

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102720\
 Data File : VN064328.D
 Acq On : 27 Oct 2020 16:04
 Operator : JC/MD
 Sample : L4214-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

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

Quant Time: Oct 28 05:11:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 28 05:08:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	241756	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	406078	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	360921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	152851	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	202750	52.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.38%	
35) Dibromofluoromethane	7.55	113	138718	51.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.44%	
50) Toluene-d8	10.06	98	483263	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
62) 4-Bromofluorobenzene	12.38	95	181977	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.83	85	7543	2.714 ug/l	88
3) Chloromethane	2.04	50	8220	2.736 ug/l	92
4) Vinyl Chloride	2.17	62	7615	2.621 ug/l	98
5) Bromomethane	2.53	94	3238	1.725 ug/l	97
6) Chloroethane	2.67	64	4341	2.500 ug/l #	85
7) Trichlorofluoromethane	2.98	101	11881	2.441 ug/l	97
8) Diethyl Ether	3.38	74	4112	2.670 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.72	101	5523	2.257 ug/l #	72
10) Methyl Iodide	3.90	142	3461	1.060 ug/l	88
11) Tert butyl alcohol	4.73	59	2913	5.165 ug/l #	92
12) 1,1-Dichloroethene	3.69	96	2789	1.208 ug/l	97
13) Acrolein	3.58	56	3542	27.135 ug/l #	66
14) Allyl chloride	4.28	41	10884	2.308 ug/l #	88
15) Acrylonitrile	4.93	53	6465	5.331 ug/l #	35
16) Acetone	3.78	43	15057	10.630 ug/l	91
17) Carbon Disulfide	4.01	76	17175	2.513 ug/l	100
18) Methyl Acetate	4.28	43	6064	2.078 ug/l #	62
19) Methyl tert-butyl Ether	5.00	73	21718	2.447 ug/l #	79
20) Methylene Chloride	4.51	84	6781	2.461 ug/l	97
21) trans-1,2-Dichloroethene	4.99	96	3799	1.474 ug/l #	69
22) Diisopropyl ether	5.90	45	20934	2.271 ug/l #	78
23) Vinyl Acetate	5.85	43	92210	11.824 ug/l	99
24) 1,1-Dichloroethane	5.80	63	13349	2.588 ug/l #	93
25) 2-Butanone	6.79	43	23555	12.075 ug/l	92
26) 2,2-Dichloropropane	6.78	77	7327	1.451 ug/l	82
27) cis-1,2-Dichloroethene	6.78	96	4112	1.394 ug/l	11
28) Bromochloromethane	7.15	49	5589	2.274 ug/l #	92
29) Tetrahydrofuran	7.17	42	14083	11.121 ug/l #	82
30) Chloroform	7.33	83	13511	2.454 ug/l	95
31) Cyclohexane	7.61	56	15774	3.498 ug/l #	65
32) 1,1,1-Trichloroethane	7.53	97	12660	2.395 ug/l #	86
36) 1,1-Dichloropropene	7.76	75	9035	2.205 ug/l	94
37) Ethyl Acetate	6.88	43	7479	1.807 ug/l #	90
38) Carbon Tetrachloride	7.74	117	11260	2.370 ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.05	83	9786	2.408	ug/l	89
40) Benzene	8.00	78	26160	2.293	ug/l	97
41) Methacrylonitrile	7.12	41	4457	2.169	ug/l #	43
42) 1,2-Dichloroethane	8.09	62	12798	2.597	ug/l	88
43) Isopropyl Acetate	8.13	43	15263	2.157	ug/l #	88
44) Trichloroethene	8.80	130	7692	2.574	ug/l	86
45) 1,2-Dichloropropane	9.08	63	6897	2.258	ug/l	90
46) Dibromomethane	9.18	93	5372	2.514	ug/l	97
47) Bromodichloromethane	9.37	83	10600	2.238	ug/l	98
48) Methyl methacrylate	9.16	41	9024	2.472	ug/l	92
49) 1,4-Dioxane	9.16	88	2132	39.619	ug/l #	72
51) 4-Methyl-2-Pentanone	9.95	43	45918	11.163	ug/l	98
52) Toluene	10.13	92	15497	2.153	ug/l	89
53) t-1,3-Dichloropropene	10.35	75	12012	2.399	ug/l	98
54) cis-1,3-Dichloropropene	9.80	75	11066	2.147	ug/l	94
55) 1,1,2-Trichloroethane	10.53	97	6975	2.455	ug/l	91
56) Ethyl methacrylate	10.40	69	9508	2.210	ug/l	98
57) 1,3-Dichloropropane	10.68	76	10903	2.249	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.66	63	23887	10.177	ug/l	99
59) 2-Hexanone	10.72	43	31635	10.442	ug/l	98
60) Dibromochloromethane	10.87	129	7417	2.208	ug/l	94
61) 1,2-Dibromoethane	10.98	107	6723	2.322	ug/l	100
64) Tetrachloroethene	10.60	164	6856	2.311	ug/l	93
65) Chlorobenzene	11.40	112	18457	2.522	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.48	131	6918	2.339	ug/l	87
67) Ethyl Benzene	11.49	91	31229	2.296	ug/l	98
68) m/p-Xylenes	11.60	106	21818	4.328	ug/l	94
69) o-Xylene	11.92	106	10820	2.228	ug/l	98
70) Styrene	11.94	104	16720	2.100	ug/l	98
71) Bromoform	12.10	173	4667	2.011	ug/l #	89
73) Isopropylbenzene	12.22	105	29667	2.591	ug/l	97
74) N-amyl acetate	12.05	43	12031	2.388	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.48	83	8863	2.663	ug/l	99
76) 1,2,3-Trichloropropane	12.52	75	12687	3.466	ug/l #	100
77) Bromobenzene	12.50	156	7527	2.685	ug/l	99
78) n-propylbenzene	12.57	91	31142	2.403	ug/l	100
79) 2-Chlorotoluene	12.65	91	22376	2.701	ug/l	98
80) 1,3,5-Trimethylbenzene	12.71	105	25026	2.584	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.27	75	3241	2.551	ug/l #	81
82) 4-Chlorotoluene	12.75	91	21471	2.544	ug/l	98
83) tert-Butylbenzene	12.97	119	19622	2.469	ug/l	98
84) 1,2,4-Trimethylbenzene	13.01	105	21144	2.184	ug/l	97
85) sec-Butylbenzene	13.14	105	23484	2.283	ug/l	100
86) p-Isopropyltoluene	13.26	119	21750	2.347	ug/l	96
87) 1,3-Dichlorobenzene	13.26	146	12057	2.457	ug/l	96
88) 1,4-Dichlorobenzene	13.33	146	12101	2.421	ug/l	83
89) n-Butylbenzene	13.59	91	17975	2.202	ug/l	98
90) Hexachloroethane	13.85	117	3854	2.214	ug/l	92
91) 1,2-Dichlorobenzene	13.63	146	10819	2.217	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.24	75	1990	2.410	ug/l	88

