

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102620\
 Data File : VN064312.D
 Acq On : 26 Oct 2020 19:51
 Operator : JC/MD
 Sample : L4214-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Quant Time: Oct 27 03:08:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 17:44:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	45820	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	257986	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	226705	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	128475	31.17	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.90%
60) 4-Bromofluorobenzene	12.38	95	116361	28.69	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.63%
63) Toluene-d8	10.06	98	309793	30.64	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	9734	2.597 ug/l	96
3) Chloromethane	2.04	50	8713	2.488 ug/l	99
4) Vinyl Chloride	2.16	62	8393	2.458 ug/l	95
5) Bromomethane	2.53	94	6344	3.011 ug/l	97
6) Chloroethane	2.67	64	5272	2.765 ug/l	97
7) Trichlorofluoromethane	2.98	101	13879	2.639 ug/l #	84
8) Diethyl Ether	3.38	74	4319	2.563 ug/l	69
9) 1,1,2-Trichlorotrifluoroet	3.71	101	2186	0.816 ug/l	48
10) 1,1-Dichloroethene	3.69	96	6259	2.431 ug/l	83
11) Methyl Iodide	3.91	142	3977	1.079 ug/l #	67
12) Methyl Acetate	4.27	43	3996	1.296 ug/l	98
13) Acrolein	3.57	56	1103	5.417 ug/l #	1
14) Acrylonitrile	4.92	53	4107	3.063 ug/l #	1
15) Acetone	3.78	58	2945	7.984 ug/l	72
16) Carbon Disulfide	4.00	76	18554	2.428 ug/l	100
17) Allyl chloride	4.28	41	9833	2.012 ug/l	82
18) Methylene Chloride	4.50	84	7791	2.657 ug/l #	77
19) trans-1,2-Dichloroethene	4.98	96	3098	1.109 ug/l	93
20) Diisopropyl ether	5.91	45	23363	2.361 ug/l	96
22) cis-1,2-Dichloroethene	6.78	96	3669	1.138 ug/l #	1
23) tert-Butyl Alcohol	4.72	59	2194	3.595 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	23672	2.434 ug/l #	81
25) Chloroform	7.33	83	15019	2.627 ug/l	97
26) Cyclohexane	7.61	56	11395	2.510 ug/l #	96
29) 1,1-Dichloropropene	7.75	75	9925	2.235 ug/l	88
30) 2-Butanone	6.78	43	23183	11.078 ug/l	97
31) 2,2-Dichloropropane	6.76	77	4691	0.879 ug/l	98
32) 1,1,1-Trichloroethane	7.53	97	14088	2.534 ug/l #	83
33) Carbon Tetrachloride	7.72	117	12819	2.520 ug/l #	96
34) Benzene	8.00	78	27293	2.290 ug/l #	1
35) Methacrylonitrile	7.13	41	3737	1.710 ug/l	86
36) 1,2-Dichloroethane	8.09	62	12982	2.452 ug/l #	97
37) Trichloroethene	8.80	130	8064	2.480 ug/l	91
38) Methylcyclohexane	9.05	83	10097	2.353 ug/l	94
39) 1,2-Dichloropropane	9.09	63	8017	2.491 ug/l	93
40) Dibromomethane	9.17	93	5489	2.458 ug/l	97
41) Bromodichloromethane	9.37	83	11281	2.339 ug/l #	93

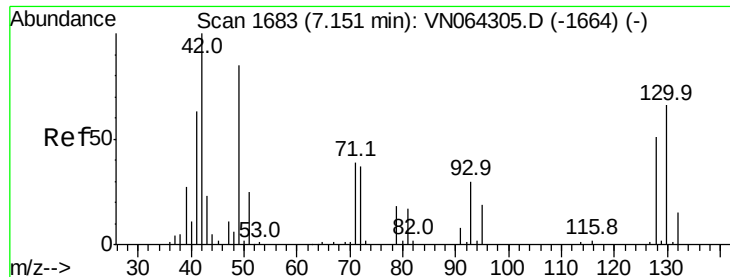
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102620\
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Quant Time: Oct 27 03:08:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 17:44:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Vinyl Acetate	5.85	43	89299	9.986	ug/l #	91
43) Ethyl Acetate	6.88	43	8887	2.083	ug/l #	81
44) Isopropyl Acetate	8.13	43	18135	2.314	ug/l	99
45) 1,4-Dioxane	9.16	88	3245	53.682	ug/l #	64
46) Methyl methacrylate	9.16	41	5134	1.342	ug/l	91
47) n-amyl Acetate	12.05	43	13855	2.100	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	12032	2.170	ug/l	93
50) 1,1,2-Trichloroethane	10.53	97	7268	2.424	ug/l #	91
51) Ethyl methacrylate	10.40	69	9794	2.092	ug/l	91
52) 1,3-Dichloropropane	10.68	76	12341	2.344	ug/l	94
53) Dibromochloromethane	10.87	129	8446	2.306	ug/l	97
54) 1,2-Dibromoethane	10.97	107	7547	2.356	ug/l	95
55) 2-Chloroethyl vinyl ether	9.66	63	27248	11.692	ug/l	99
56) Bromoform	12.10	173	4922	1.875	ug/l #	82
58) 4-Methyl-2-Pentanone	9.95	43	51112	12.186	ug/l	98
59) 2-Hexanone	10.72	43	37210	11.873	ug/l	97
61) Tetrachloroethene	10.60	164	7883	2.607	ug/l	92
62) Toluene	10.12	91	31670	2.536	ug/l	98
64) Chlorobenzene	11.41	112	18936	2.432	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	6888	2.240	ug/l	73
66) Ethyl Benzene	11.48	91	33712	2.362	ug/l	100
67) m/p-Xylenes	11.59	106	25607	4.886	ug/l	93
68) o-Xylene	11.92	106	11591	2.249	ug/l	99
69) Styrene	11.94	104	17141	1.995	ug/l	89
70) Isopropylbenzene	12.23	105	30787	2.253	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	9289	2.385	ug/l	94
72) 1,2,3-Trichloropropane	12.52	75	13477	3.250	ug/l	77
73) Bromobenzene	12.50	156	7999	2.387	ug/l	84
74) n-propylbenzene	12.57	91	34628	2.223	ug/l	98
75) 2-Chlorotoluene	12.65	91	22847	2.372	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	26290	2.275	ug/l	95
77) t-1,4-Dichloro-2-butene	12.28	75	3431	2.216	ug/l	84
78) 4-Chlorotoluene	12.75	91	22026	2.185	ug/l	93
79) tert-butylbenzene	12.97	119	20499	2.152	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	26222	2.249	ug/l	91
81) sec-Butylbenzene	13.15	105	27174	2.198	ug/l	97
82) p-Isopropyltoluene	13.26	119	23561	2.081	ug/l	96
83) 1,3-Dichlorobenzene	13.26	146	12162	2.090	ug/l	95
84) 1,4-Dichlorobenzene	13.34	146	12412	2.124	ug/l	95
85) n-Butylbenzene	13.59	91	20011	2.026	ug/l	98
86) Hexachloroethane	13.84	117	4714	2.232	ug/l	70
87) 1,2-Dichlorobenzene	13.63	146	12127	2.116	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.24	75	2311	2.348	ug/l #	69
89) 1,2,4-Trichlorobenzene	14.88	180	5956	1.834	ug/l	97
90) Hexachlorobutadiene	14.98	225	3758	2.150	ug/l	78
91) Naphthalene	15.10	128	16135	1.646	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	5790	1.846	ug/l	89

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

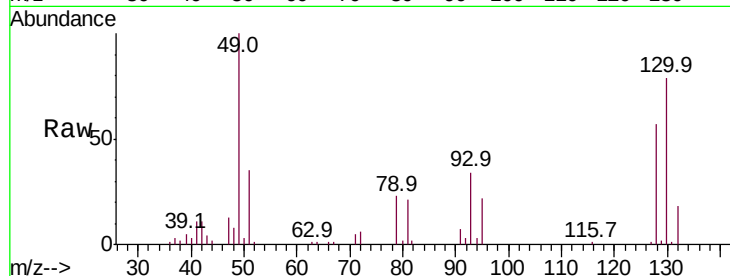
Tot Ion:128 Resp: 45820

Ion Ratio Lower Upper

128 100

49 175.0 0.0 439.5

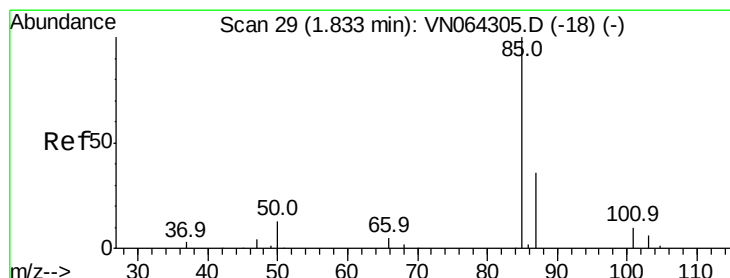
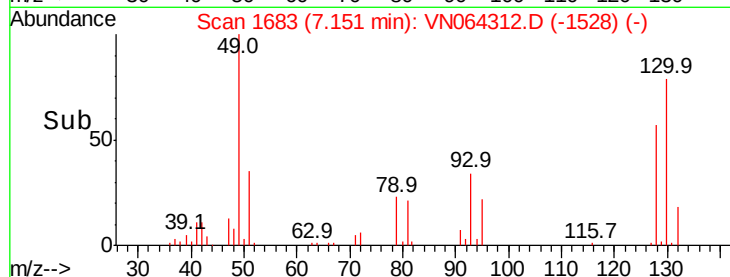
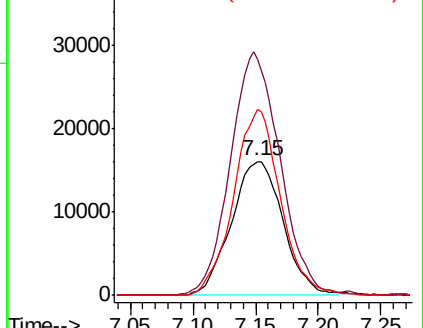
130 126.3 0.0 323.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.597 ug/l

RT: 1.83 min Scan# 29

Delta R.T. -0.00 min

Lab File: VN064312.D

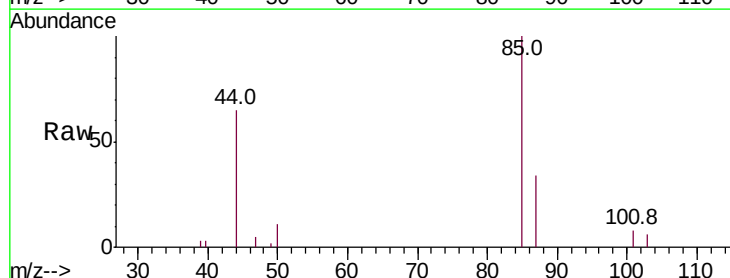
Acq: 26 Oct 2020 19:51

Tgt Ion: 85 Resp: 9734

Ion Ratio Lower Upper

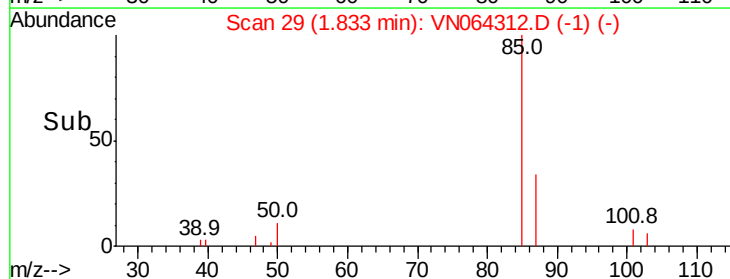
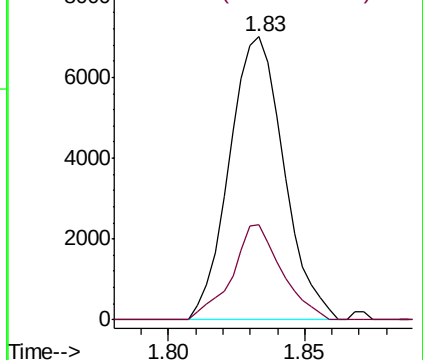
85 100

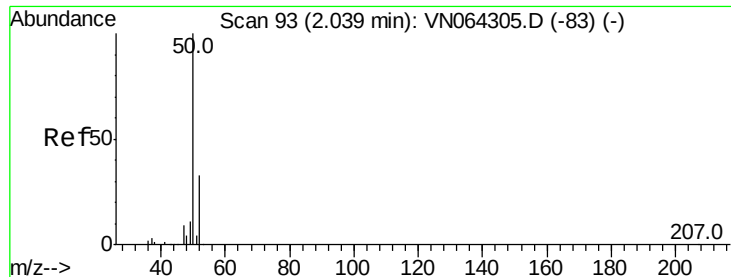
87 33.8 18.1 54.4



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 2.488 ug/l

RT: 2.04 min Scan# 93

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

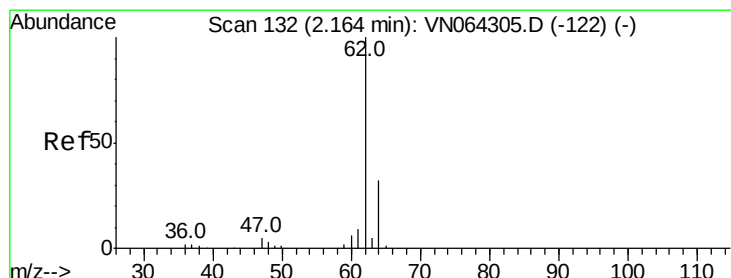
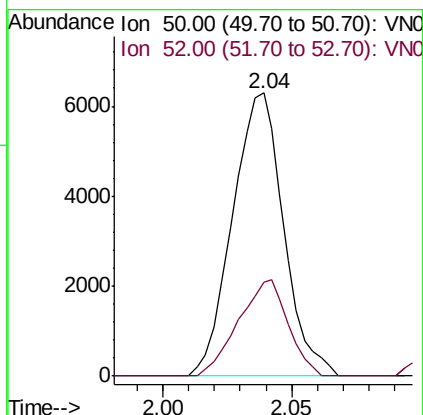
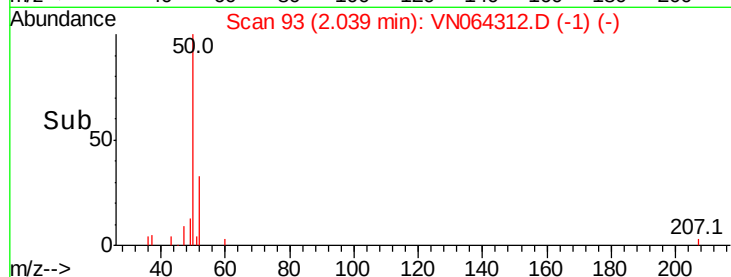
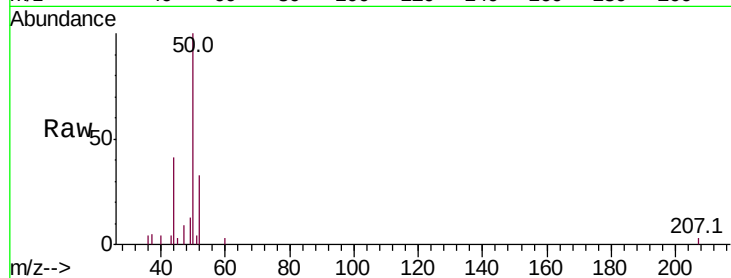
MDL-WATER-03-QT4-2020

Tot Ion: 50 Resp: 8713

Ion Ratio Lower Upper

50 100

52 33.2 26.2 39.2



#4

Vinyl Chloride

Concen: 2.458 ug/l

RT: 2.16 min Scan# 131

Delta R.T. -0.00 min

Lab File: VN064312.D

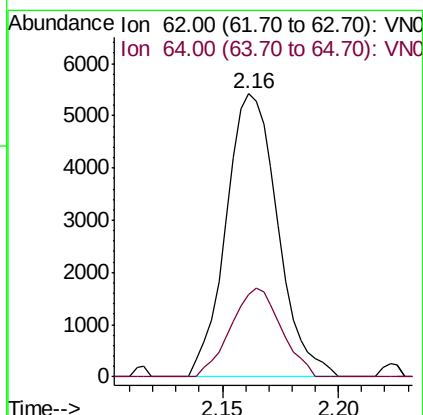
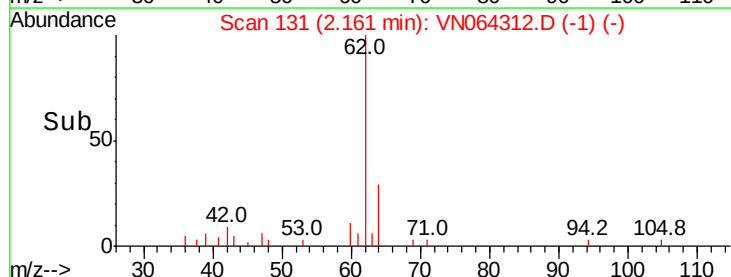
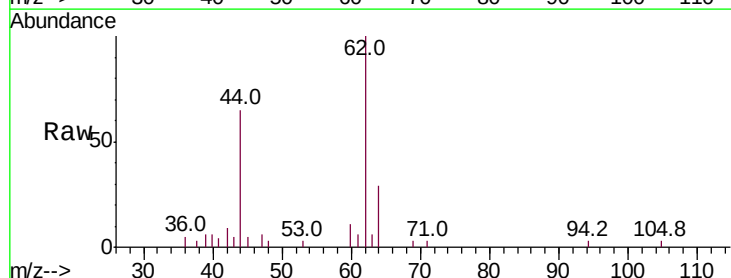
Acq: 26 Oct 2020 19:51

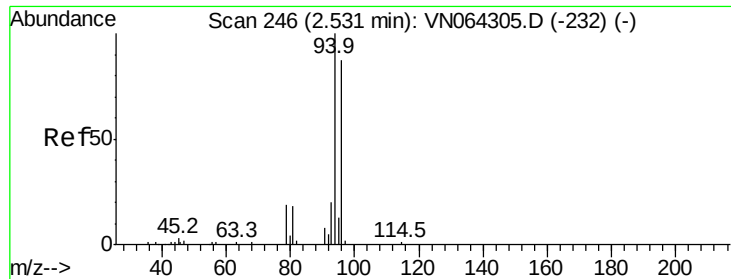
Tgt Ion: 62 Resp: 8393

Ion Ratio Lower Upper

62 100

64 29.2 25.5 38.3





#5

Bromomethane

Concen: 3.011 ug/l

RT: 2.53 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

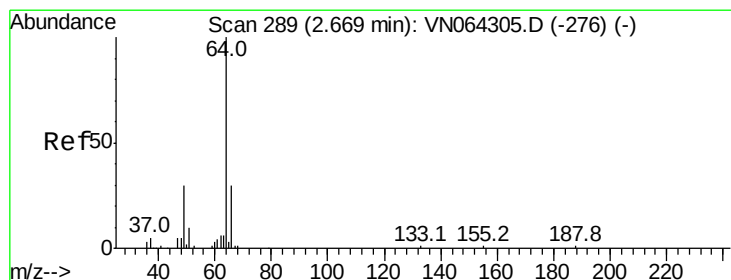
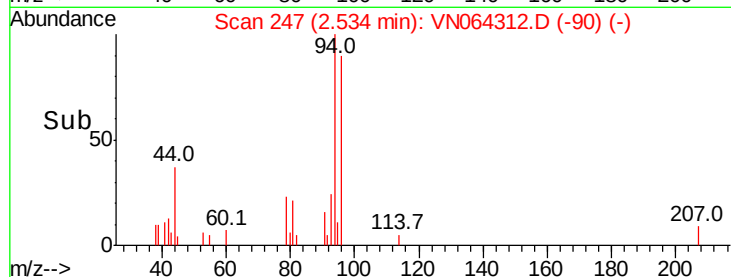
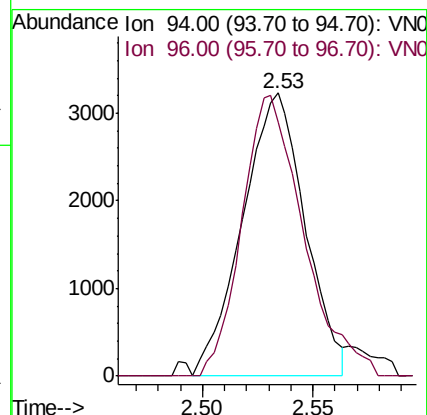
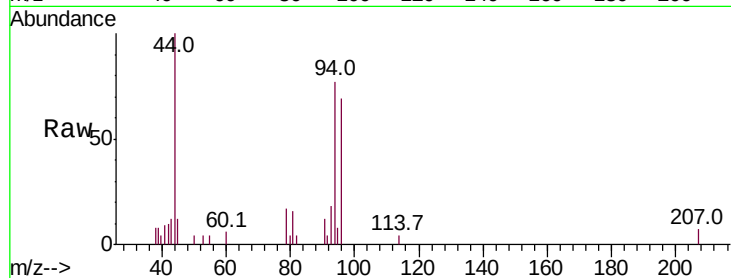
MDL-WATER-03-QT4-2020

Tot Ion: 94 Resp: 6344

Ion Ratio Lower Upper

94 100

96 89.9 69.4 104.0



#6

Chloroethane

Concen: 2.765 ug/l

RT: 2.67 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN064312.D

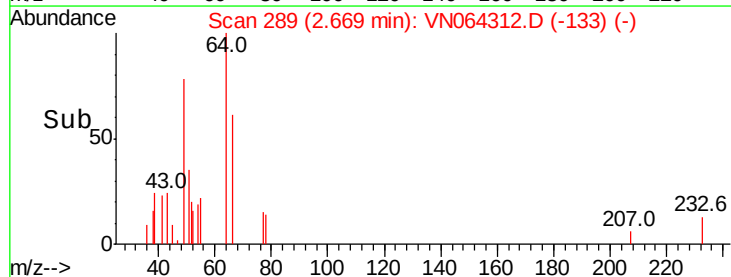
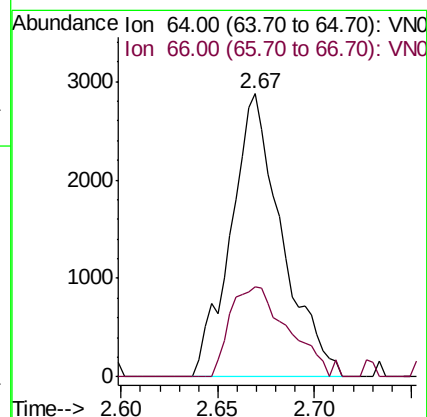
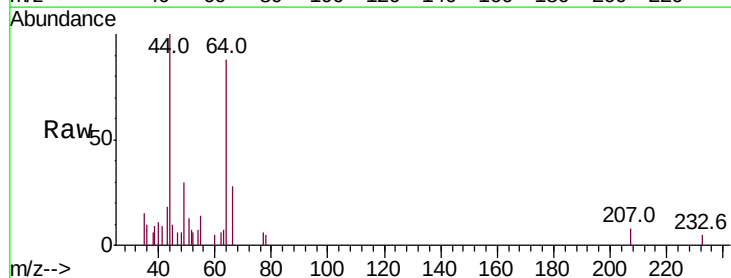
Acq: 26 Oct 2020 19:51

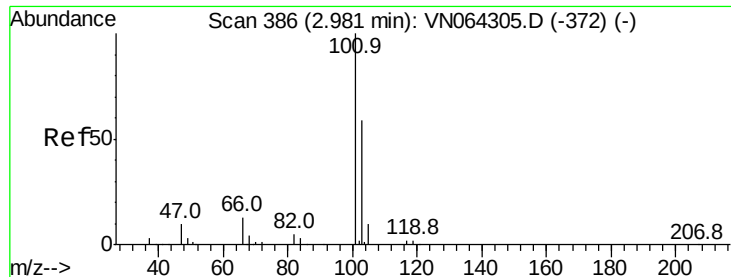
Tgt Ion: 64 Resp: 5272

Ion Ratio Lower Upper

64 100

66 32.0 24.1 36.1



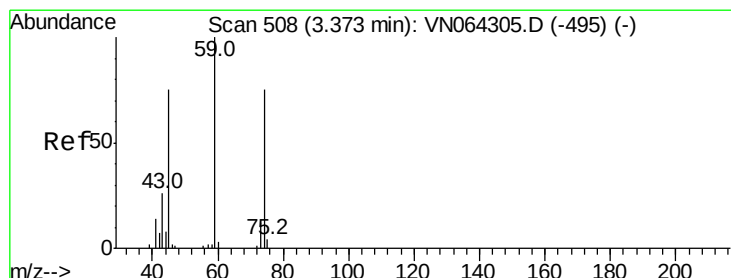
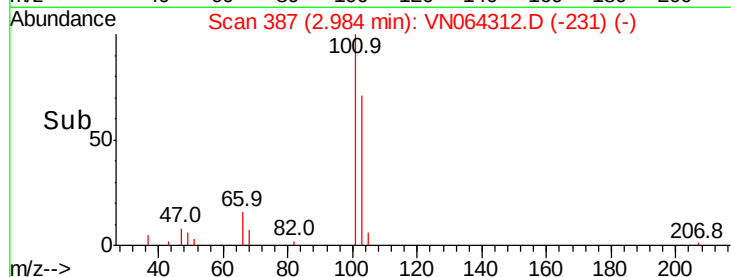
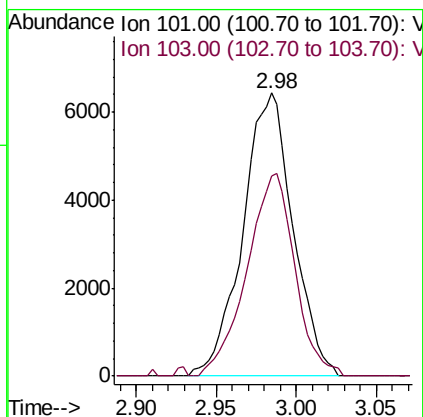
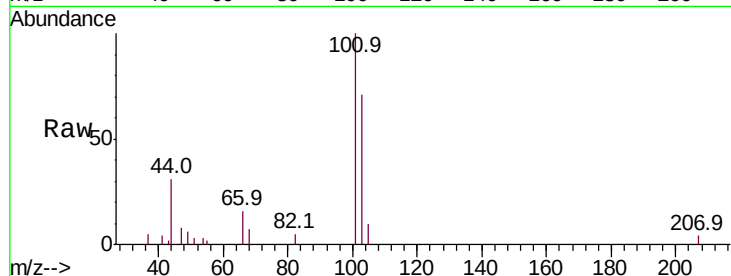


#7

Trichlorofluoromethane
 Concen: 2.639 ug/l
 RT: 2.98 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

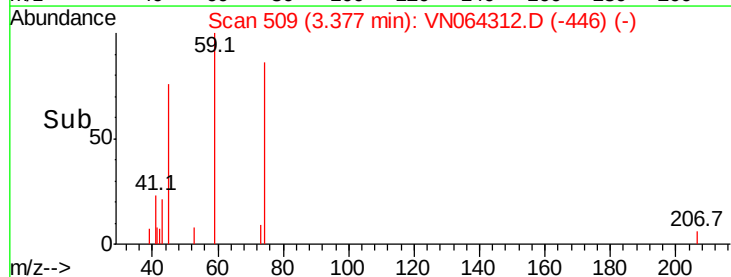
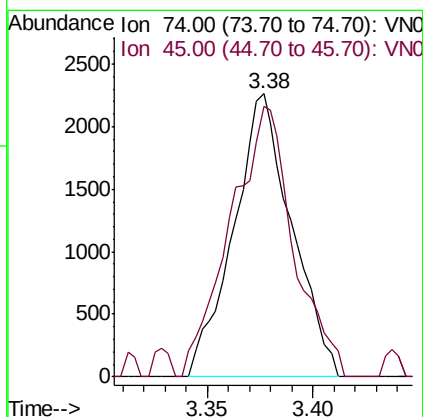
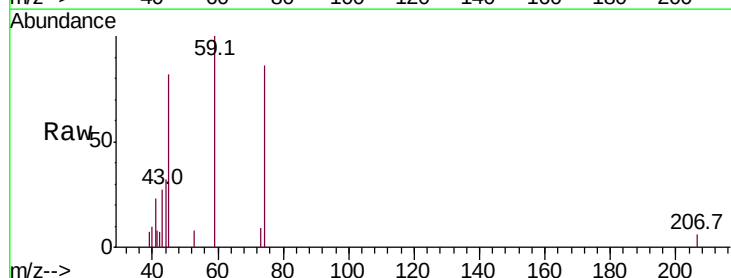
Tot Ion:101 Resp: 13879
 Ion Ratio Lower Upper
 101 100
 103 70.8 47.1 70.7#

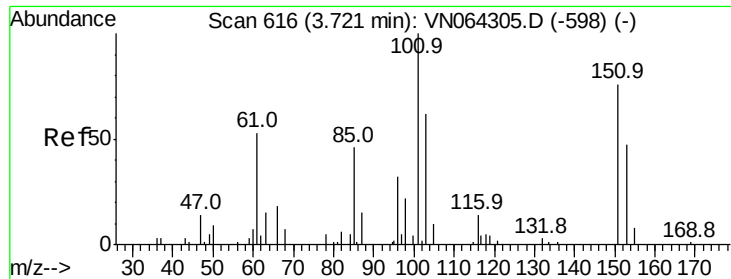


#8

Diethyl Ether
 Concen: 2.563 ug/l
 RT: 3.38 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 74 Resp: 4319
 Ion Ratio Lower Upper
 74 100
 45 70.4 20.4 183.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.816 ug/l

RT: 3.71 min Scan# 612

Delta R.T. -0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

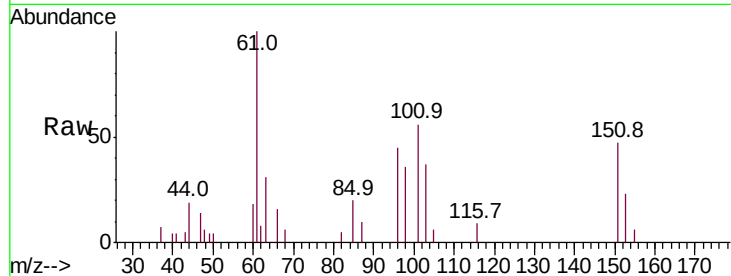
Tot Ion:101 Resp: 2186

Ion Ratio Lower Upper

101 100

85 24.1 0.0 96.2

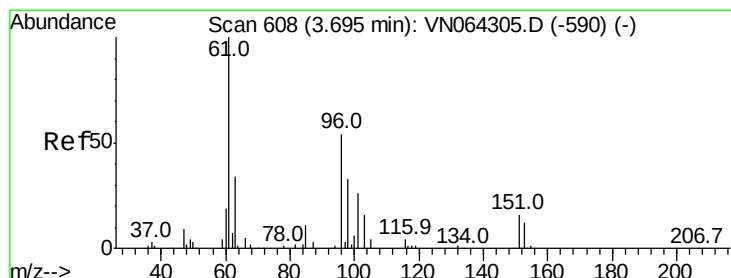
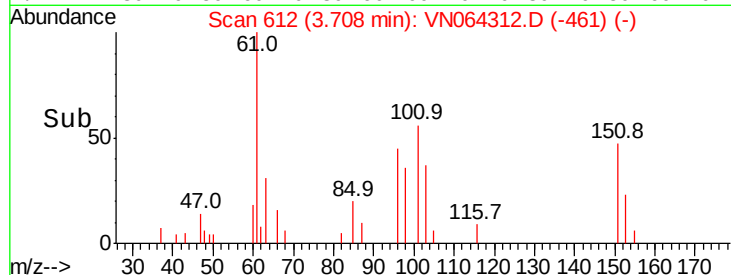
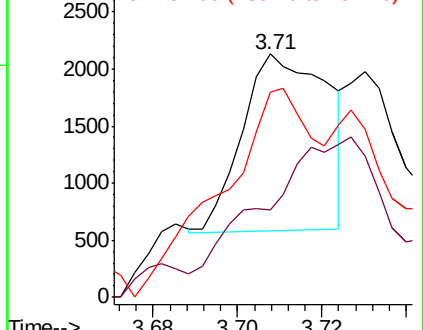
151 131.7 0.0 154.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.431 ug/l

