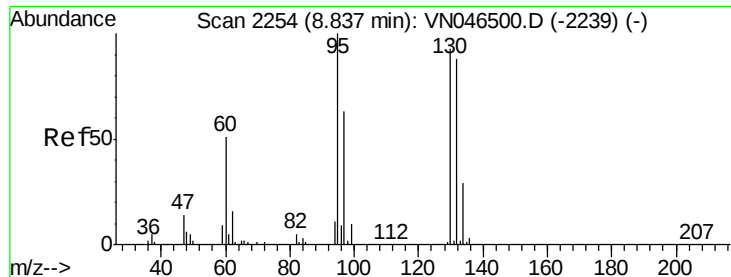
#36
1,2-Dichloroethane
Concen: 2.07 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion:	62	Resp:	8225
Ion	Ratio	Lower	Upper
62	100		
98	6.0	6.7	10.1#



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





#37

Trichloroethene

Concen: 1.91 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

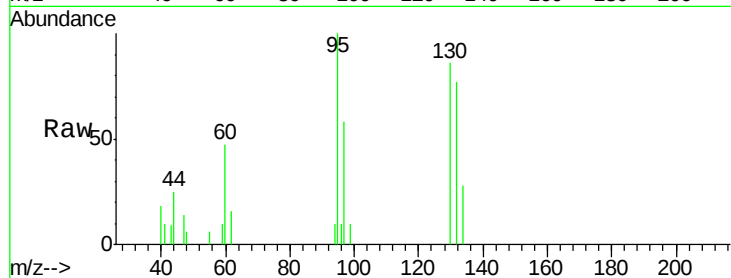
LOD-MDL-WATER-01-QT1-2018

Tgt Ion:130 Resp: 4828

Ion Ratio Lower Upper

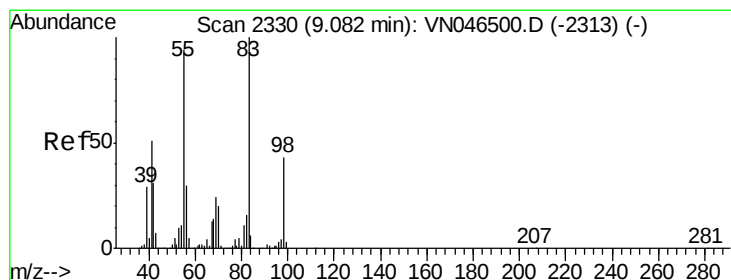
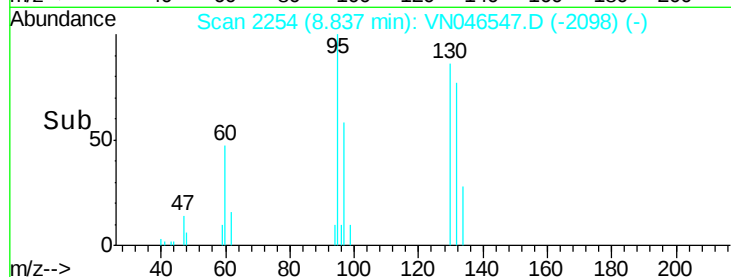
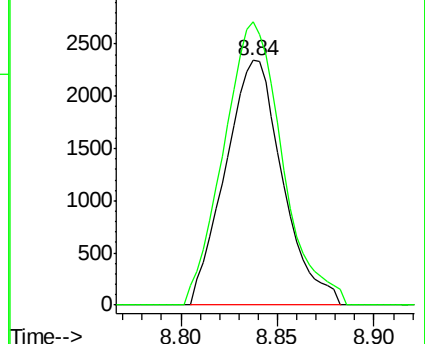
130 100

95 109.2 90.7 136.1



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 2.00 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

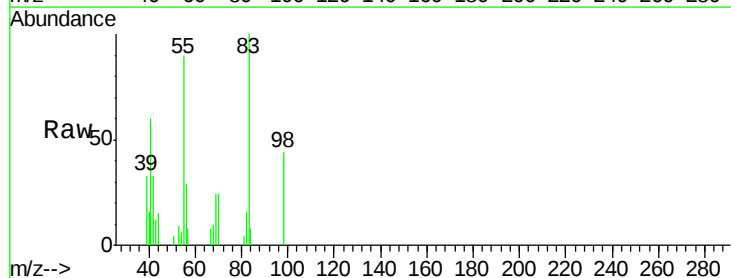
Tgt Ion: 83 Resp: 9424

Ion Ratio Lower Upper

83 100

55 85.0 43.9 131.6

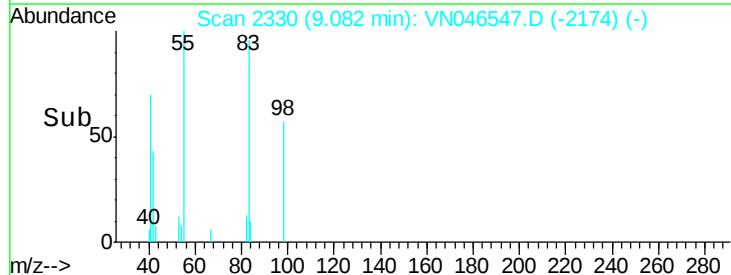
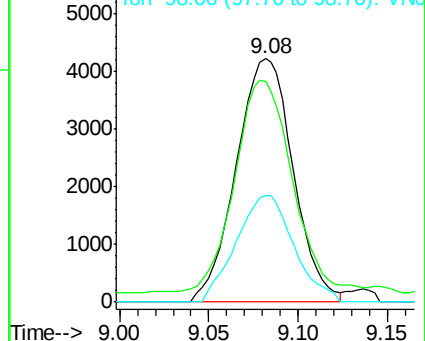
98 44.2 21.1 63.4

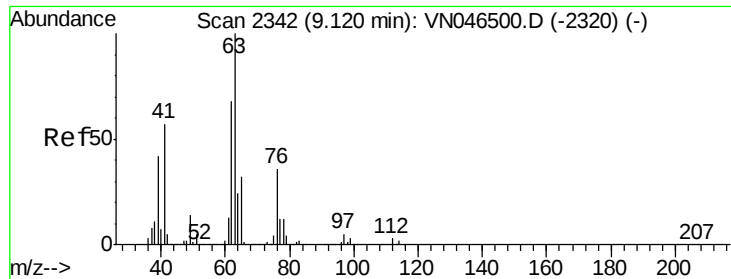


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





#39

1,2-Dichloropropane

Concen: 1.99 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

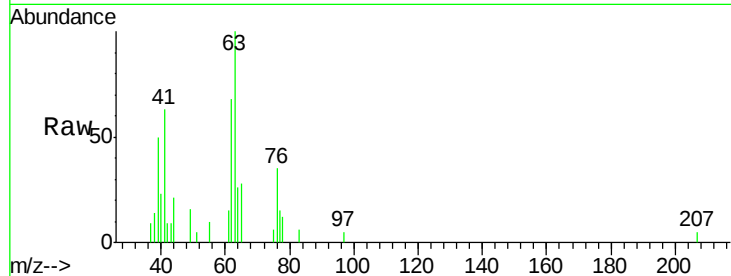
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 63 Resp: 6435

Ion Ratio Lower Upper

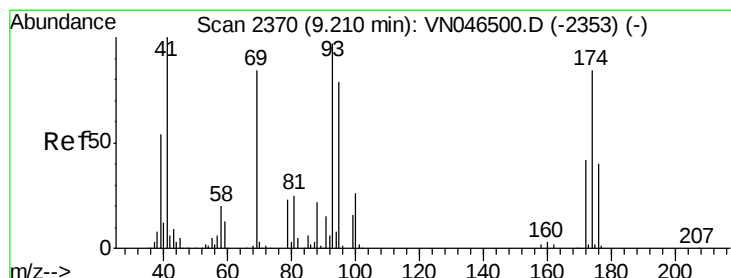
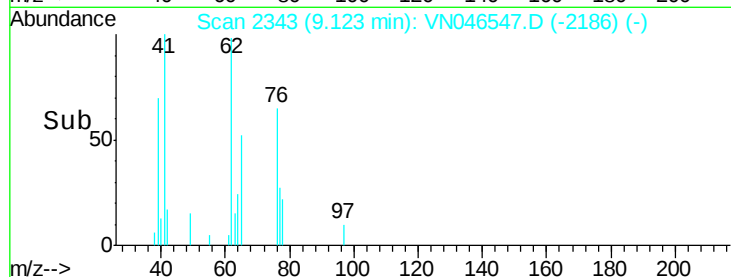
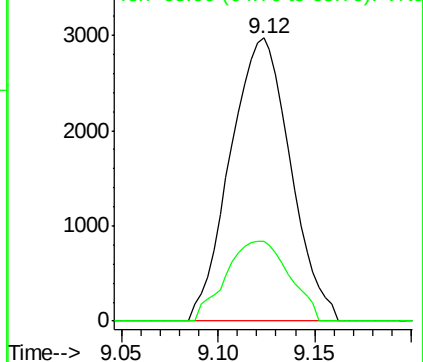
63 100

65 28.3 24.6 37.0



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 1.97 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

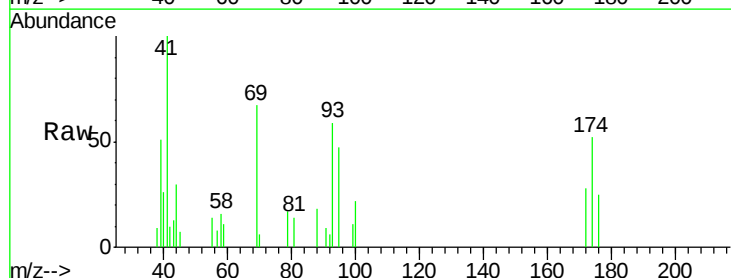
Tgt Ion: 93 Resp: 3231

Ion Ratio Lower Upper

93 100

95 83.0 0.0 169.8

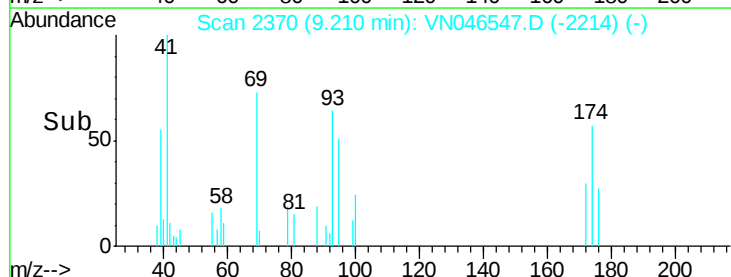
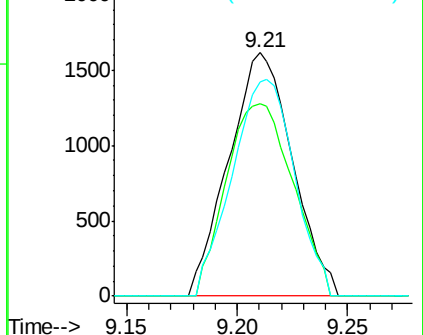
174 86.8 0.0 170.4

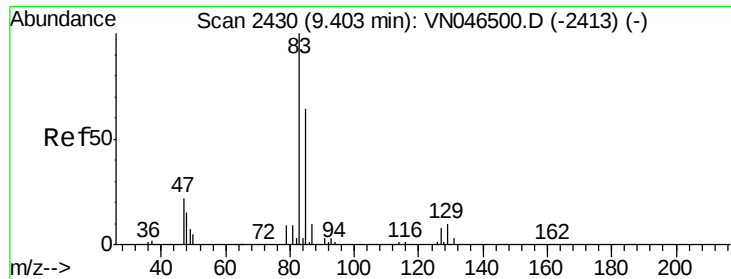


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

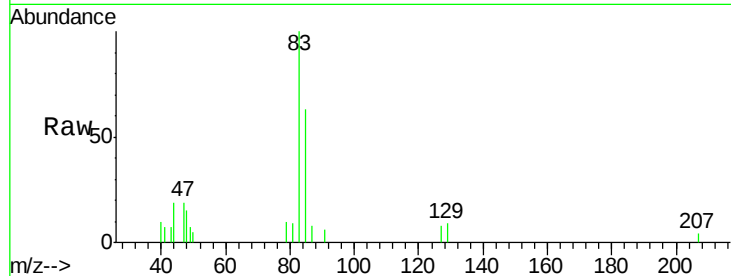




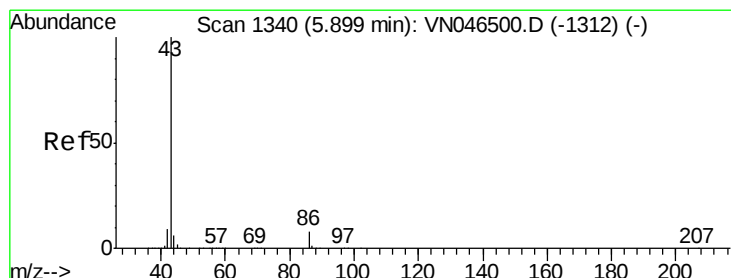
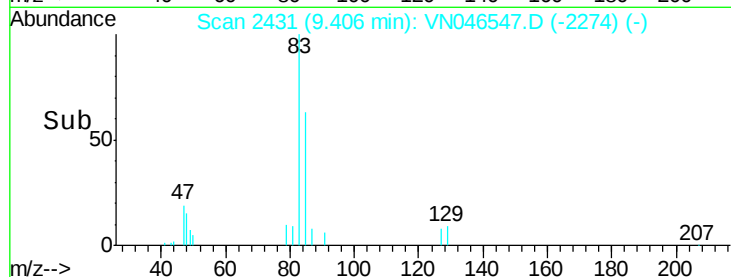
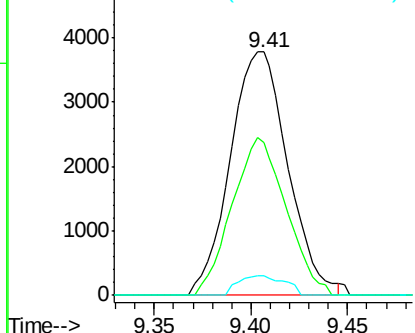
#41
 Bromodichloromethane
 Concen: 2.09 ug/l
 RT: 9.41 min Scan# 2431
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 83 Resp: 7824
 Ion Ratio Lower Upper
 83 100
 85 62.8 53.6 80.4
 127 7.9 6.0 9.0

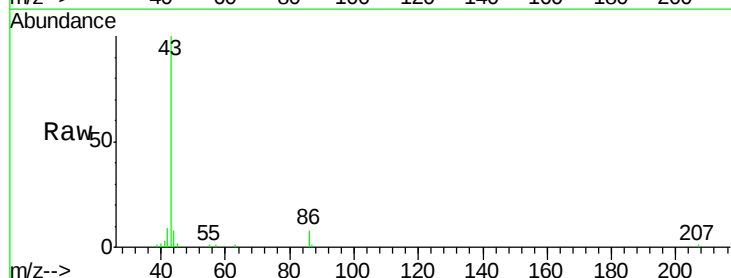


Abundance Ion 83.00 (82.70 to 83.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0
 Ion 127.00 (126.70 to 127.70): VN0

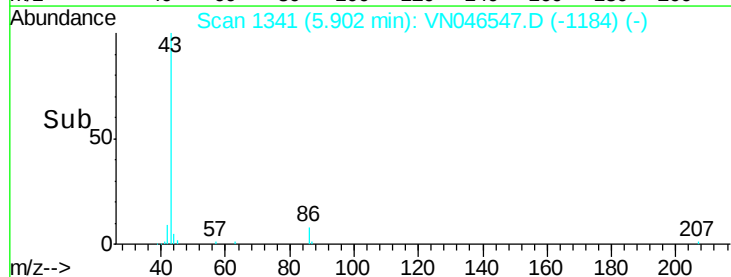
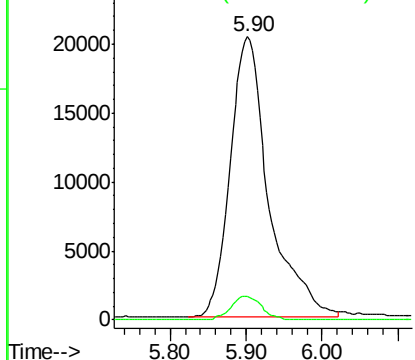


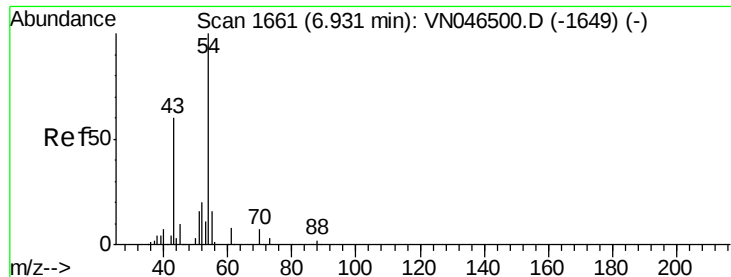
#42
 Vinyl Acetate
 Concen: 9.61 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion: 43 Resp: 71575
 Ion Ratio Lower Upper
 43 100
 86 6.8 5.7 8.5



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 86.00 (85.70 to 86.70): VN0





#43

Ethyl Acetate

Concen: 2.22 ug/l

RT: 6.93 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

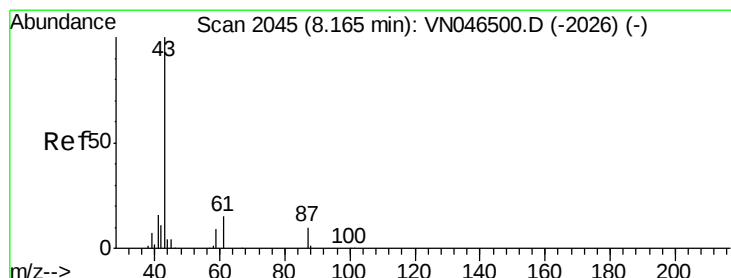
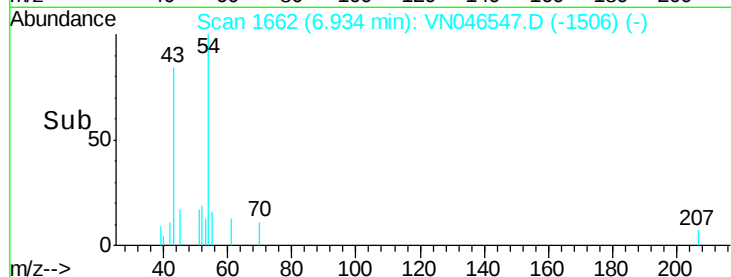
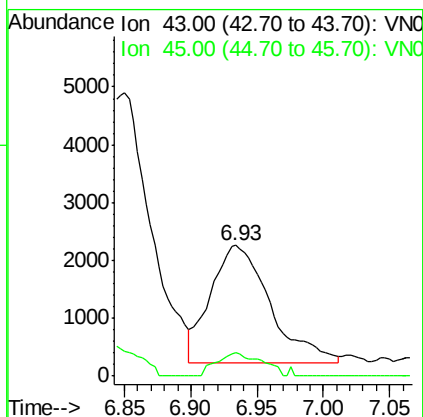
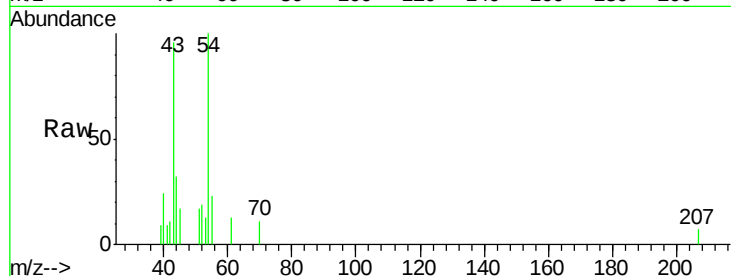
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 43 Resp: 6318