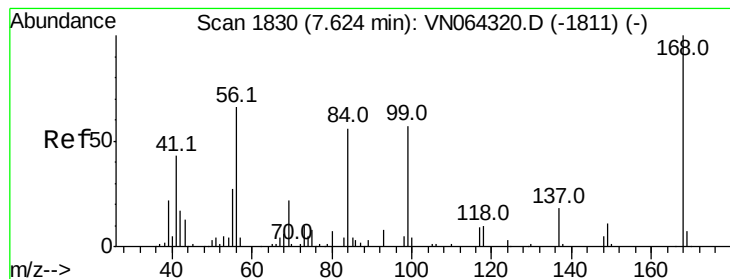
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102720\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.89	180	4669	1.915	ug/l	98
94) Hexachlorobutadiene	14.98	225	3684	2.460	ug/l	92
95) Naphthalene	15.11	128	13962	1.857	ug/l	97
96) 1,2,3-Trichlorobenzene	15.29	180	4539	1.922	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

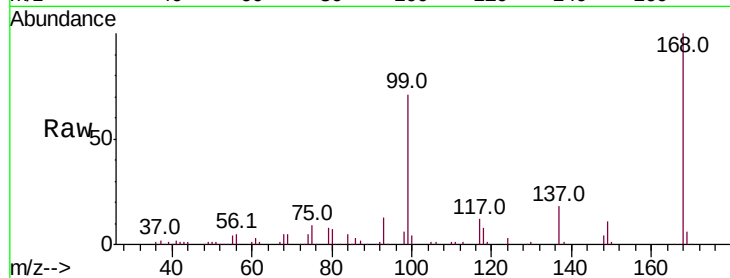
MDL-WATER-03-QT4-2020

Tot Ion:168 Resp: 241756

Ion Ratio Lower Upper

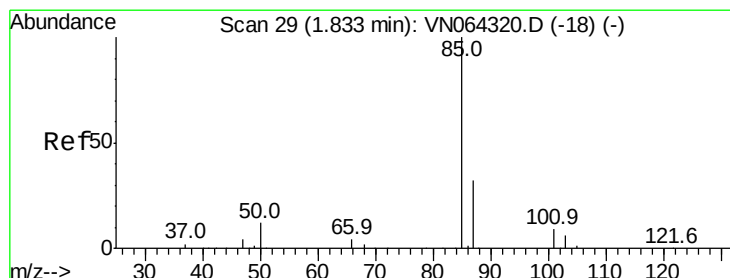
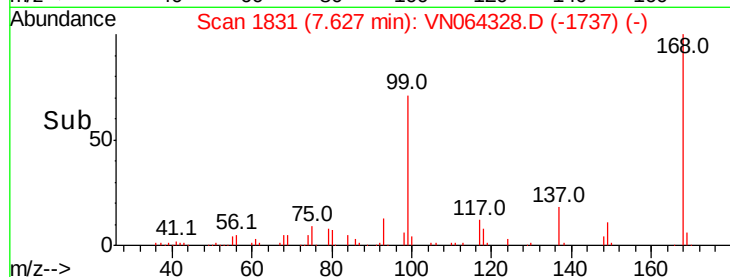
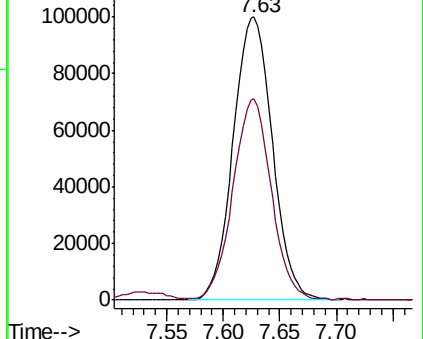
168 100