RT: 3.69 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

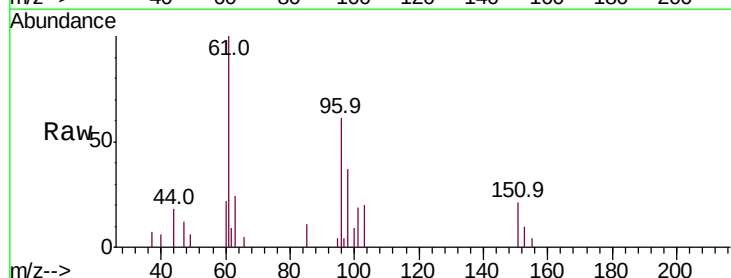
Tgt Ion: 96 Resp: 6259

Ion Ratio Lower Upper

96 100

61 154.9 147.4 221.2

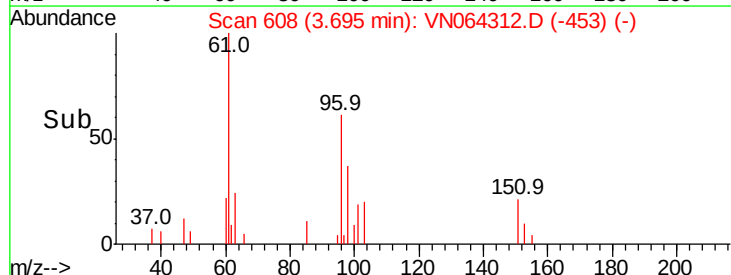
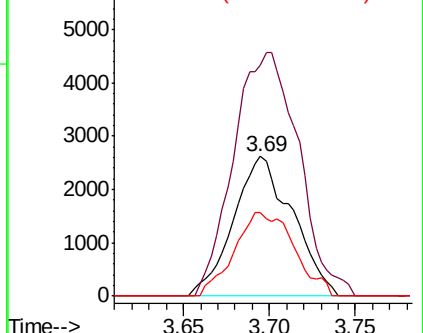
98 56.6 48.8 73.2

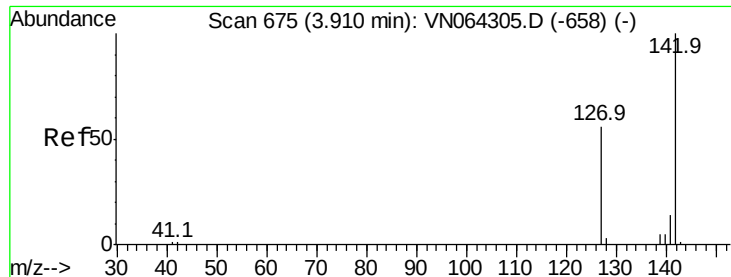


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

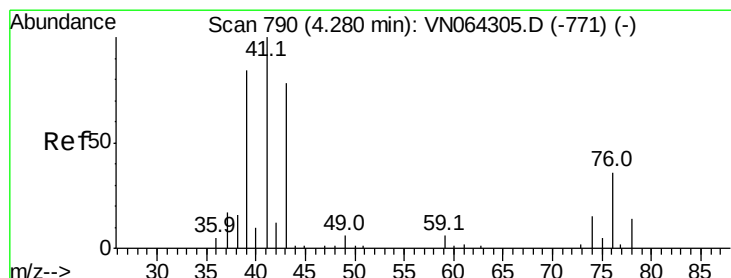
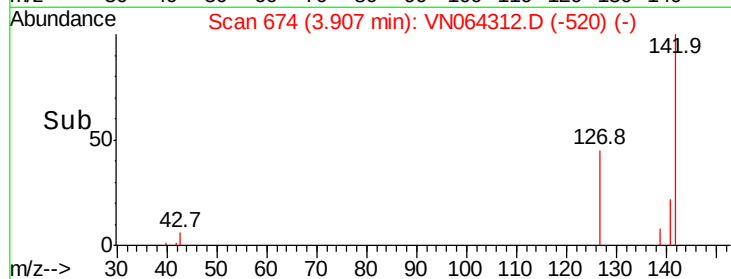
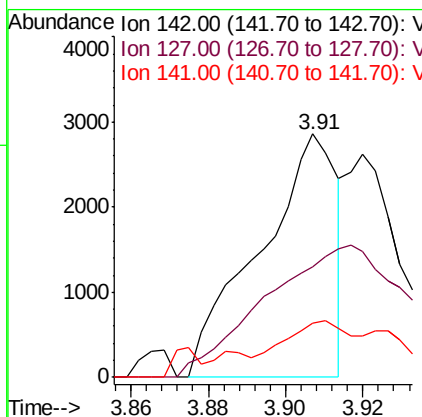
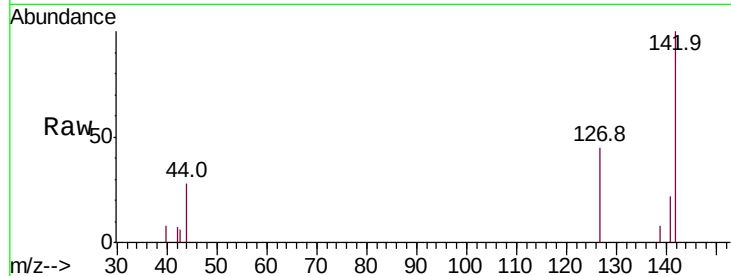




#11
Methvl Iodide
Concen: 1.079 ug/l
RT: 3.91 min Scan# 674
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

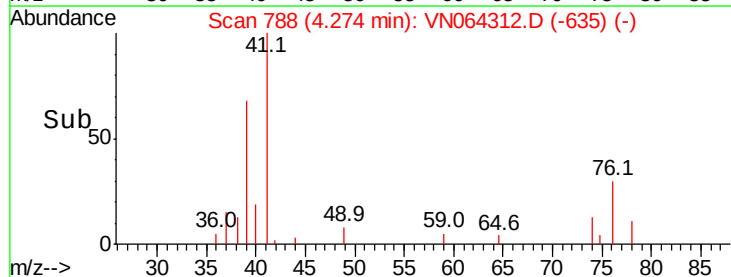
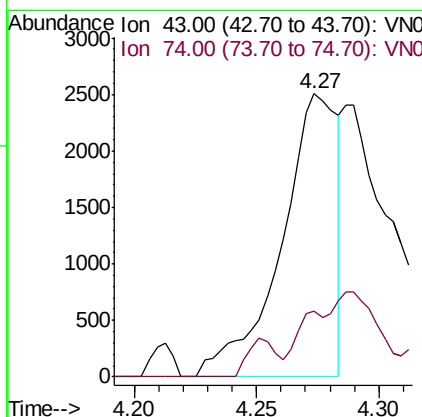
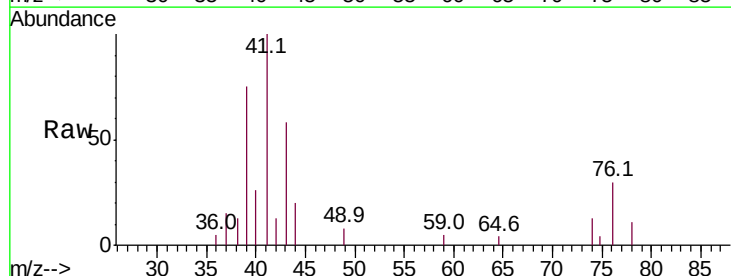
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

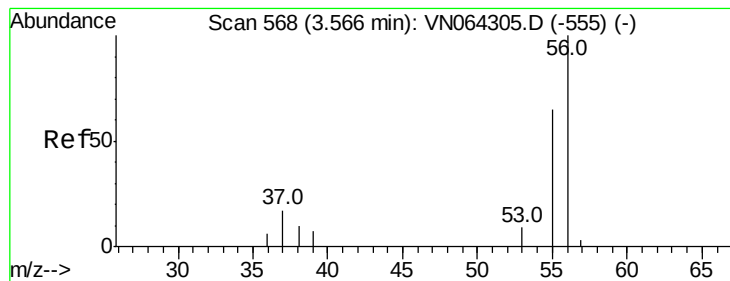
Tot Ion:142 Resp: 3977
Ion Ratio Lower Upper
142 100
127 27.3 27.9 83.7#
141 9.8 7.1 21.3



#12
Methyl Acetate
Concen: 1.296 ug/l
RT: 4.27 min Scan# 788
Delta R.T. -0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 43 Resp: 3996
Ion Ratio Lower Upper
43 100
74 18.1 15.4 23.0





#13

Acrolein

Concen: 5.417 ug/l

RT: 3.57 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

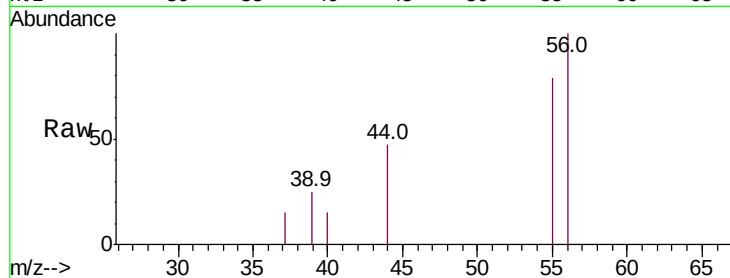
MDL-WATER-03-QT4-2020

Tot Ion: 56 Resp: 1103

Ion Ratio Lower Upper

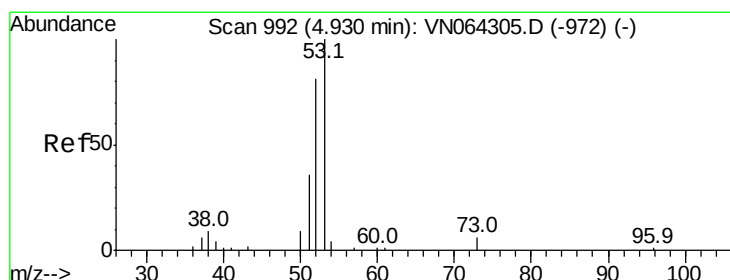
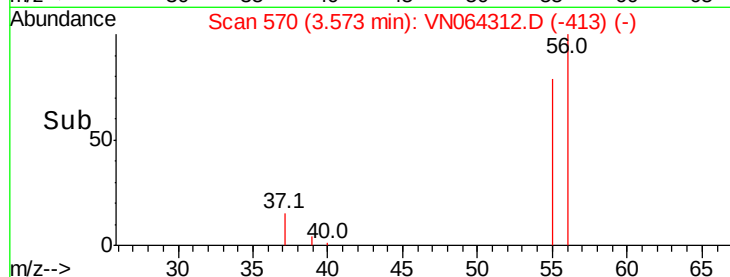
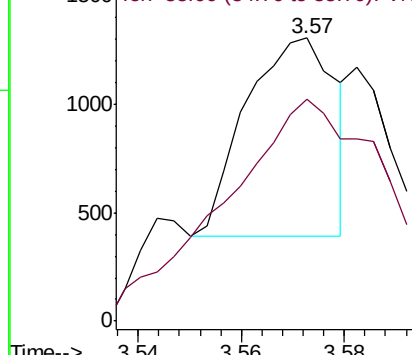
56 100

55 158.9 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 3.063 ug/l

RT: 4.92 min Scan# 990

Delta R.T. -0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

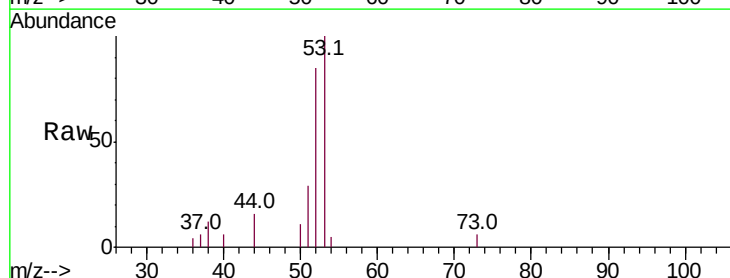
Tgt Ion: 53 Resp: 4107

Ion Ratio Lower Upper

53 100

52 215.9 41.7 125.1#

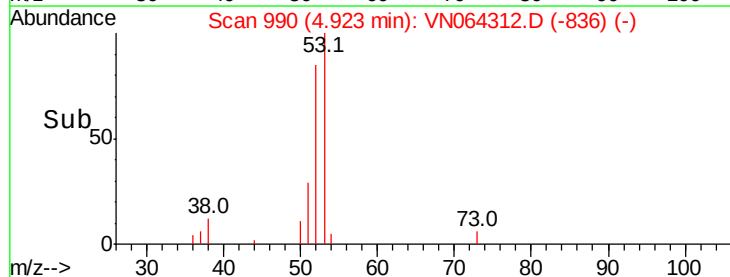
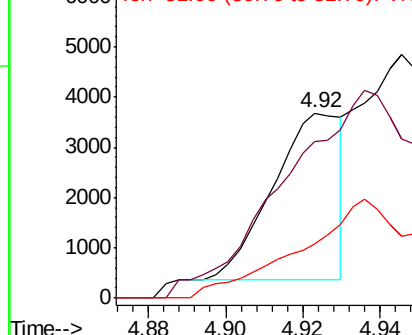
51 79.8 19.4 58.2#

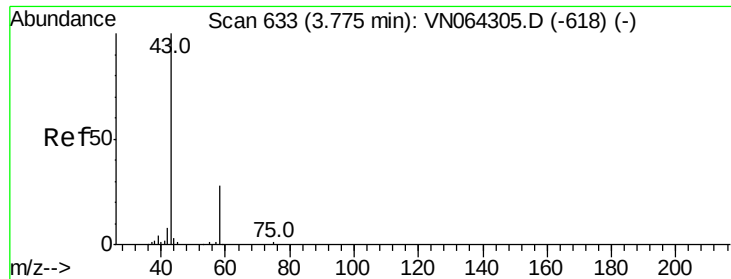


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 7.984 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

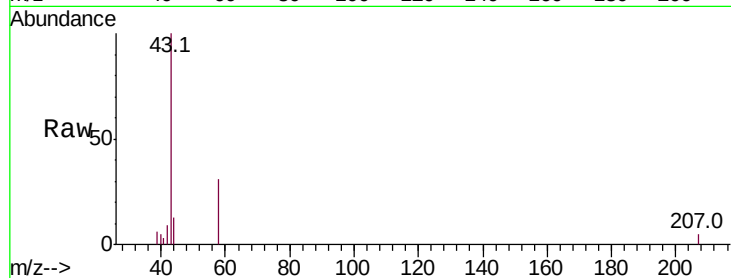
MDL-WATER-03-QT4-2020

Tot Ion: 58 Resp: 2945

Ion Ratio Lower Upper

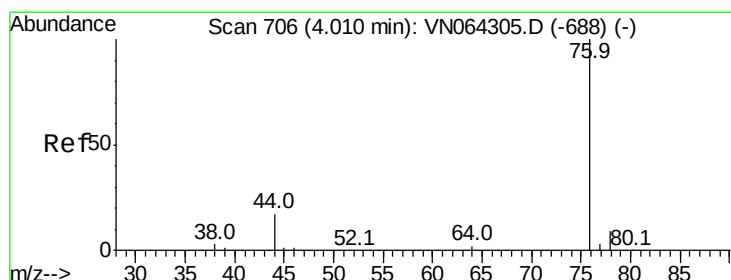
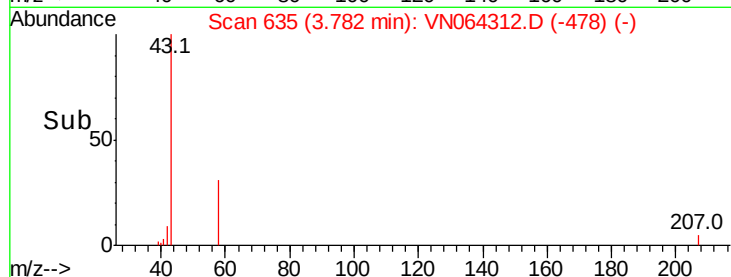
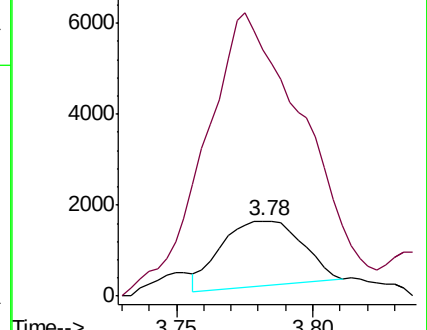
58 100

43 301.0 289.9 434.9



Abundance Ion 58.00 (57.70 to 58.70): VN064312.D (-618) (-)

Ion 43.00 (42.70 to 43.70): VN064312.D (-618) (-)



#16

Carbon Disulfide

Concen: 2.428 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN064312.D

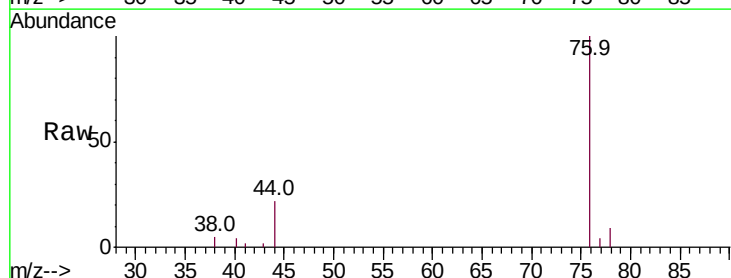
Acq: 26 Oct 2020 19:51

Tgt Ion: 76 Resp: 18554

Ion Ratio Lower Upper

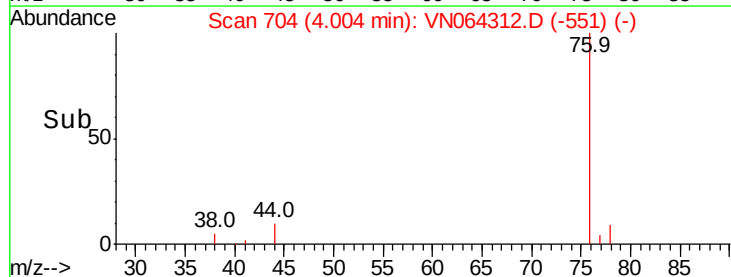
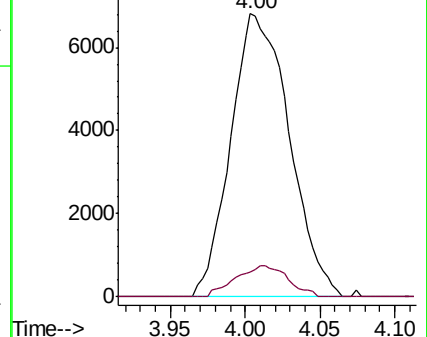
76 100

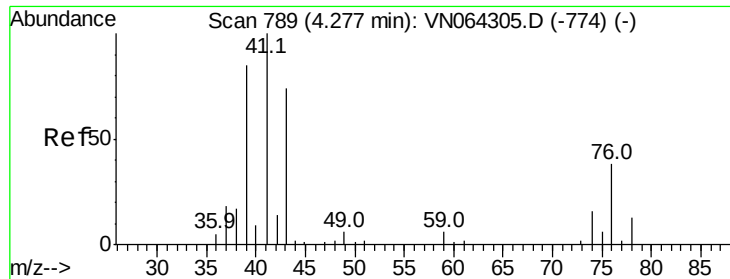
78 8.7 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VN064312.D (-688) (-)

Ion 78.00 (77.70 to 78.70): VN064312.D (-688) (-)

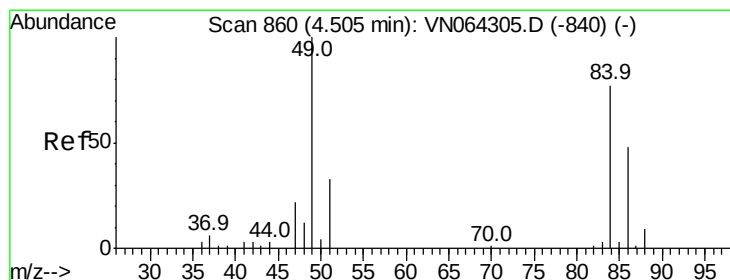
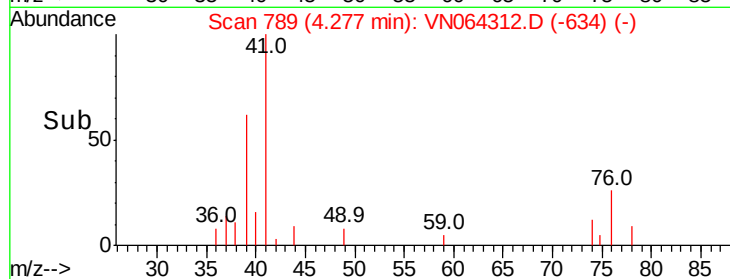
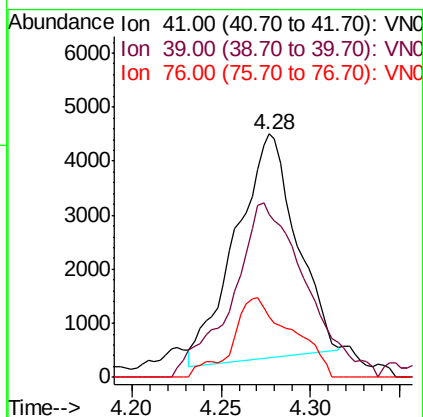
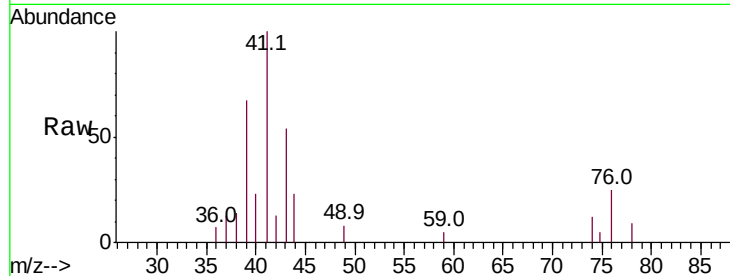




#17
Allvl chloride
Concen: 2.012 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

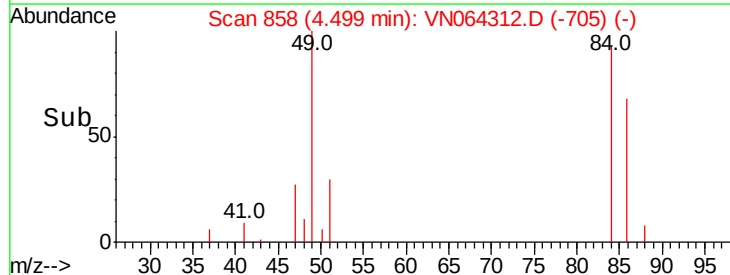
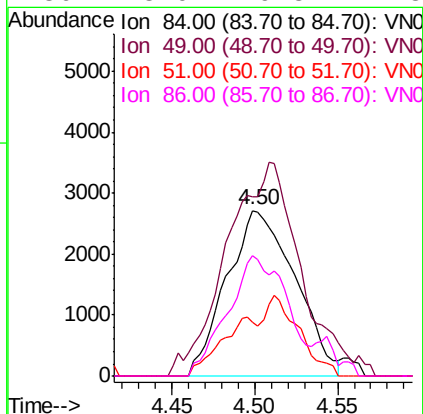
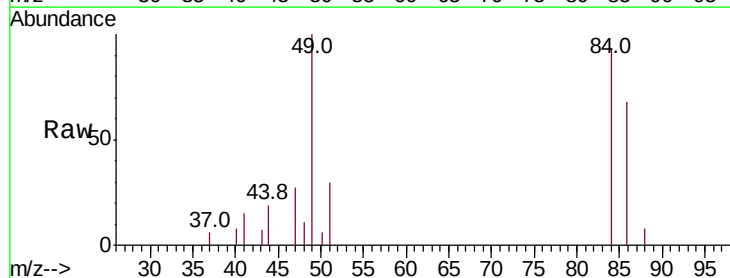
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

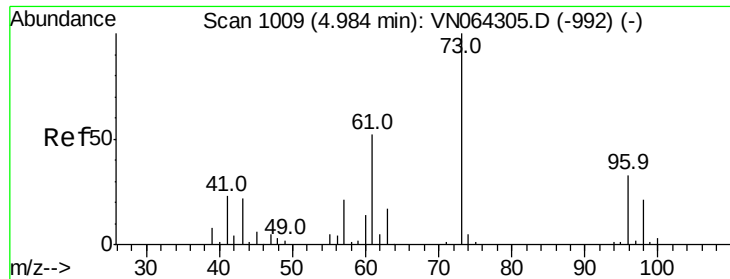
Tot Ion: 41 Resp: 9833
Ion Ratio Lower Upper
41 100
39 62.9 40.3 120.9
76 27.9 17.6 52.9



#18
Methylene Chloride
Concen: 2.657 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 84 Resp: 7791
Ion Ratio Lower Upper
84 100
49 94.3 103.1 154.7#
51 32.3 33.8 50.8#
86 73.0 49.8 74.8

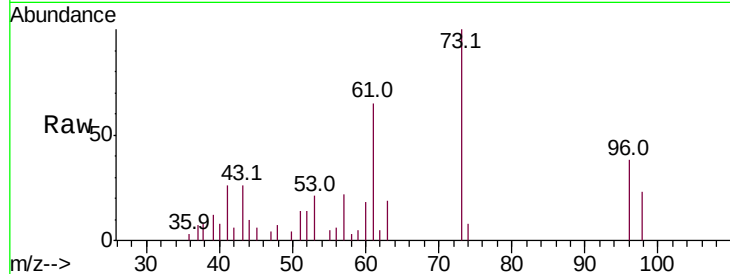




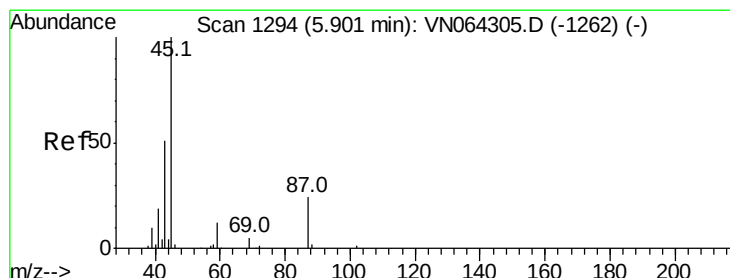
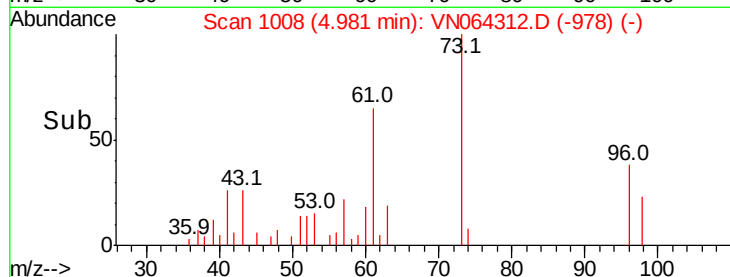
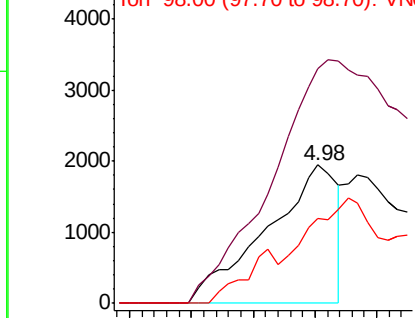
#19
trans-1,2-Dichloroethene
Concen: 1.109 ug/l
RT: 4.98 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 96 Resp: 3098
Ion Ratio Lower Upper
96 100
61 169.4 126.9 190.3
98 61.2 50.6 76.0



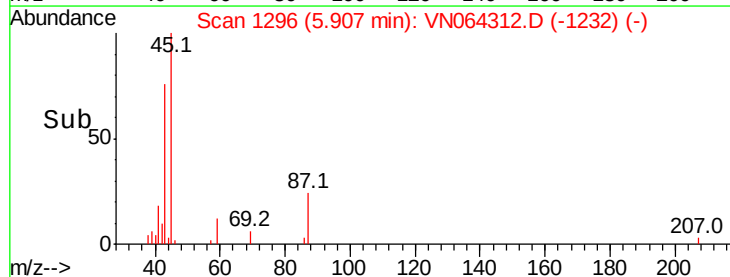
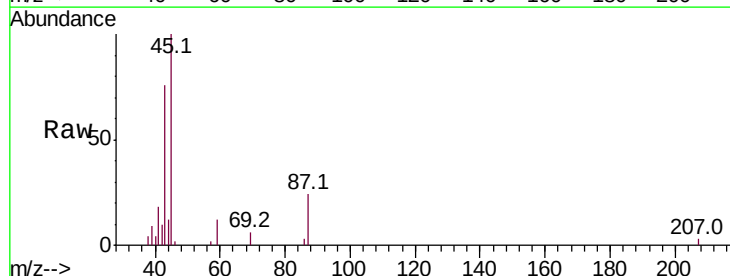
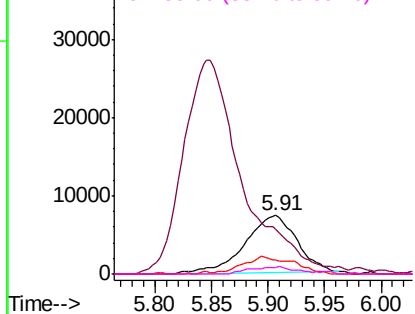
Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

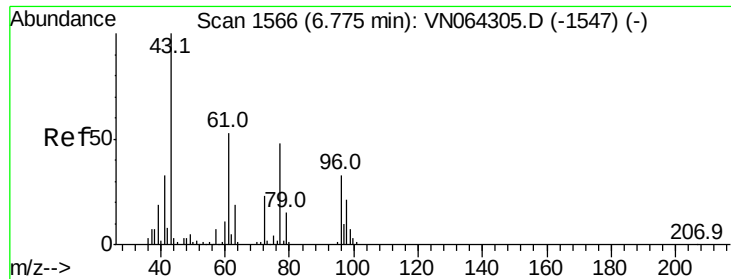


#20
Diisopropyl ether
Concen: 2.361 ug/l
RT: 5.91 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 45 Resp: 23363
Ion Ratio Lower Upper
45 100
43 66.4 56.6 85.0
87 24.5 20.3 30.5
59 11.9 10.1 15.1

Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0





#22

cis-1,2-Dichloroethene

Concen: 1.138 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

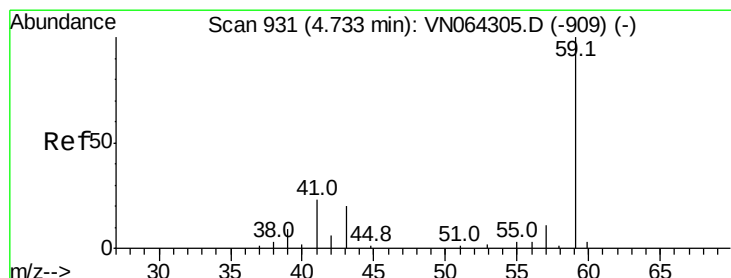
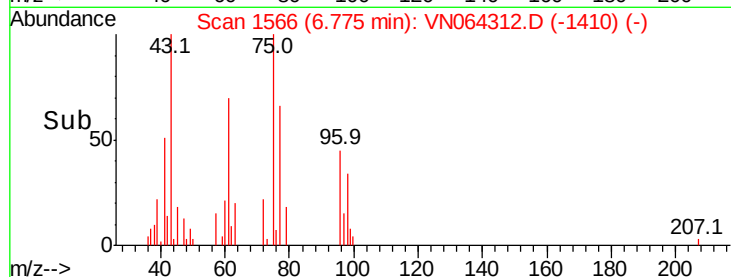
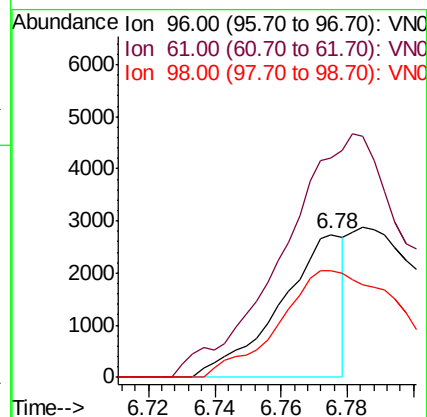
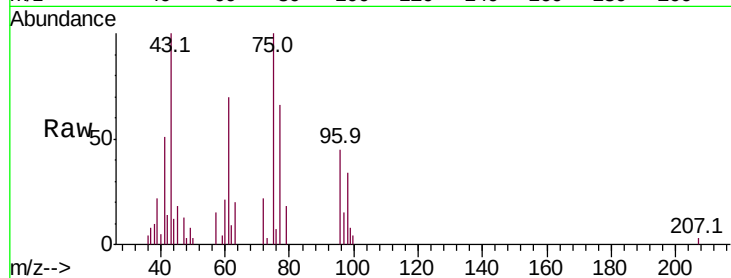
Tot Ion: 96 Resp: 3669

Ion Ratio Lower Upper

96 100

61 348.6 133.0 199.6#

98 151.8 51.6 77.4#



#23

tert-Butyl Alcohol

Concen: 3.595 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.02 min

Lab File: VN064312.D

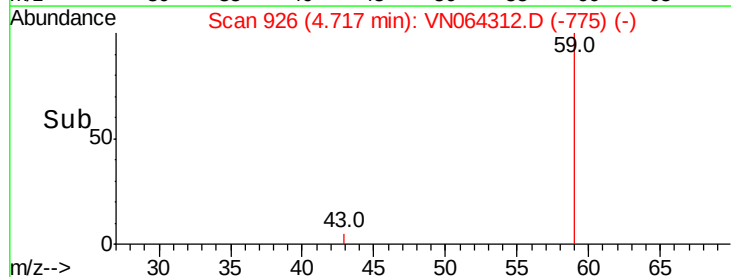
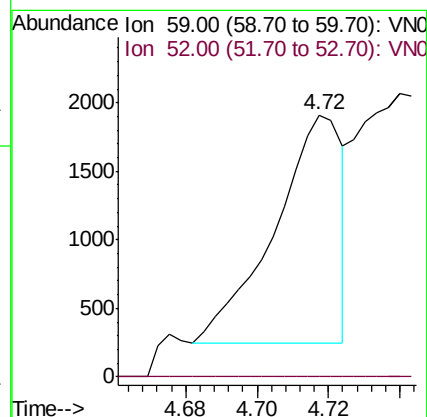
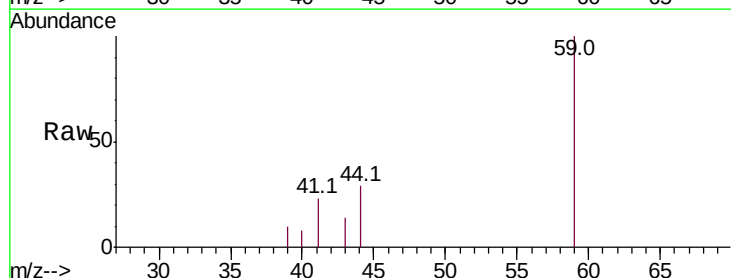
Acq: 26 Oct 2020 19:51

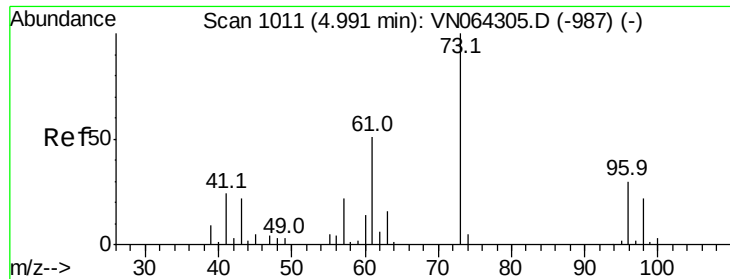
Tgt Ion: 59 Resp: 2194

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

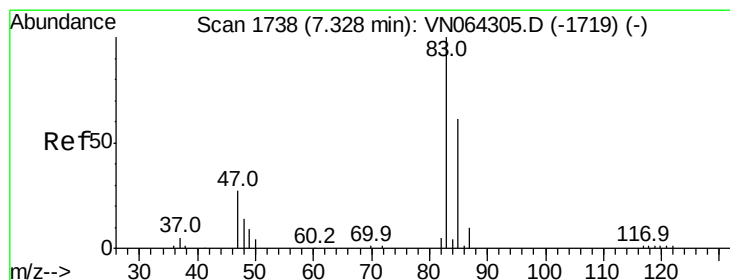
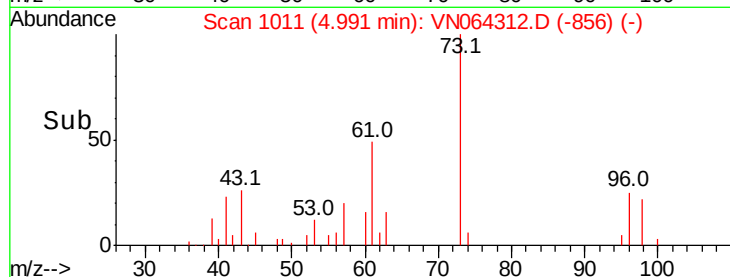
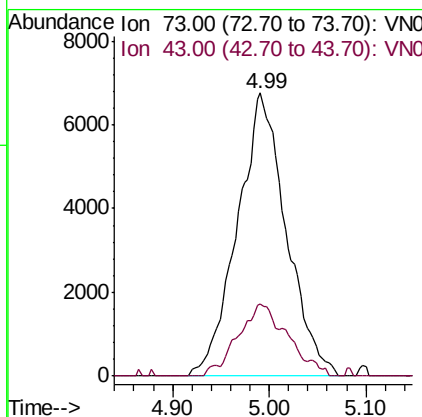
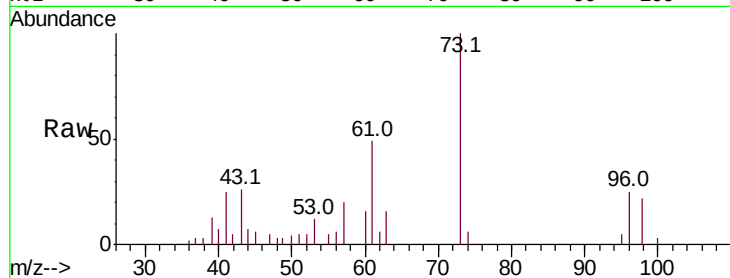




#24
Methvl tert-Butyl Ether
Concen: 2.434 ug/l
RT: 4.99 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

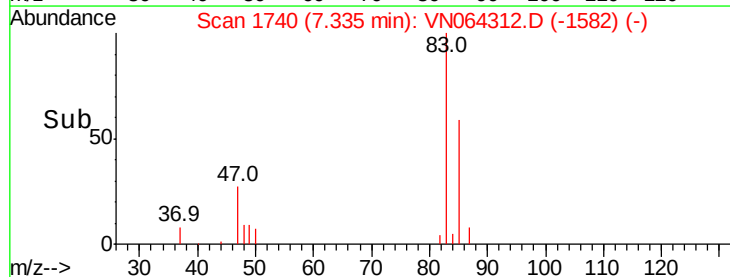
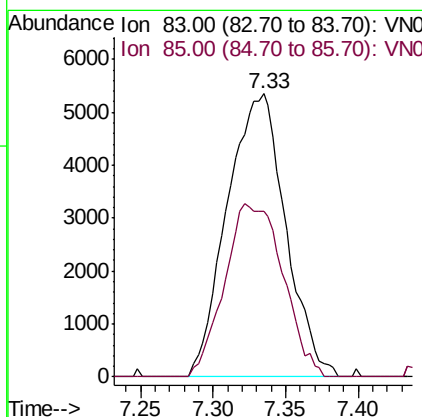
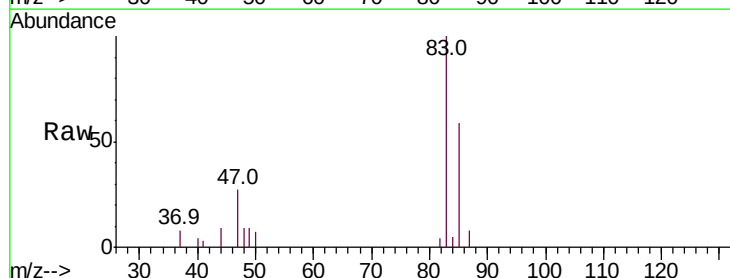
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

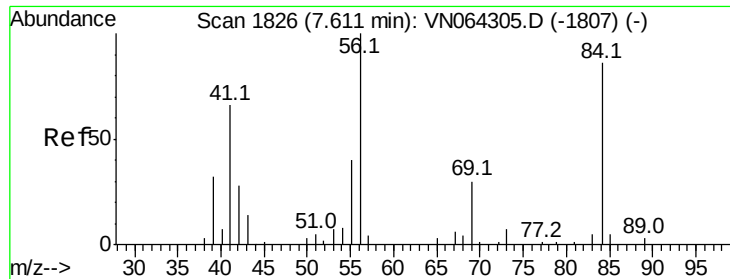
Tot Ion: 73 Resp: 23672
Ion Ratio Lower Upper
73 100
43 14.8 19.4 29.2#



#25
Chloroform
Concen: 2.627 ug/l
RT: 7.33 min Scan# 1740
Delta R.T. 0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 83 Resp: 15019
Ion Ratio Lower Upper
83 100
85 58.6 48.6 73.0

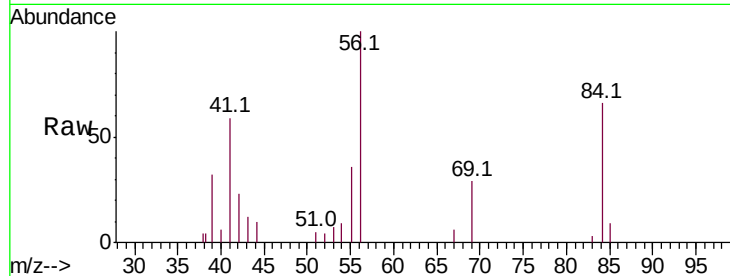




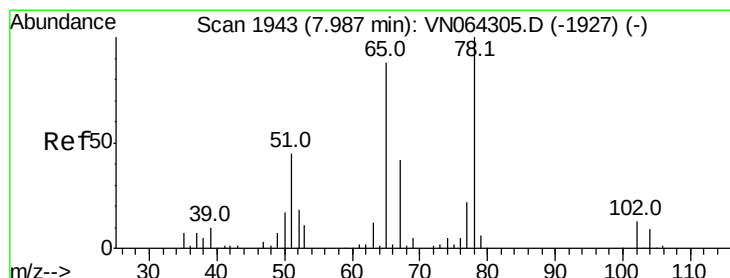
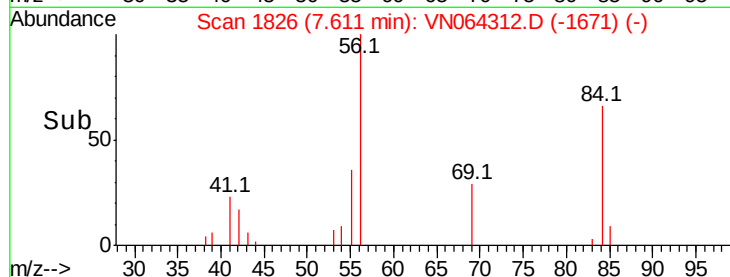
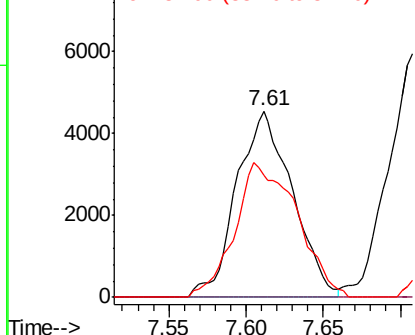
#26
Cyclohexane
Concen: 2.510 ug/l
RT: 7.61 min Scan# 1826
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 56 Resp: 11395
Ion Ratio Lower Upper
56 100
89 0.0 1.0 1.6#
84 80.4 67.5 101.3

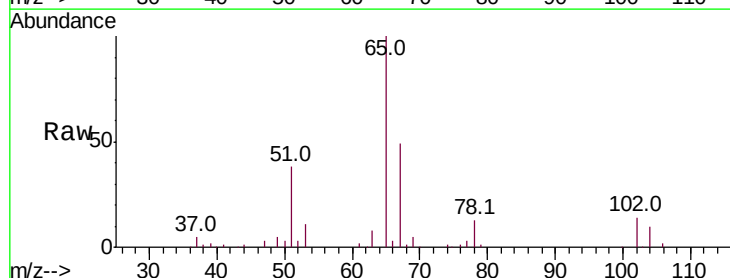


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 89.00 (88.70 to 89.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

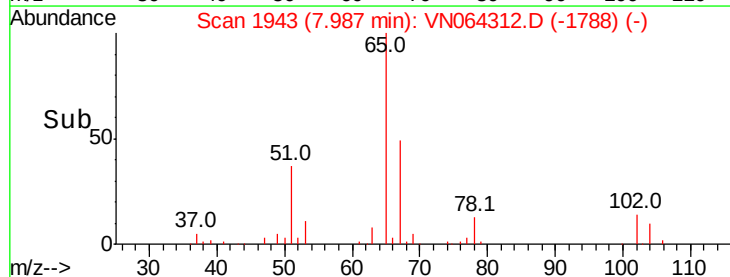
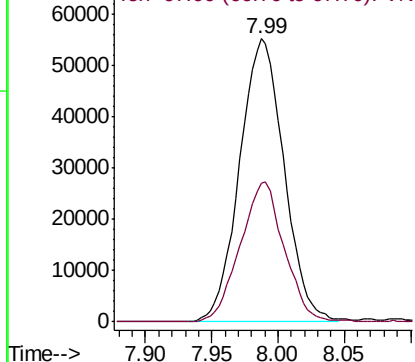


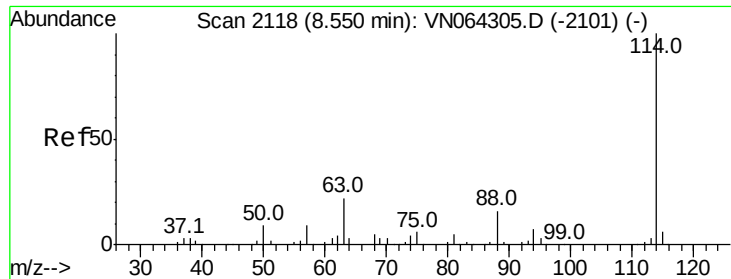
#27
1,2-Dichloroethane-d4
Concen: 31.166 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 65 Resp: 128475
Ion Ratio Lower Upper
65 100
67 48.8 38.5 57.7



Abundance Ion 65.00 (64.70 to 65.70): VN0
Ion 67.00 (66.70 to 67.70): VN0

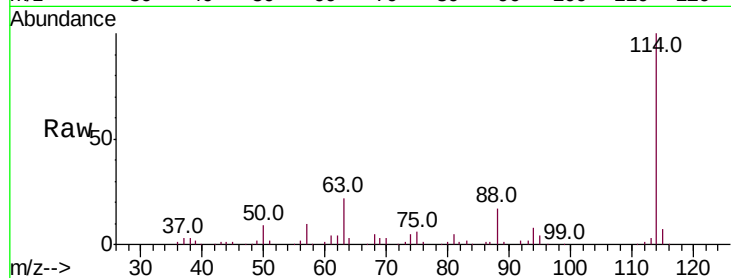




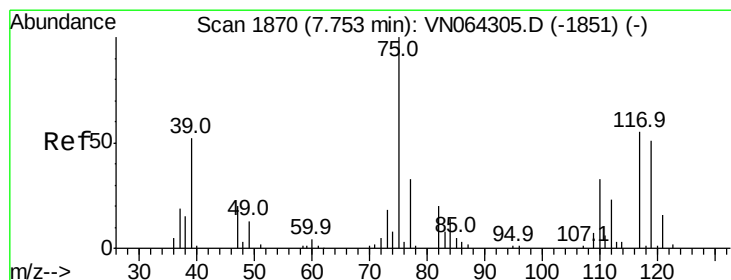
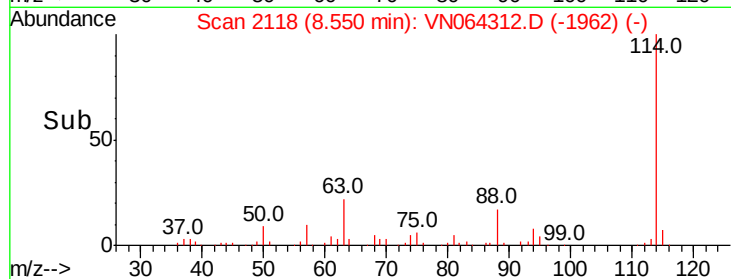
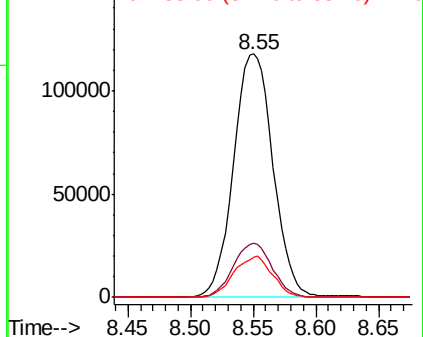
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion:114 Resp: 257986
 Ion Ratio Lower Upper
 114 100
 63 21.9 18.3 27.5
 88 16.5 13.2 19.8

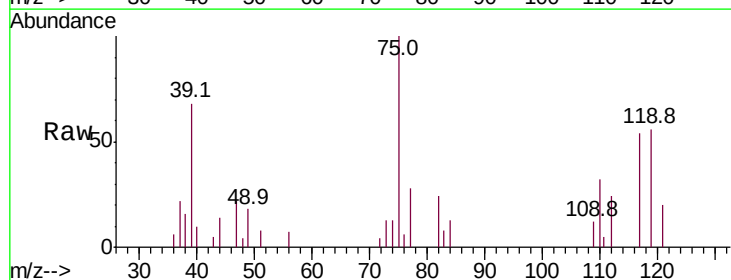


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

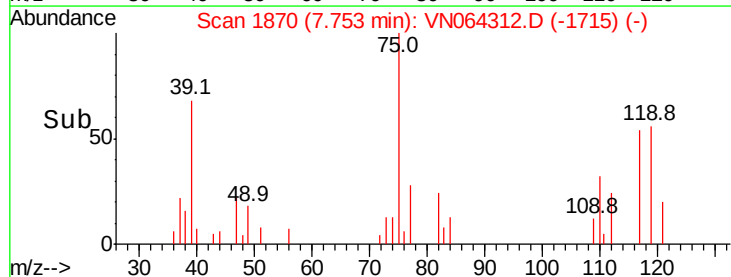
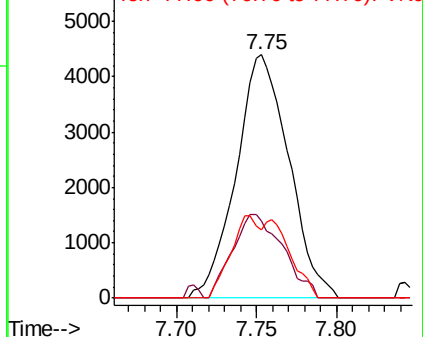


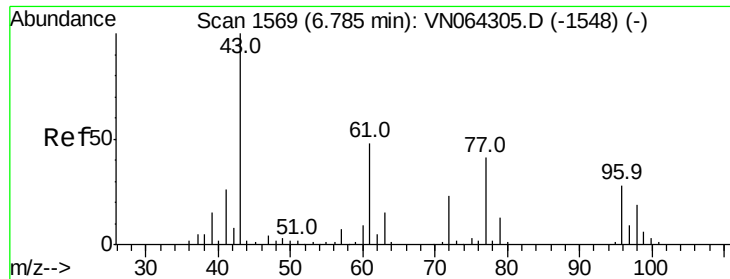
#29
 1,1-Dichloropropene
 Concen: 2.235 ug/l
 RT: 7.75 min Scan# 1870
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 75 Resp: 9925
 Ion Ratio Lower Upper
 75 100
 110 31.8 0.0 64.4
 77 18.8 0.0 63.6



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

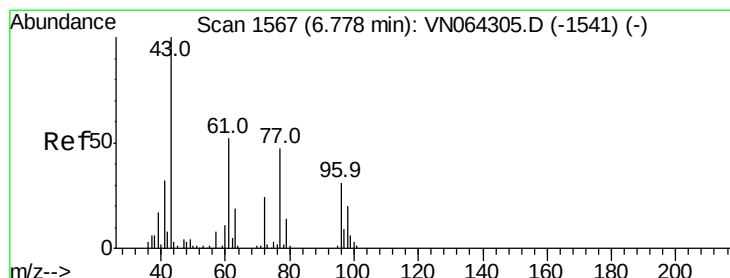
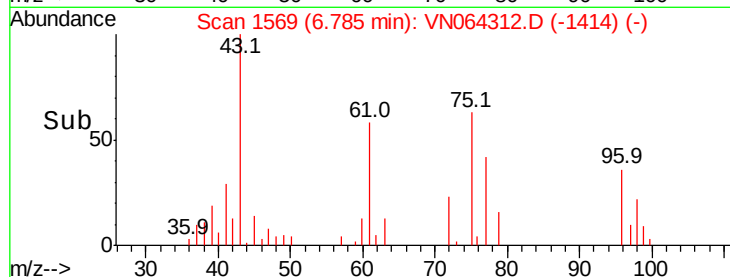
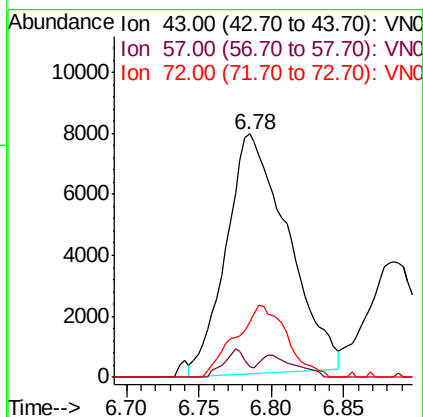
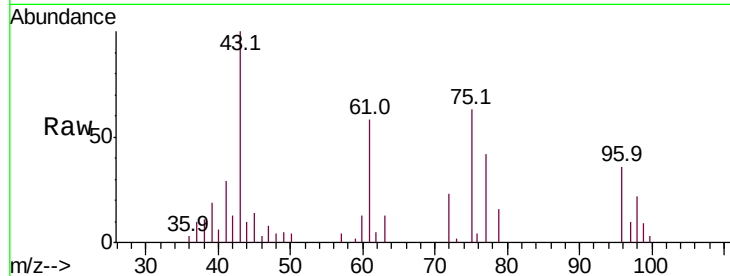




#30
2-Butanone
Concen: 11.078 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

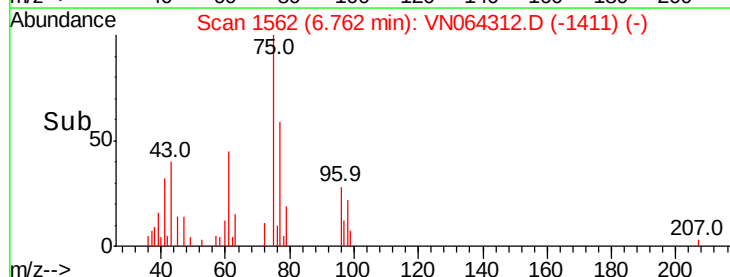
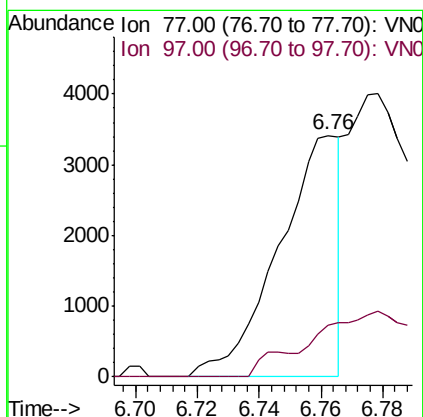
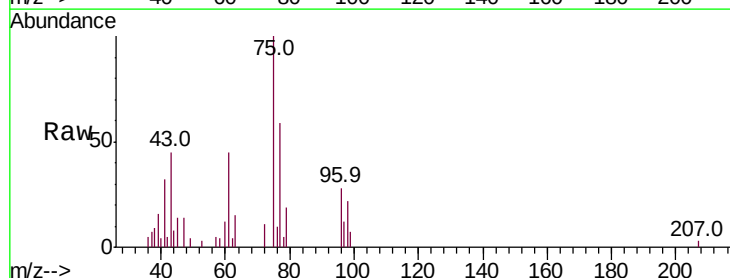
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

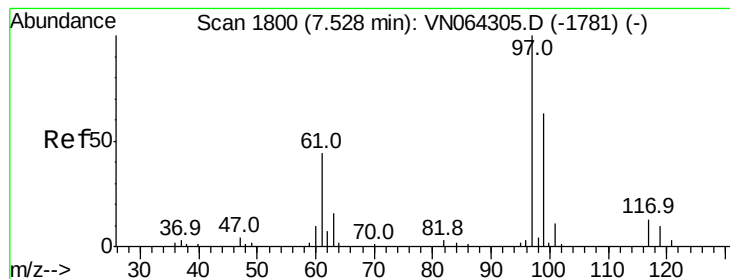
Tot Ion: 43 Resp: 23183
Ion Ratio Lower Upper
43 100
57 5.4 4.1 6.1
72 25.2 19.0 28.6



#31
2,2-Dichloropropane
Concen: 0.879 ug/l
RT: 6.76 min Scan# 1562
Delta R.T. -0.02 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 77 Resp: 4691
Ion Ratio Lower Upper
77 100
97 6.6 5.8 8.8





#32

1,1,1-Trichloroethane

Concen: 2.534 ug/l

RT: 7.53 min Scan# 1802

Delta R.T. 0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

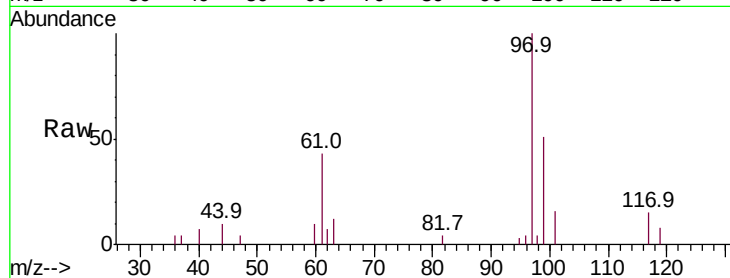
Tot Ion: 97 Resp: 14088

Ion Ratio Lower Upper

97 100

99 60.2 51.6 77.4

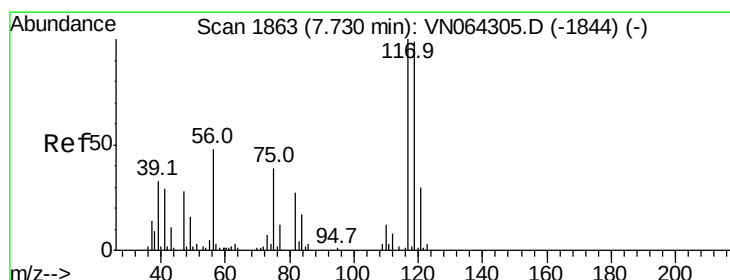
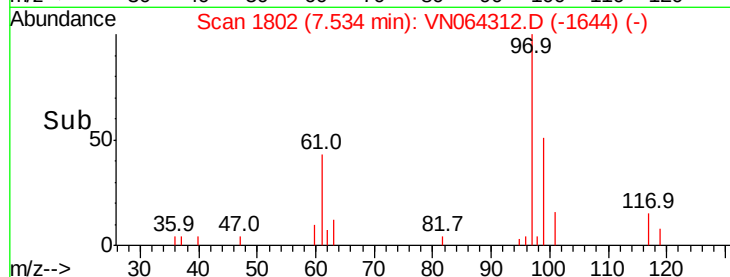
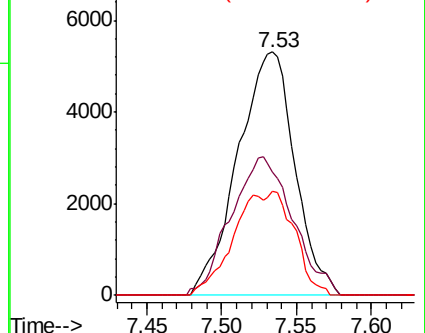
61 23.7 36.4 54.6#



Abundance Ion 97.00 (96.70 to 97.70): VN064305.D (-1781) (-)

Ion 99.00 (98.70 to 99.70): VN064305.D (-1781) (-)

Ion 61.00 (60.70 to 61.70): VN064305.D (-1781) (-)



#33

Carbon Tetrachloride

Concen: 2.520 ug/l

RT: 7.72 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

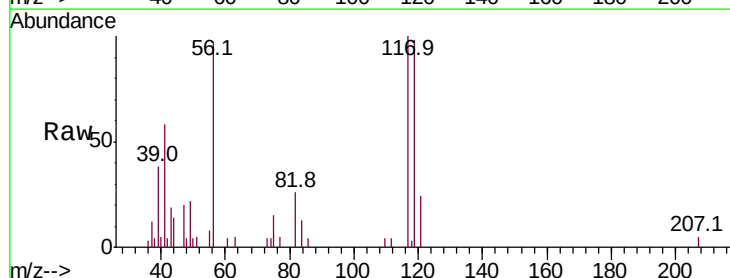
Tgt Ion: 117 Resp: 12819

Ion Ratio Lower Upper

117 100

119 98.4 79.3 118.9

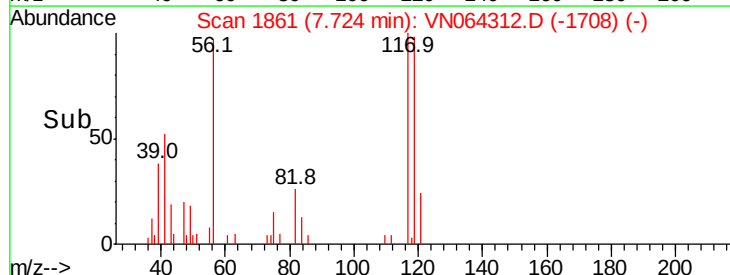
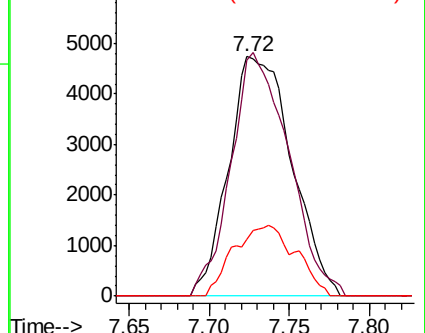
121 23.8 24.6 37.0#