Ion Ratio Lower Upper

43 100

45 10.1 10.4 15.6#



#44

Isopropyl Acetate

Concen: 2.03 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN046547.D

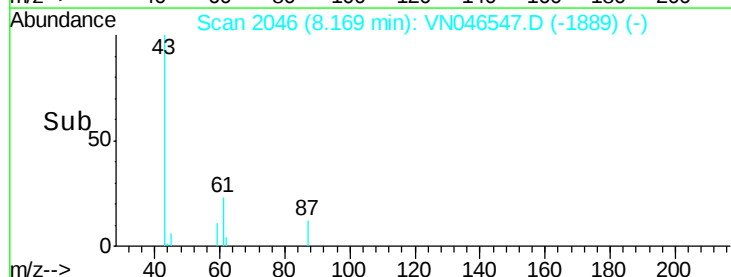
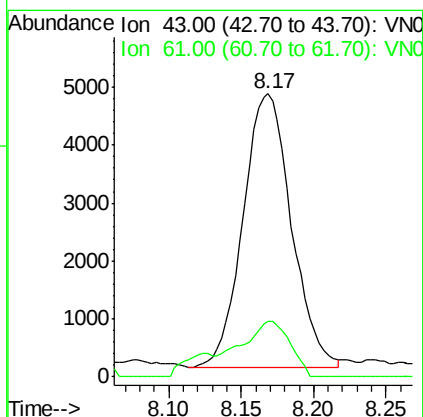
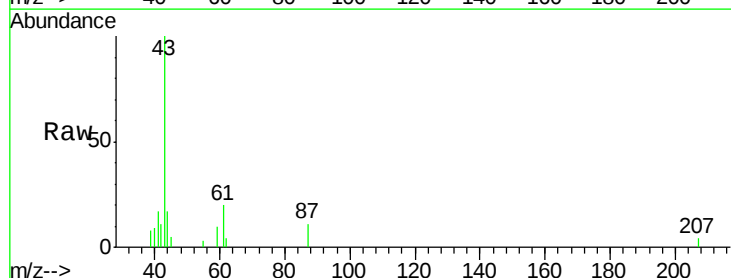
Acq: 24 Jan 2018 16:10

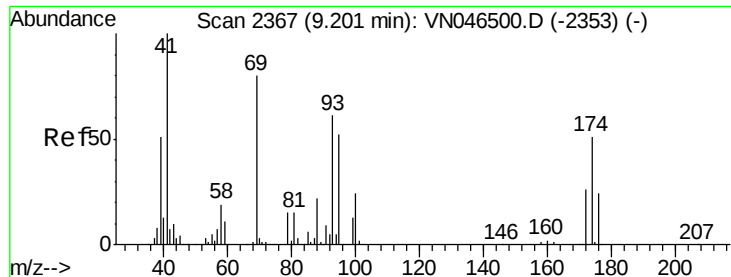
Tgt Ion: 43 Resp: 10972

Ion Ratio Lower Upper

43 100

61 20.7 15.0 22.6

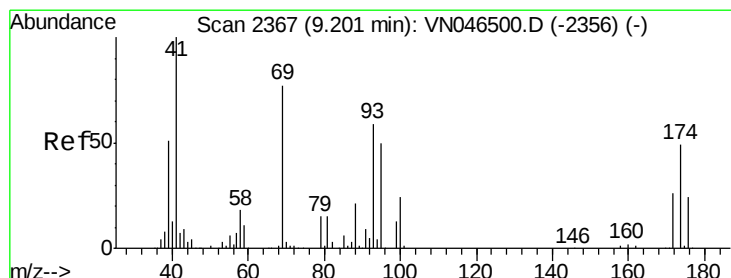
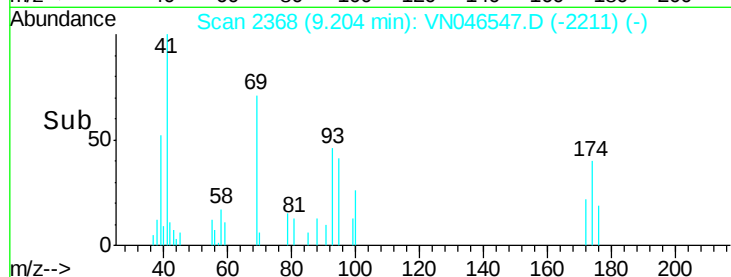
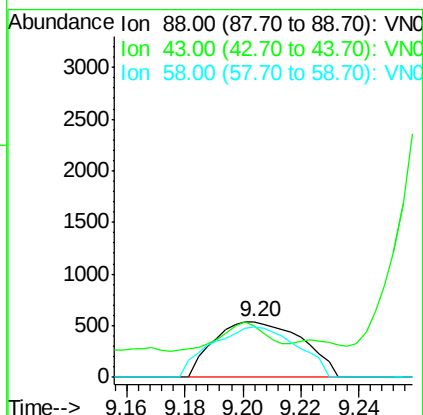
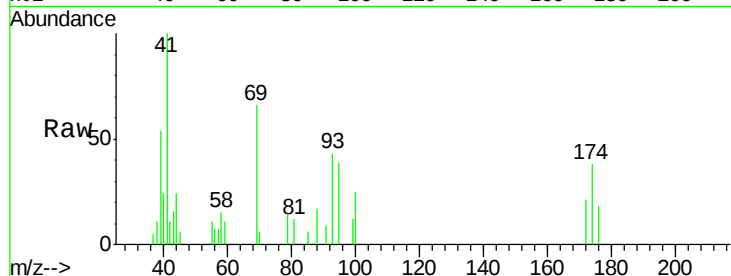




#45
 1,4-Dioxane
 Concen: 39.79 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

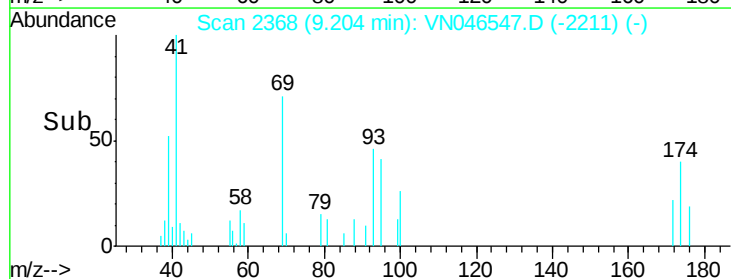
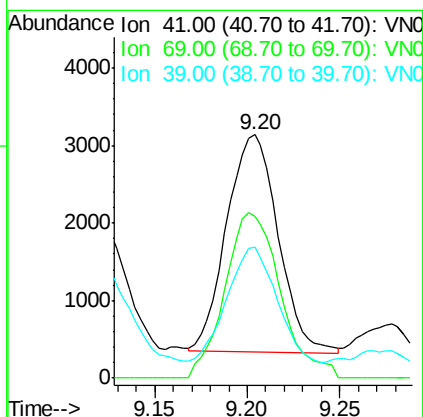
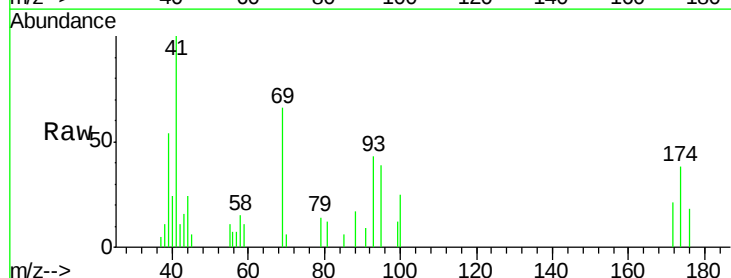
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

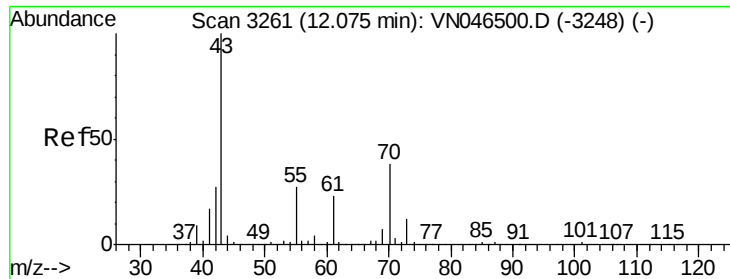
Tgt Ion: 88 Resp: 1140
 Ion Ratio Lower Upper
 88 100
 43 28.1 35.2 52.8#
 58 87.7 71.2 106.8



#46
 Methyl methacrylate
 Concen: 2.01 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion: 41 Resp: 5373
 Ion Ratio Lower Upper
 41 100
 69 75.7 36.0 108.0
 39 53.5 27.6 82.8

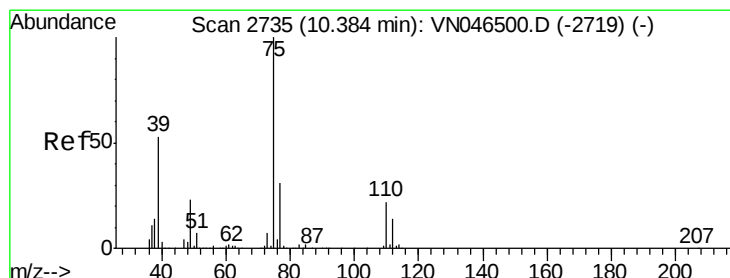
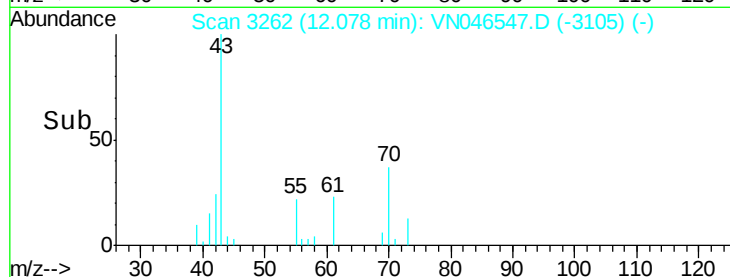
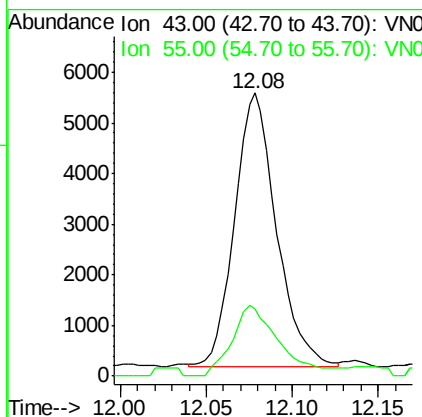
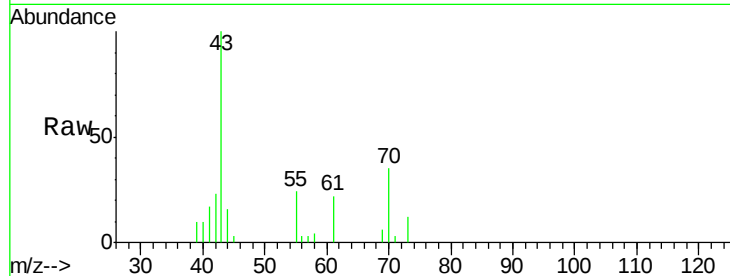




#47
n-amyl Acetate
Concen: 1.84 ug/l
RT: 12.08 min Scan# 3262
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

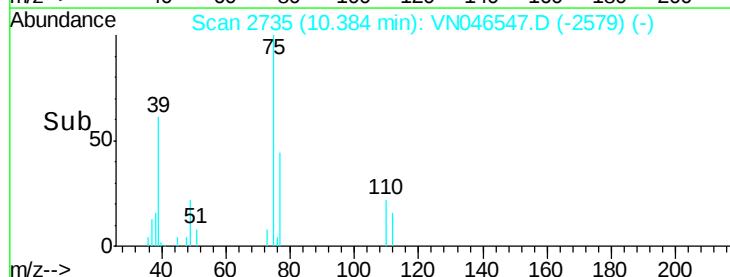
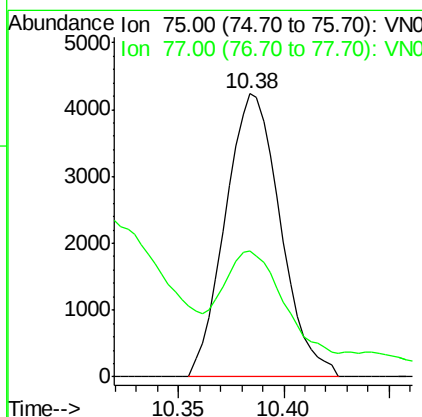
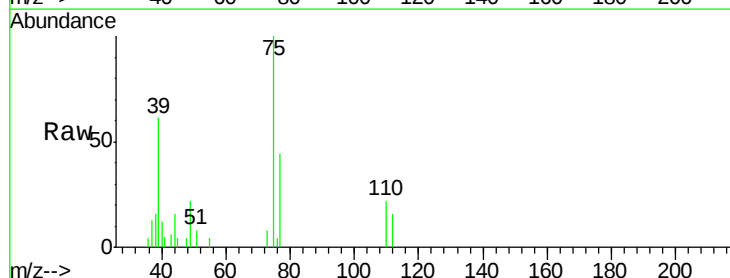
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

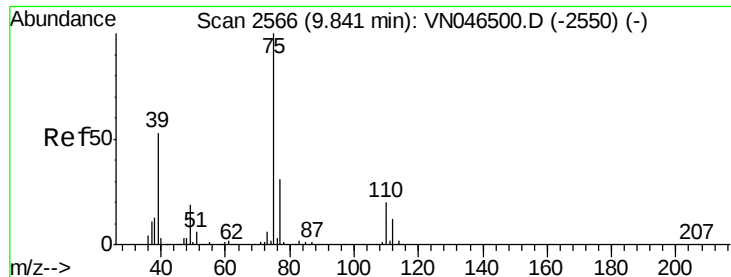
Tgt Ion: 43 Resp: 9166
Ion Ratio Lower Upper
43 100
55 28.8 17.6 26.4#



#48
t-1,3-Dichloropropene
Concen: 1.85 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion: 75 Resp: 7689
Ion Ratio Lower Upper
75 100
77 35.8 25.0 37.4





#49

cis-1,3-Dichloropropene

Concen: 1.87 ug/l

RT: 9.84 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

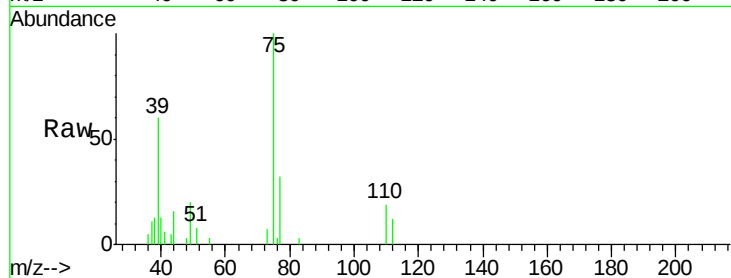
Tgt Ion: 75 Resp: 8917

Ion Ratio Lower Upper

75 100

77 32.1 25.0 37.4

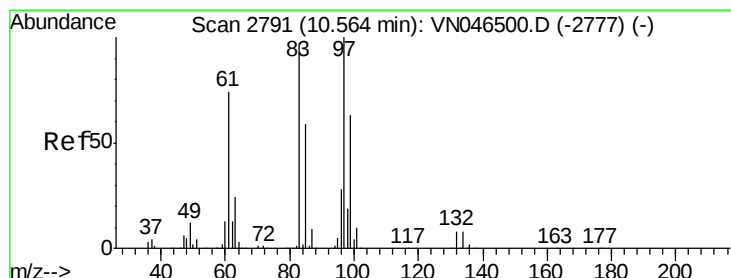
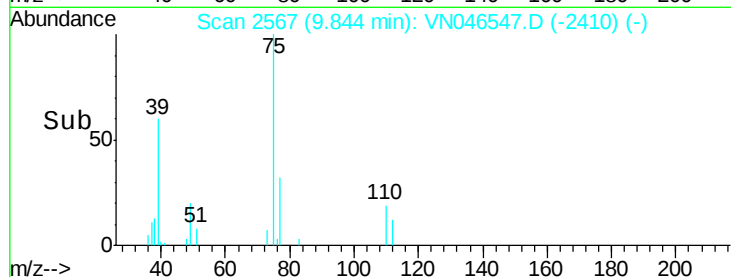
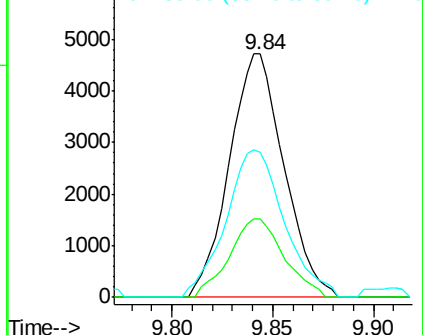
39 59.6 45.1 67.7



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

1,1,2-Trichloroethane

Concen: 2.10 ug/l

RT: 10.56 min Scan# 2791

Delta R.T. -0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Tgt Ion: 97 Resp: 4923

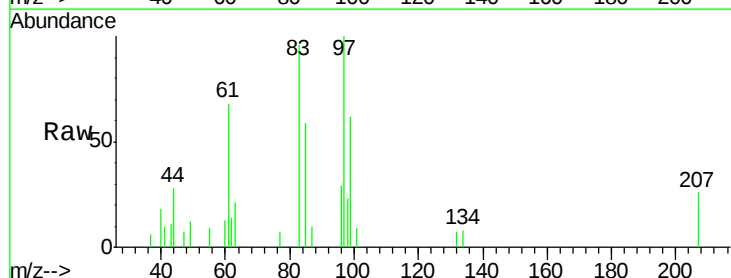
Ion Ratio Lower Upper

97 100

83 95.6 74.8 112.2

85 59.3 47.5 71.3

99 62.4 49.4 74.0

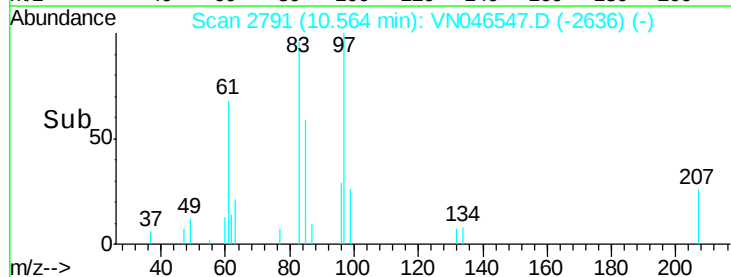
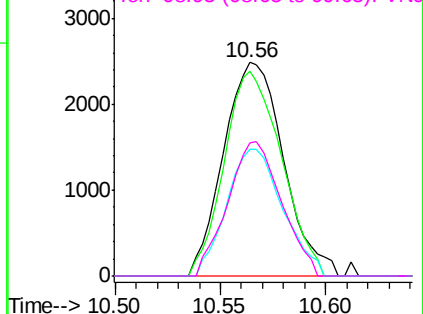