99 70.7 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 2.714 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN064328.D

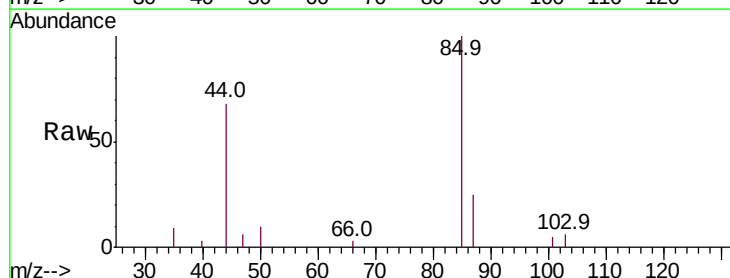
Acq: 27 Oct 2020 16:04

Tgt Ion: 85 Resp: 7543

Ion Ratio Lower Upper

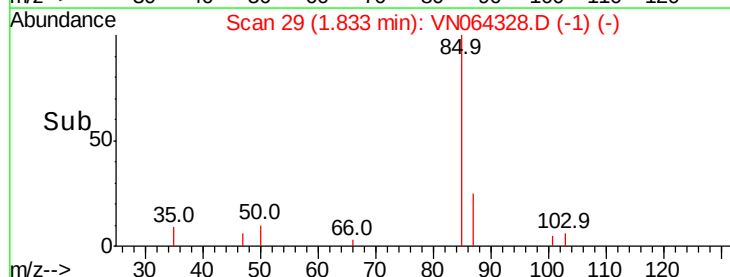
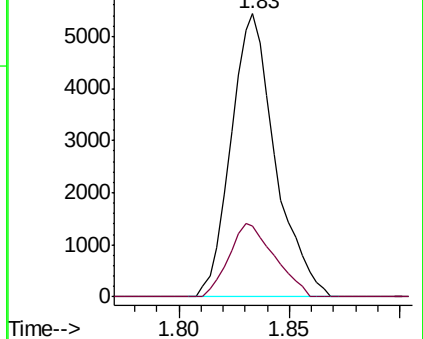
85 100

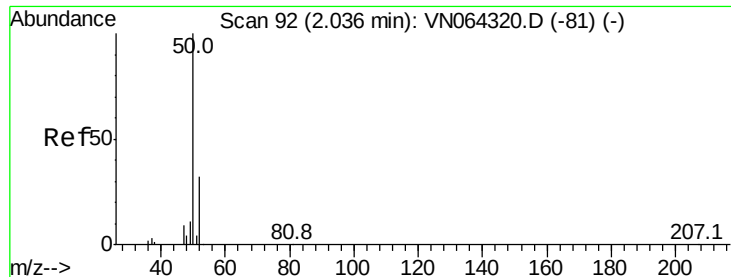
87 25.3 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 2.736 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