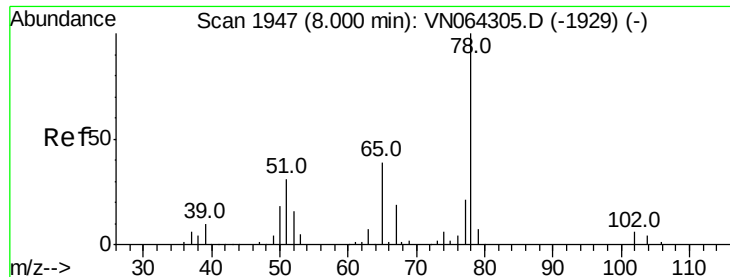


Abundance Ion 117.00 (116.70 to 117.70): VN064305.D (-1844) (-)

Ion 119.00 (118.70 to 119.70): VN064305.D (-1844) (-)

Ion 121.00 (120.70 to 121.70): VN064305.D (-1844) (-)





#34

Benzene

Concen: 2.290 ug/l

RT: 8.00 min Scan# 1947

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

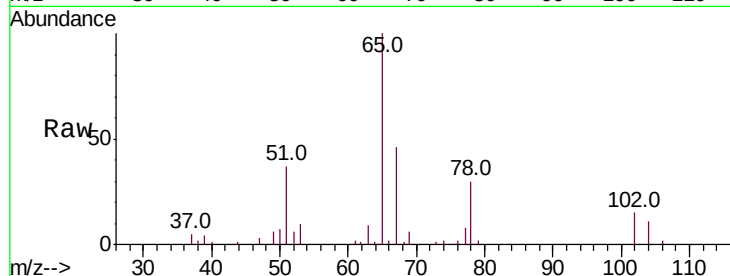
Tot Ion: 78 Resp: 27293

Ion Ratio Lower Upper

78 100

77 27.1 16.5 24.7#

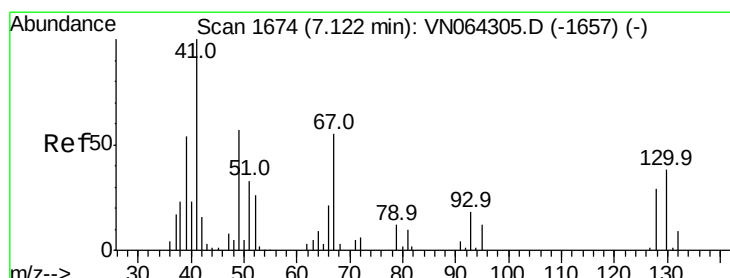
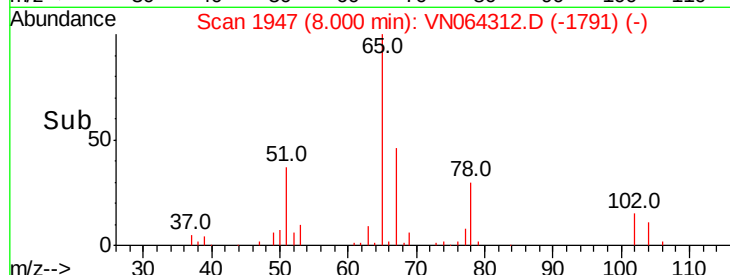
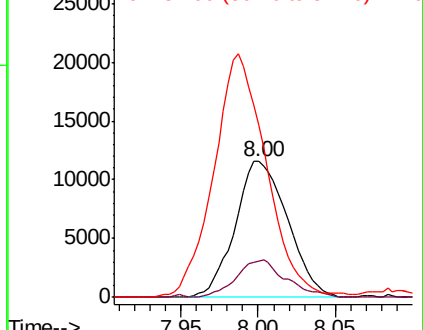
51 123.6 24.5 36.7#



Abundance Ion 78.10 (77.80 to 78.80): VN064312.D (-1791) (-)

Ion 77.00 (76.70 to 77.70): VN064312.D (-1791) (-)

Ion 51.00 (50.70 to 51.70): VN064312.D (-1791) (-)



#35

Methacrylonitrile

Concen: 1.710 ug/l

RT: 7.13 min Scan# 1676

Delta R.T. 0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Tgt Ion: 41 Resp: 3737

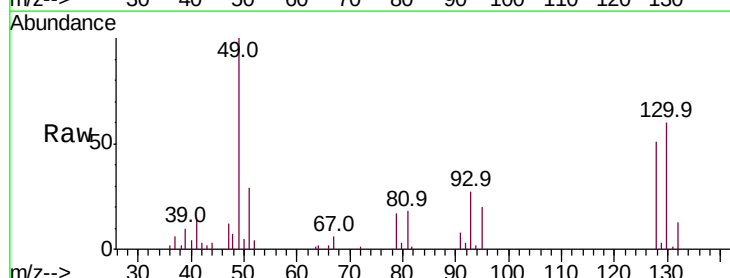
Ion Ratio Lower Upper

41 100

39 70.2 27.1 81.2

67 47.3 27.7 83.1

52 27.9 13.2 39.5

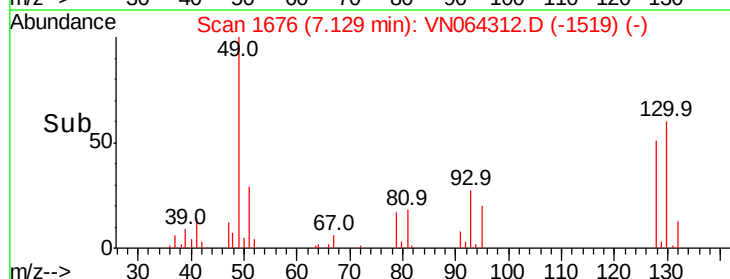
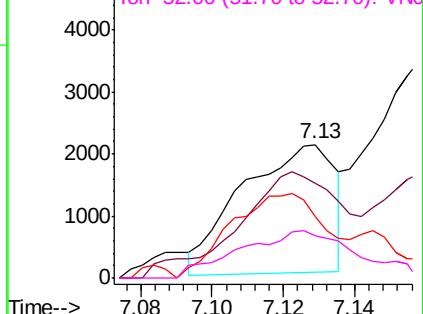


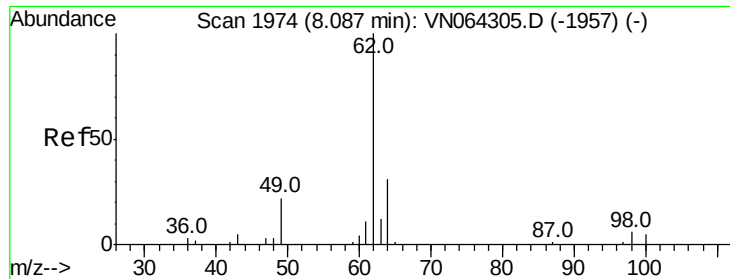
Abundance Ion 41.00 (40.70 to 41.70): VN064312.D (-1519) (-)

Ion 39.00 (38.70 to 39.70): VN064312.D (-1519) (-)

Ion 67.00 (66.70 to 67.70): VN064312.D (-1519) (-)

Ion 52.00 (51.70 to 52.70): VN064312.D (-1519) (-)

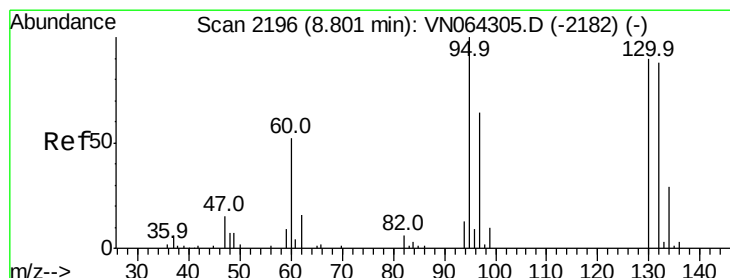
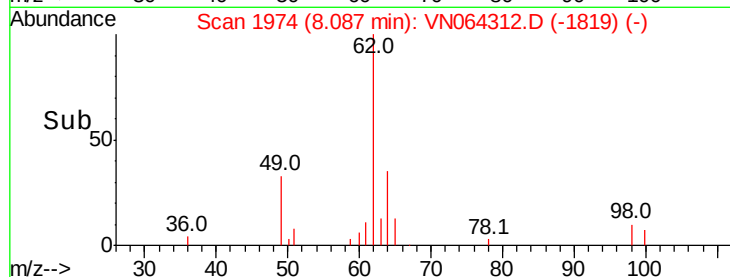
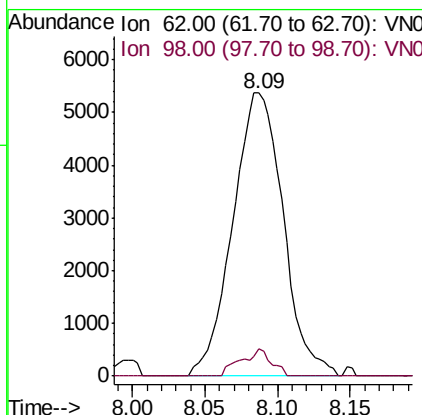
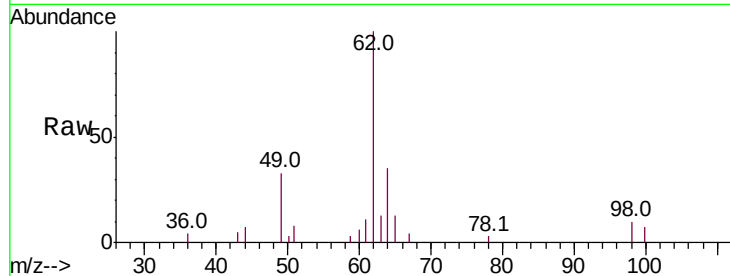




#36
 1,2-Dichloroethane
 Concen: 2.452 ug/l
 RT: 8.09 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

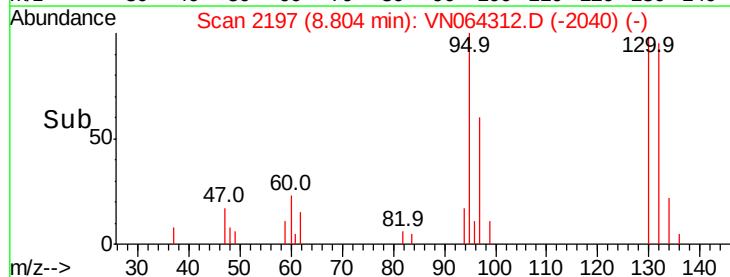
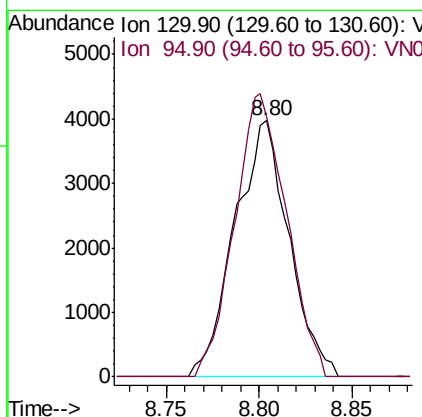
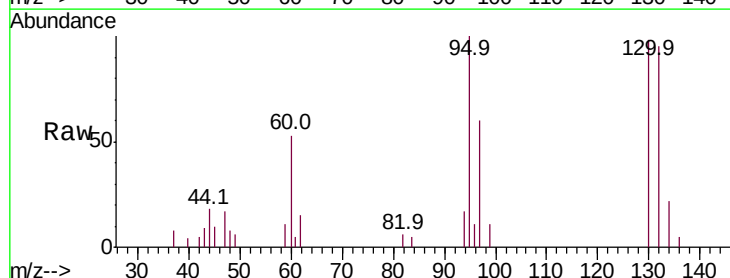
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

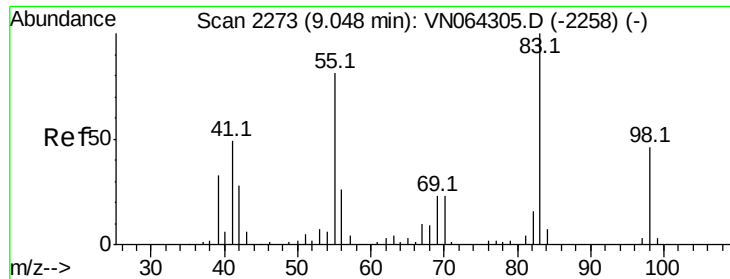
Tot Ion: 62 Resp: 12982
 Ion Ratio Lower Upper
 62 100
 98 3.4 3.4 5.0#



#37
 Trichloroethene
 Concen: 2.480 ug/l
 RT: 8.80 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion:130 Resp: 8064
 Ion Ratio Lower Upper
 130 100
 95 101.5 88.8 133.2

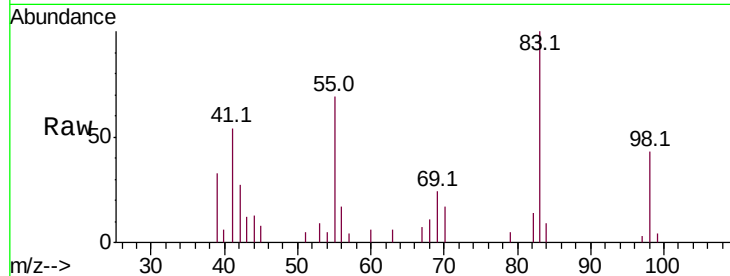




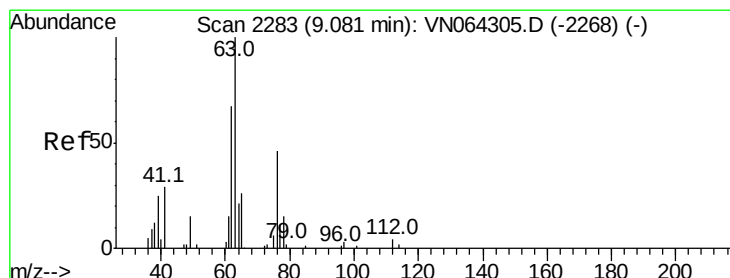
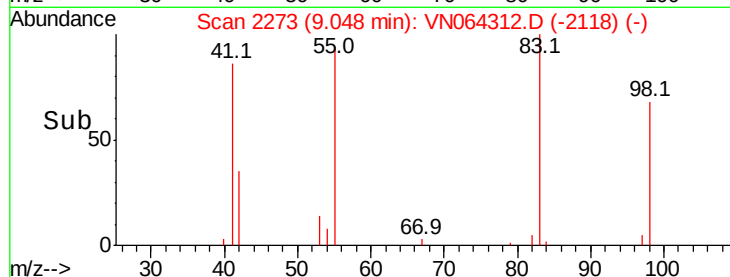
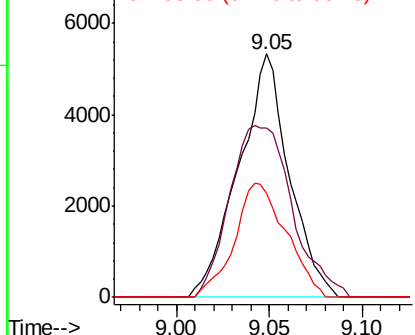
#38
Methylvlcyclohexane
Concen: 2.353 ug/l
RT: 9.05 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 83 Resp: 10097
Ion Ratio Lower Upper
83 100
55 87.3 40.3 120.8
98 47.7 22.8 68.3

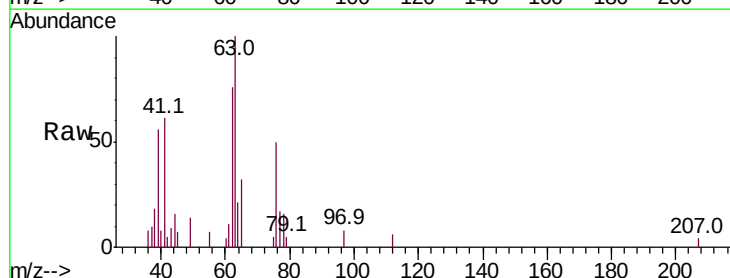


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

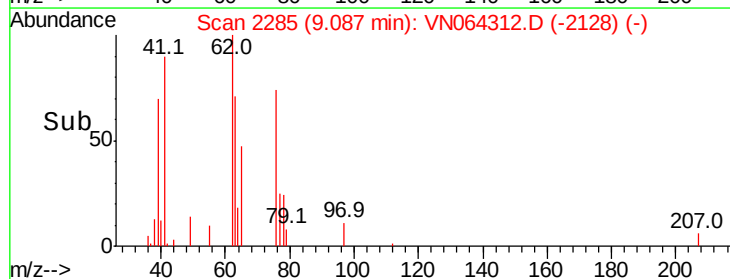
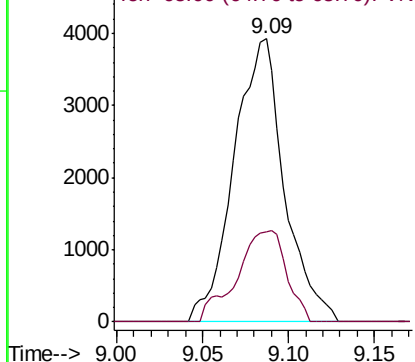


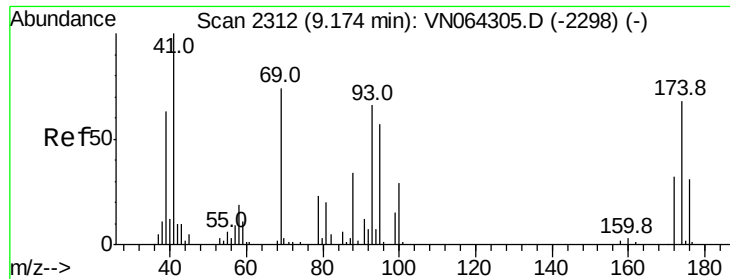
#39
1,2-Dichloropropane
Concen: 2.491 ug/l
RT: 9.09 min Scan# 2285
Delta R.T. 0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 63 Resp: 8017
Ion Ratio Lower Upper
63 100
65 31.7 22.6 33.8



Abundance Ion 63.00 (62.70 to 63.70): VN0
Ion 65.00 (64.70 to 65.70): VN0





#40

Dibromomethane

Concen: 2.458 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

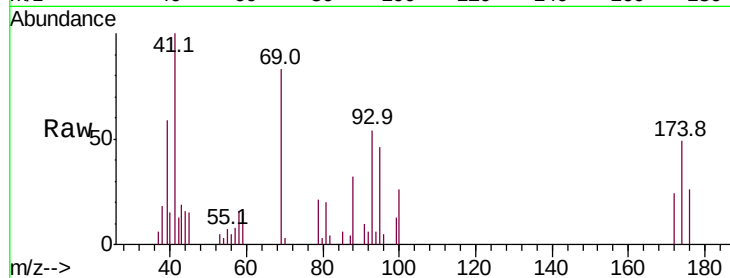
Tot Ion: 93 Resp: 5489

Ion Ratio Lower Upper

93 100

95 86.6 0.0 174.4

174 89.9 0.0 188.0

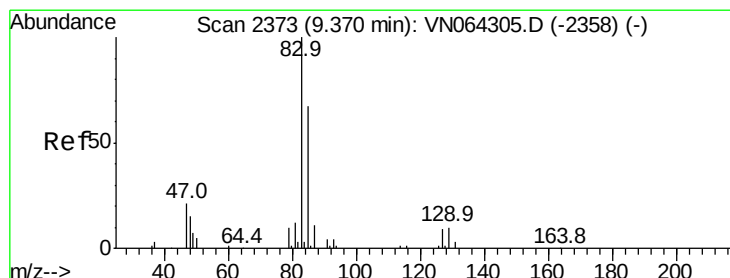
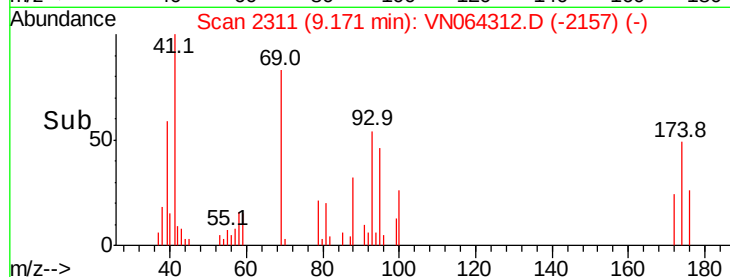


Abundance Ion 93.00 (92.70 to 93.70): VN064312.D (-2157) (-)

Ion 95.00 (94.70 to 95.70): VN064312.D (-2157) (-)

Ion 174.00 (173.70 to 174.70): VN064312.D (-2157) (-)

Time-->



#41

Bromodichloromethane

Concen: 2.339 ug/l

RT: 9.37 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

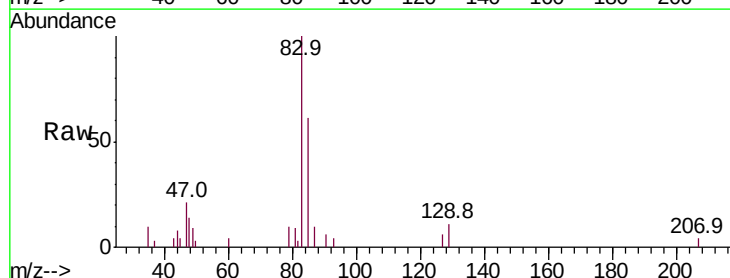
Tgt Ion: 83 Resp: 11281

Ion Ratio Lower Upper

83 100

85 61.1 53.4 80.0

127 5.9 7.0 10.4#

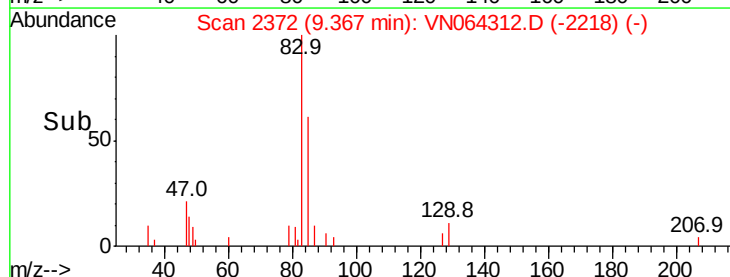


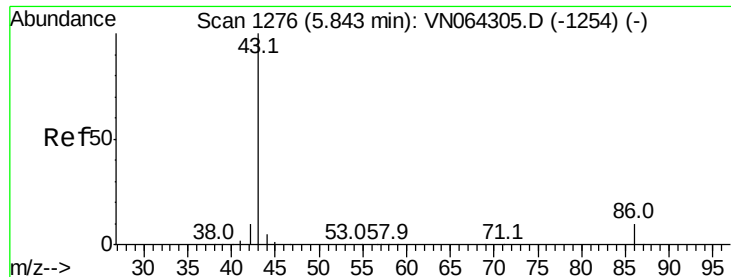
Abundance Ion 83.00 (82.70 to 83.70): VN064312.D (-2218) (-)

Ion 85.00 (84.70 to 85.70): VN064312.D (-2218) (-)

Ion 127.00 (126.70 to 127.70): VN064312.D (-2218) (-)

Time-->





#42

Vinyl Acetate

Concen: 9.986 ug/l

RT: 5.85 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

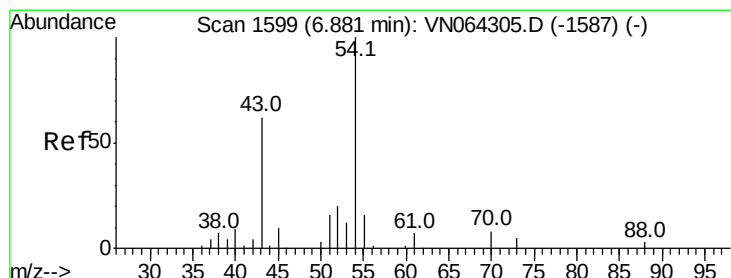
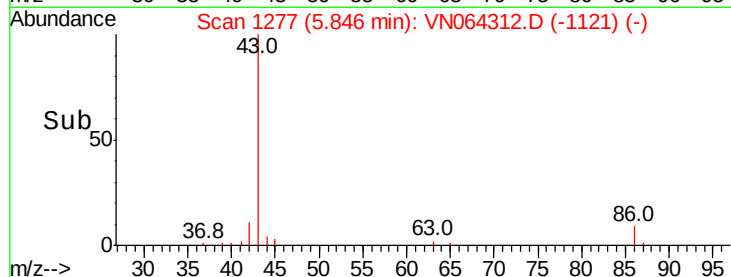
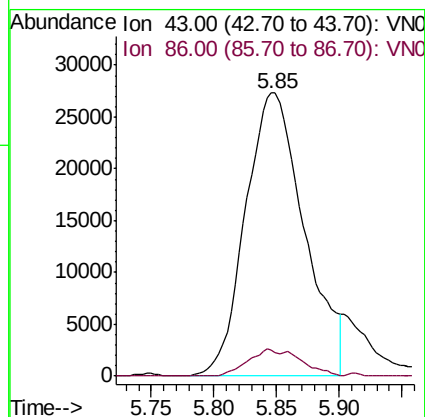
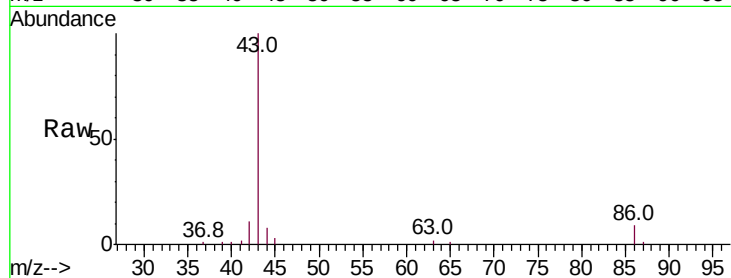
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 89299

Ion Ratio Lower Upper

43 100

86 5.0 6.6 9.8#



#43

Ethyl Acetate

Concen: 2.083 ug/l

RT: 6.88 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VN064312.D

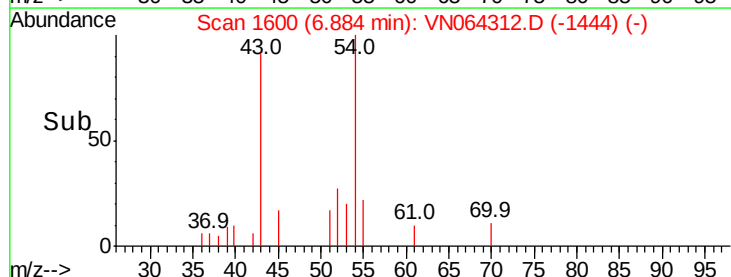
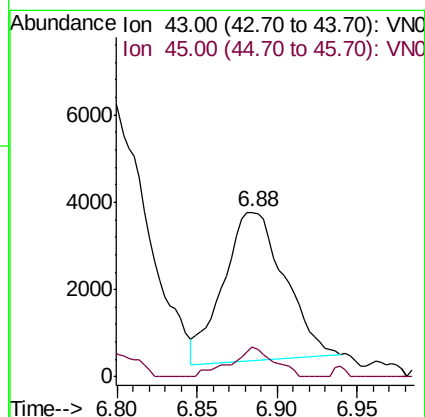
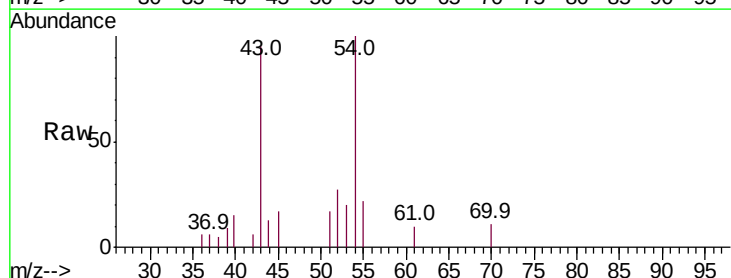
Acq: 26 Oct 2020 19:51

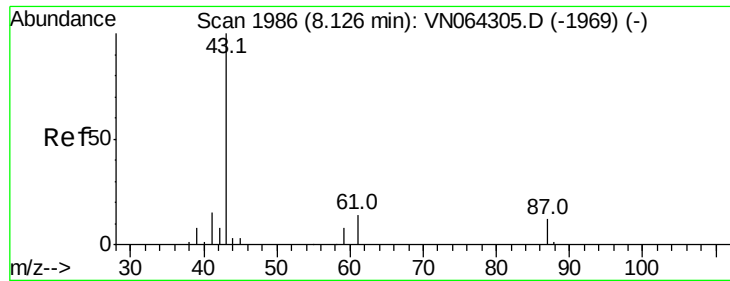
Tgt Ion: 43 Resp: 8887

Ion Ratio Lower Upper

43 100

45 11.3 4.0 6.0#





#44

Isopropyl Acetate

Concen: 2.314 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

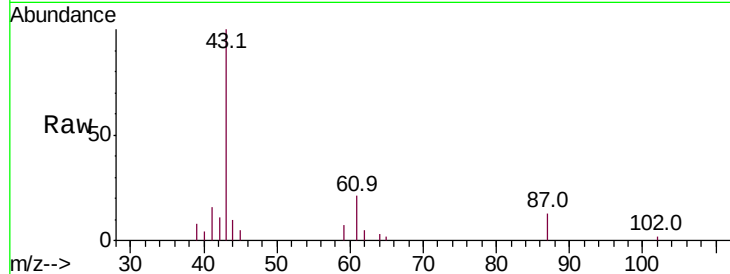
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 18135

Ion Ratio Lower Upper

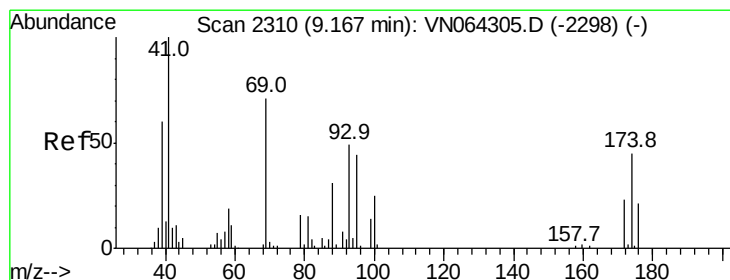
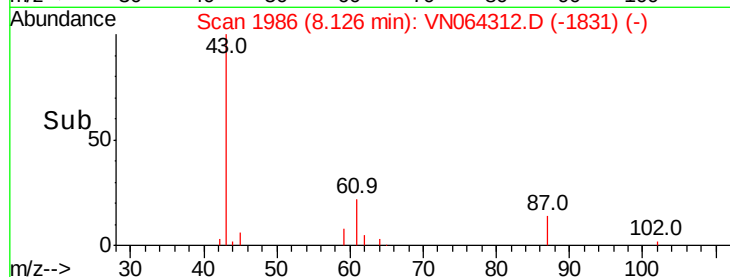
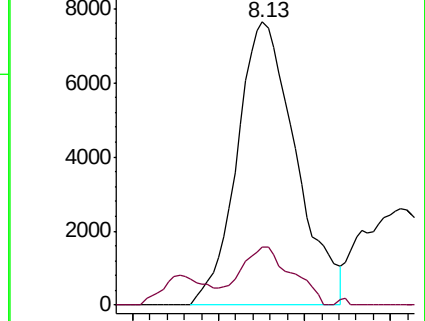
43 100