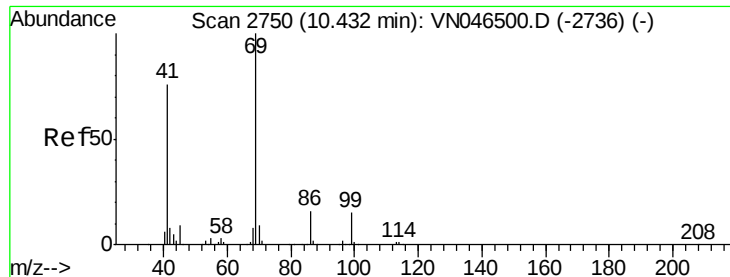
Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0





#51

Ethyl methacrylate

Concen: 1.96 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

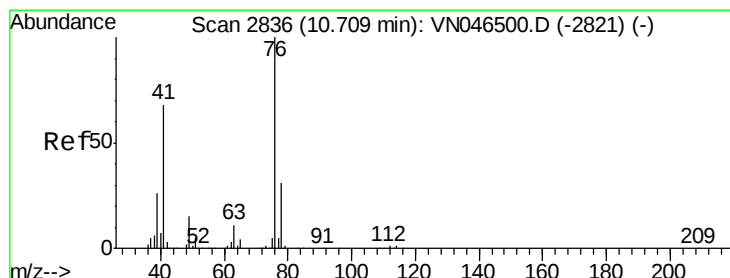
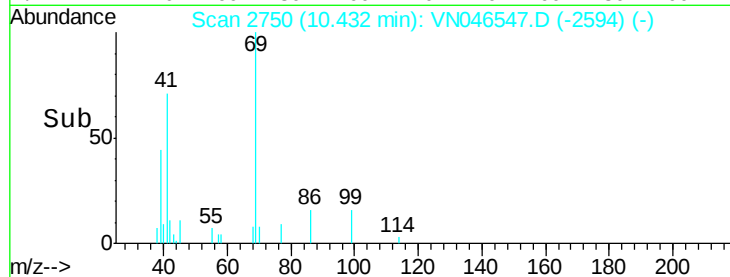
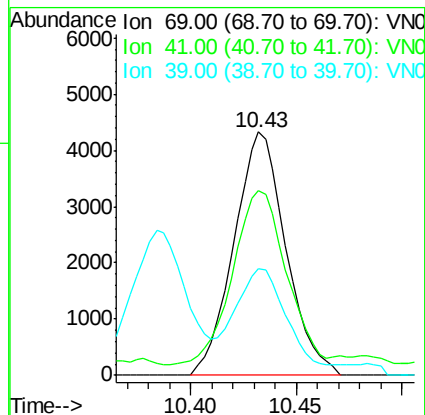
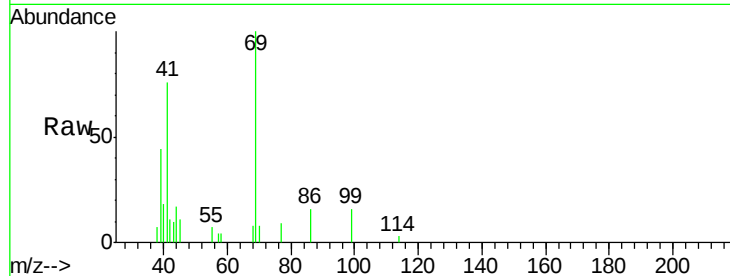
Tgt Ion: 69 Resp: 7394

Ion Ratio Lower Upper

69 100

41 69.5 37.8 113.4

39 39.5 19.3 57.8



#52

1,3-Dichloropropane

Concen: 1.96 ug/l

RT: 10.71 min Scan# 2837

Delta R.T. 0.00 min

Lab File: VN046547.D

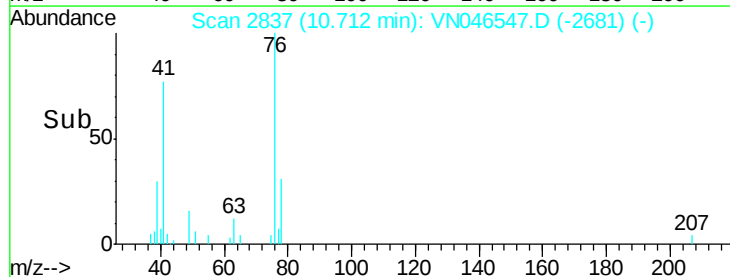
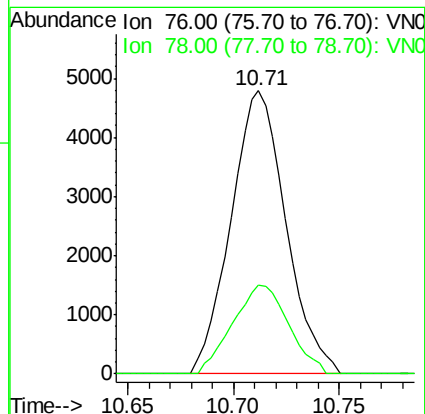
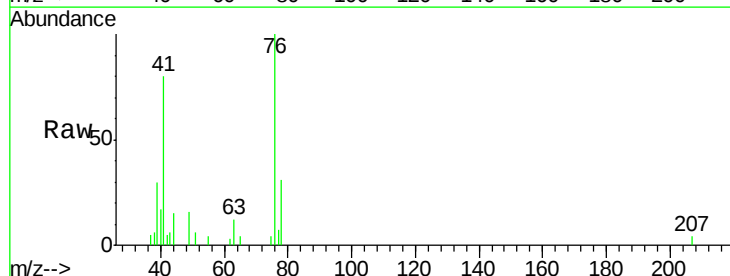
Acq: 24 Jan 2018 16:10

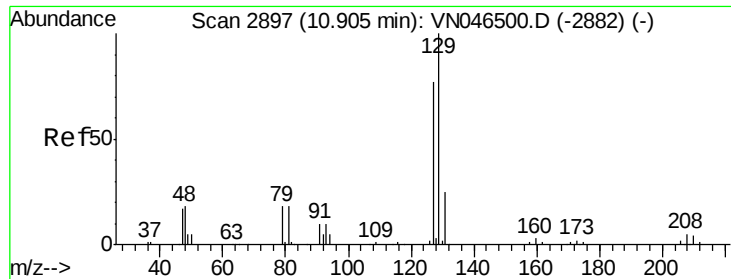
Tgt Ion: 76 Resp: 8660

Ion Ratio Lower Upper

76 100

78 31.9 0.0 63.6

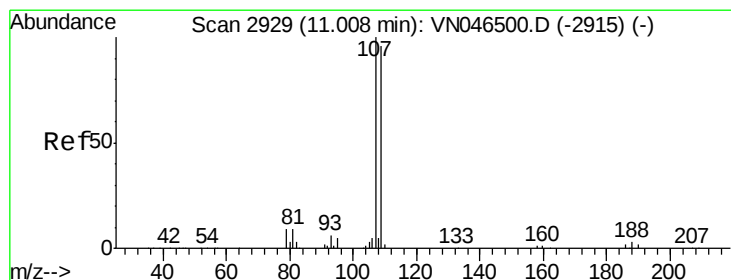
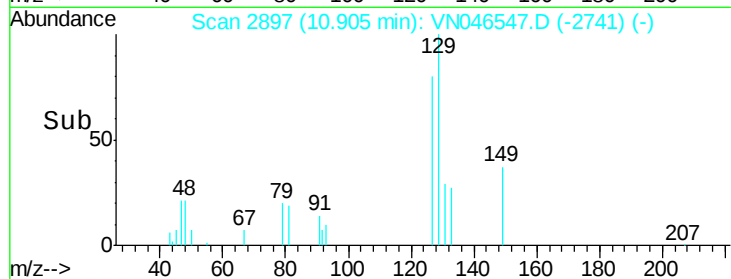
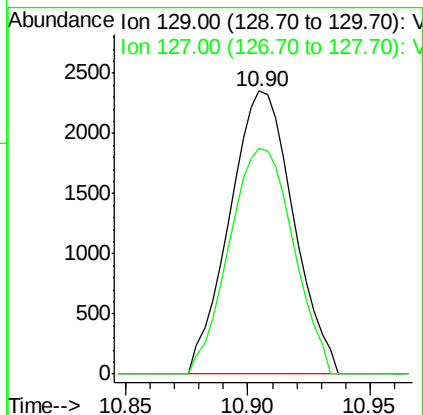
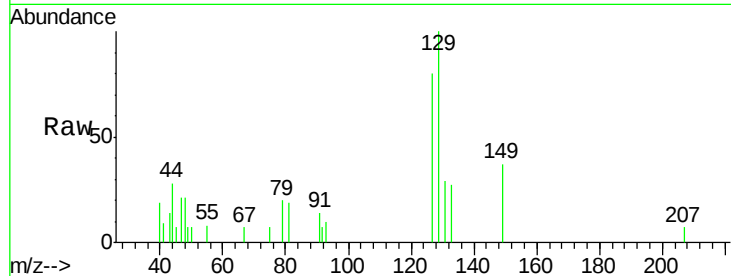




#53
Dibromochloromethane
Concen: 1.78 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

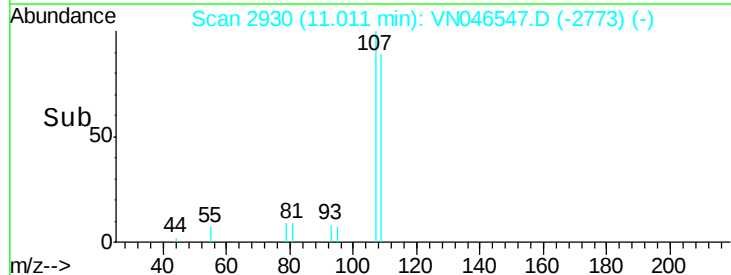
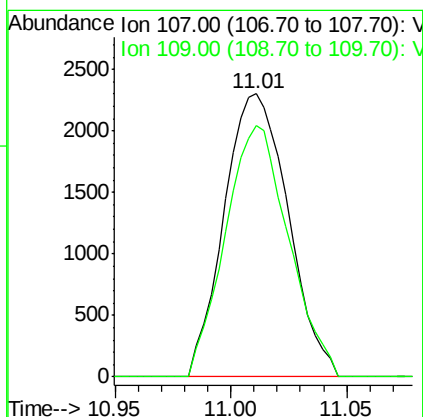
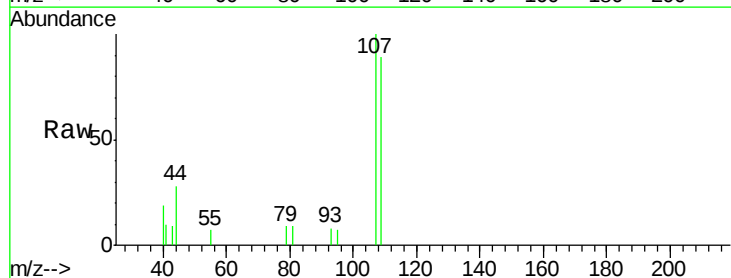
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

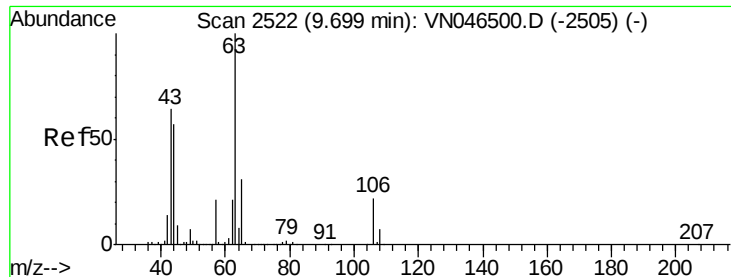
Tgt Ion:129 Resp: 4267
Ion Ratio Lower Upper
129 100
127 80.0 38.6 116.0



#54
1,2-Dibromoethane
Concen: 2.09 ug/l
RT: 11.01 min Scan# 2930
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion:107 Resp: 4417
Ion Ratio Lower Upper
107 100
109 87.7 74.7 112.1

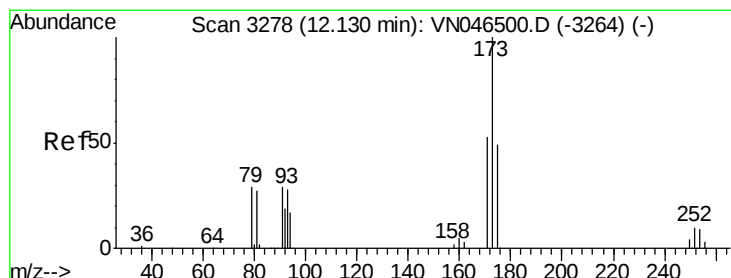
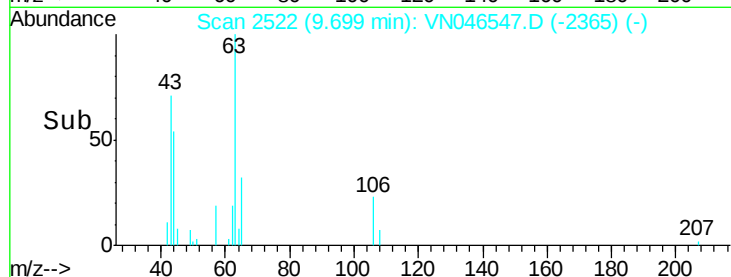
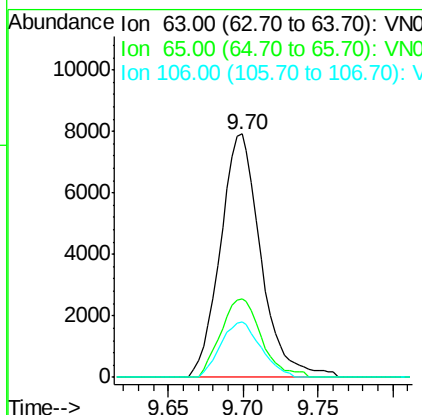
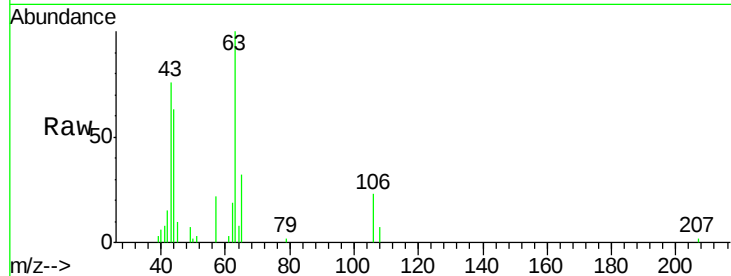




#55
 2-Chloroethyl vinyl ether
 Concen: 9.32 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

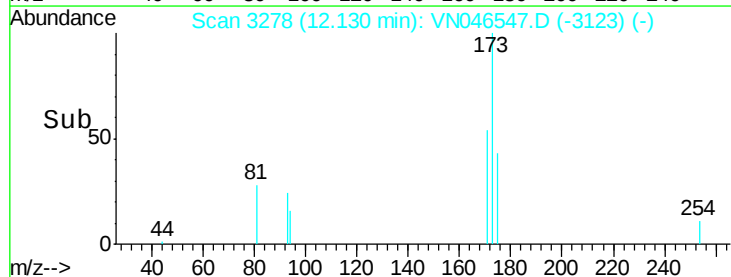
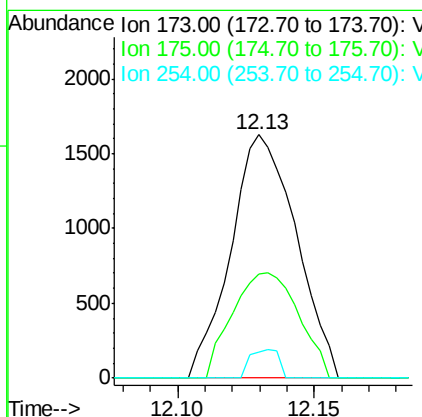
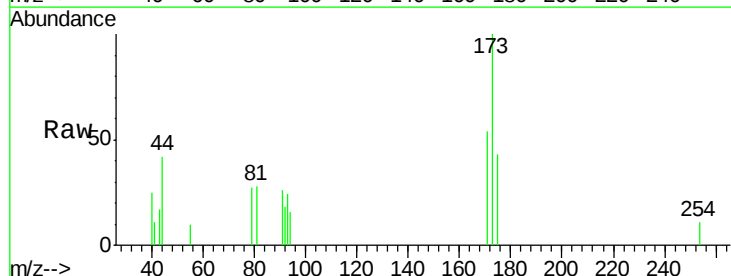
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

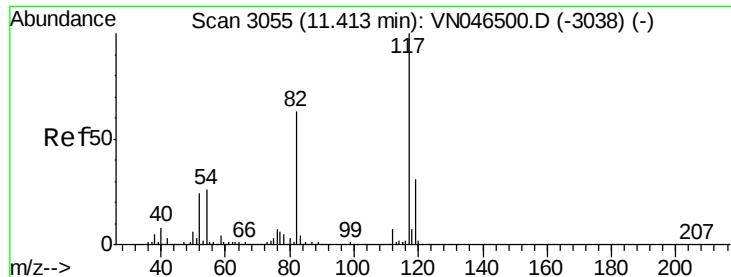
Tgt Ion: 63 Resp: 14940
 Ion Ratio Lower Upper
 63 100
 65 32.2 25.7 38.5
 106 22.6 17.7 26.5



#56
 Bromoform
 Concen: 1.82 ug/l
 RT: 12.13 min Scan# 3278
 Delta R.T. -0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion: 173 Resp: 2701
 Ion Ratio Lower Upper
 173 100
 175 43.9 38.5 57.7
 254 5.0 7.3 10.9#





#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

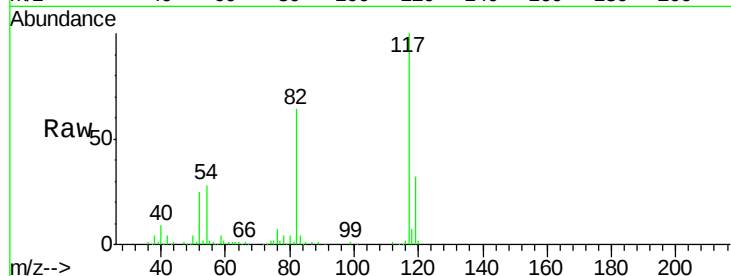
Tgt Ion:117 Resp: 181908

Ion Ratio Lower Upper

117 100

82 63.7 51.5 77.3

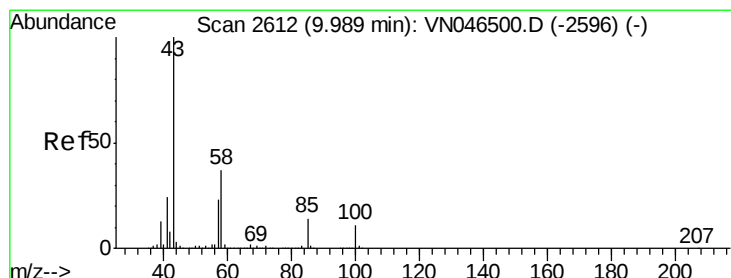
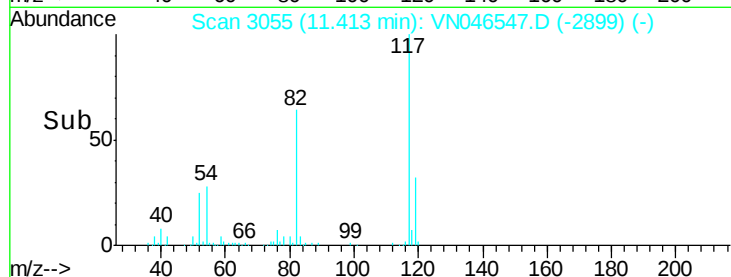
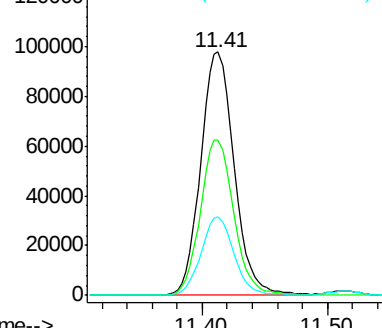
119 31.8 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 10.84 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