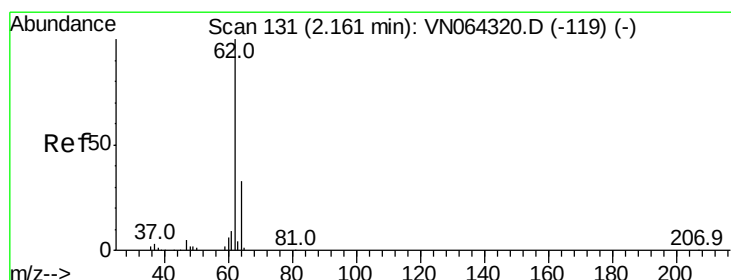
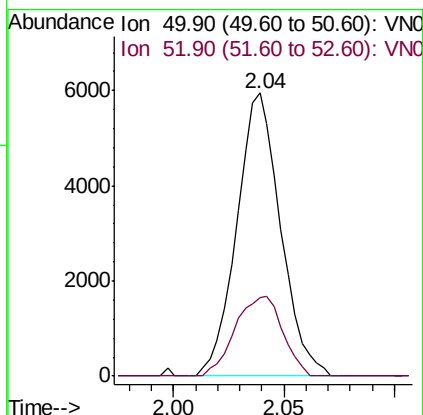
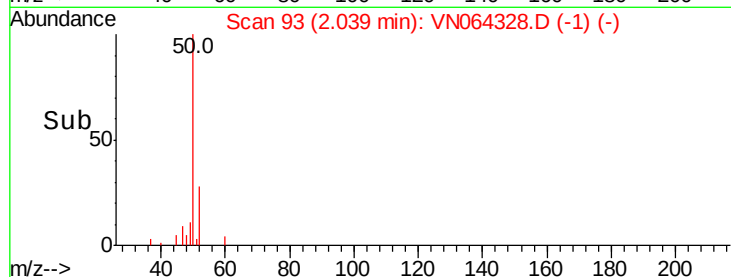
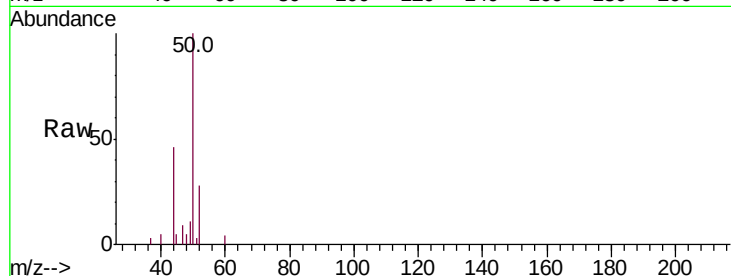
MDL-WATER-03-QT4-2020

Tot Ion: 50 Resp: 8220

Ion Ratio Lower Upper

50 100

52 27.6 25.6 38.4



#4

Vinyl Chloride

Concen: 2.621 ug/l

RT: 2.17 min Scan# 133

Delta R.T. 0.01 min

Lab File: VN064328.D

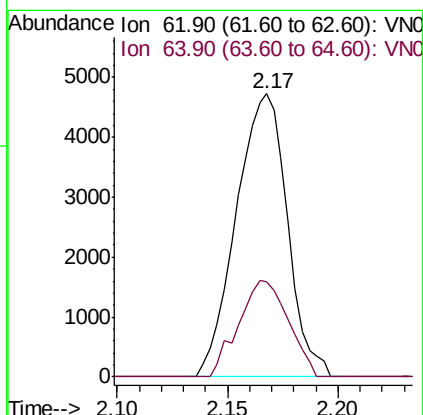
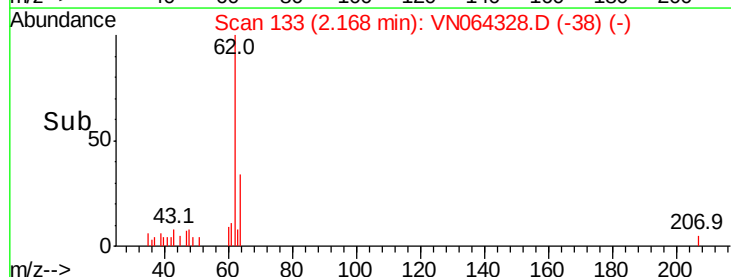
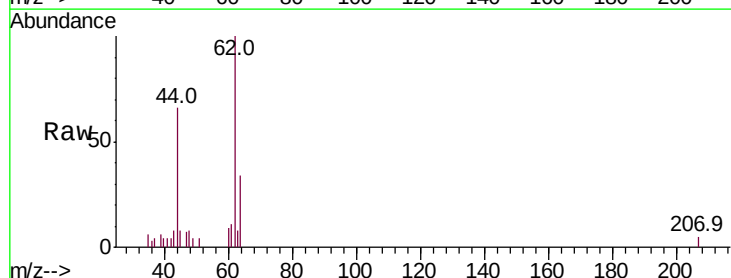
Acq: 27 Oct 2020 16:04