61 17.6 14.3 21.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#45

1,4-Dioxane

Concen: 53.682 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

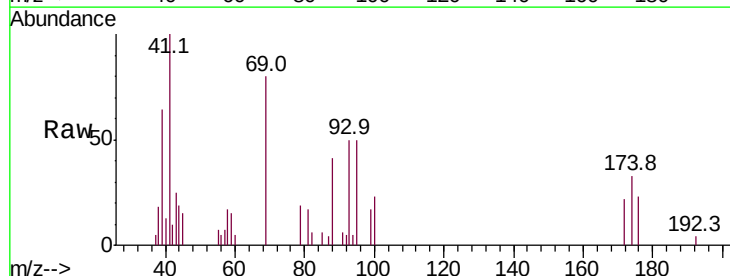
Tgt Ion: 88 Resp: 3245

Ion Ratio Lower Upper

88 100

43 31.9 31.2 46.8

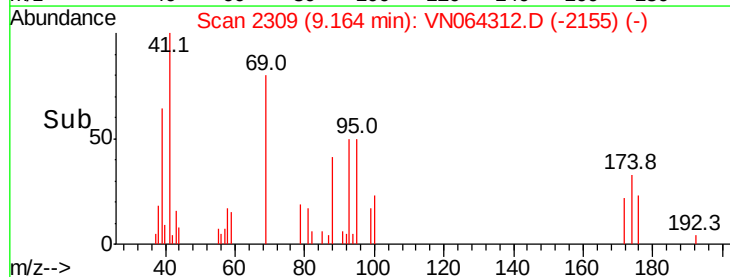
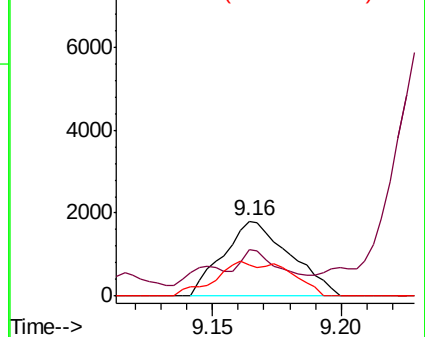
58 29.1 55.4 83.2#

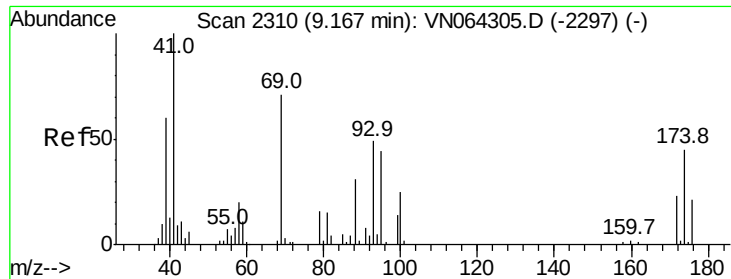


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

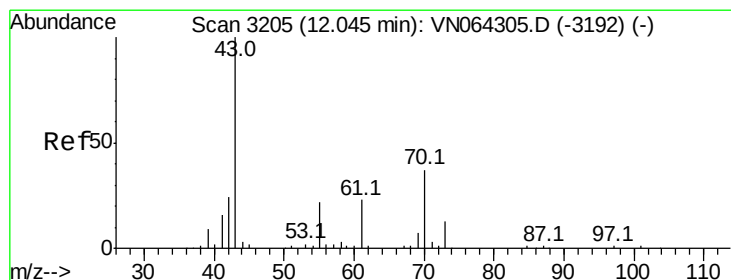
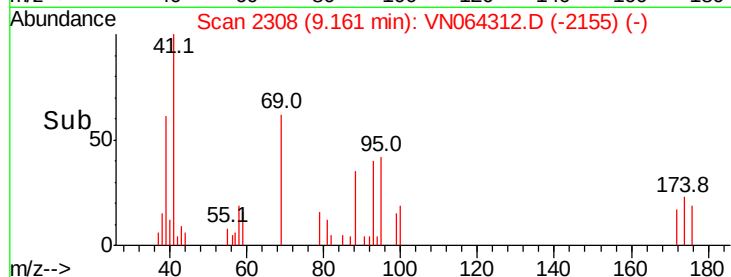
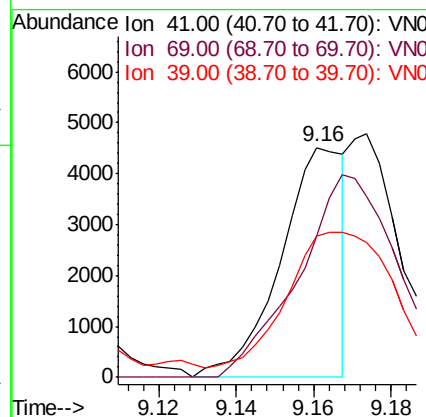
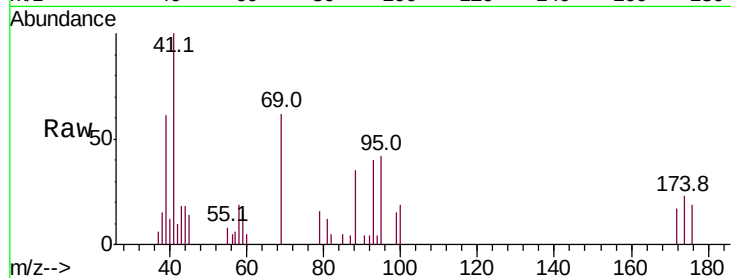




#46
Methyl methacrylate
Concen: 1.342 ug/l
RT: 9.16 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

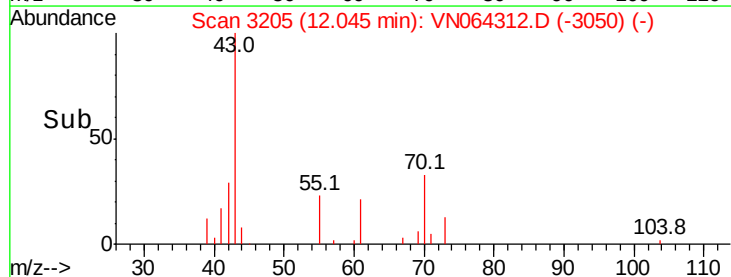
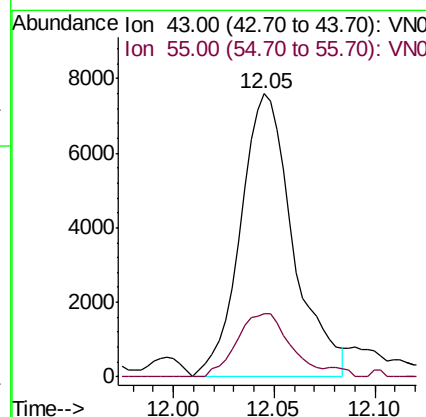
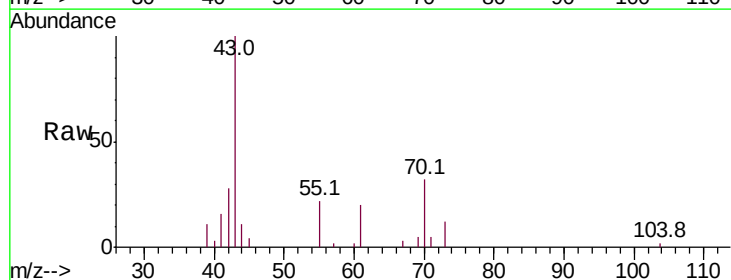
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

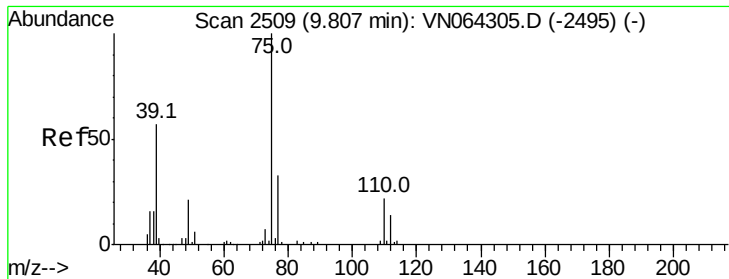
Tot Ion: 41 Resp: 5134
Ion Ratio Lower Upper
41 100
69 61.7 35.3 105.9
39 55.4 30.2 90.6



#47
n-ethyl Acetate
Concen: 2.100 ug/l
RT: 12.05 min Scan# 3205
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 43 Resp: 13855
Ion Ratio Lower Upper
43 100
55 22.4 17.3 25.9



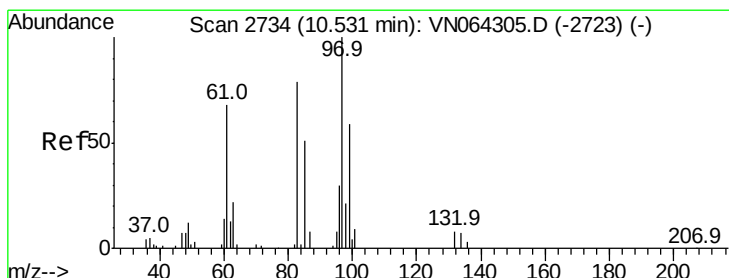
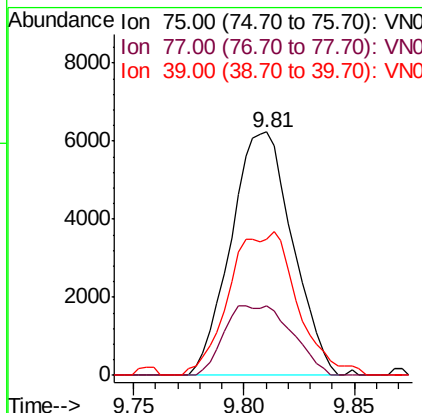
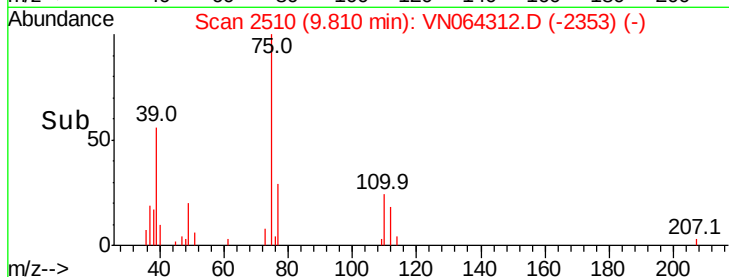
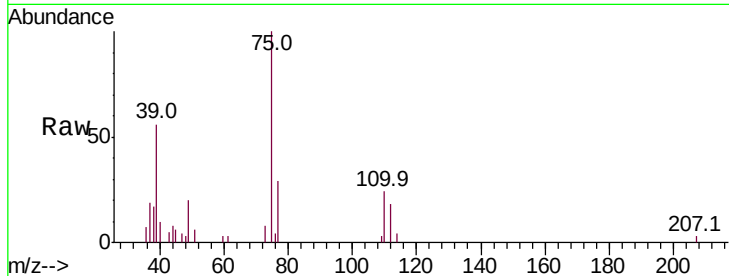


#49

cis-1,3-Dichloropropene
Concen: 2.170 ug/l
RT: 9.81 min Scan# 2510
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

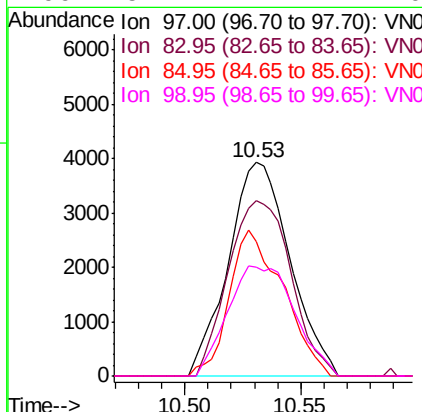
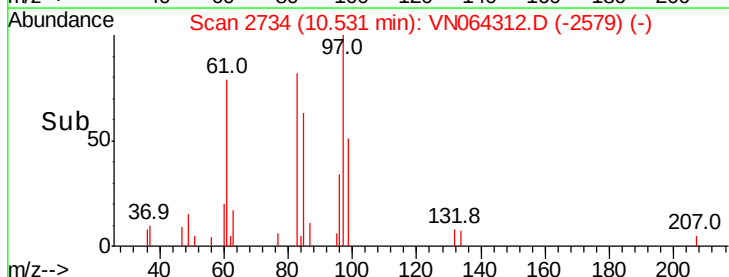
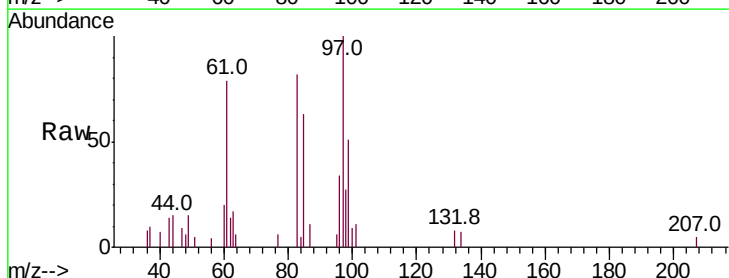
Tot Ion: 75 Resp: 12032
Ion Ratio Lower Upper
75 100
77 28.7 26.7 40.1
39 52.9 45.9 68.9

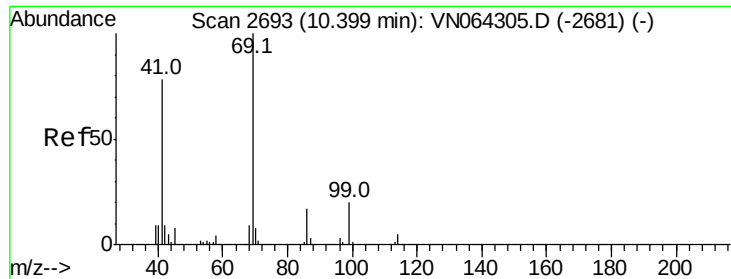


#50

1,1,2-Trichloroethane
Concen: 2.424 ug/l
RT: 10.53 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 97 Resp: 7268
Ion Ratio Lower Upper
97 100
83 81.9 63.2 94.8
85 62.9 41.0 61.6#
99 51.2 47.4 71.0





#51

Ethyl methacrylate

Concen: 2.092 ug/l

RT: 10.40 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

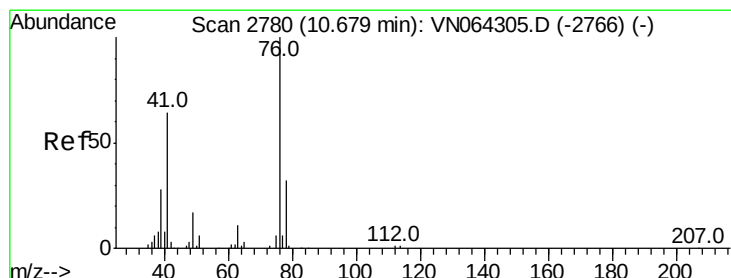
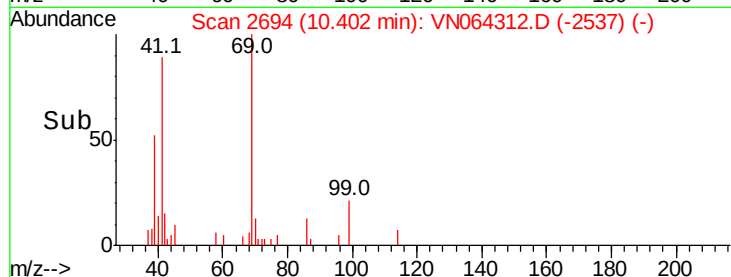
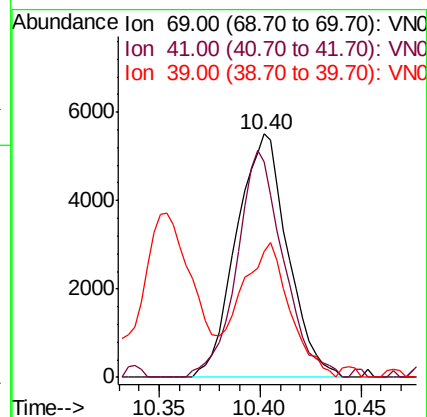
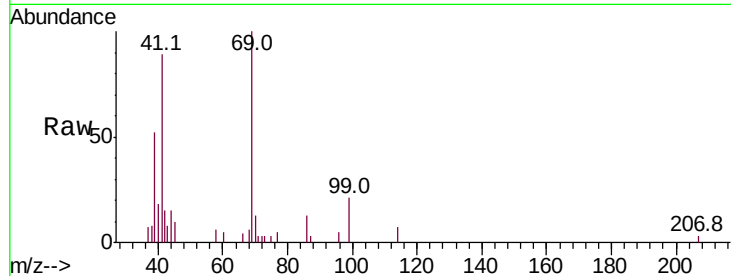
Tot Ion: 69 Resp: 9794

Ion Ratio Lower Upper

69 100

41 88.6 38.8 116.4

39 47.7 24.6 74.0



#52

1,3-Dichloropropane

Concen: 2.344 ug/l

RT: 10.68 min Scan# 2780

Delta R.T. -0.00 min

Lab File: VN064312.D

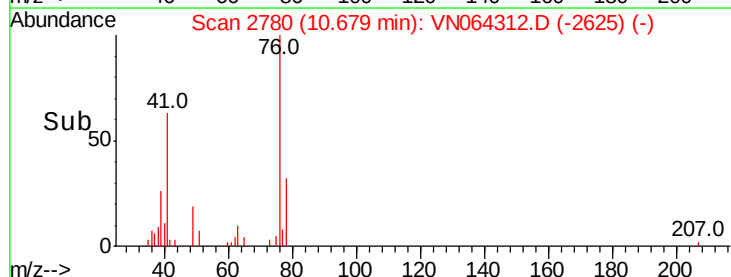
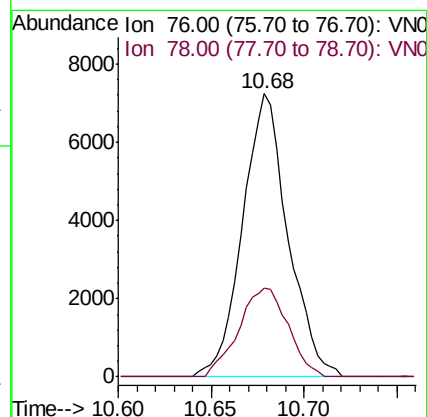
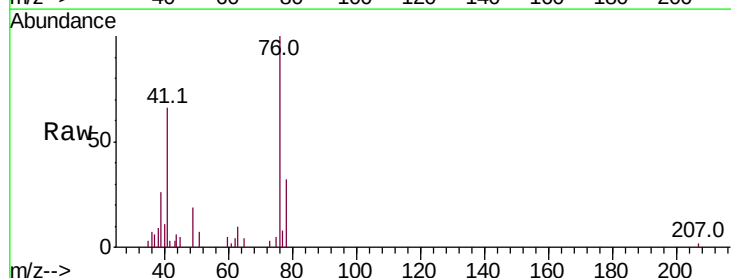
Acq: 26 Oct 2020 19:51

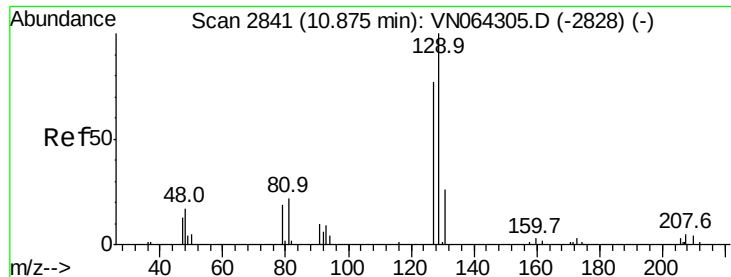
Tgt Ion: 76 Resp: 12341

Ion Ratio Lower Upper

76 100

78 34.1 0.0 61.6





#53

Dibromochloromethane

Concen: 2.306 ug/l

RT: 10.87 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

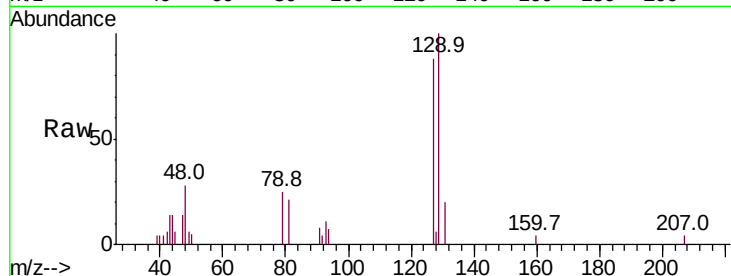
MDL-WATER-03-QT4-2020

Tot Ion:129 Resp: 8446

Ion Ratio Lower Upper

129 100

127 80.4 38.9 116.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.87

4000

3000

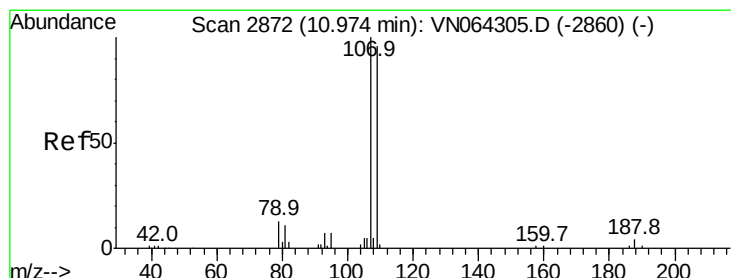
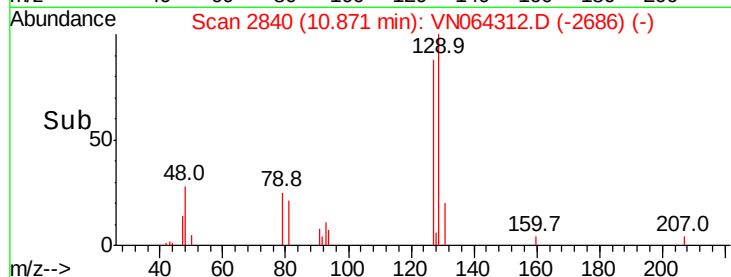
2000

1000

0

10.85 10.90

Time-->



#54

1,2-Dibromoethane

Concen: 2.356 ug/l

RT: 10.97 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN064312.D

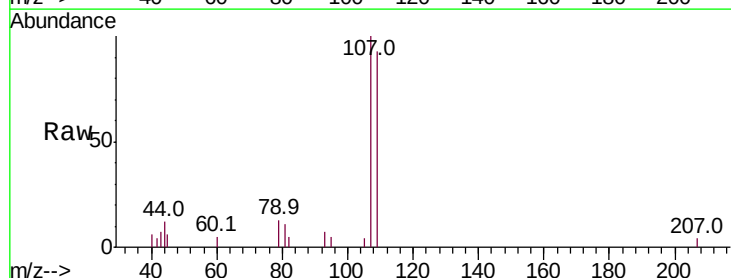
Acq: 26 Oct 2020 19:51

Tgt Ion:107 Resp: 7547

Ion Ratio Lower Upper

107 100

109 98.6 74.8 112.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.97

4000

3000

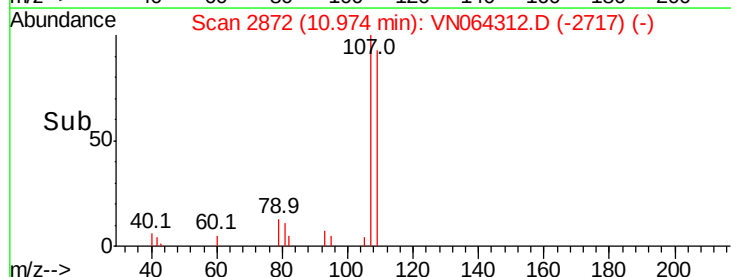
2000

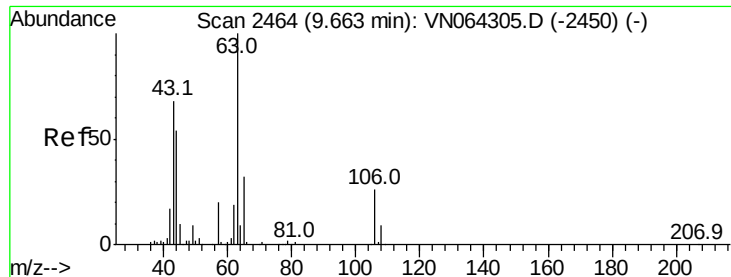
1000

0

10.95 11.00

Time-->

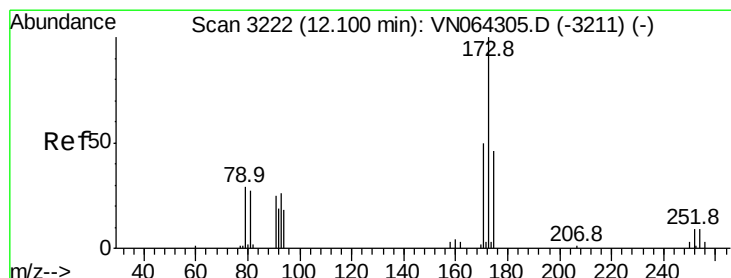
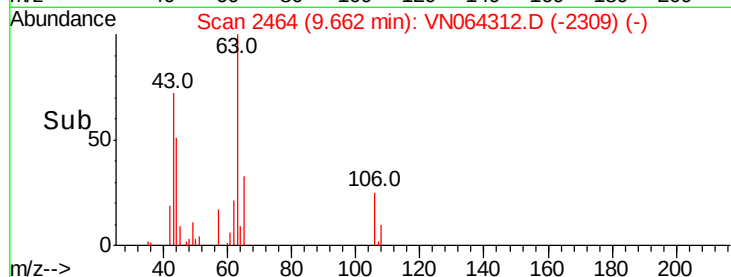
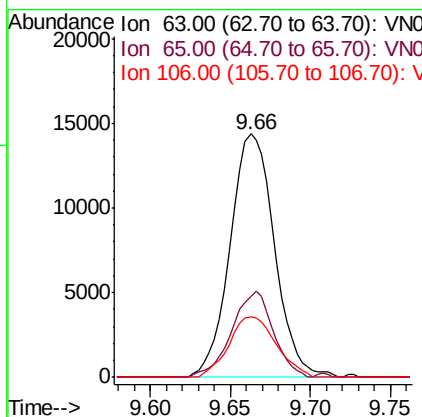
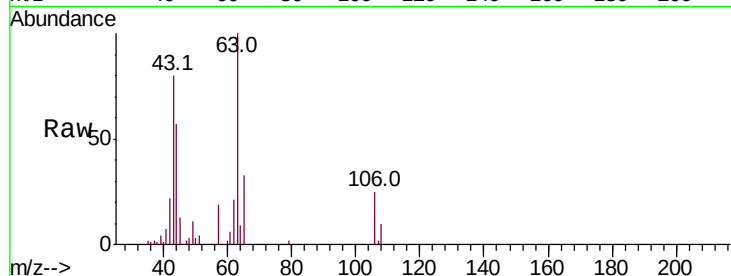




#55
2-Chloroethyl vinyl ether
Concen: 11.692 ug/l
RT: 9.66 min Scan# 2464
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

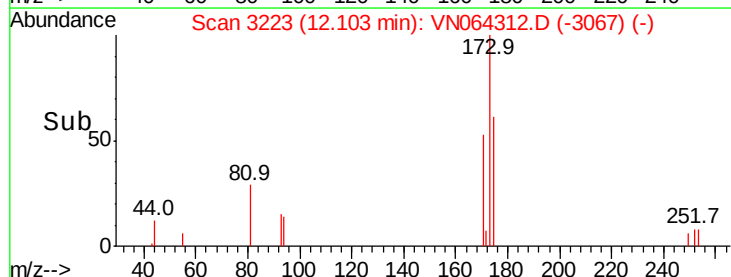
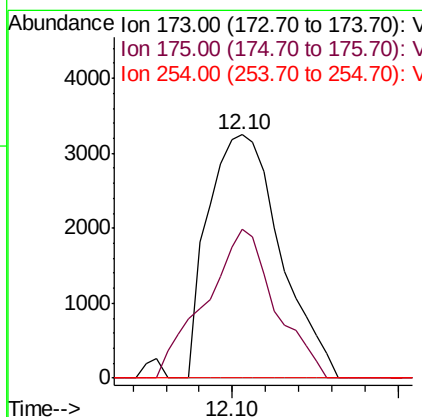
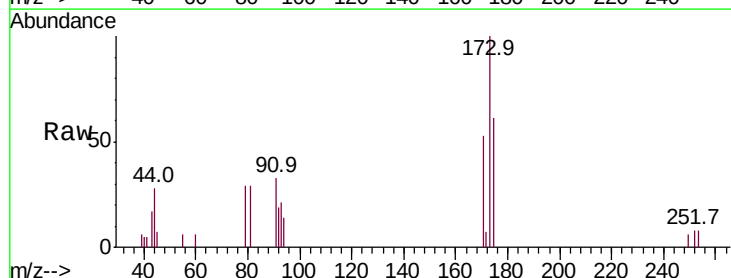
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

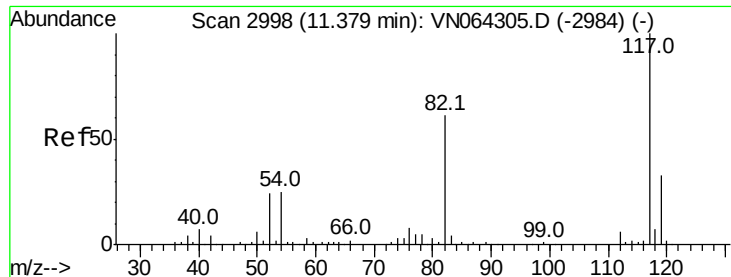
Tot Ion: 63 Resp: 27248
Ion Ratio Lower Upper
63 100
65 33.0 25.6 38.4
106 26.4 20.7 31.1



#56
Bromoform
Concen: 1.875 ug/l
RT: 12.10 min Scan# 3223
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 173 Resp: 4922
Ion Ratio Lower Upper
173 100
175 58.7 37.3 55.9#
254 0.0 4.8 7.2#