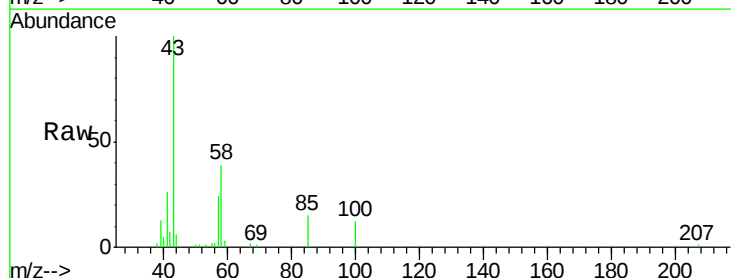
Tgt Ion: 43 Resp: 30321

Ion Ratio Lower Upper

43 100

58 37.4 29.4 44.2

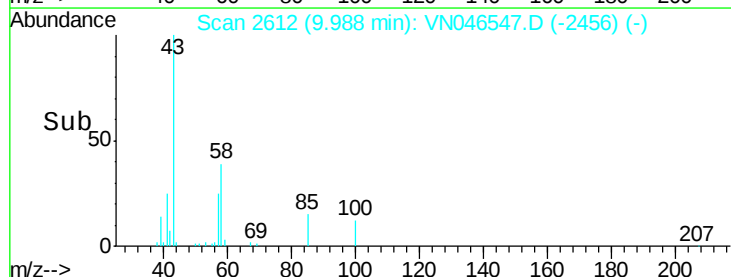
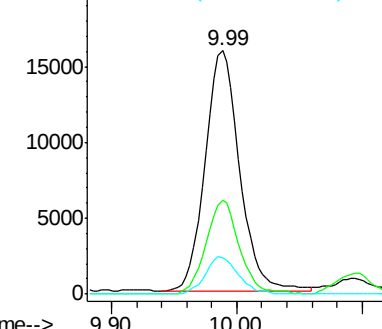
85 14.7 11.5 17.3

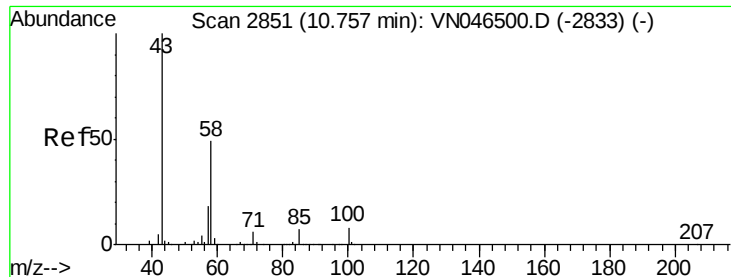


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V

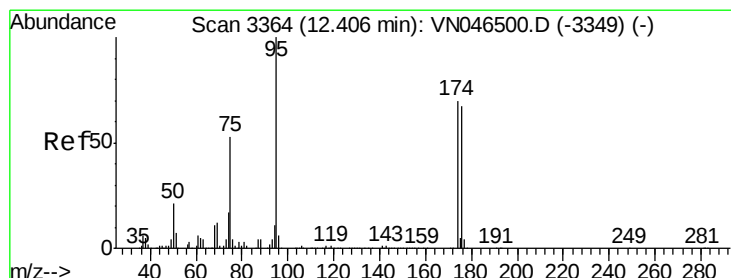
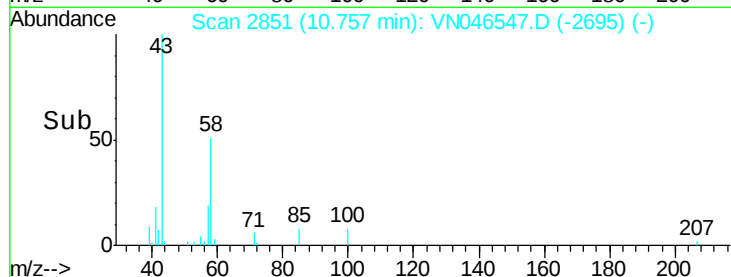
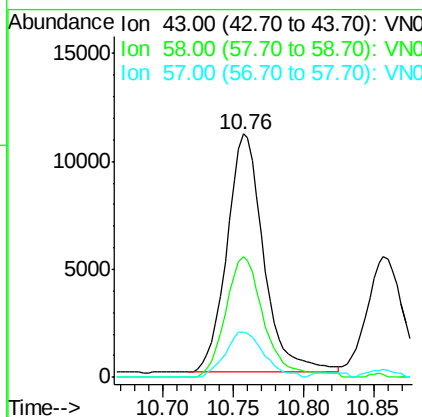
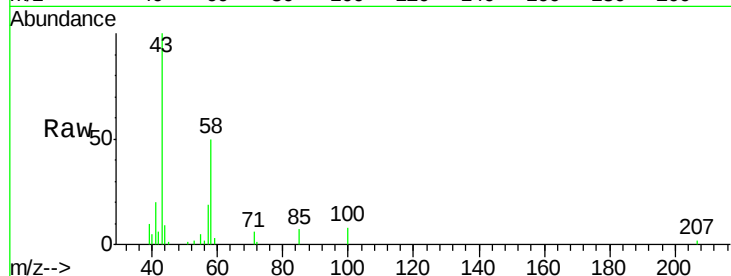




#59
2-Hexanone
Concen: 10.14 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

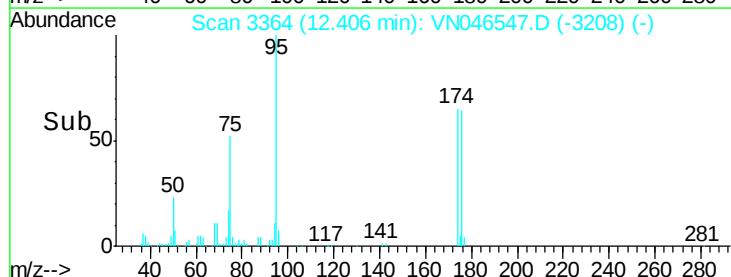
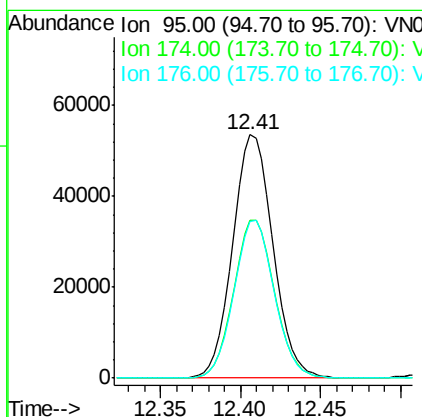
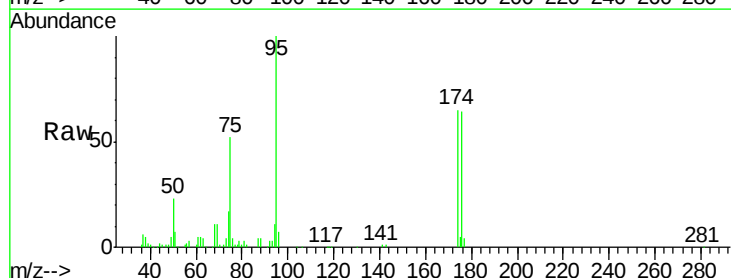
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

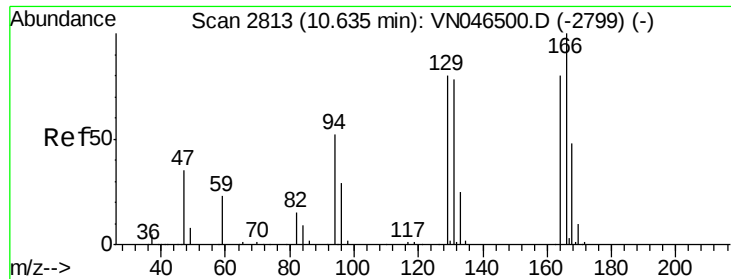
Tgt Ion: 43 Resp: 20086
Ion Ratio Lower Upper
43 100
58 51.8 41.4 62.0
57 19.8 14.9 22.3



#60
4-Bromofluorobenzene
Concen: 28.26 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion: 95 Resp: 92023
Ion Ratio Lower Upper
95 100
174 65.6 52.5 78.7
176 64.6 50.6 75.8

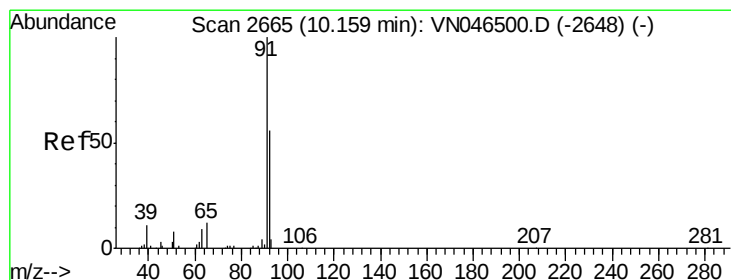
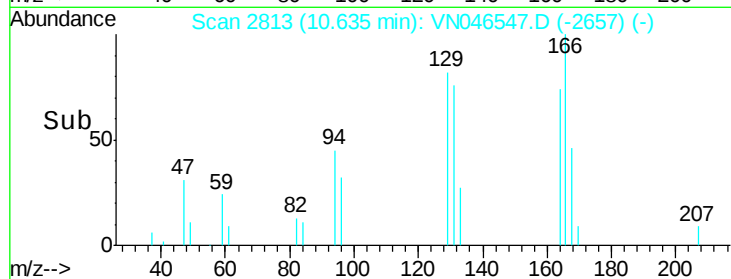
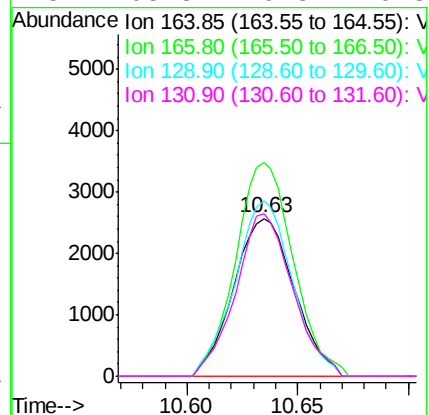
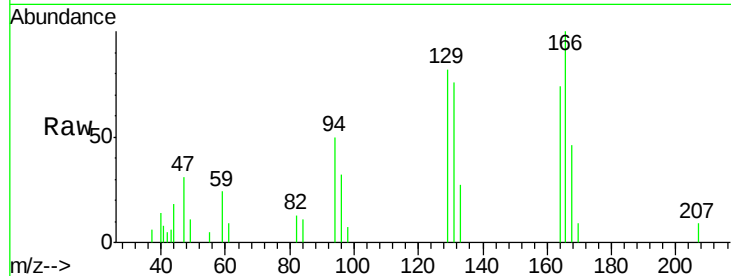




#61
Tetrachloroethene
Concen: 2.40 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

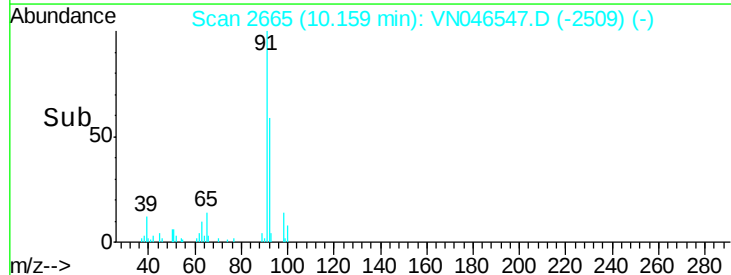
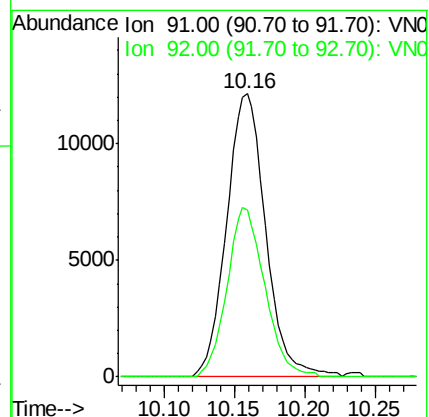
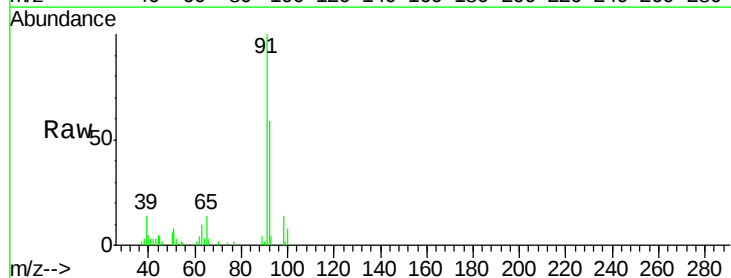
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

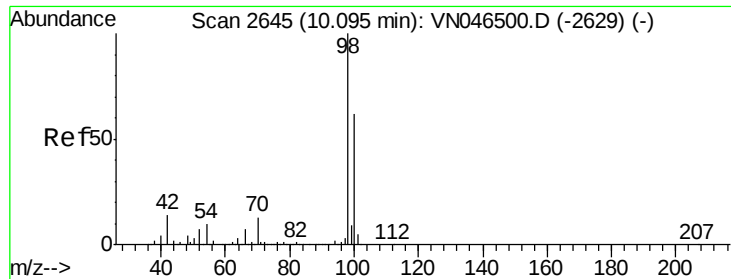
Tgt Ion:164 Resp: 4897
Ion Ratio Lower Upper
164 100
166 135.3 101.6 152.4
129 111.1 83.8 125.6
131 103.3 79.8 119.8



#62
Toluene
Concen: 2.11 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion: 91 Resp: 23501
Ion Ratio Lower Upper
91 100
92 57.8 45.6 68.4





#63

Toluene-d8

Concen: 30.65 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

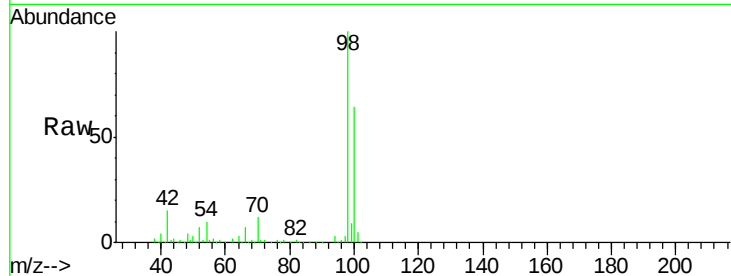
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 98 Resp: 269218

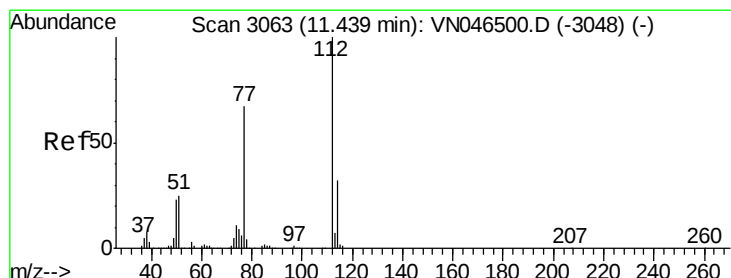
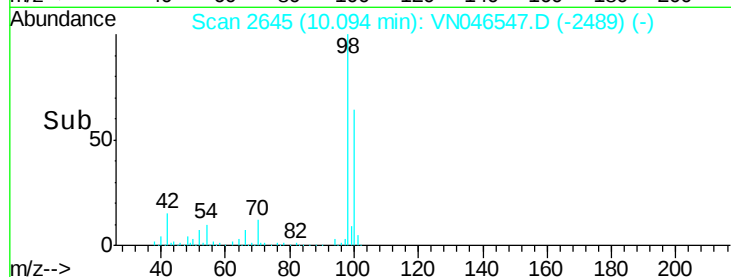
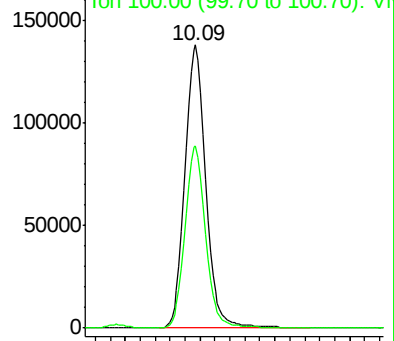
Ion Ratio Lower Upper

98 100

100 63.5 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN046500.D (-2629) (-)



#64

Chlorobenzene

Concen: 2.00 ug/l

RT: 11.44 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN046547.D

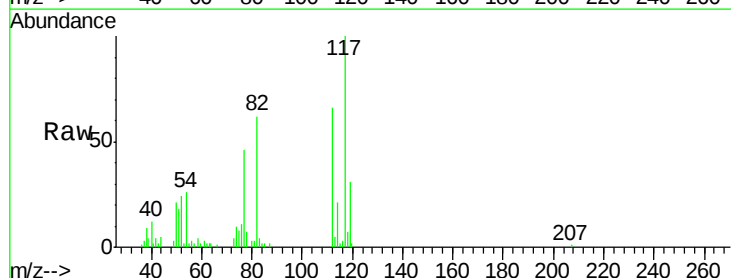
Acq: 24 Jan 2018 16:10

Tgt Ion: 112 Resp: 13002

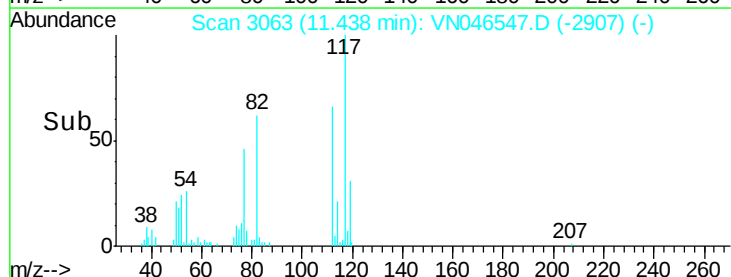
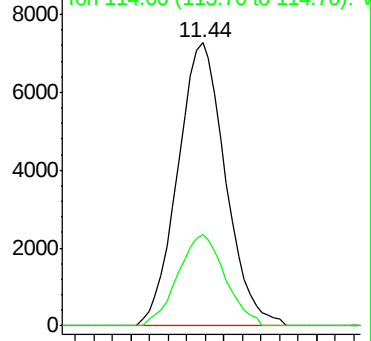
Ion Ratio Lower Upper