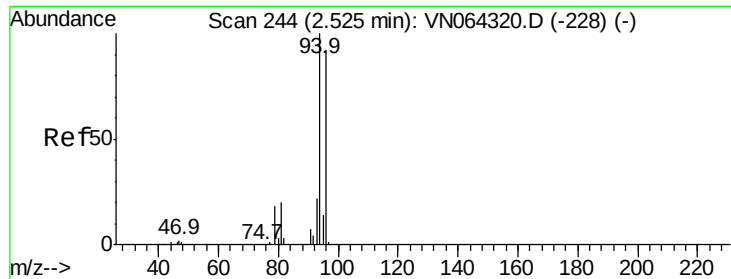
Tgt Ion: 62 Resp: 7615

Ion Ratio Lower Upper

62 100

64 33.7 26.2 39.4





#5

Bromomethane

Concen: 1.725 ug/l

RT: 2.53 min Scan# 245

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

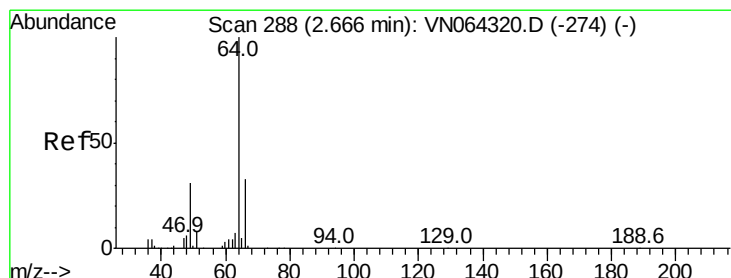
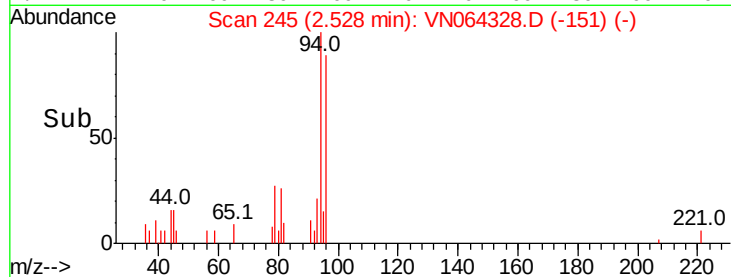
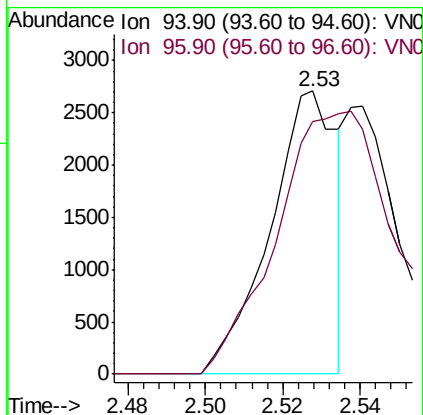
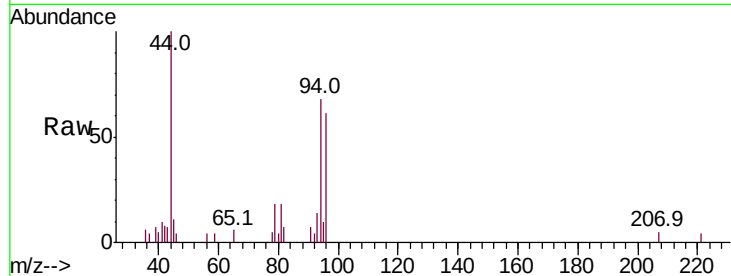
MDL-WATER-03-QT4-2020

Tot Ion: 94 Resp: 3238

Ion Ratio Lower Upper

94 100

96 89.3 73.6 110.4



#6

Chloroethane

Concen: 2.500 ug/l

RT: 2.67 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN064328.D

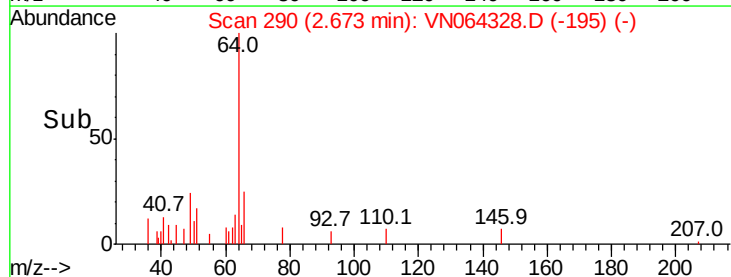
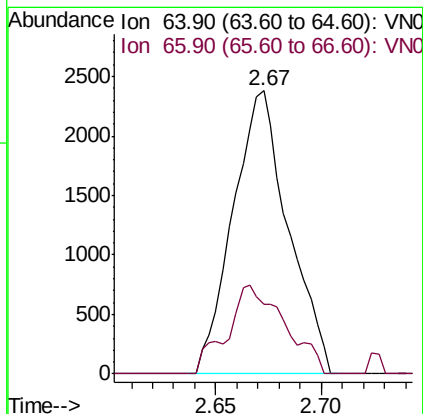
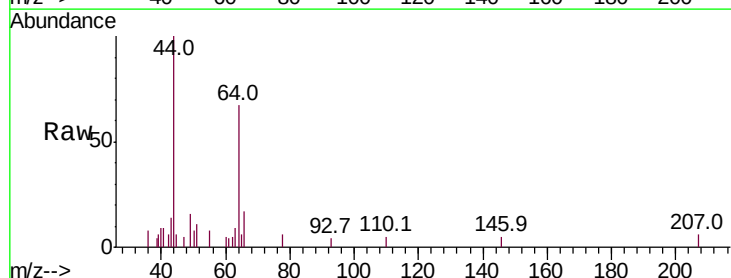
Acq: 27 Oct 2020 16:04