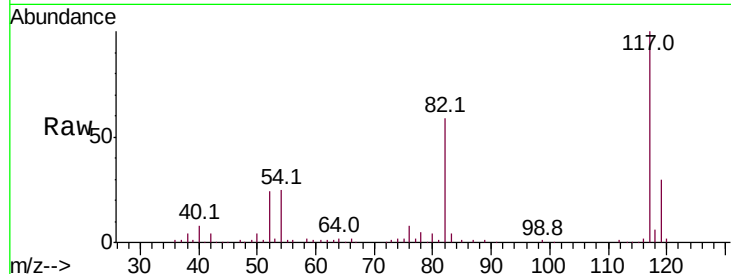




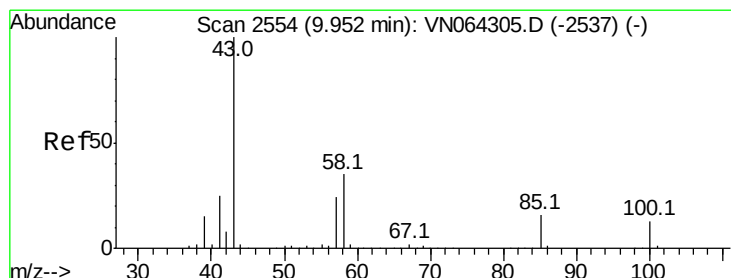
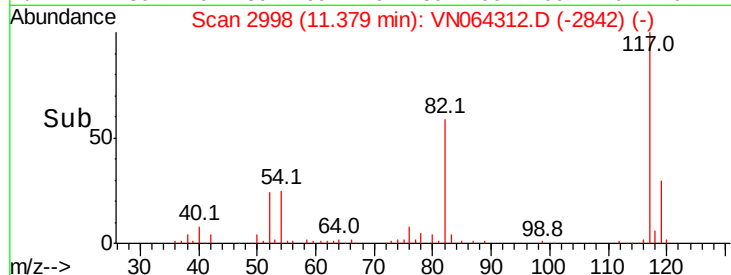
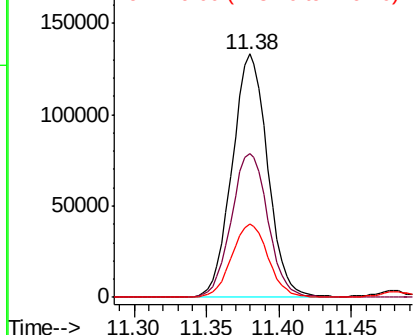
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion:117 Resp: 226705
Ion Ratio Lower Upper
117 100
82 61.0 48.7 73.1
119 30.9 25.1 37.7

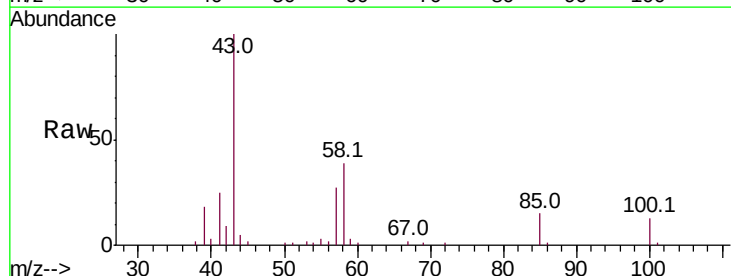


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

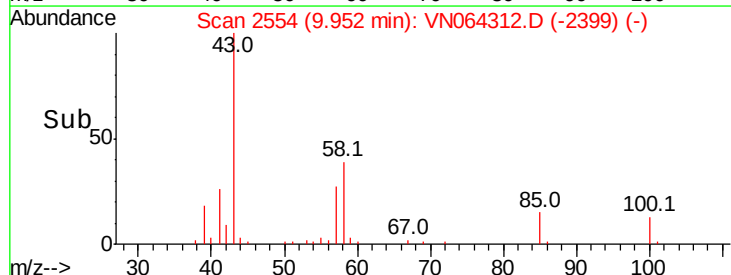
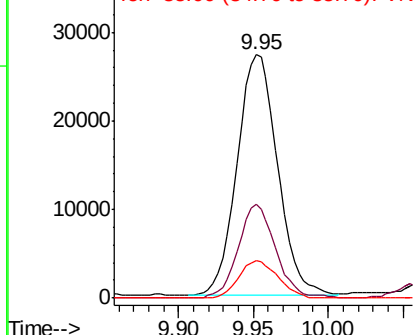


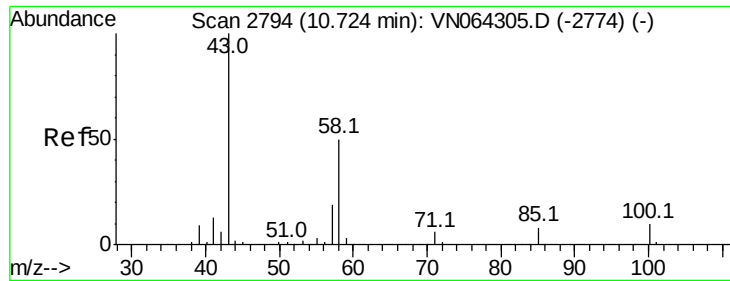
#58
4-Methyl-2-Pentanone
Concen: 12.186 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 43 Resp: 51112
Ion Ratio Lower Upper
43 100
58 35.3 28.7 43.1
85 15.1 13.4 20.2



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

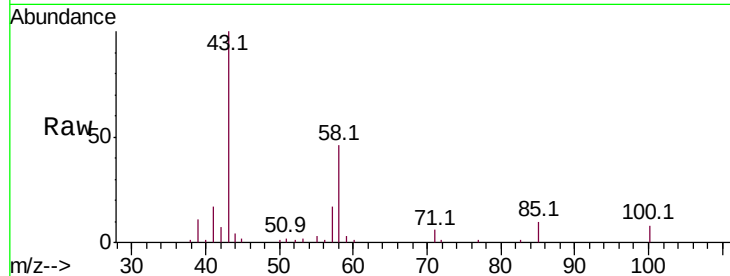




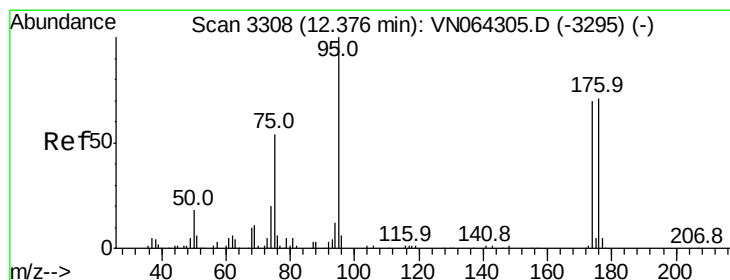
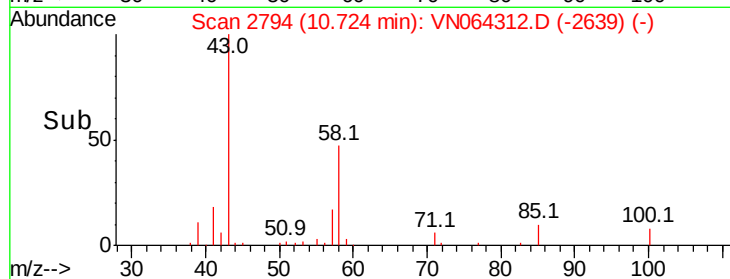
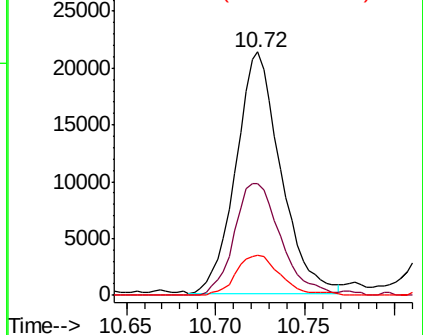
#59
2-Hexanone
Concen: 11.873 ug/l
RT: 10.72 min Scan# 2794
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 37210
Ion Ratio Lower Upper
43 100
58 47.9 39.4 59.2
57 16.1 14.8 22.2

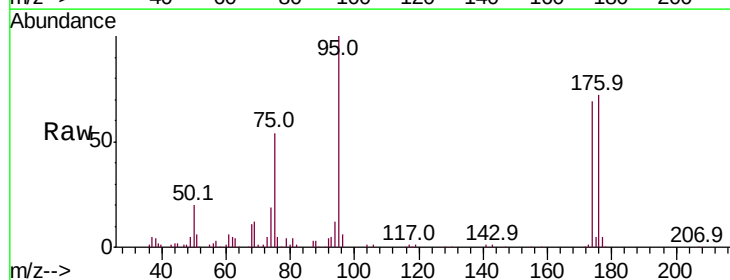


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

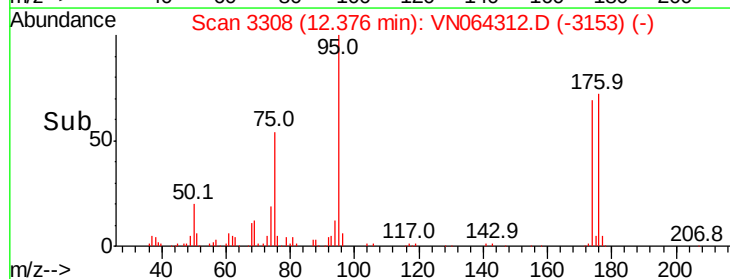
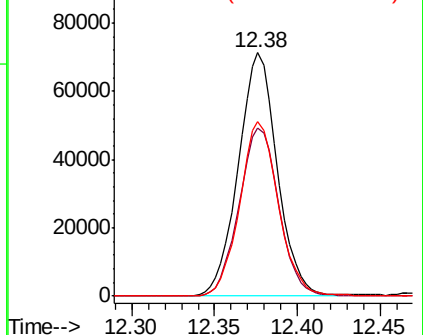


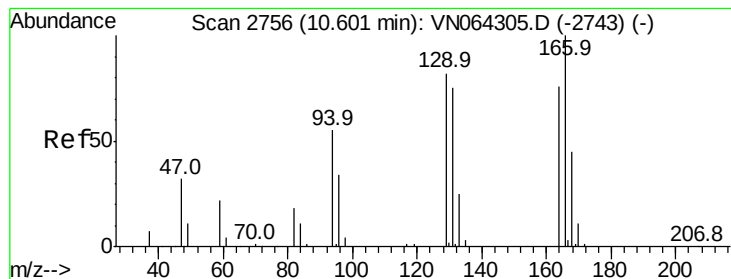
#60
4-Bromofluorobenzene
Concen: 28.691 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 95 Resp: 116361
Ion Ratio Lower Upper
95 100
174 70.6 57.6 86.4
176 71.2 55.5 83.3



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#61

Tetrachloroethene

Concen: 2.607 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion:164 Resp: 7883

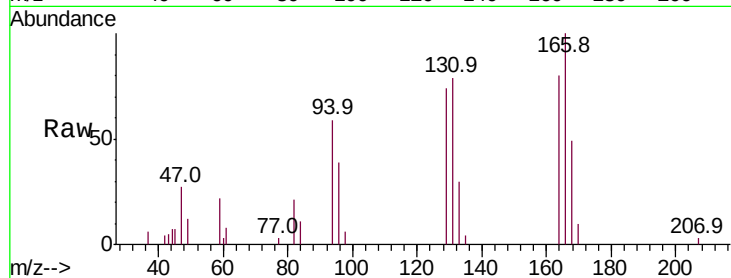
Ion Ratio Lower Upper

164 100

166 120.7 105.4 158.0

129 92.7 86.4 129.6

131 98.7 78.5 117.7

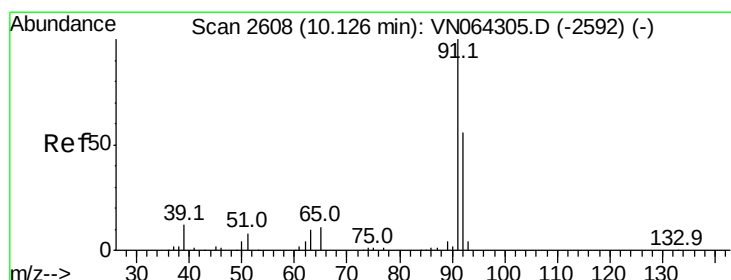
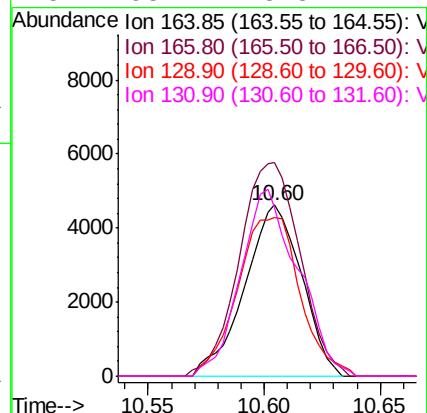
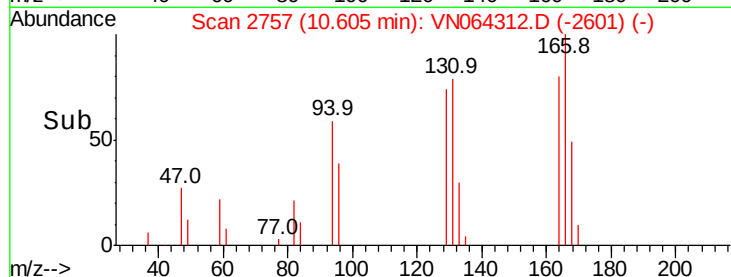


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 2.536 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064312.D

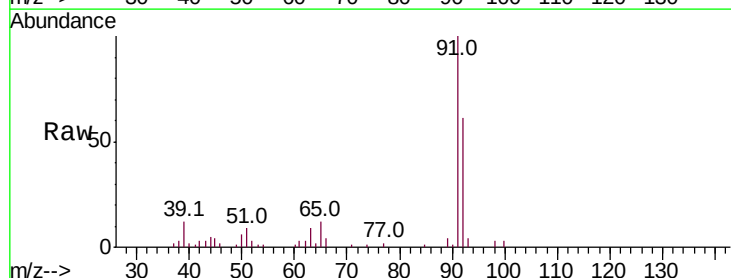
Acq: 26 Oct 2020 19:51

Tgt Ion: 91 Resp: 31670

Ion Ratio Lower Upper

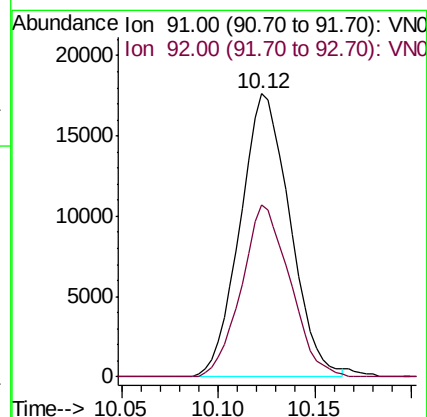
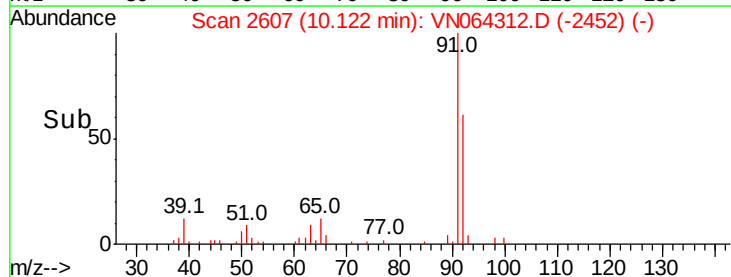
91 100

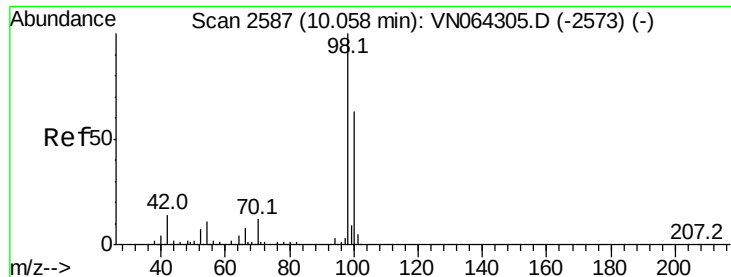
92 58.9 45.8 68.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 30.642 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

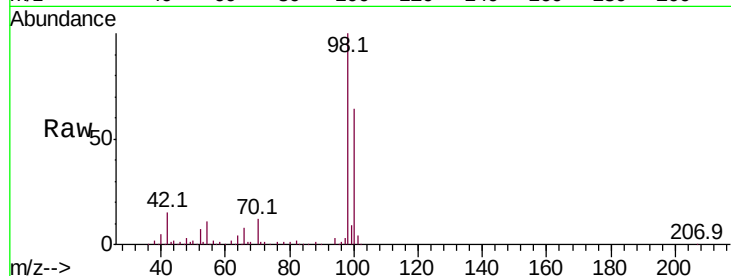
MDL-WATER-03-QT4-2020

Tot Ion: 98 Resp: 309793

Ion Ratio Lower Upper

98 100

100 63.8 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN064312.D (-2573) (-)

Ion 100.00 (99.70 to 100.70): VN064312.D (-2573) (-)

10.06

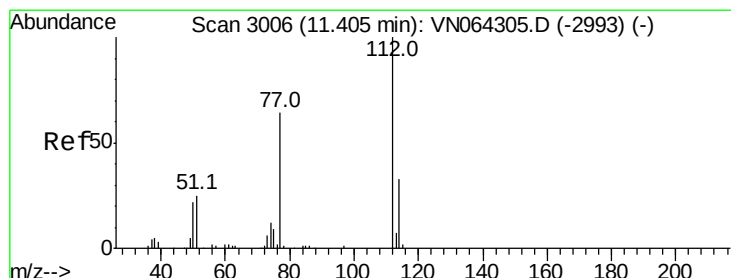
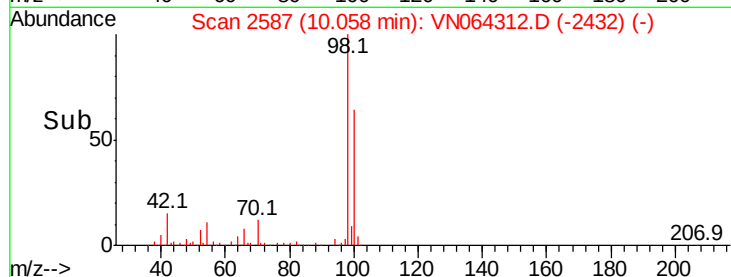
150000

100000

50000

0

Time-->



#64

Chlorobenzene

Concen: 2.432 ug/l

RT: 11.41 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VN064312.D

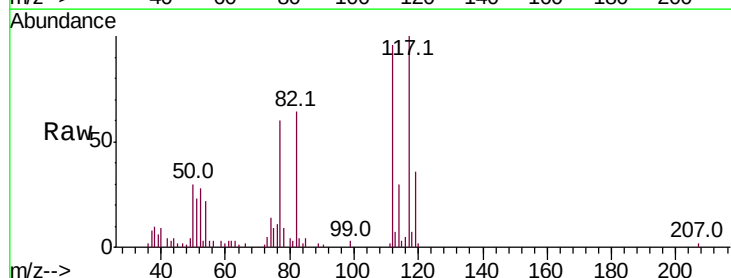
Acq: 26 Oct 2020 19:51

Tgt Ion: 112 Resp: 18936

Ion Ratio Lower Upper

112 100

114 31.3 26.7 40.1



Abundance Ion 112.00 (111.70 to 112.70): VN064312.D (-2851) (-)

Ion 114.00 (113.70 to 114.70): VN064312.D (-2851) (-)

11.41

12000

10000

8000

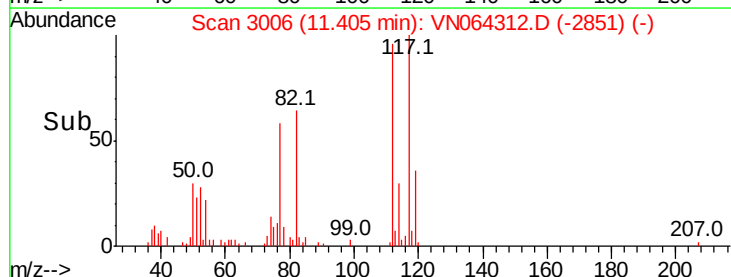
6000

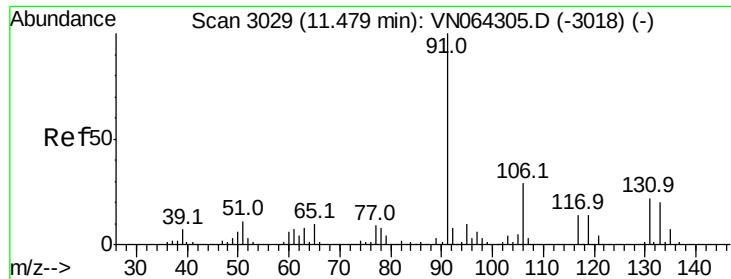
4000

2000

0

Time-->

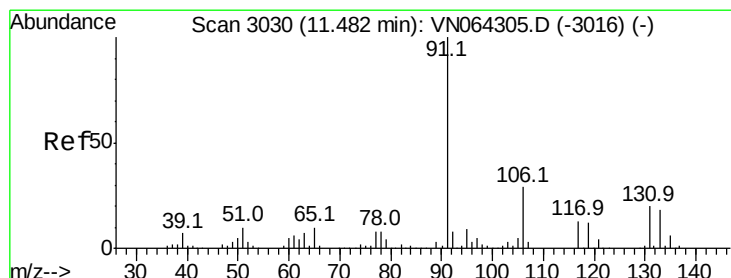
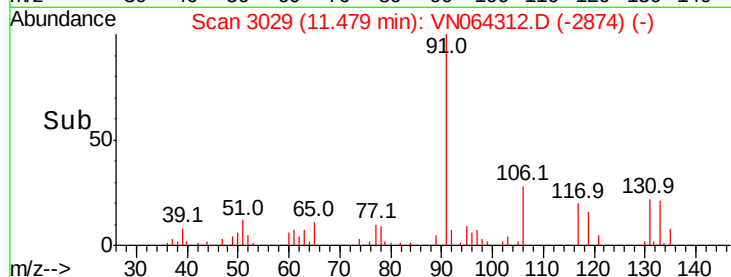
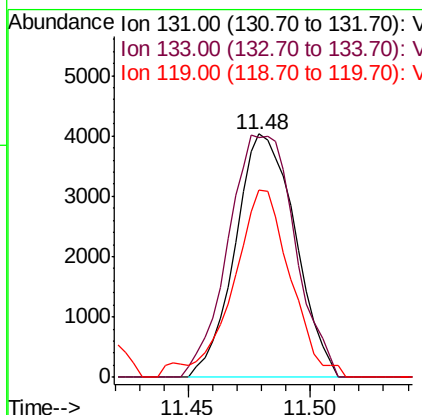
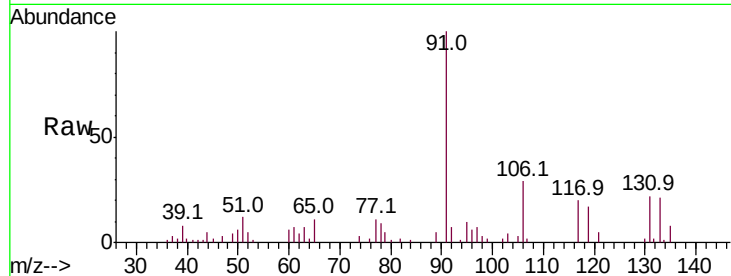




#65
 1,1,1,2-Tetrachloroethane
 Concen: 2.240 ug/l
 RT: 11.48 min Scan# 3029
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

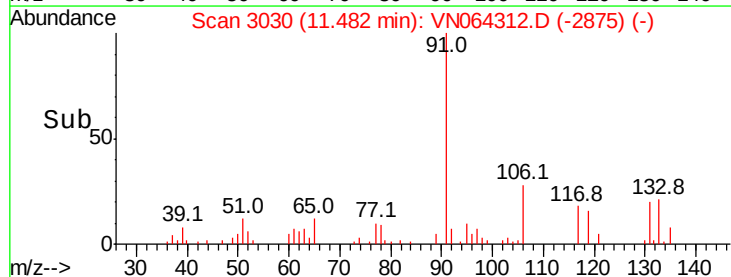
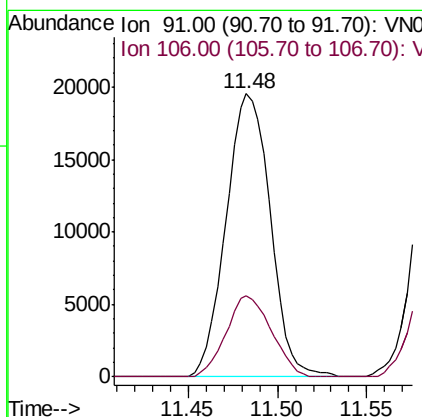
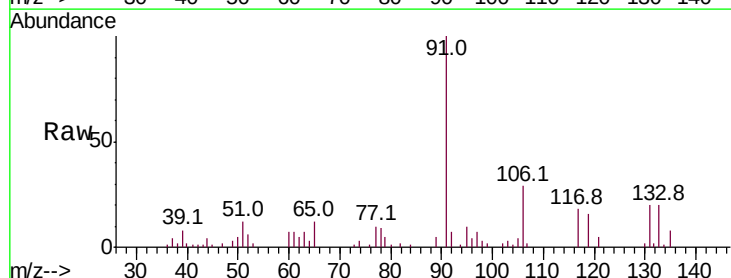
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

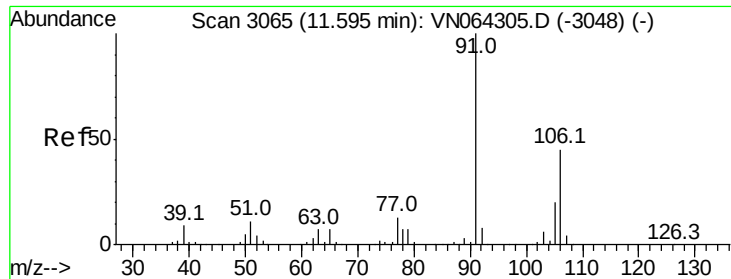
Tot Ion:131 Resp: 6888
 Ion Ratio Lower Upper
 131 100
 133 57.4 0.0 183.0
 119 70.7 0.0 121.6



#66
 Ethyl Benzene
 Concen: 2.362 ug/l
 RT: 11.48 min Scan# 3030
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 91 Resp: 33712
 Ion Ratio Lower Upper
 91 100
 106 28.7 22.8 34.2

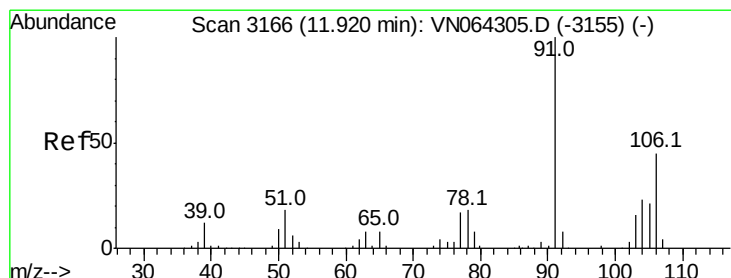
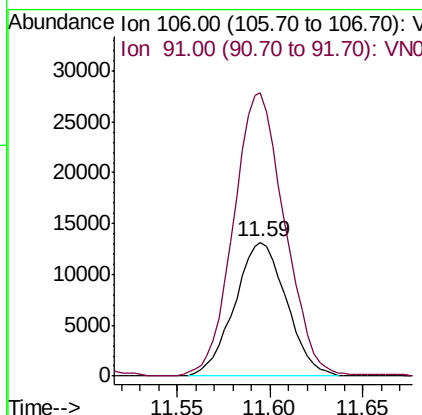
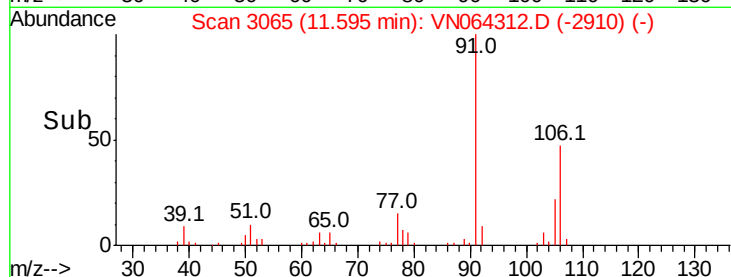
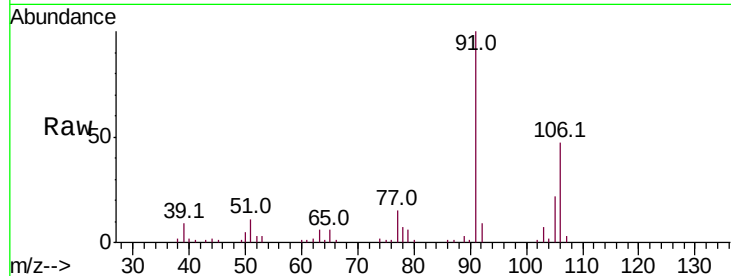




#67
m/p-Xylenes
Concen: 4.886 ug/l
RT: 11.59 min Scan# 3065
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

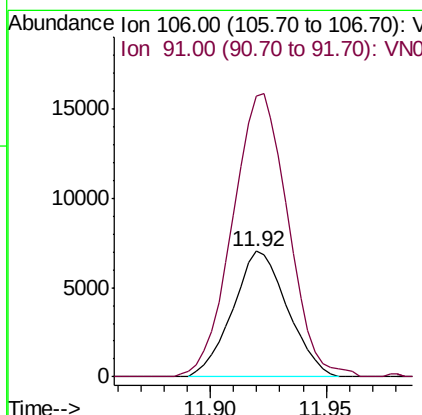
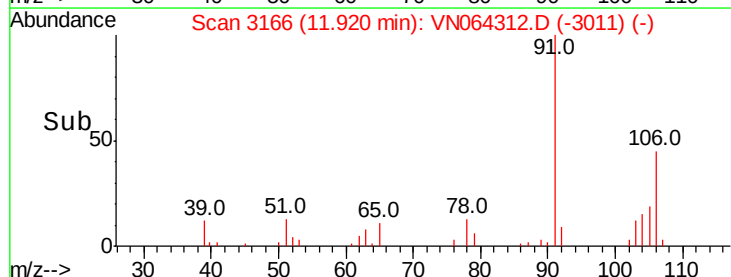
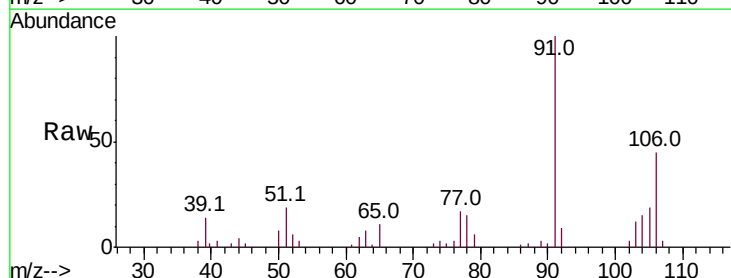
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

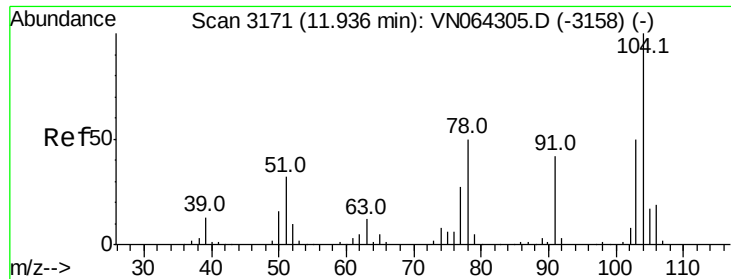
Tot Ion:106 Resp: 25607
Ion Ratio Lower Upper
106 100
91 208.8 176.2 264.2



#68
o-Xylene
Concen: 2.249 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion:106 Resp: 11591
Ion Ratio Lower Upper
106 100
91 228.0 112.9 338.6