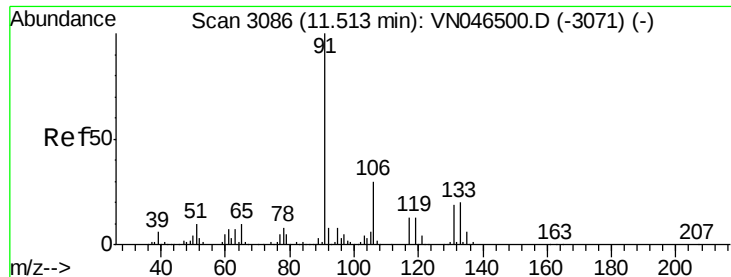
112 100

114 32.2 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN046500.D (-3048) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 1.97 ug/l

RT: 11.52 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

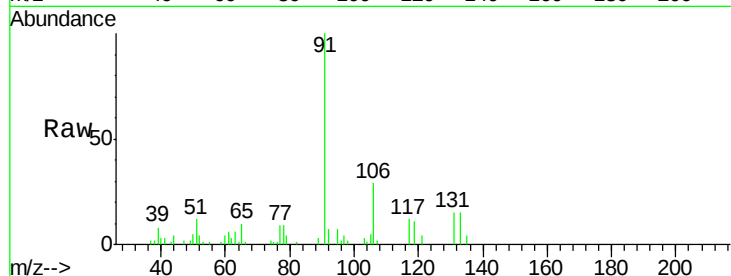
Tgt Ion:131 Resp: 4304

Ion Ratio Lower Upper

131 100

133 97.6 0.0 191.6

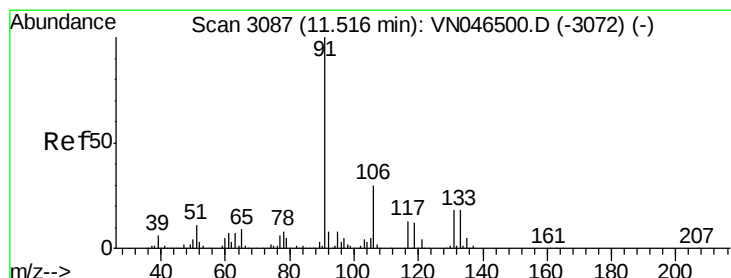
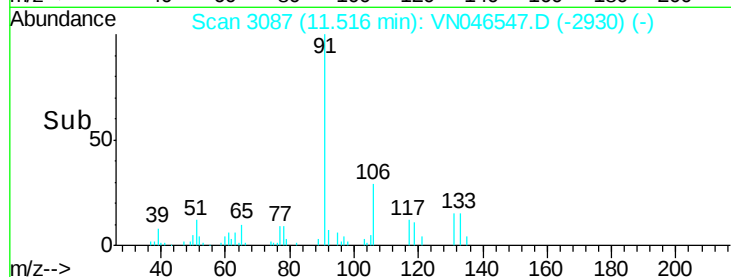
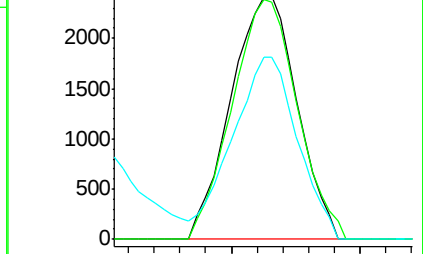
119 74.2 0.0 141.2



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 2.21 ug/l

RT: 11.52 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VN046547.D

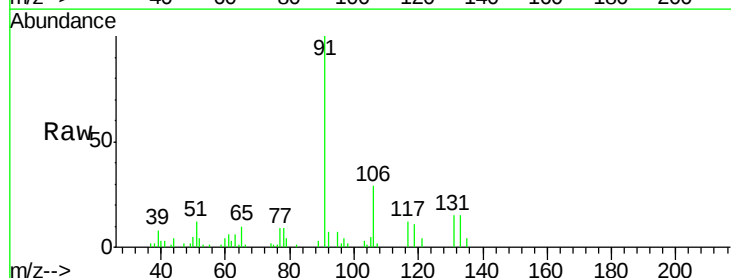
Acq: 24 Jan 2018 16:10

Tgt Ion: 91 Resp: 27002

Ion Ratio Lower Upper

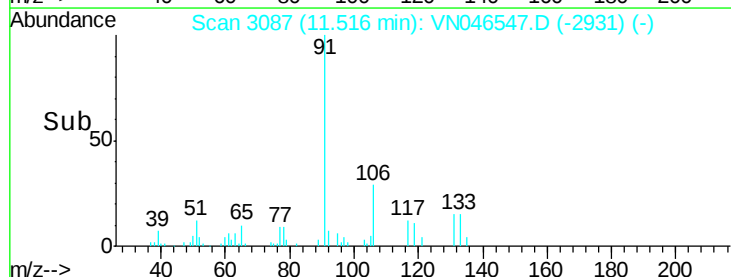
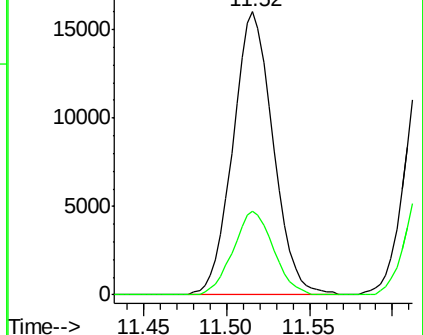
91 100

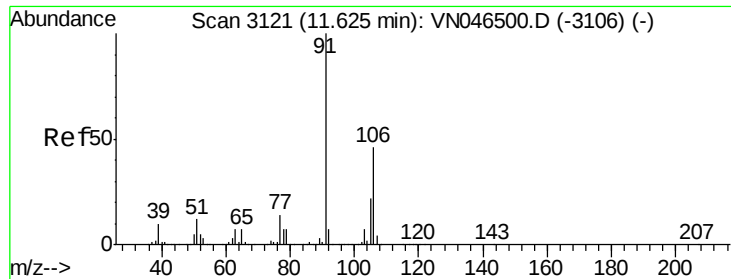
106 29.4 23.4 35.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

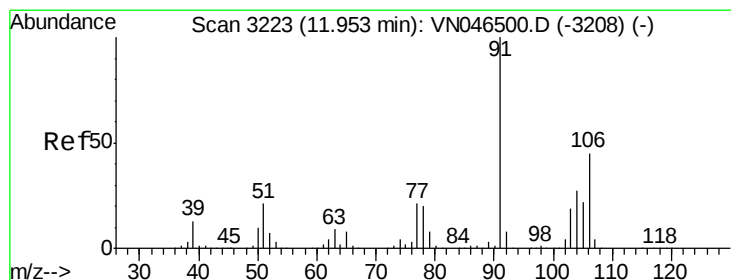
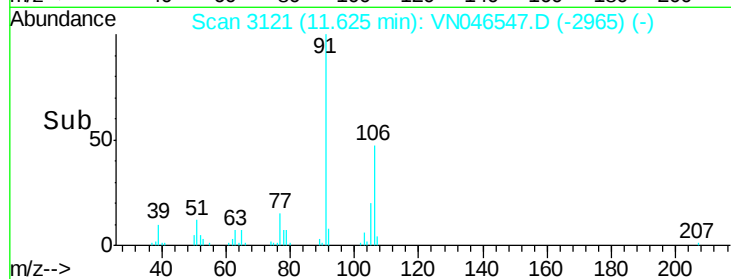
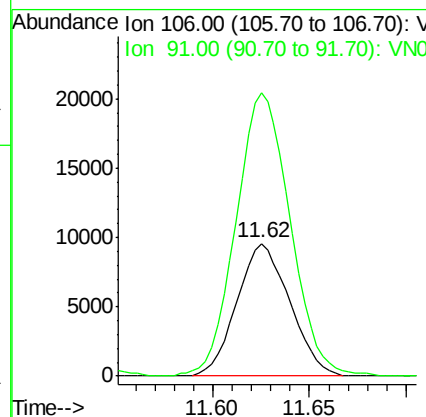
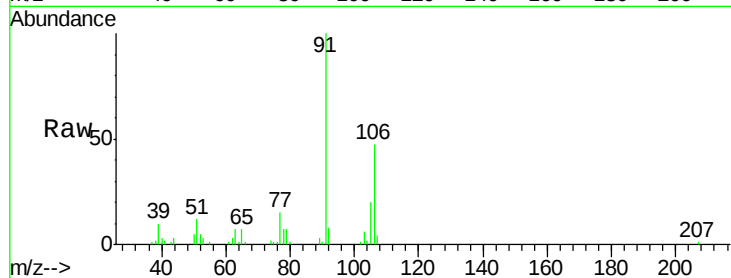




#67
m/p-Xylenes
Concen: 4.13 ug/l
RT: 11.62 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

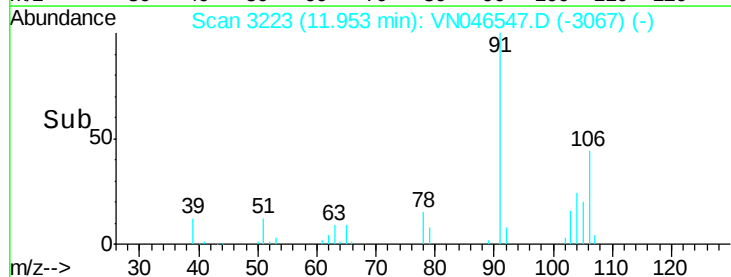
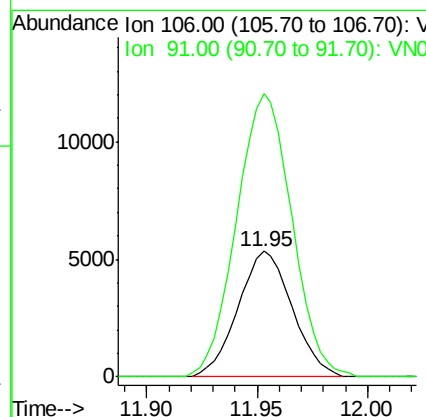
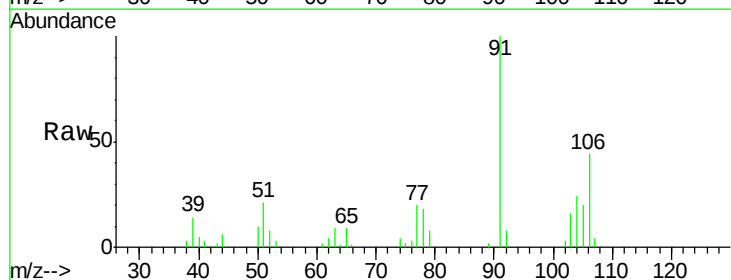
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

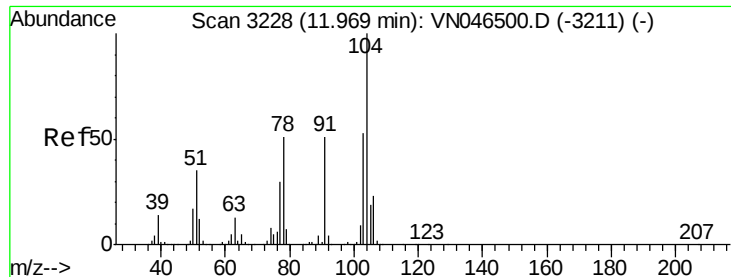
Tgt Ion:106 Resp: 18136
Ion Ratio Lower Upper
106 100
91 219.3 173.8 260.8



#68
o-Xylene
Concen: 2.15 ug/l
RT: 11.95 min Scan# 3223
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion:106 Resp: 9138
Ion Ratio Lower Upper
106 100
91 229.8 115.7 346.9





#69

Styrene

Concen: 2.16 ug/l

RT: 11.97 min Scan# 3228

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

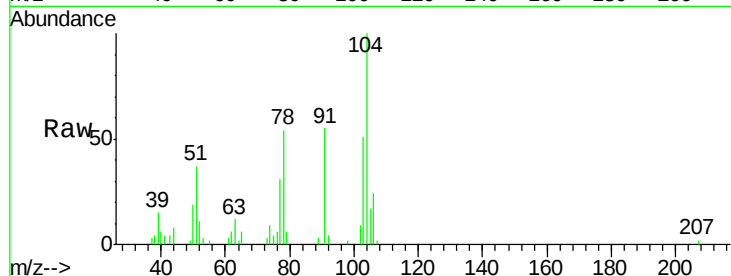
Tgt Ion:104 Resp: 15202

Ion Ratio Lower Upper

104 100

78 57.9 45.5 68.3

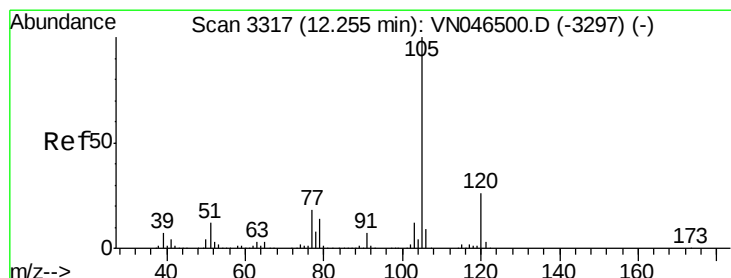
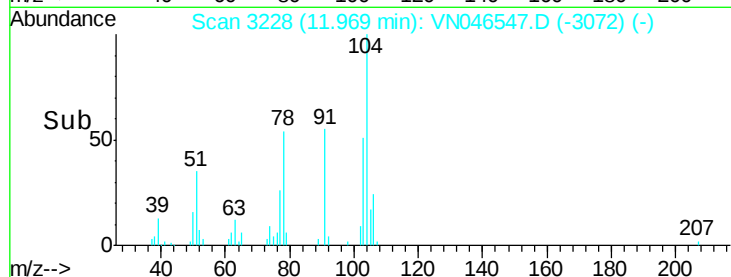
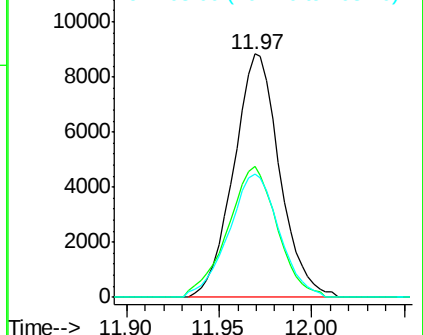
103 55.5 45.0 67.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 2.10 ug/l

RT: 12.26 min Scan# 3317

Delta R.T. 0.00 min

Lab File: VN046547.D

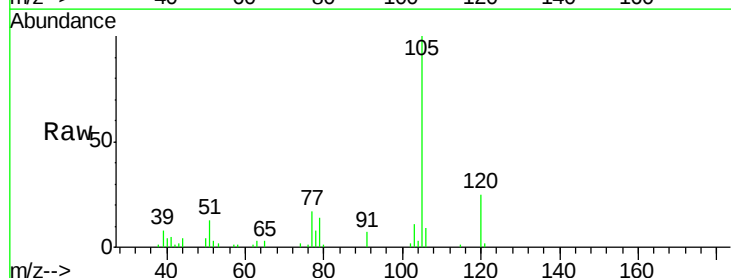
Acq: 24 Jan 2018 16:10

Tgt Ion:105 Resp: 23743

Ion Ratio Lower Upper

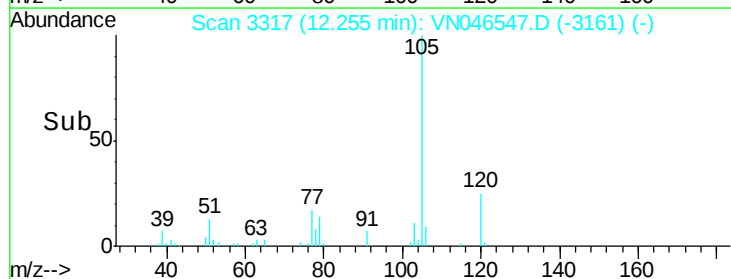
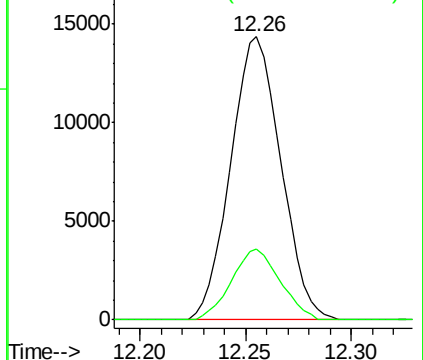
105 100

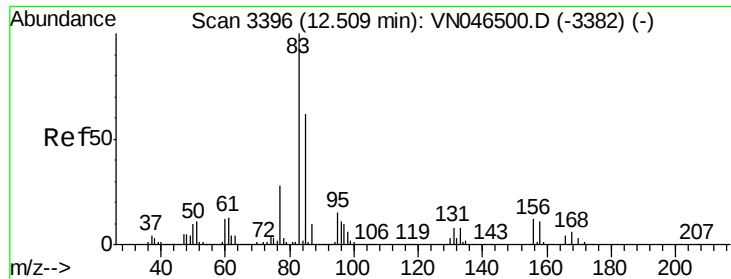
120 24.2 17.8 33.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#71

1,1,2,2-Tetrachloroethane

Concen: 2.20 ug/l

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

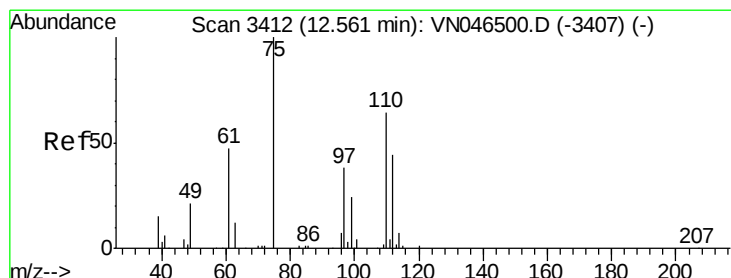
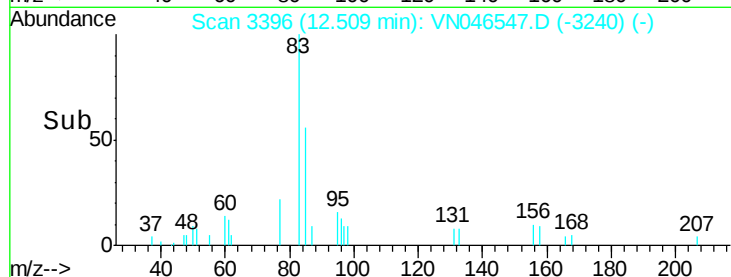
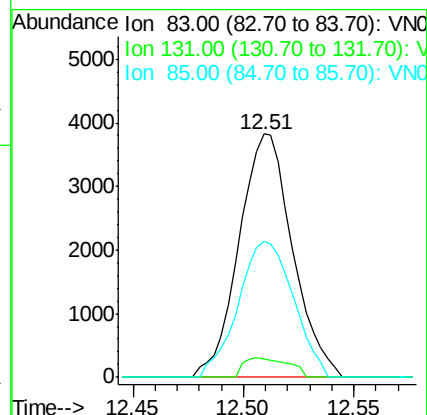
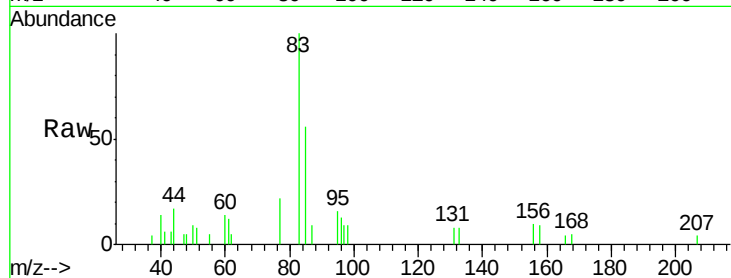
Tgt Ion: 83 Resp: 6428