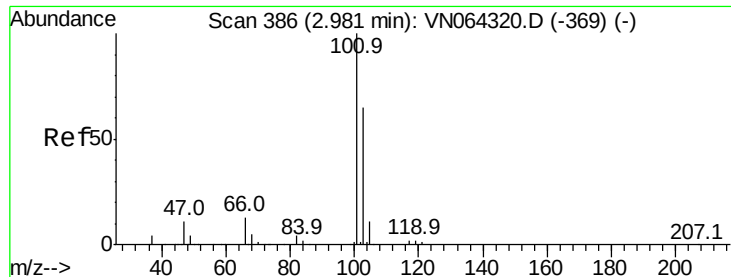
Tgt Ion: 64 Resp: 4341

Ion Ratio Lower Upper

64 100

66 24.8 26.5 39.7#



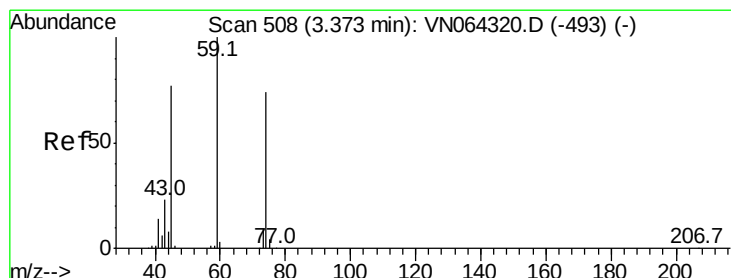
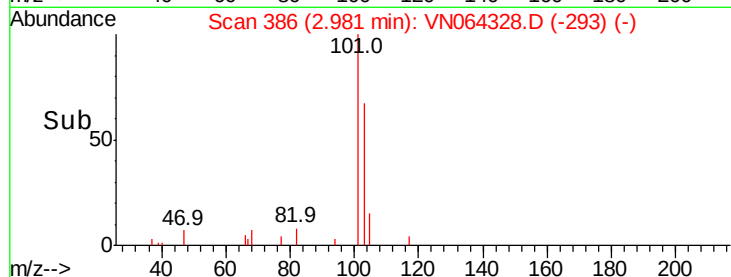
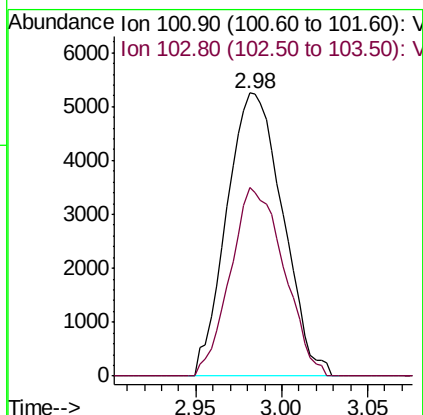
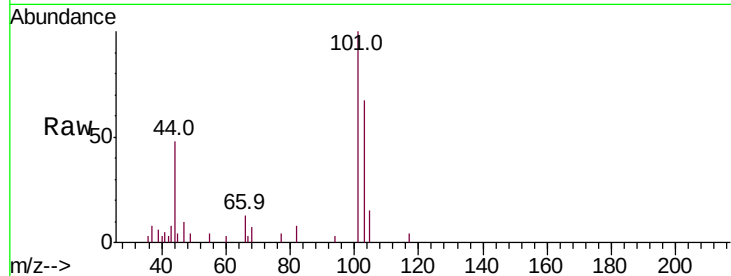


#7

Trichlorofluoromethane
 Concen: 2.441 ug/l
 RT: 2.98 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

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

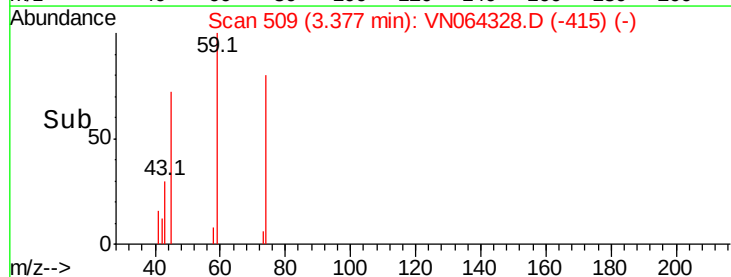
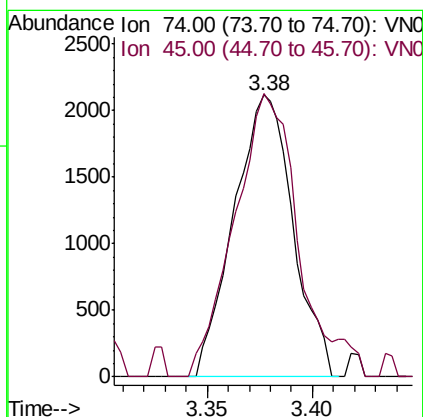
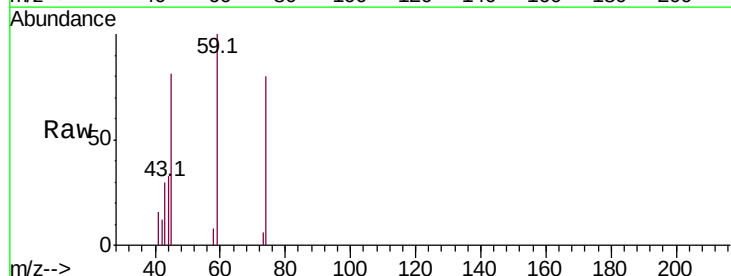
Tot Ion:101 Resp: 11881
 Ion Ratio Lower Upper
 101 100
 103 66.6 51.7 77.5