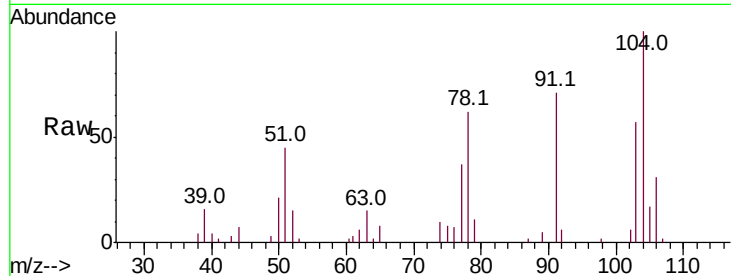




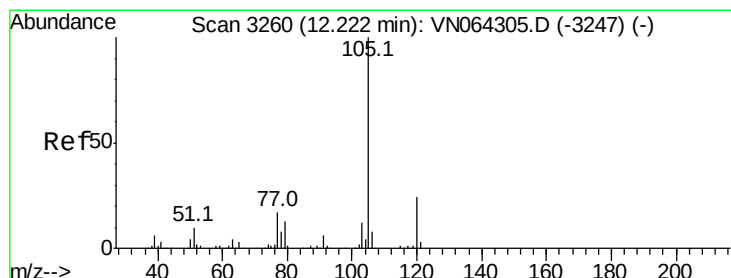
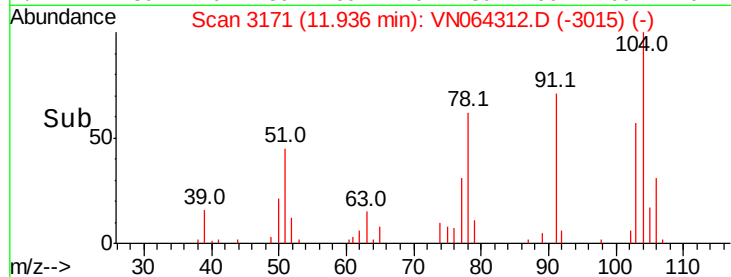
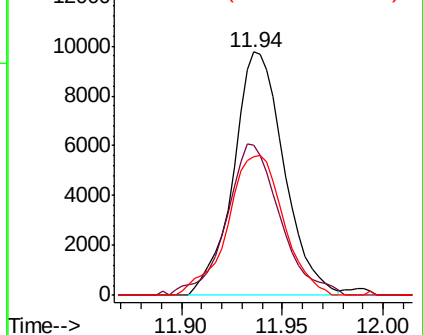
#69
Stvrene
Concen: 1.995 ug/l
RT: 11.94 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion:104 Resp: 17141
Ion Ratio Lower Upper
104 100
78 65.8 46.3 69.5
103 63.3 44.2 66.2

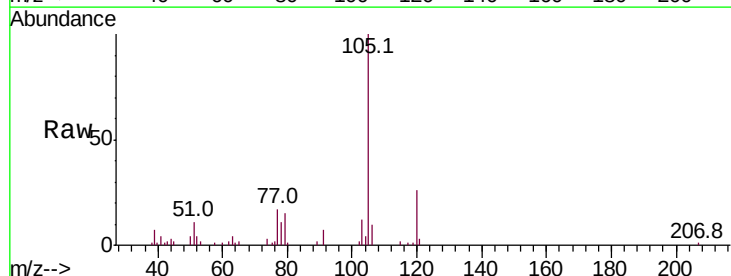


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V

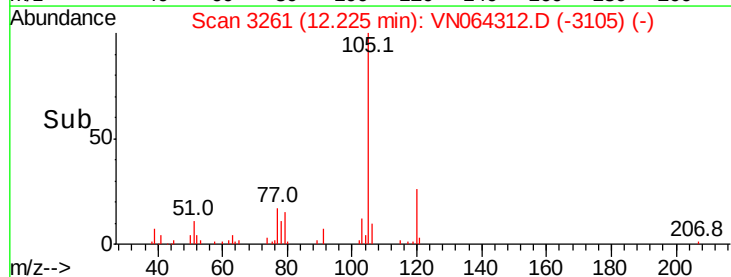
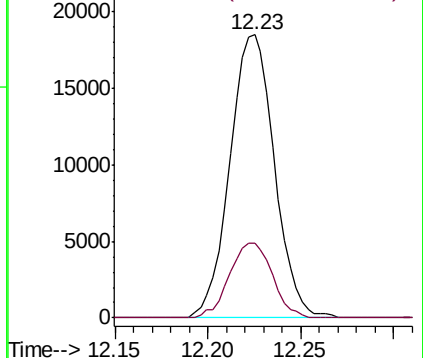


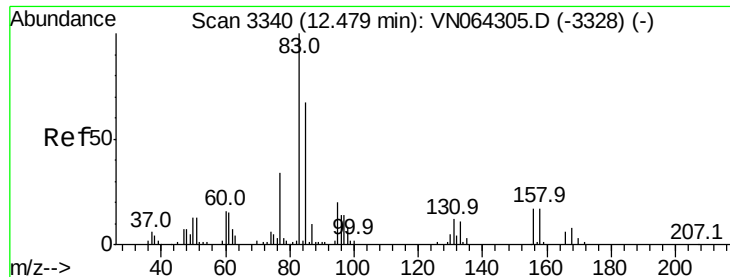
#70
Isopropylbenzene
Concen: 2.253 ug/l
RT: 12.23 min Scan# 3261
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion:105 Resp: 30787
Ion Ratio Lower Upper
105 100
120 25.6 17.4 32.2



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: 2.385 ug/l

RT: 12.48 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

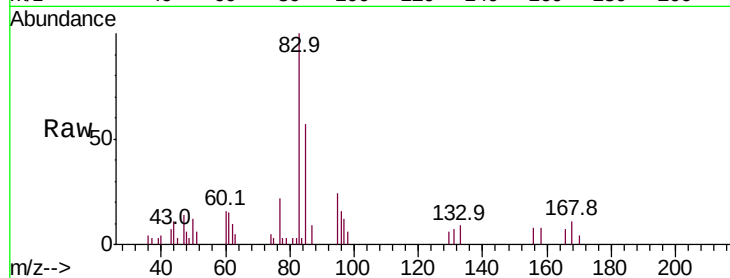
Tot Ion: 83 Resp: 9289

Ion Ratio Lower Upper

83 100

131 6.3 6.0 18.0

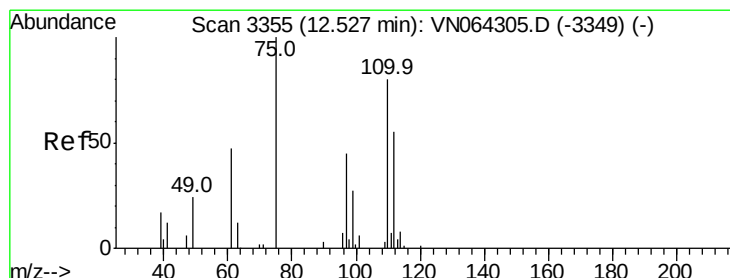
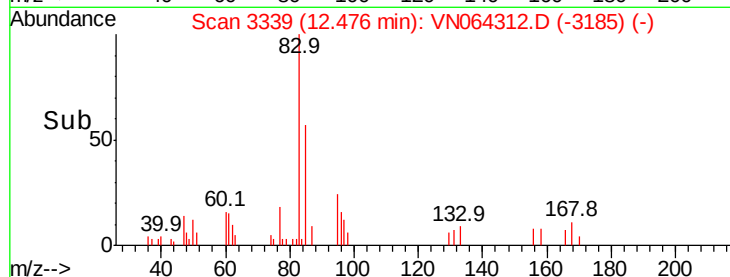
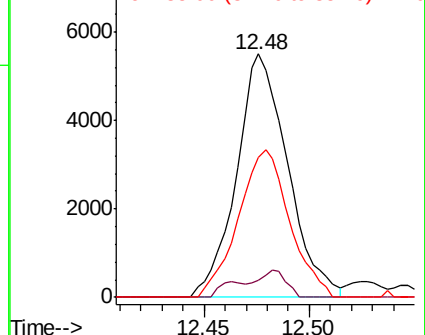
85 60.5 32.0 96.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 3.250 ug/l

RT: 12.52 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN064312.D

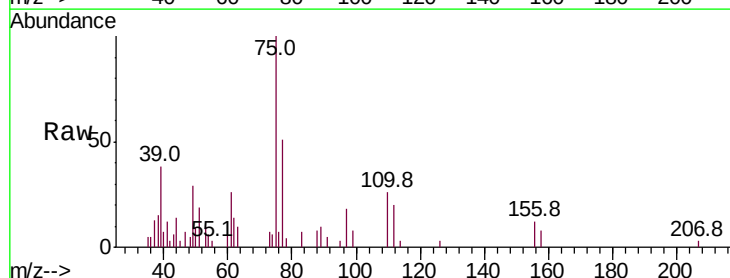
Acq: 26 Oct 2020 19:51

Tgt Ion: 75 Resp: 13477

Ion Ratio Lower Upper

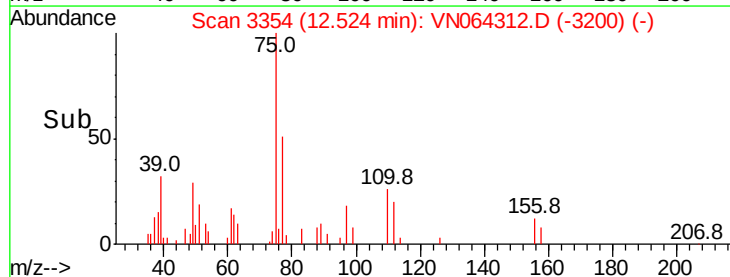
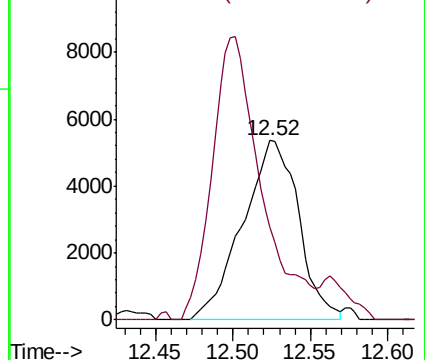
75 100

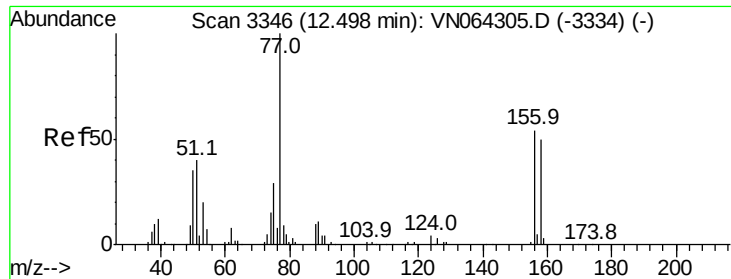
77 138.5 0.0 340.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 2.387 ug/l

RT: 12.50 min Scan# 3346

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

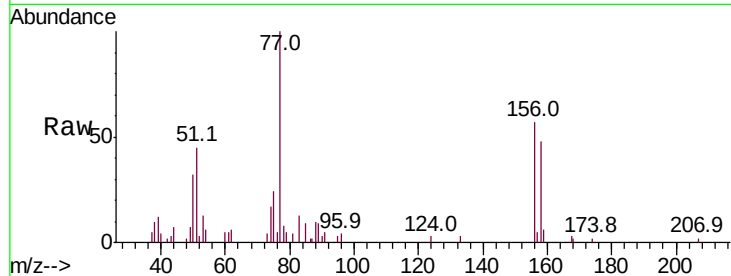
Tot Ion:156 Resp: 7999

Ion Ratio Lower Upper

156 100

77 233.4 0.0 449.2

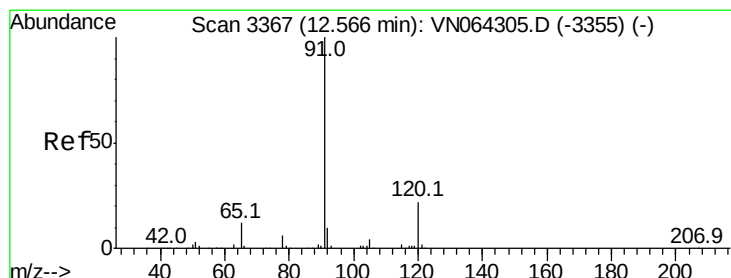
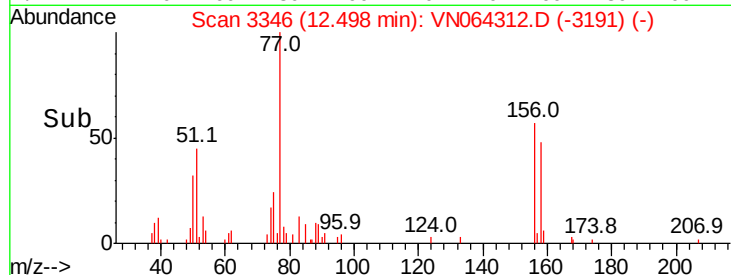
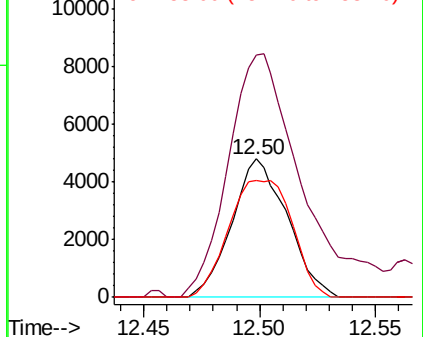
158 56.8 0.0 191.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 2.223 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. -0.00 min

Lab File: VN064312.D

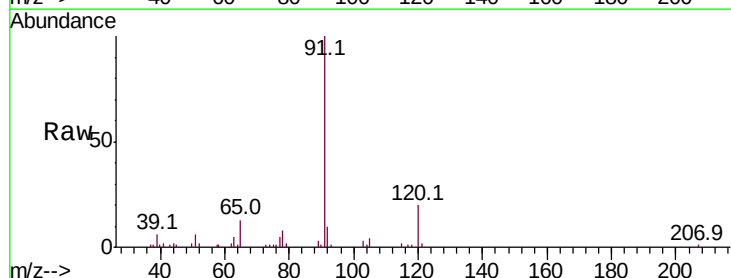
Acq: 26 Oct 2020 19:51

Tgt Ion: 91 Resp: 34628

Ion Ratio Lower Upper

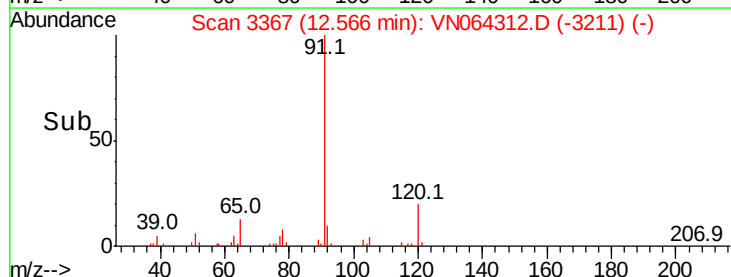
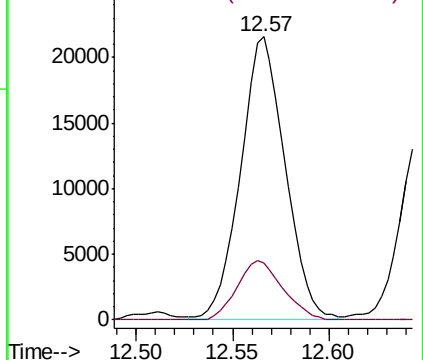
91 100

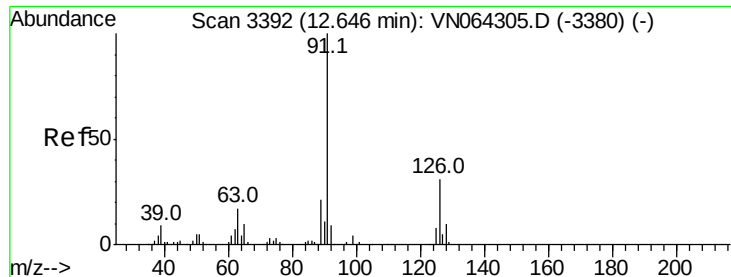
120 21.3 0.0 44.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.372 ug/l

RT: 12.65 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

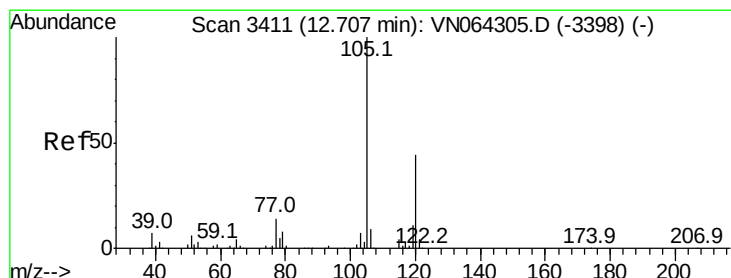
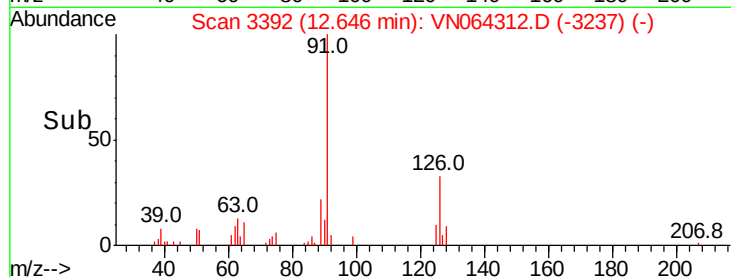
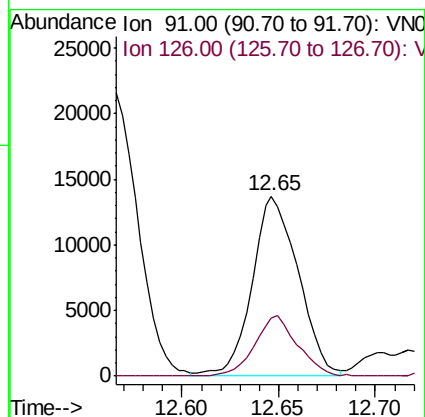
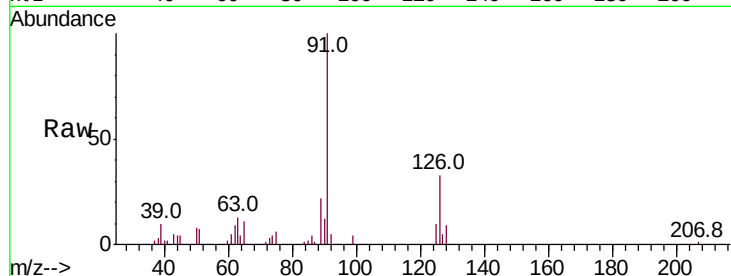
MDL-WATER-03-QT4-2020

Tot Ion: 91 Resp: 22847

Ion Ratio Lower Upper

91 100

126 31.2 0.0 62.0



#76

1,3,5-Trimethylbenzene

Concen: 2.275 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN064312.D

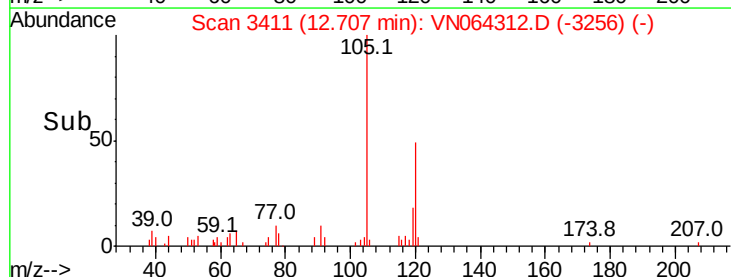
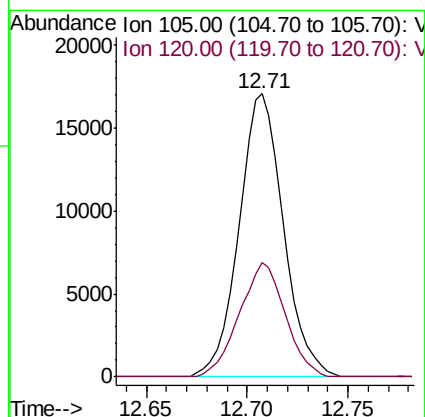
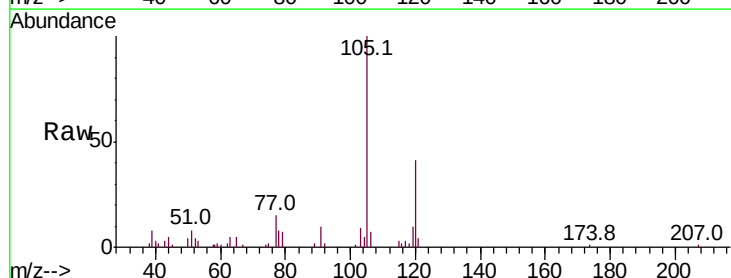
Acq: 26 Oct 2020 19:51

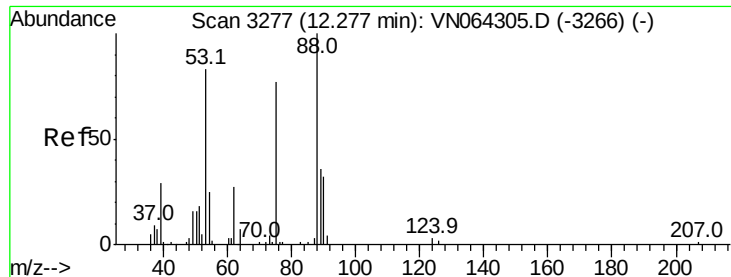
Tgt Ion:105 Resp: 26290

Ion Ratio Lower Upper

105 100

120 41.7 0.0 89.8





#77

t-1,4-Dichloro-2-butene

Concen: 2.216 ug/l

RT: 12.28 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

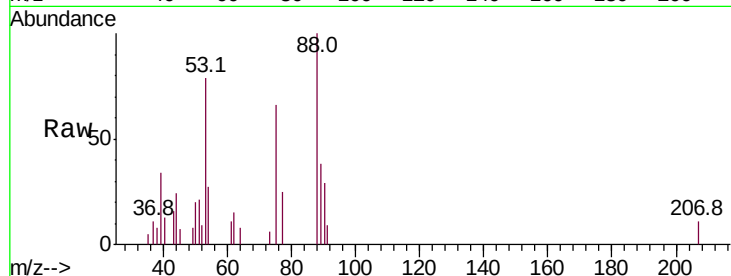
Tot Ion: 75 Resp: 3431

Ion Ratio Lower Upper

75 100

53 119.4 51.0 153.0

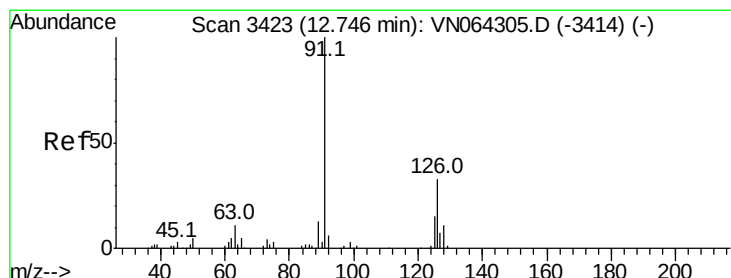
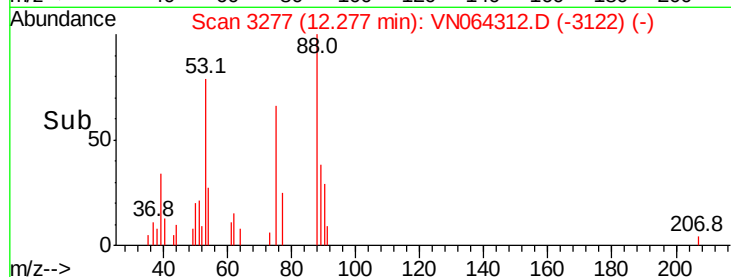
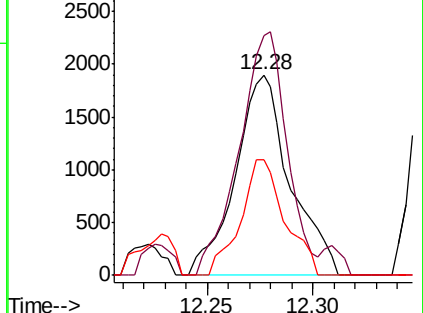
89 57.9 24.8 74.3



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: 2.185 ug/l

RT: 12.75 min Scan# 3424

Delta R.T. 0.00 min

Lab File: VN064312.D

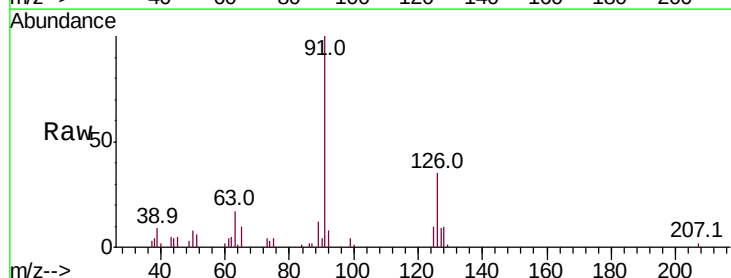
Acq: 26 Oct 2020 19:51

Tgt Ion: 91 Resp: 22026

Ion Ratio Lower Upper

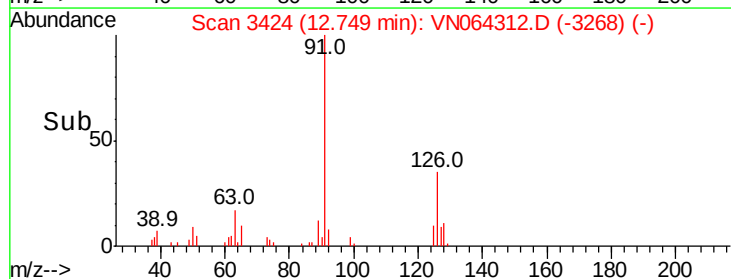
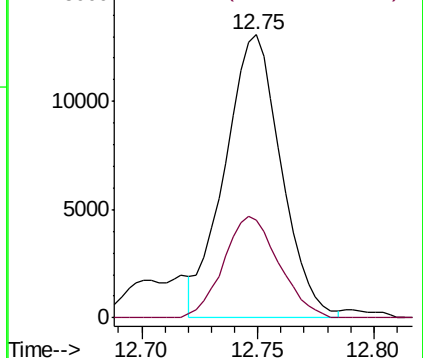
91 100

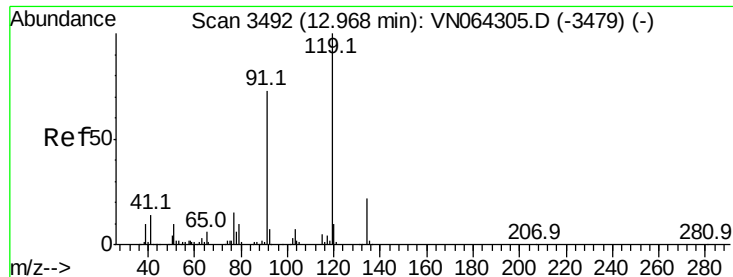
126 35.2 0.0 62.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V





#79

tert-butylbenzene

Concen: 2.152 ug/l

RT: 12.97 min Scan# 3492

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

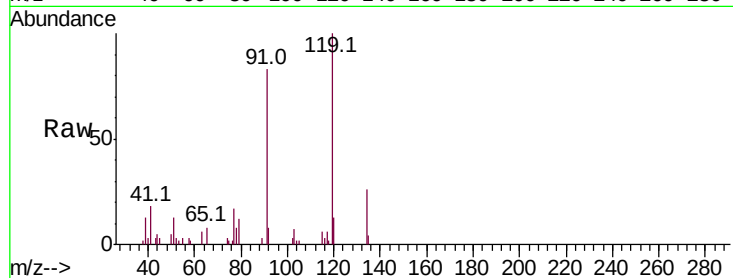
Tot Ion:119 Resp: 20499

Ion Ratio Lower Upper

119 100

91 77.4 0.0 146.8

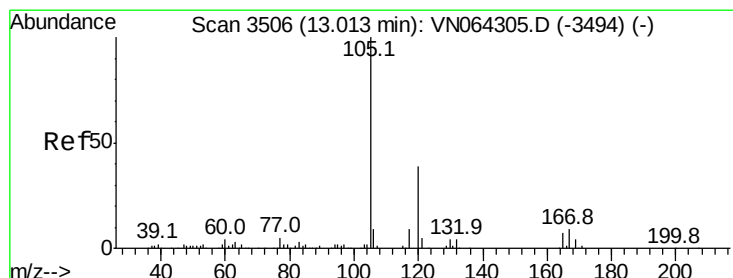
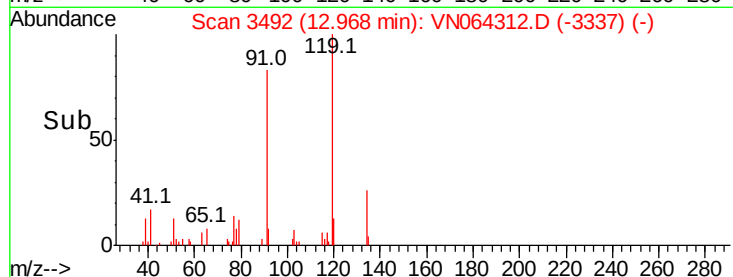
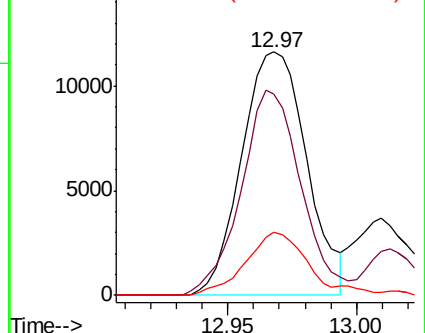
134 23.4 0.0 48.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 2.249 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN064312.D

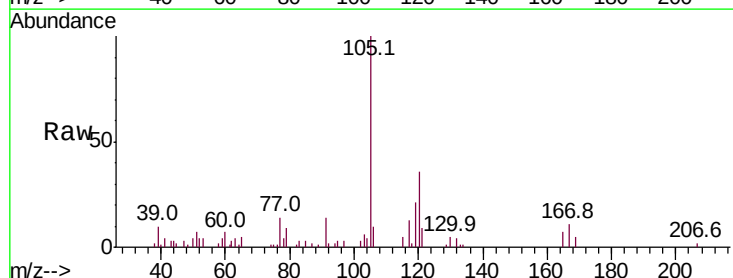
Acq: 26 Oct 2020 19:51

Tgt Ion:105 Resp: 26222

Ion Ratio Lower Upper

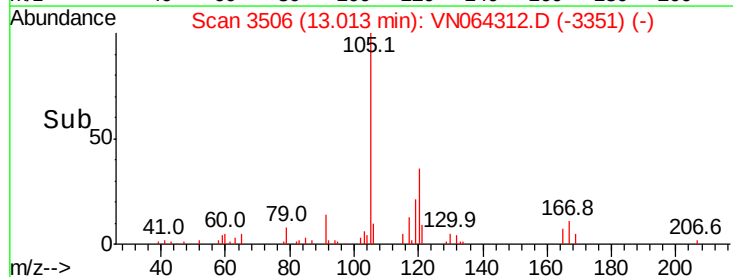
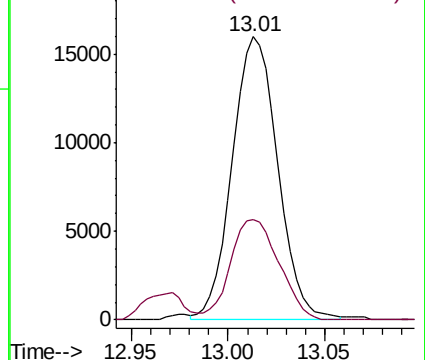
105 100