Ion Ratio Lower Upper

83 100

131 6.7 4.5 13.5

85 57.6 32.4 97.2



#72

1,2,3-Trichloropropane

Concen: 3.26 ug/l

RT: 12.56 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN046547.D

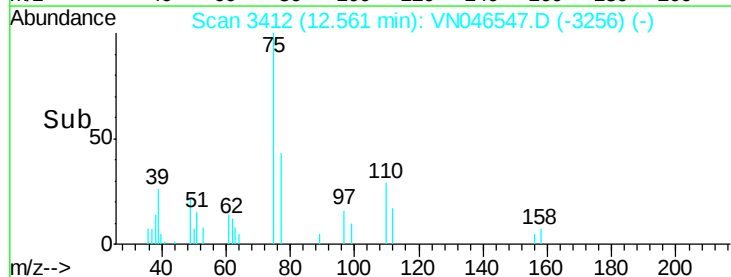
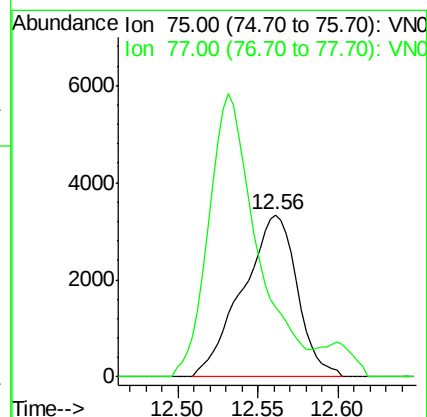
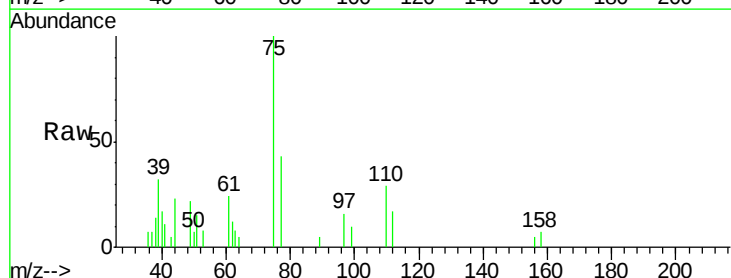
Acq: 24 Jan 2018 16:10

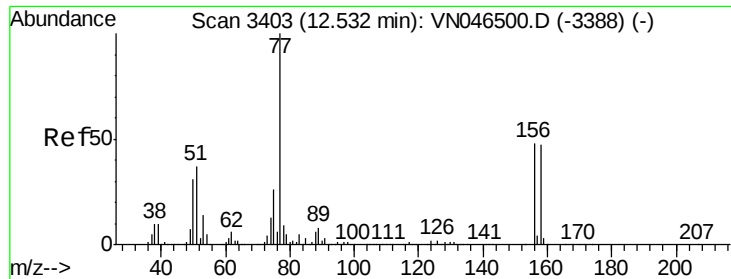
Tgt Ion: 75 Resp: 7858

Ion Ratio Lower Upper

75 100

77 155.5 0.0 479.2





#73

Bromobenzene

Concen: 2.05 ug/l

RT: 12.53 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

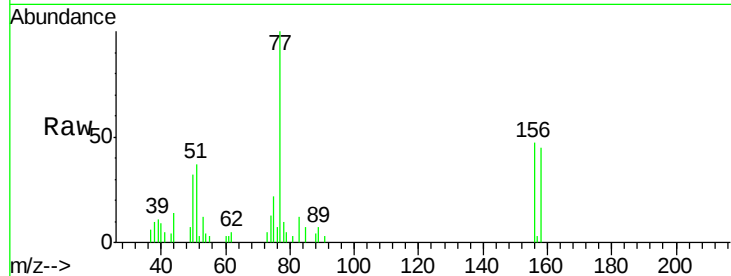
Tgt Ion:156 Resp: 4868

Ion Ratio Lower Upper

156 100

77 251.0 0.0 516.8

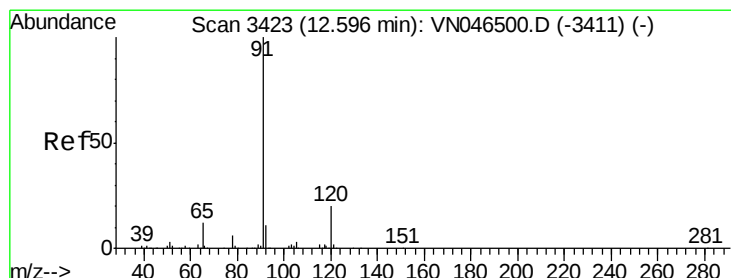
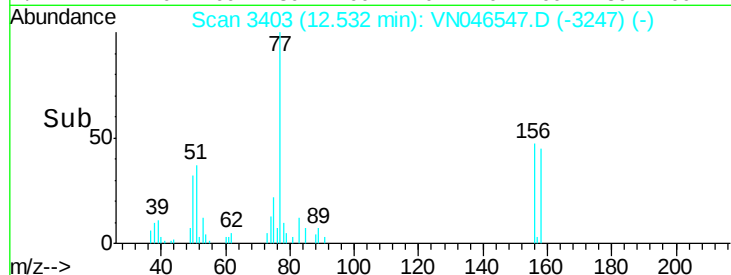
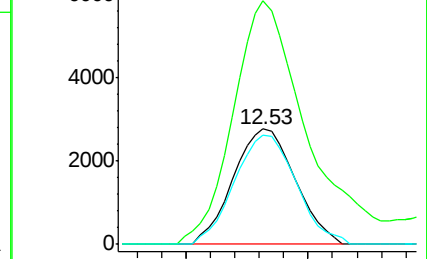
158 94.6 0.0 195.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 1.92 ug/l

RT: 12.60 min Scan# 3424

Delta R.T. 0.00 min

Lab File: VN046547.D

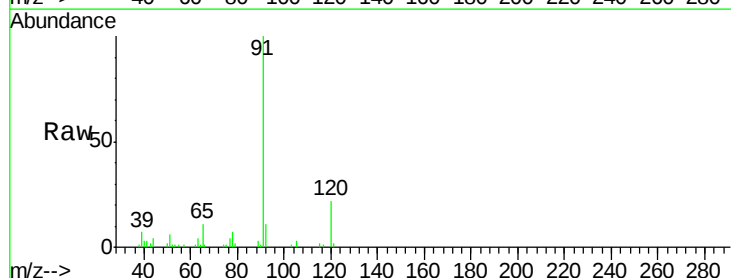
Acq: 24 Jan 2018 16:10

Tgt Ion: 91 Resp: 27320

Ion Ratio Lower Upper

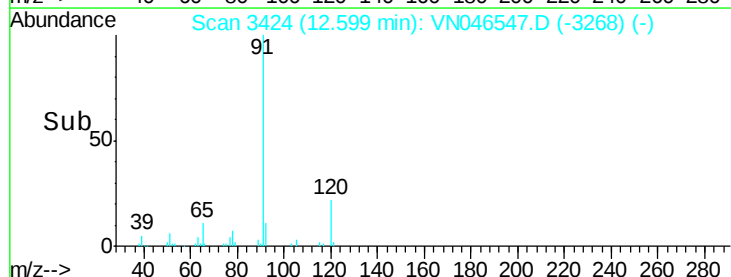
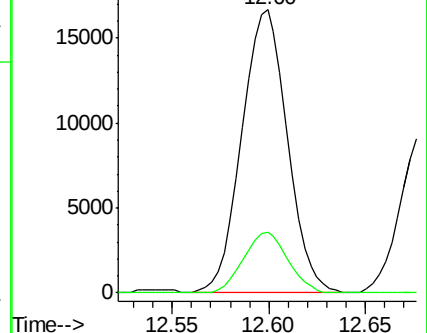
91 100

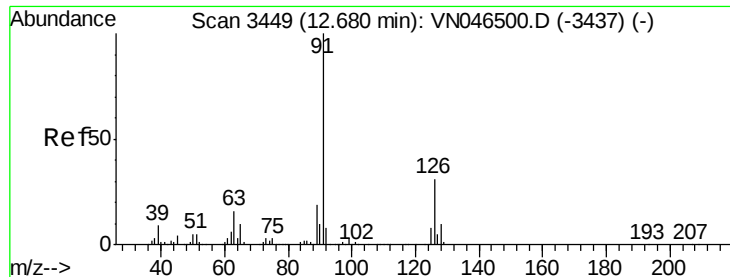
120 20.8 0.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.04 ug/l

RT: 12.68 min Scan# 3450

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

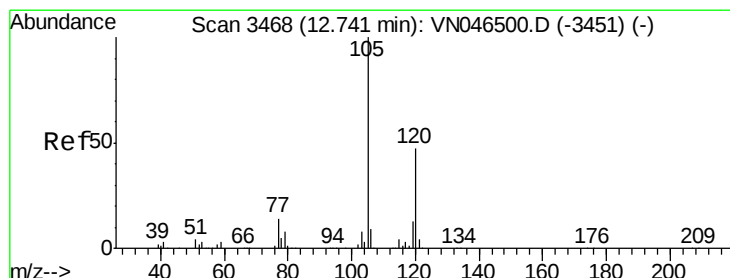
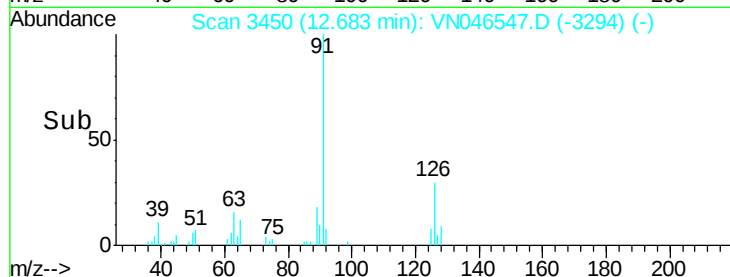
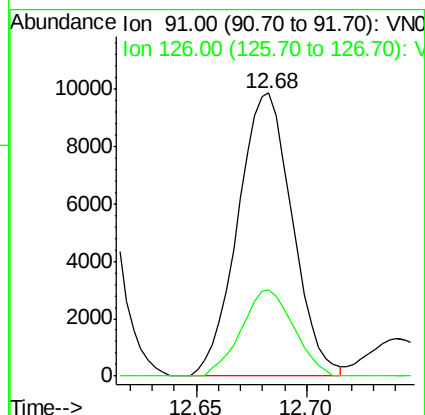
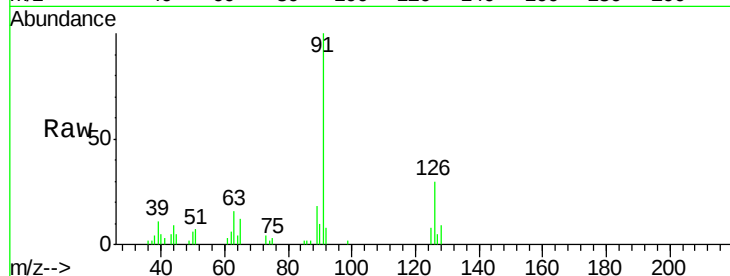
LOD-MDL-WATER-01-QT1-2018

Tgt Ion: 91 Resp: 16891

Ion Ratio Lower Upper

91 100

126 29.3 0.0 60.2



#76

1,3,5-Trimethylbenzene

Concen: 1.99 ug/l

RT: 12.74 min Scan# 3468

Delta R.T. 0.00 min

Lab File: VN046547.D

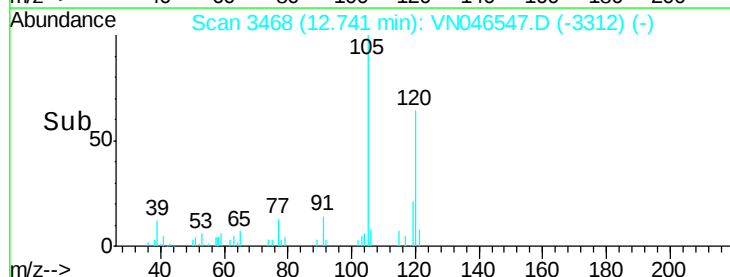
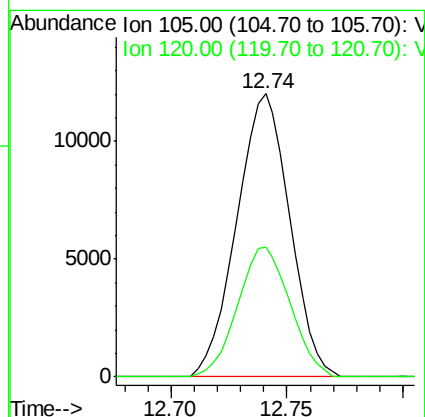
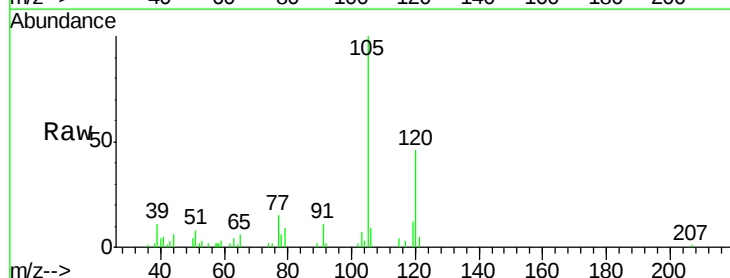
Acq: 24 Jan 2018 16:10

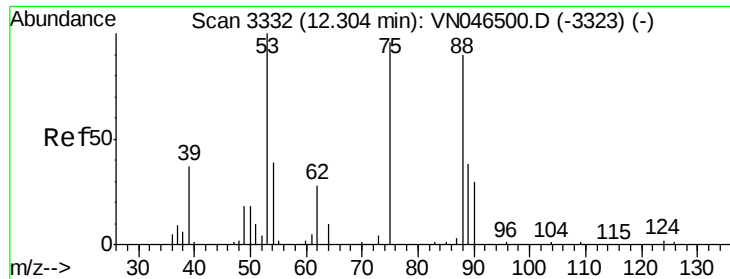
Tgt Ion: 105 Resp: 19069

Ion Ratio Lower Upper

105 100

120 45.5 0.0 93.4





#77

t-1,4-Dichloro-2-butene

Concen: 1.96 ug/l

RT: 12.31 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

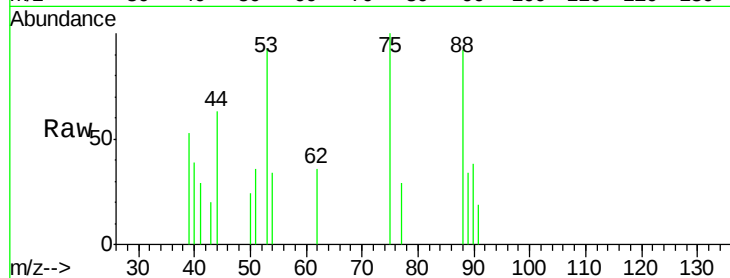
Tgt Ion: 75 Resp: 1785

Ion Ratio Lower Upper

75 100

53 92.6 46.8 140.3

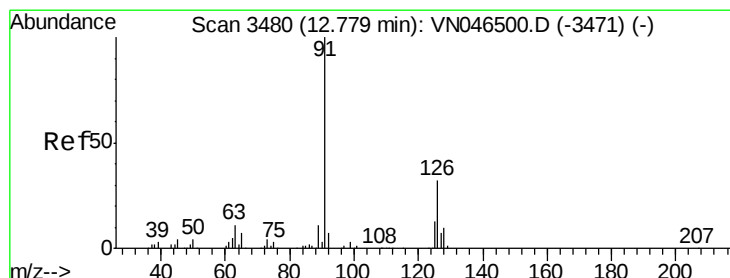
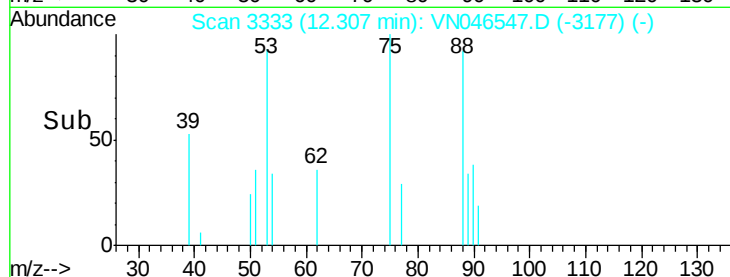
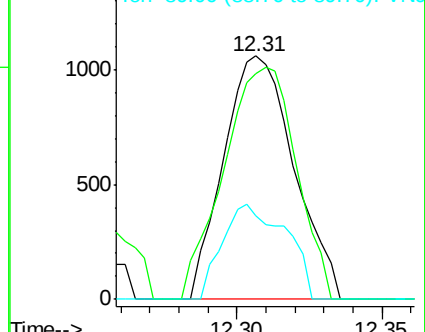
89 34.4 20.2 60.5



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 1.94 ug/l

RT: 12.78 min Scan# 3480

Delta R.T. 0.00 min

Lab File: VN046547.D

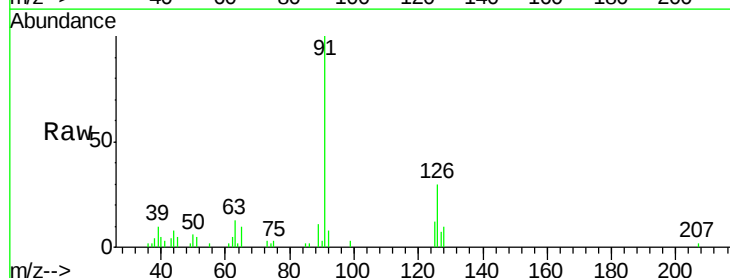
Acq: 24 Jan 2018 16:10

Tgt Ion: 91 Resp: 16435

Ion Ratio Lower Upper

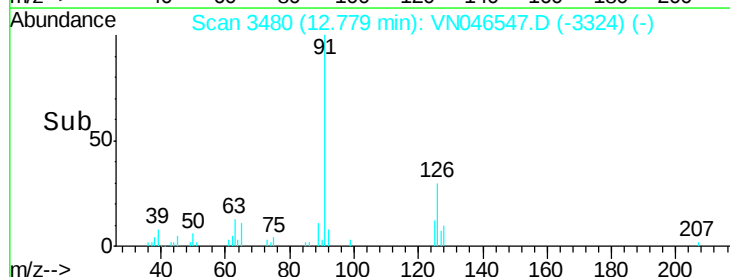
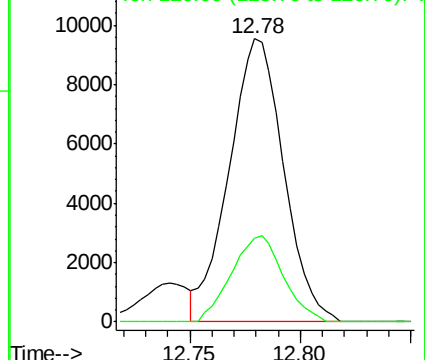
91 100