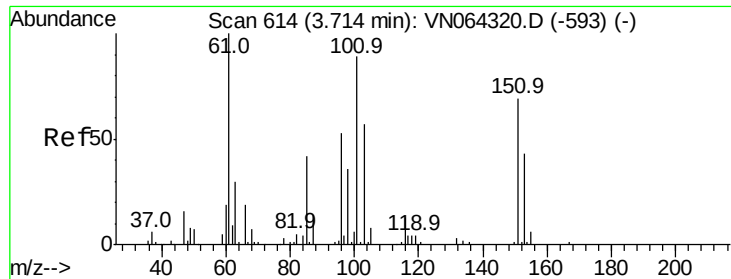


#8

Diethyl Ether
 Concen: 2.670 ug/l
 RT: 3.38 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

Tgt Ion: 74 Resp: 4112
 Ion Ratio Lower Upper
 74 100
 45 109.1 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.257 ug/l

RT: 3.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

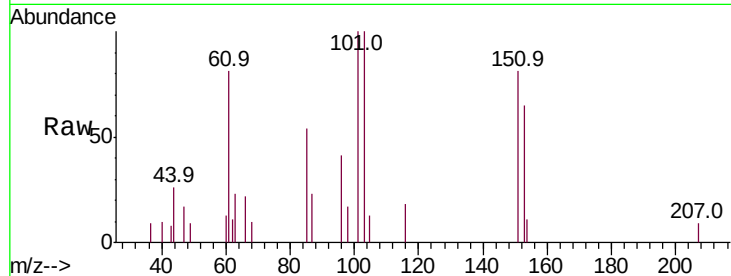
Tot Ion:101 Resp: 5523

Ion Ratio Lower Upper

101 100

85 43.5 38.4 57.6

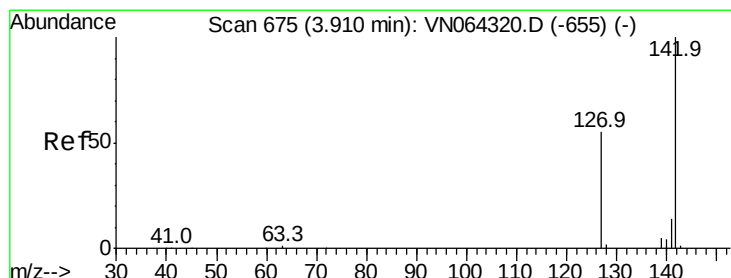
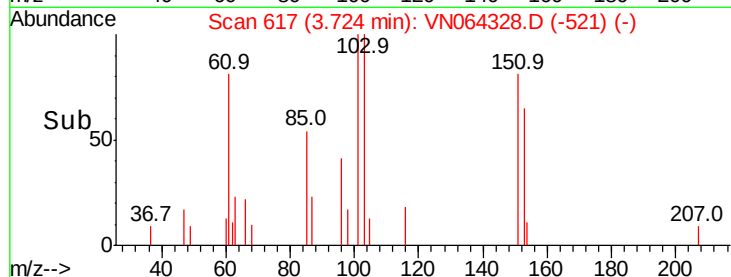
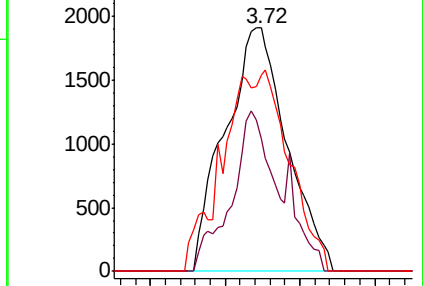
151 42.0 62.0 93.0#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 1.060 ug/l