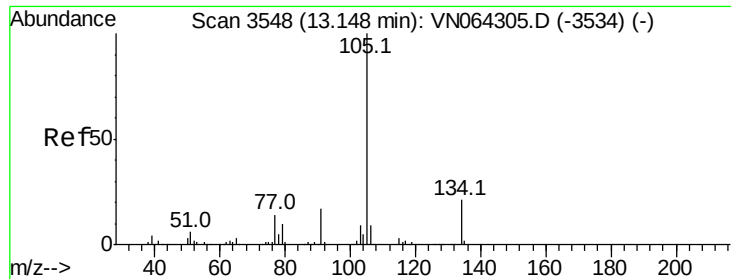
120 37.9 0.0 87.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 2.198 ug/l

RT: 13.15 min Scan# 3548

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

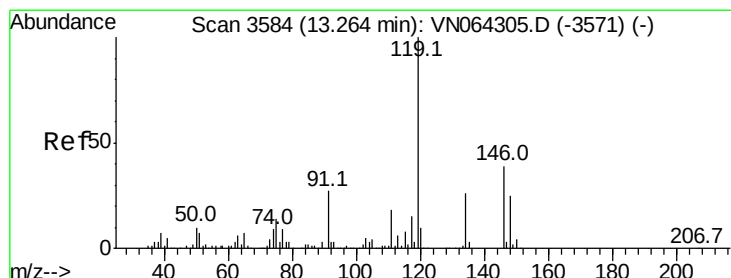
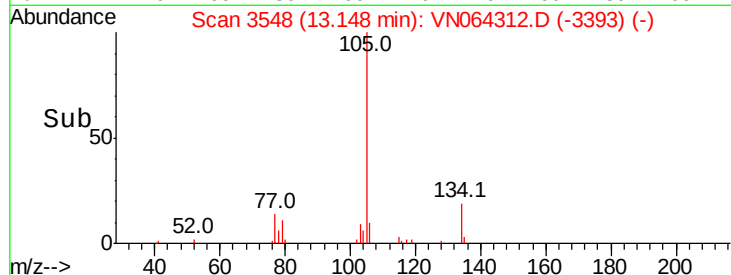
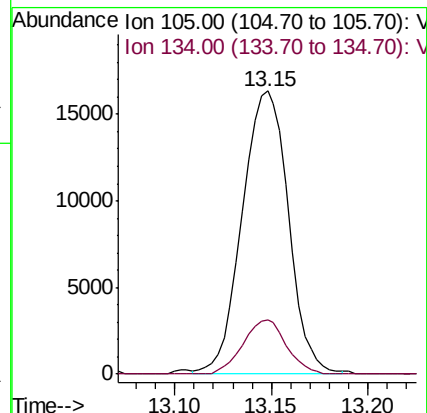
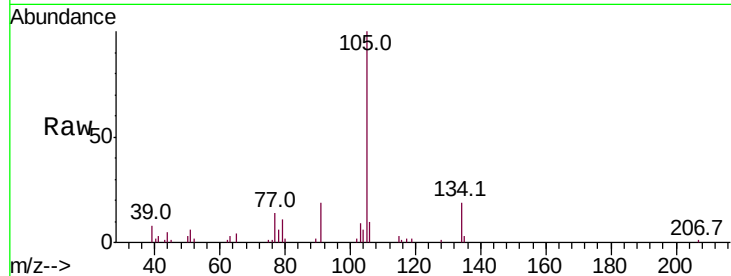
MDL-WATER-03-QT4-2020

Tot Ion:105 Resp: 27174

Ion Ratio Lower Upper

105 100

134 18.0 0.0 38.4



#82

p-Isopropyltoluene

Concen: 2.081 ug/l

RT: 13.26 min Scan# 3584

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

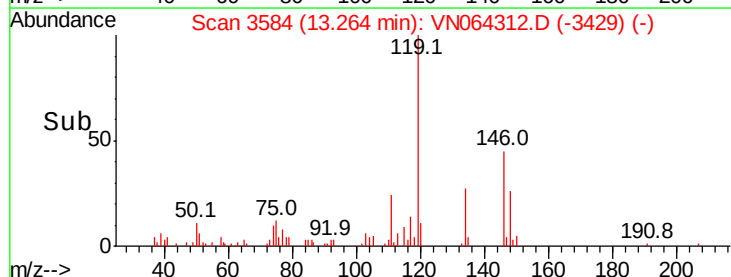
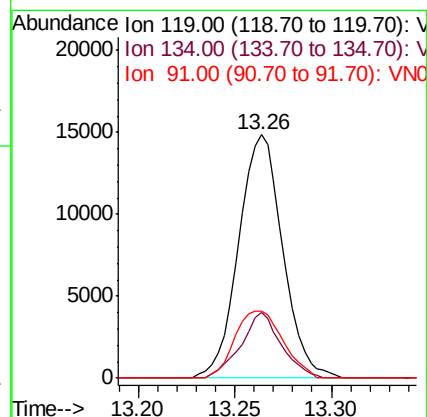
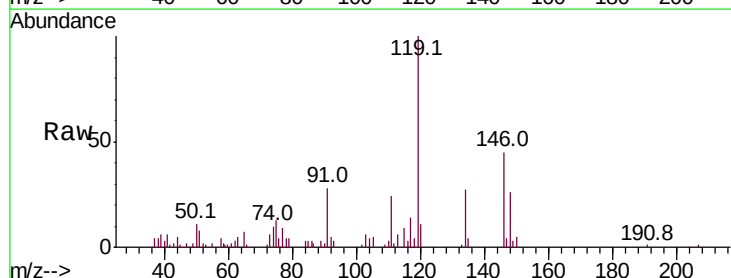
Tgt Ion:119 Resp: 23561

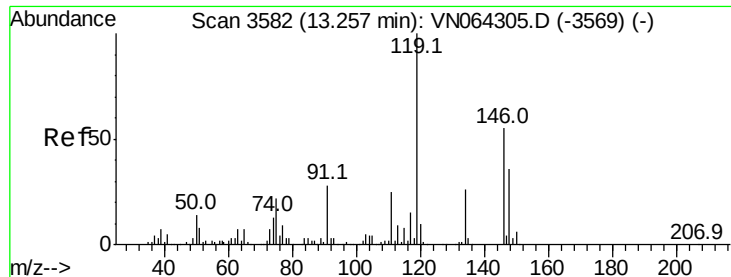
Ion Ratio Lower Upper

119 100

134 24.6 0.0 52.2

91 30.2 0.0 56.0





#83

1,3-Dichlorobenzene

Concen: 2.090 ug/l

RT: 13.26 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

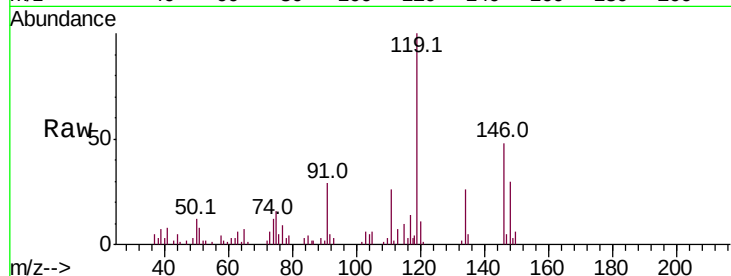
Tot Ion:146 Resp: 12162

Ion Ratio Lower Upper

146 100

111 50.7 22.5 67.5

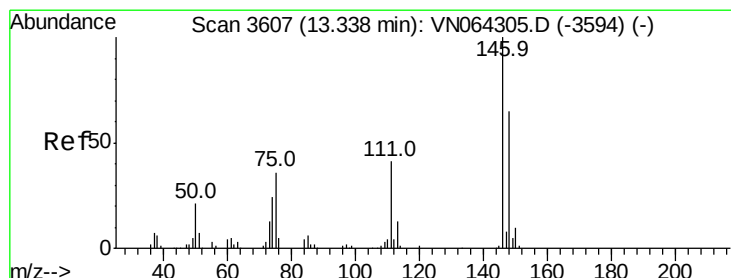
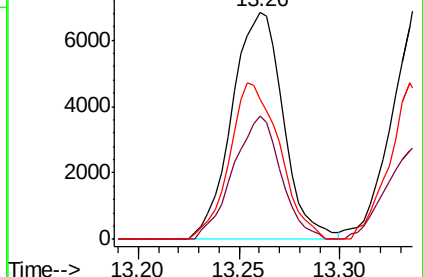
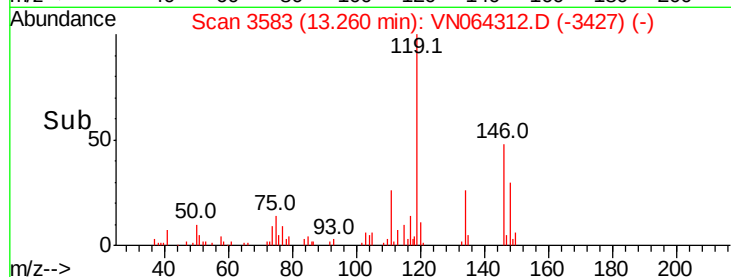
148 67.2 32.5 97.5



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



#84

1,4-Dichlorobenzene

Concen: 2.124 ug/l

RT: 13.34 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

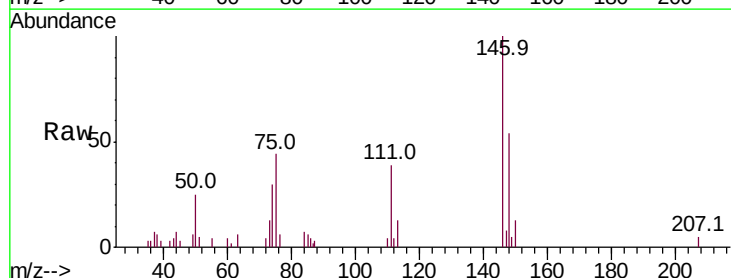
Tgt Ion:146 Resp: 12412

Ion Ratio Lower Upper

146 100

111 48.0 21.6 64.8

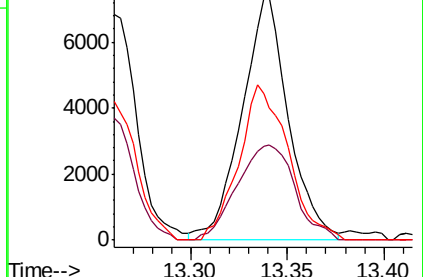
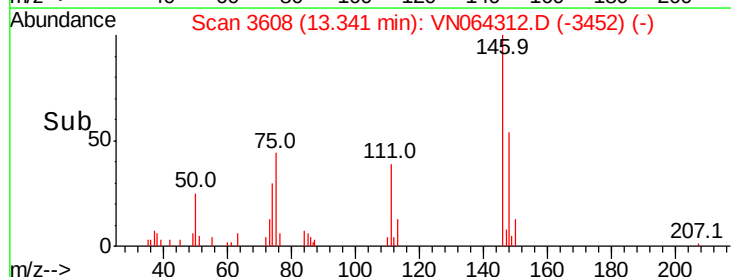
148 67.2 32.4 97.0

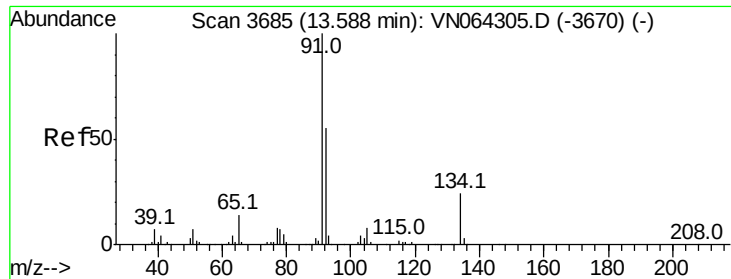


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#85

n-Butylbenzene

Concen: 2.026 ug/l

RT: 13.59 min Scan# 3686

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

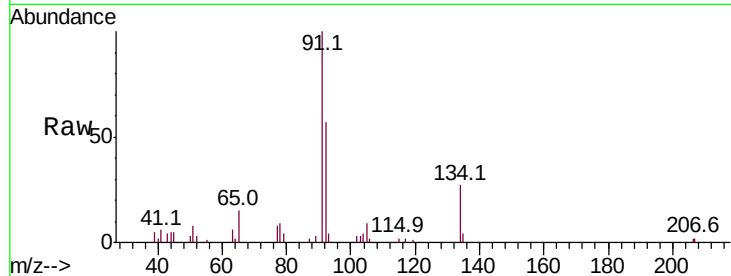
Tot Ion: 91 Resp: 20011

Ion Ratio Lower Upper

91 100

92 55.0 0.0 106.0

134 22.5 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VN064312.D (-3529) (-)

Ion 92.00 (91.70 to 92.70): VN064312.D (-3529) (-)

Ion 134.00 (133.70 to 134.70): VN064312.D (-3529) (-)

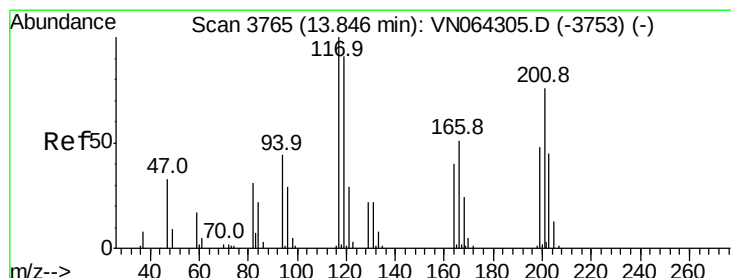
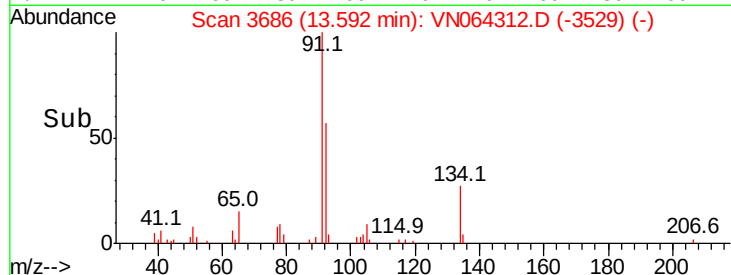
13.59

10000

5000

0

Time-->



#86

Hexachloroethane

Concen: 2.232 ug/l

RT: 13.84 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN064312.D

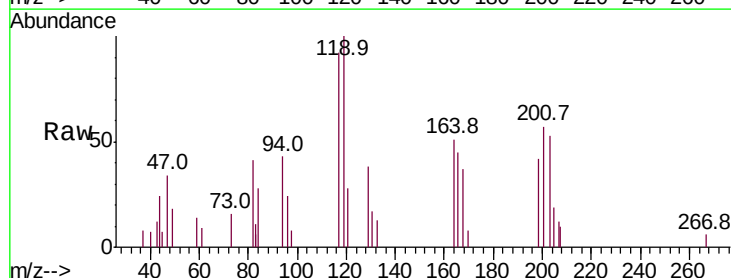
Acq: 26 Oct 2020 19:51

Tgt Ion: 117 Resp: 4714

Ion Ratio Lower Upper

117 100

201 52.7 39.6 118.7



Abundance Ion 117.00 (116.70 to 117.70): VN064312.D (-3703) (-)

Ion 201.00 (200.70 to 201.70): VN064312.D (-3703) (-)

13.84

2500

2000

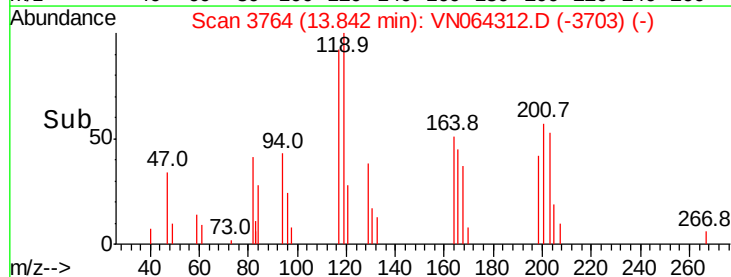
1500

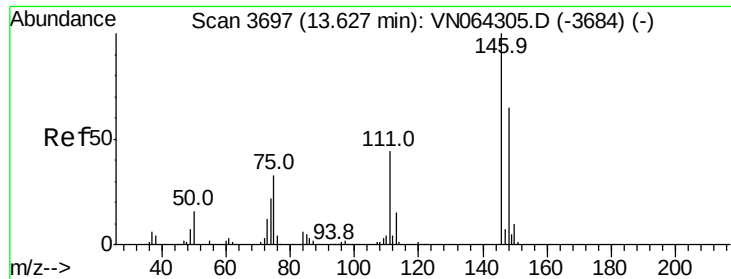
1000

500

0

Time-->

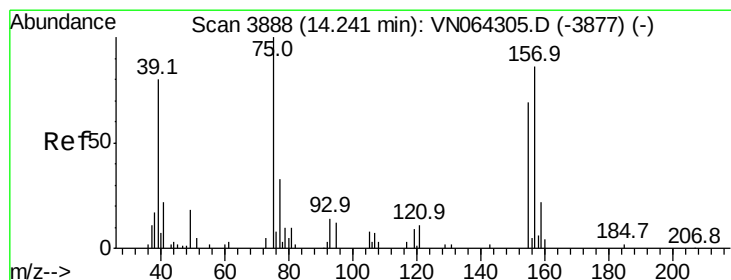
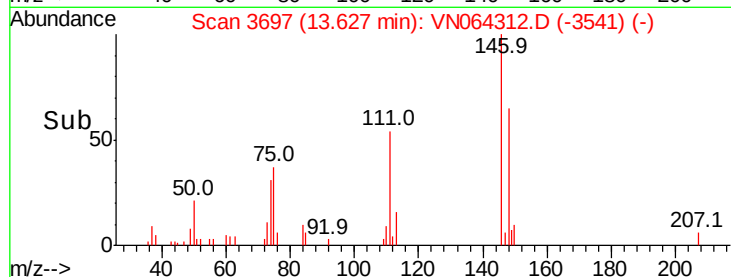
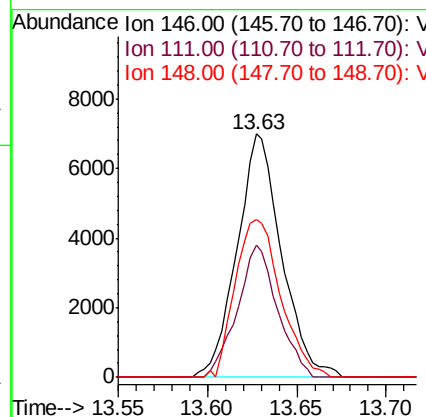
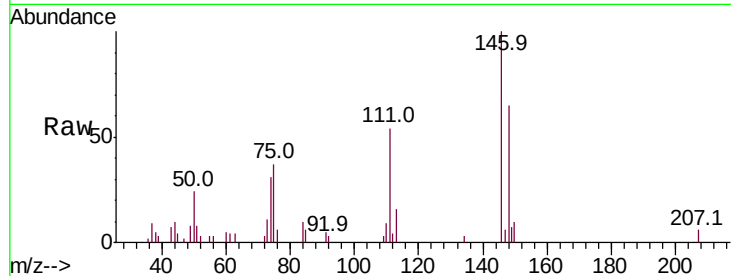




#87
 1,2-Dichlorobenzene
 Concen: 2.116 ug/l
 RT: 13.63 min Scan# 3697
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

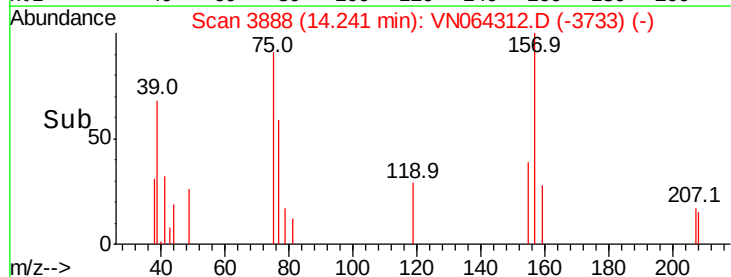
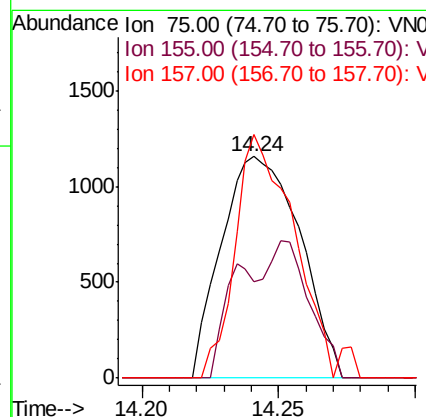
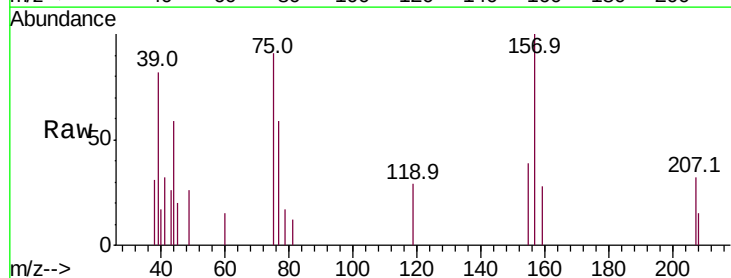
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

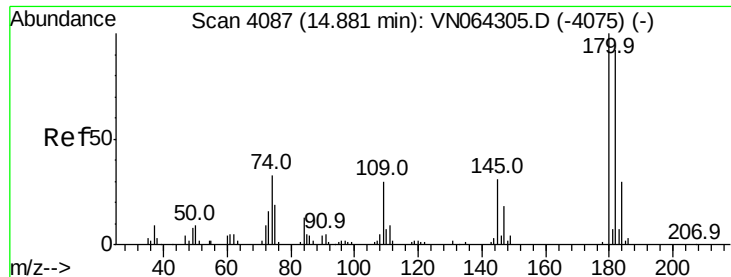
Tot Ion:146 Resp: 12127
 Ion Ratio Lower Upper
 146 100
 111 49.0 22.3 66.8
 148 66.0 31.6 95.0



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.348 ug/l
 RT: 14.24 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 75 Resp: 2311
 Ion Ratio Lower Upper
 75 100
 155 20.1 55.8 83.8#
 157 81.7 72.1 108.1

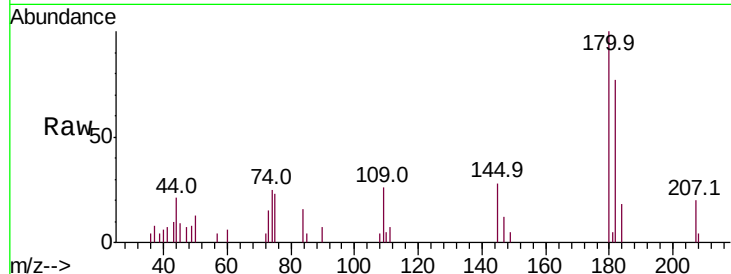




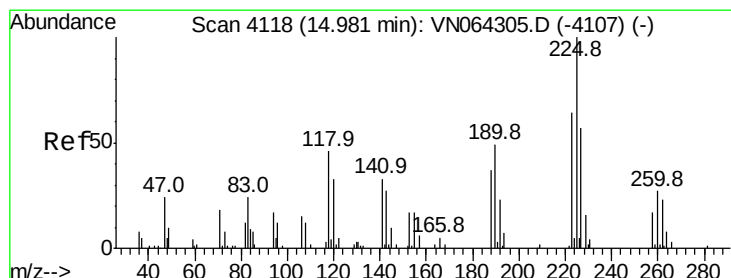
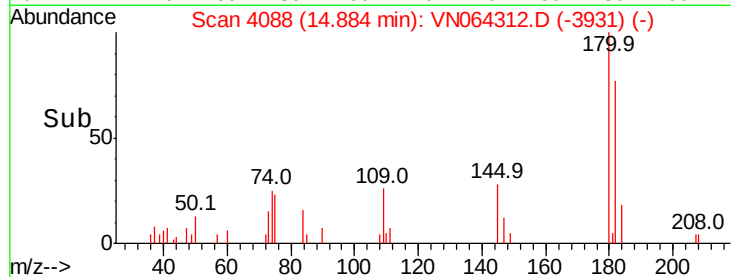
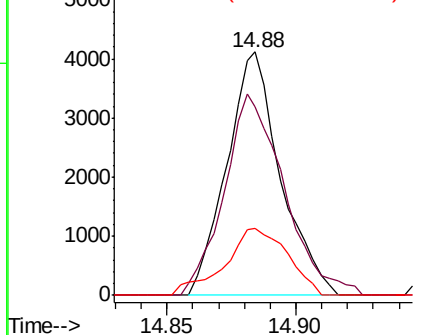
#89
 1,2,4-Trichlorobenzene
 Concen: 1.834 ug/l
 RT: 14.88 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion:180 Resp: 5956
 Ion Ratio Lower Upper
 180 100
 182 92.4 76.6 114.8
 145 32.3 25.4 38.0

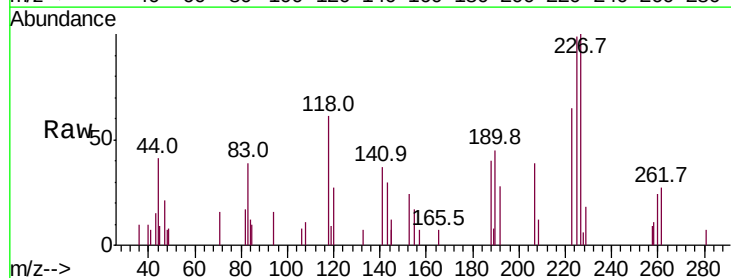


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

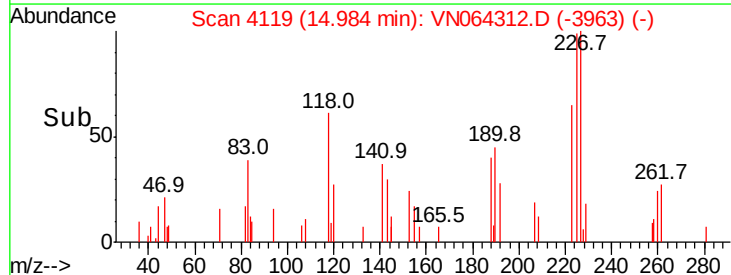
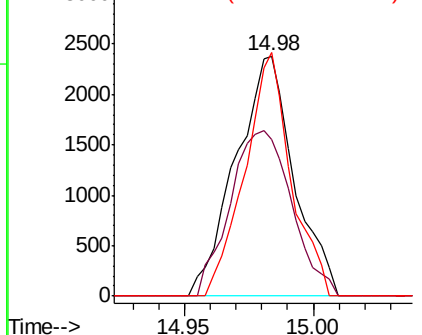


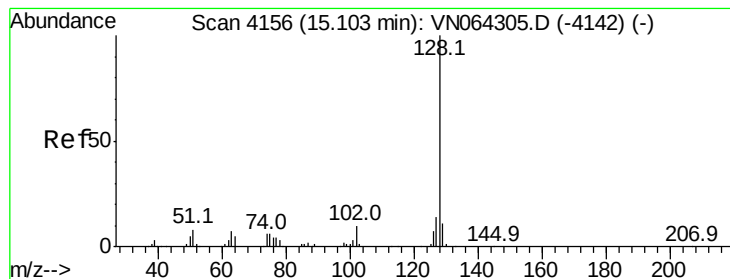
#90
 Hexachlorobutadiene
 Concen: 2.150 ug/l
 RT: 14.98 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion:225 Resp: 3758
 Ion Ratio Lower Upper
 225 100
 223 72.9 0.0 122.0
 227 80.2 0.0 118.0



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 1.646 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

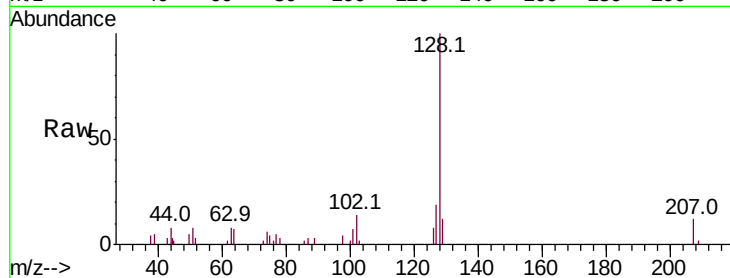
Tot Ion:128 Resp: 16135

Ion Ratio Lower Upper

128 100

127 14.1 10.8 16.2

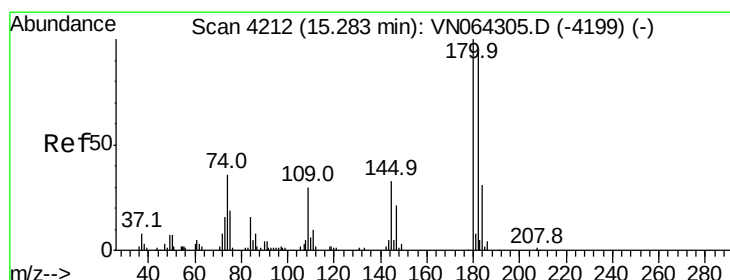
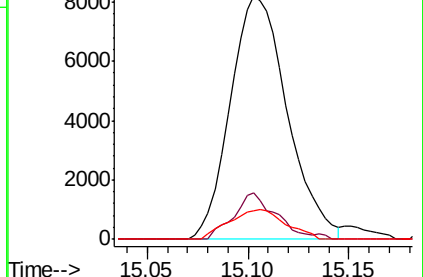
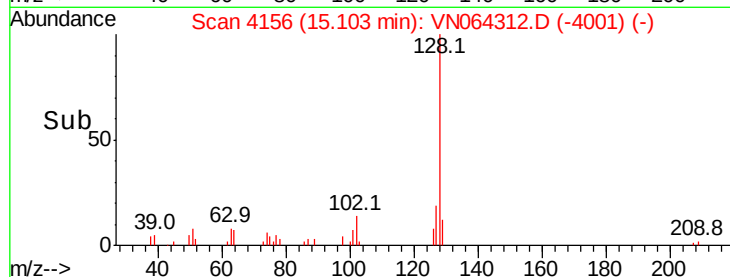
129 12.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 1.846 ug/l

RT: 15.28 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

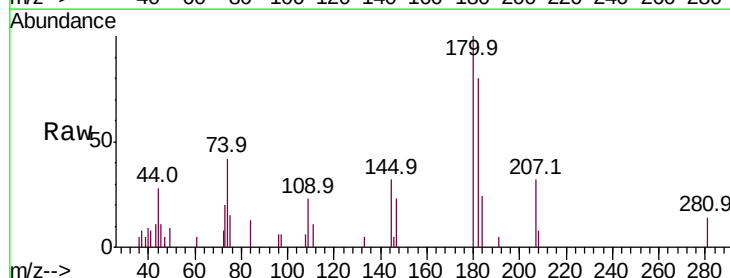
Tgt Ion:180 Resp: 5790

Ion Ratio Lower Upper

180 100

182 82.9 0.0 190.0

145 30.5 0.0 67.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