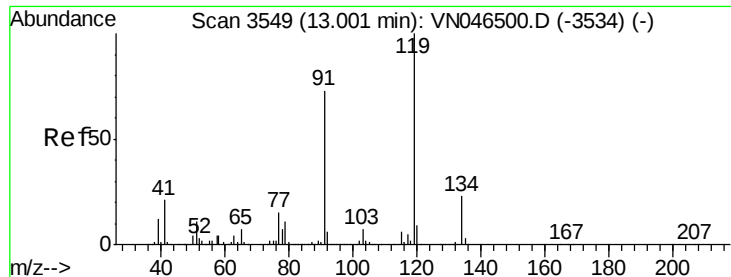
126 28.8 0.0 58.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

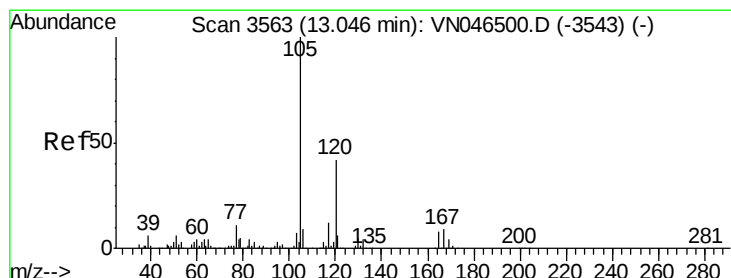
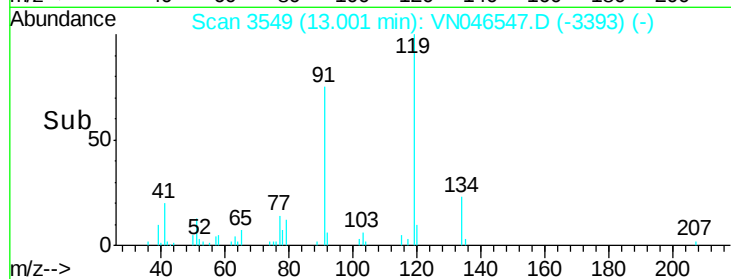
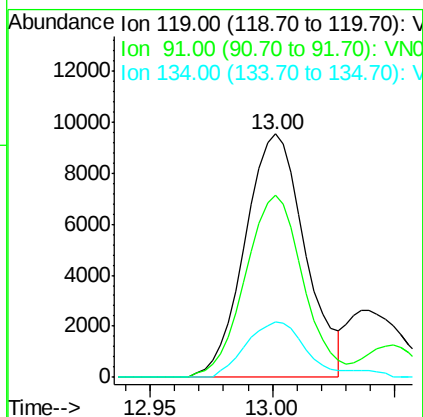
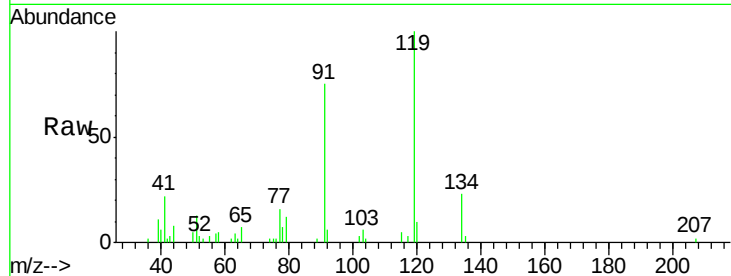




#79
tert-butylbenzene
Concen: 2.04 ug/l
RT: 13.00 min Scan# 3549
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

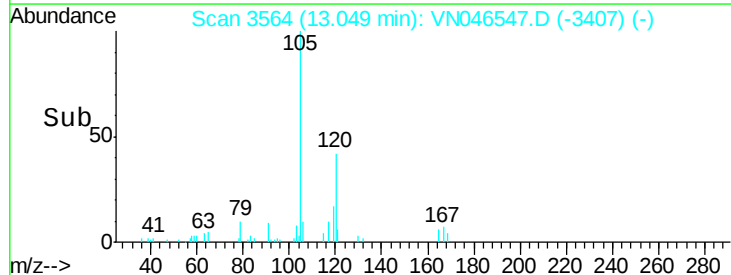
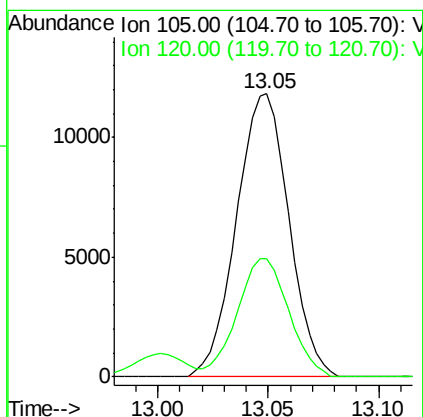
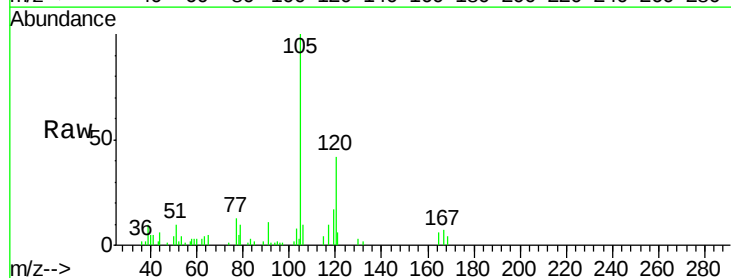
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

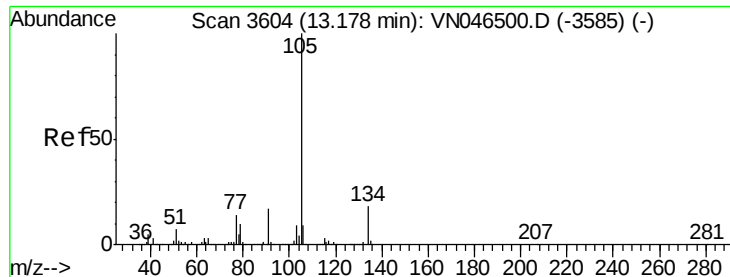
Tgt Ion:119 Resp: 16299
Ion Ratio Lower Upper
119 100
91 72.2 0.0 143.4
134 22.4 0.0 48.4



#80
1,2,4-Trimethylbenzene
Concen: 2.02 ug/l
RT: 13.05 min Scan# 3564
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion:105 Resp: 19564
Ion Ratio Lower Upper
105 100
120 41.3 0.0 0.2#

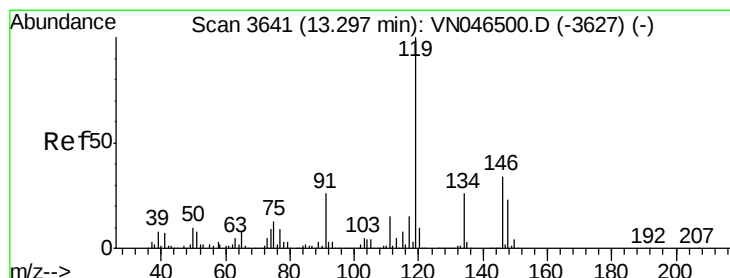
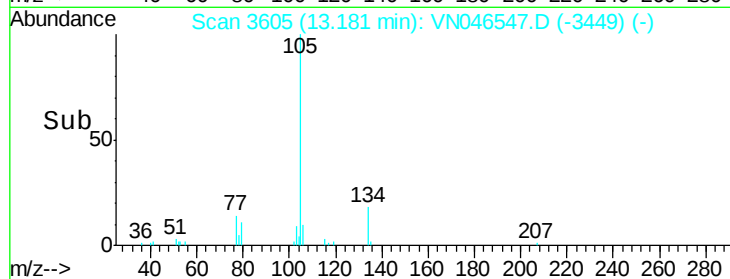
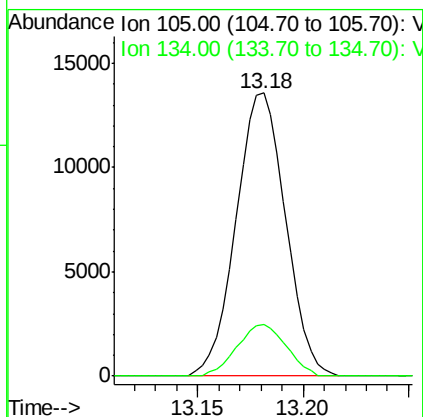
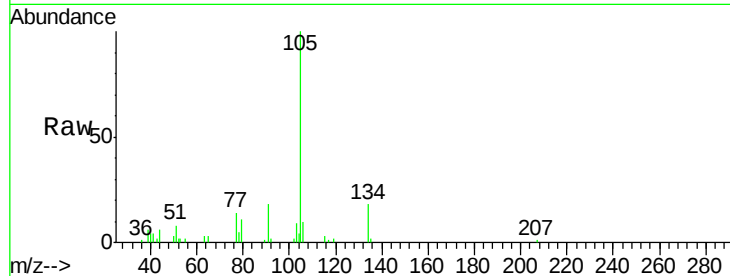




#81
 sec-Butylbenzene
 Concen: 1.91 ug/l
 RT: 13.18 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

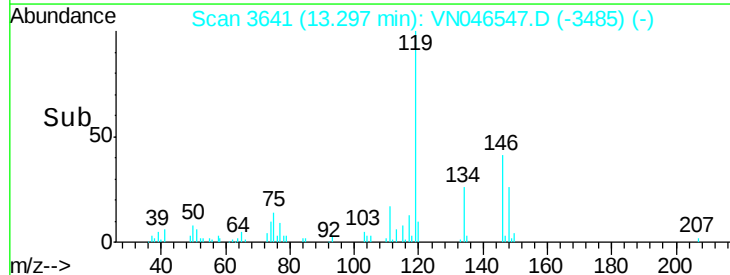
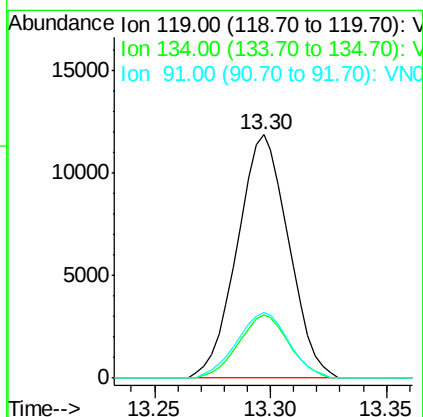
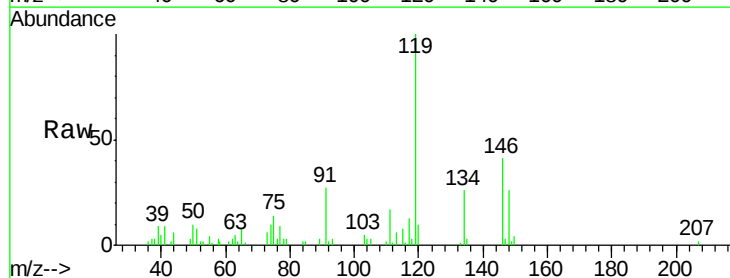
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

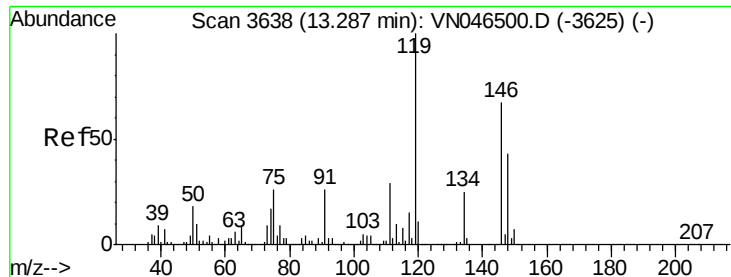
Tgt Ion:105 Resp: 22136
 Ion Ratio Lower Upper
 105 100
 134 18.2 0.0 36.6



#82
 p-Isopropyltoluene
 Concen: 1.88 ug/l
 RT: 13.30 min Scan# 3641
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion:119 Resp: 18229
 Ion Ratio Lower Upper
 119 100
 134 25.5 0.0 50.4
 91 27.3 0.0 51.4

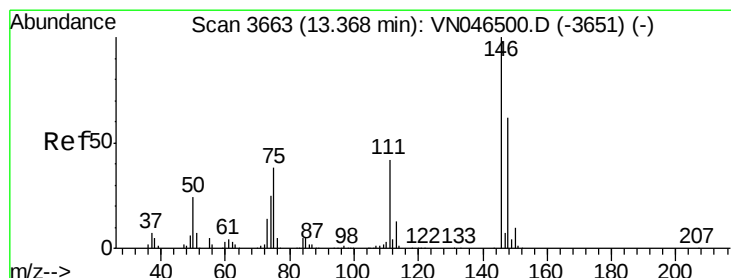
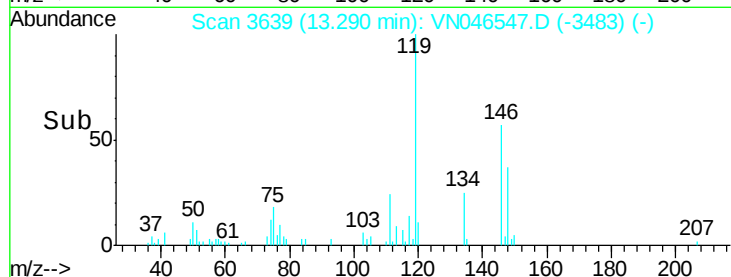
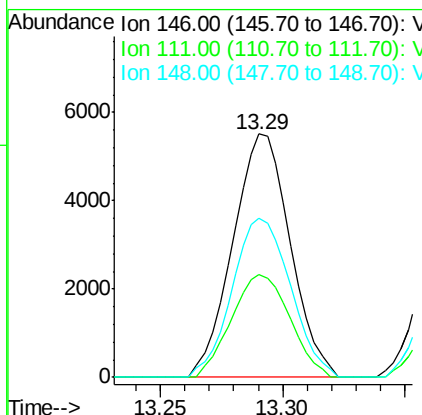
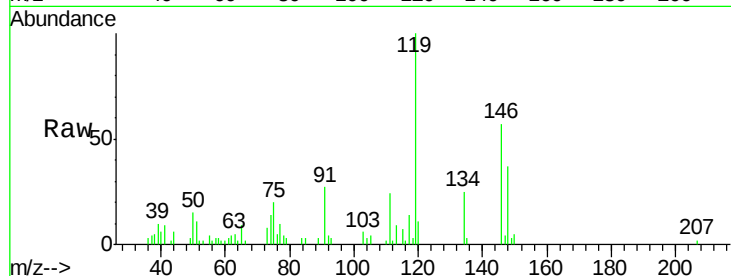




#83
 1,3-Dichlorobenzene
 Concen: 2.05 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

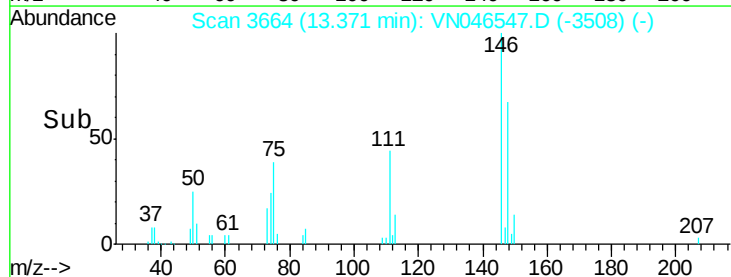
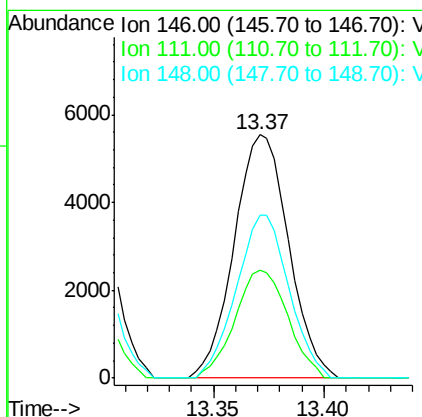
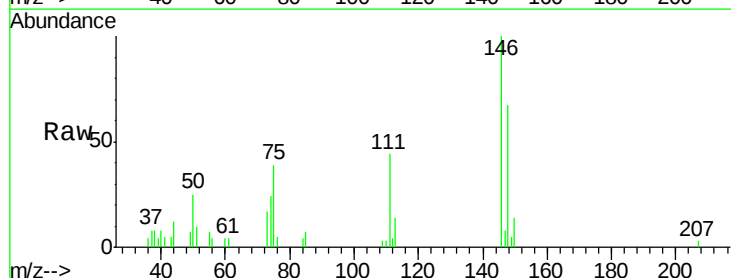
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2018

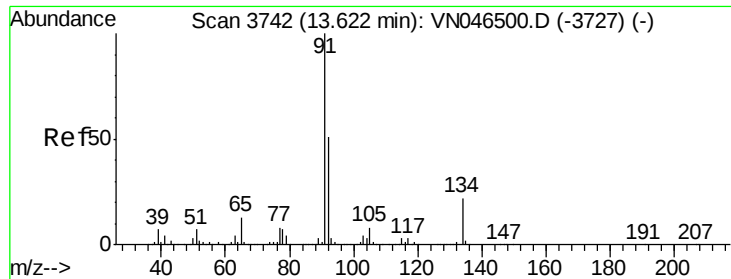
Tgt Ion:146 Resp: 8980
 Ion Ratio Lower Upper
 146 100
 111 43.0 22.3 66.9
 148 66.7 31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 2.21 ug/l
 RT: 13.37 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VN046547.D
 Acq: 24 Jan 2018 16:10

Tgt Ion:146 Resp: 9521
 Ion Ratio Lower Upper
 146 100
 111 42.9 21.6 64.8
 148 64.7 31.8 95.3





#85

n-Butylbenzene

Concen: 1.70 ug/l

RT: 13.62 min Scan# 3743

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

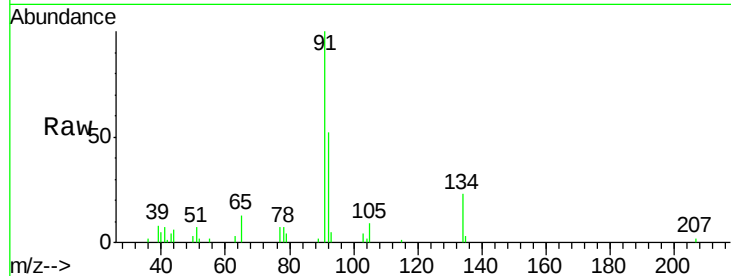
Tgt Ion: 91 Resp: 16653

Ion Ratio Lower Upper

91 100

92 51.2 0.0 105.6

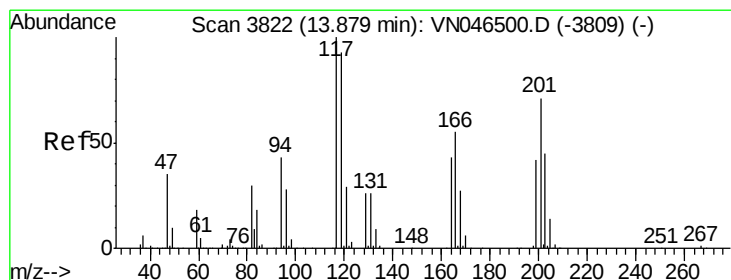
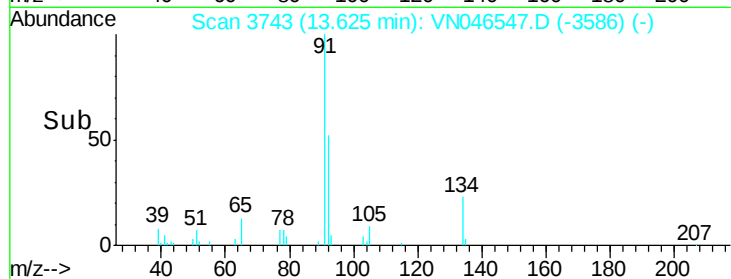
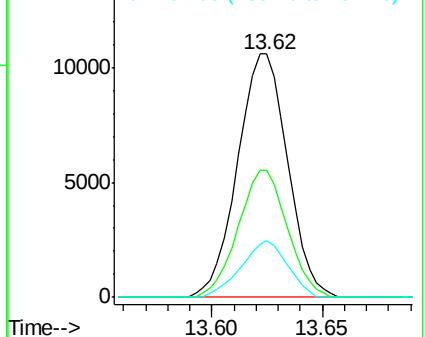
134 21.7 0.0 44.6



Abundance Ion 91.00 (90.70 to 91.70): VN046500.D (-3727) (-)

Ion 92.00 (91.70 to 92.70): VN046500.D (-3727) (-)

Ion 134.00 (133.70 to 134.70): VN046500.D (-3727) (-)



#86

Hexachloroethane

Concen: 1.88 ug/l

RT: 13.88 min Scan# 3823

Delta R.T. 0.00 min

Lab File: VN046547.D

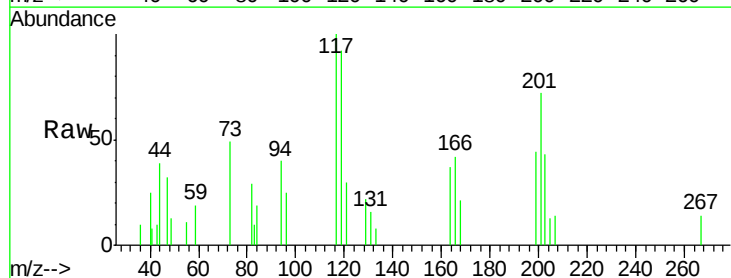
Acq: 24 Jan 2018 16:10

Tgt Ion: 117 Resp: 3382

Ion Ratio Lower Upper

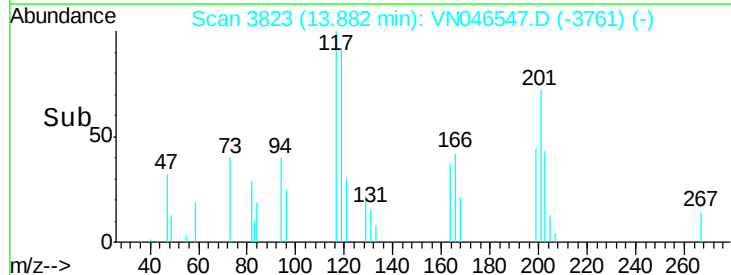
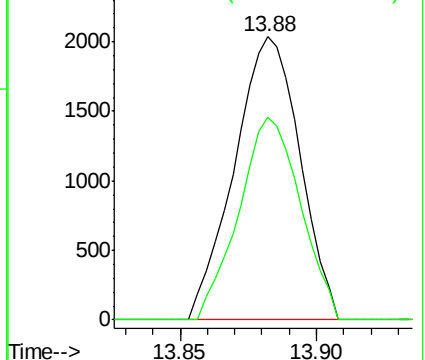
117 100

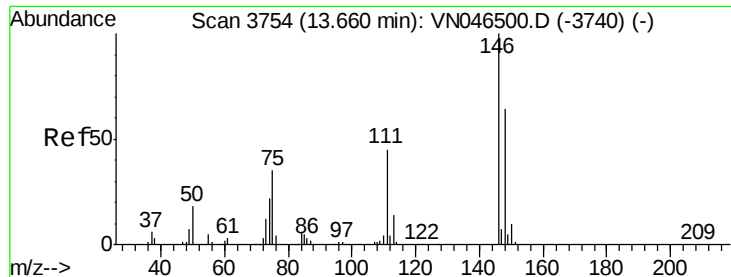
201 67.6 35.0 105.1



Abundance Ion 117.00 (116.70 to 117.70): VN046500.D (-3809) (-)

Ion 201.00 (200.70 to 201.70): VN046500.D (-3809) (-)





#87

1,2-Dichlorobenzene

Concen: 2.16 ug/l

RT: 13.66 min Scan# 3755

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

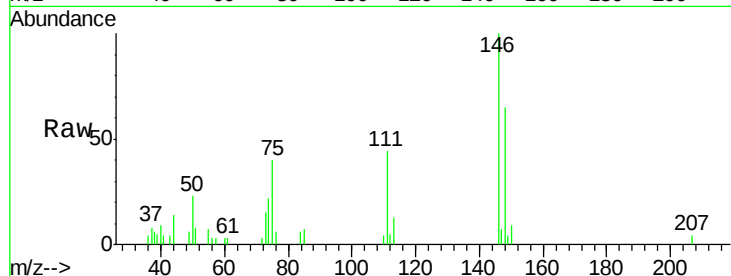
Tgt Ion:146 Resp: 9108

Ion Ratio Lower Upper

146 100

111 43.8 22.9 68.8

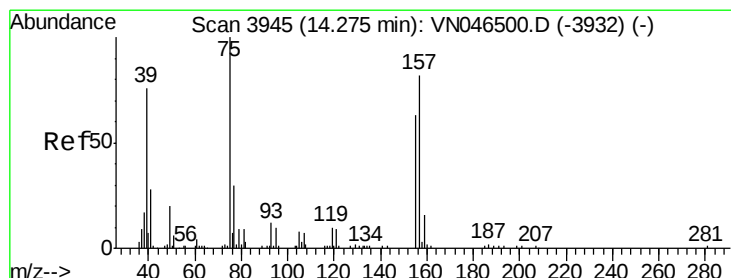
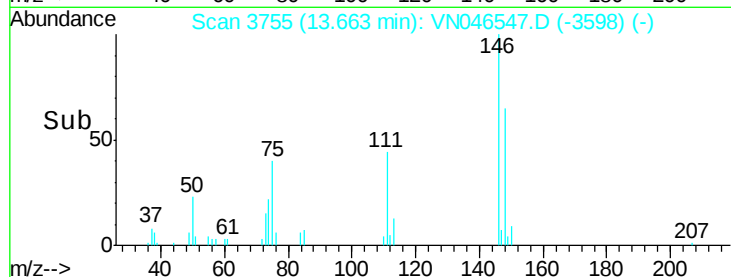
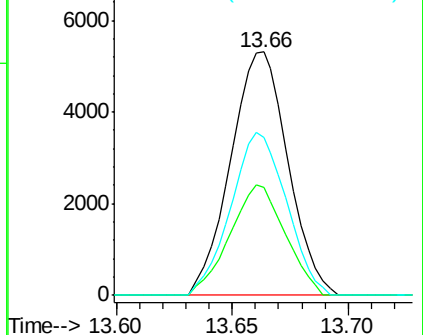
148 64.9 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 1.86 ug/l

RT: 14.28 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

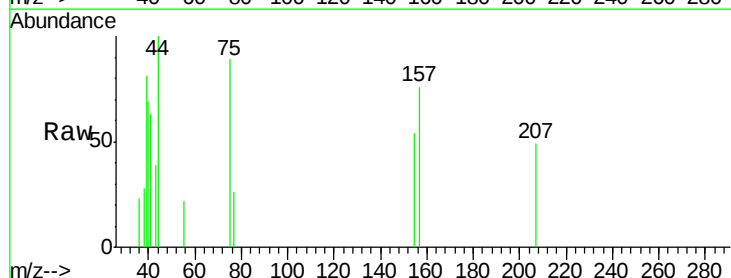
Tgt Ion: 75 Resp: 979

Ion Ratio Lower Upper

75 100

155 57.4 52.6 79.0

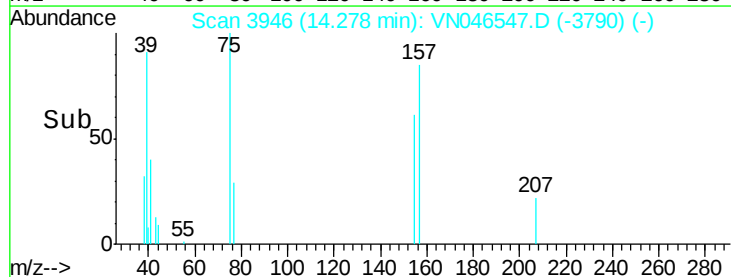
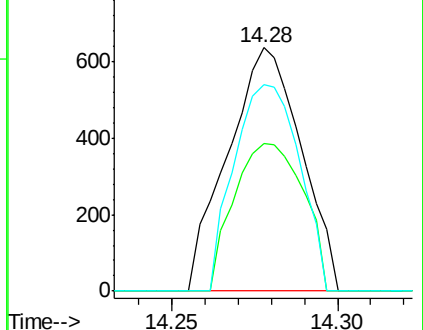
157 75.7 67.3 100.9

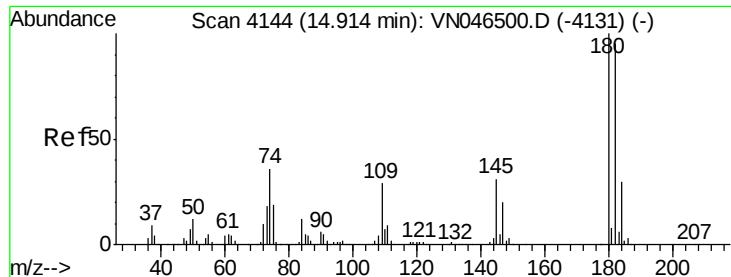


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

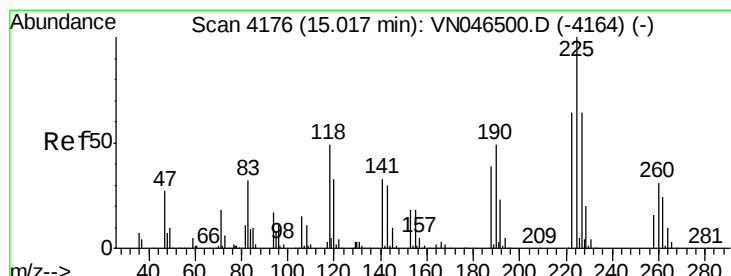
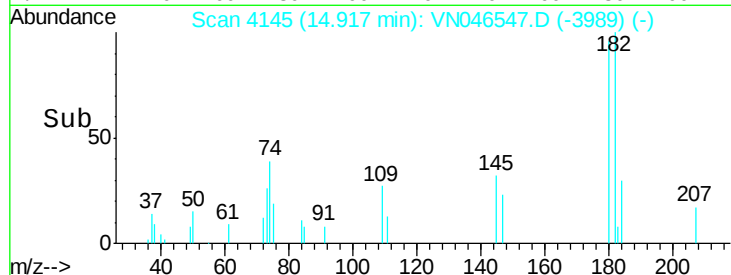
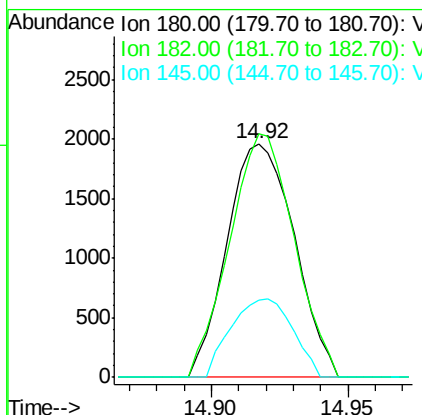
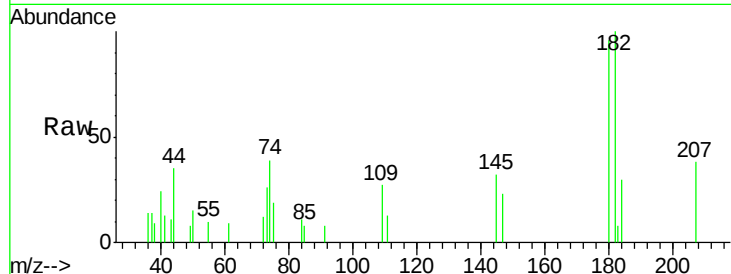




#89
1,2,4-Trichlorobenzene
Concen: 1.35 ug/l
RT: 14.92 min Scan# 4145
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

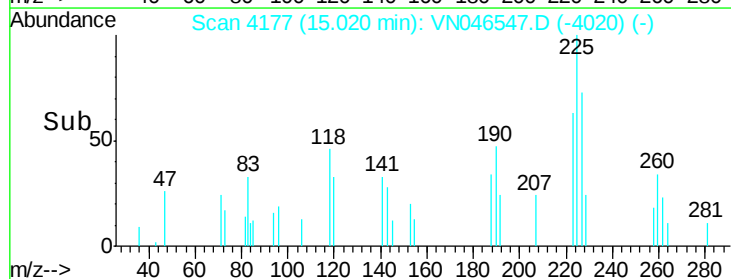
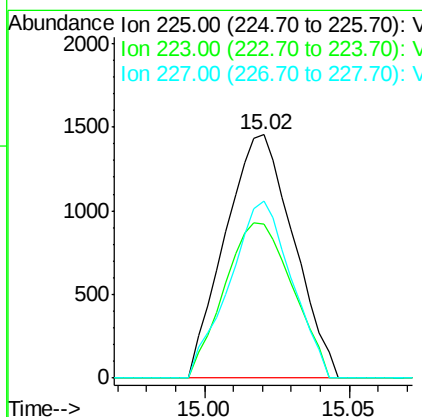
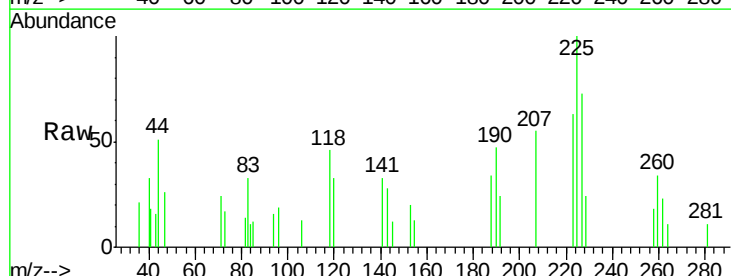
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2018

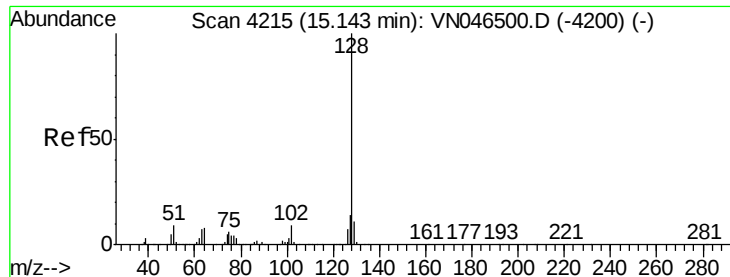
Tgt Ion:180 Resp: 3360
Ion Ratio Lower Upper
180 100
182 99.7 75.7 113.5
145 30.8 25.2 37.8



#90
Hexachlorobutadiene
Concen: 1.79 ug/l
RT: 15.02 min Scan# 4177
Delta R.T. 0.00 min
Lab File: VN046547.D
Acq: 24 Jan 2018 16:10

Tgt Ion:225 Resp: 2373
Ion Ratio Lower Upper
225 100
223 63.8 0.0 123.6
227 66.1 0.0 128.2





#91

Naphthalene

Concen: 1.77 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2018

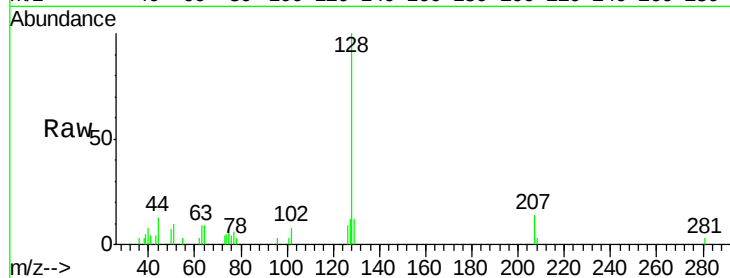
Tgt Ion:128 Resp: 10562

Ion Ratio Lower Upper

128 100

127 11.6 10.2 15.2

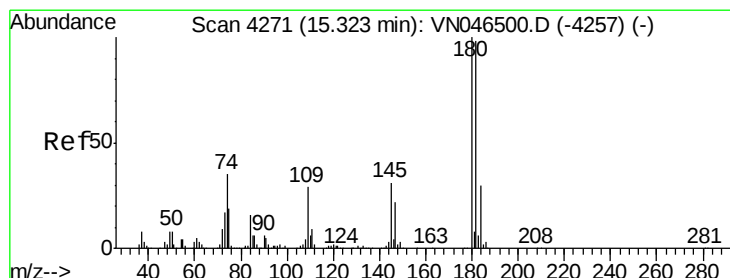
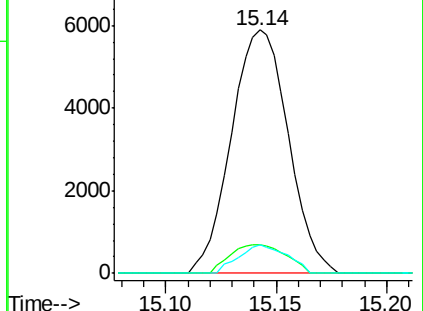
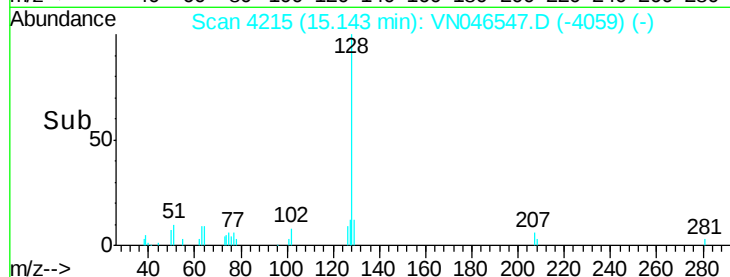
129 10.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 1.32 ug/l

RT: 15.33 min Scan# 4272

Delta R.T. 0.00 min

Lab File: VN046547.D

Acq: 24 Jan 2018 16:10

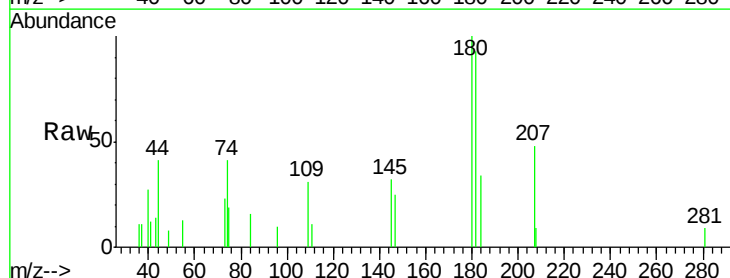
Tgt Ion:180 Resp: 3152

Ion Ratio Lower Upper

180 100

182 97.4 0.0 190.8

145 30.1 0.0 68.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