RT: 3.90 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

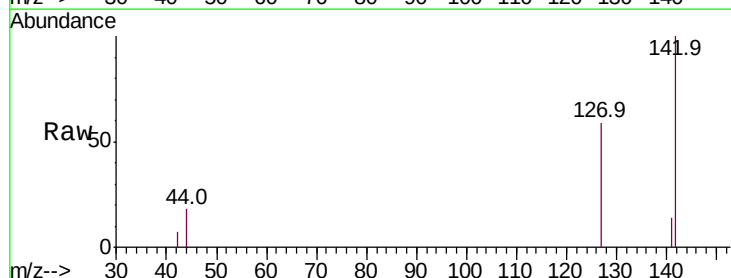
Tgt Ion:142 Resp: 3461

Ion Ratio Lower Upper

142 100

127 64.8 43.3 64.9

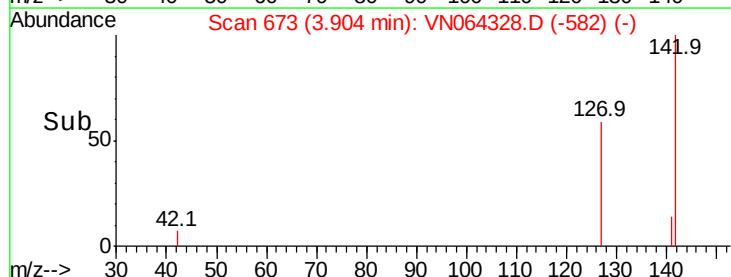
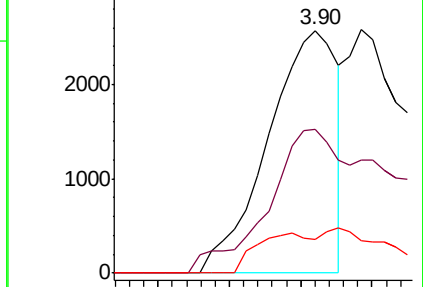
141 13.7 11.5 17.3

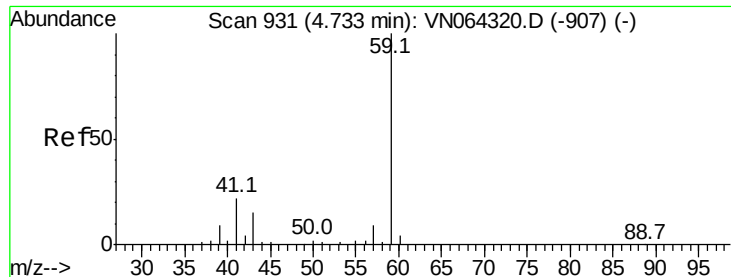


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 5.165 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

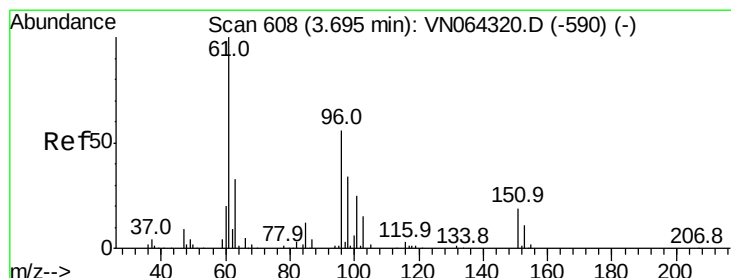
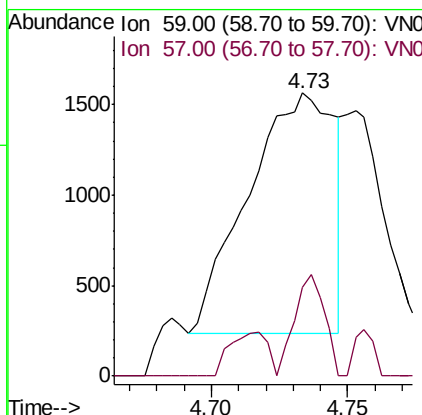
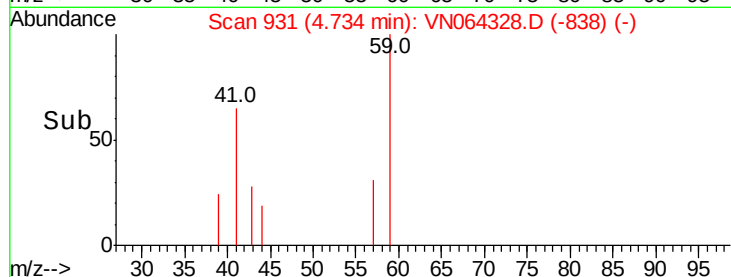
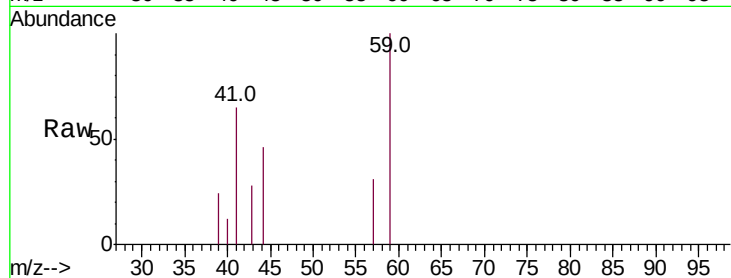
MDL-WATER-03-QT4-2020

Tot Ion: 59 Resp: 2913

Ion Ratio Lower Upper

59 100

57 14.7 9.4 14.0#



#12

1,1-Dichloroethene

Concen: 1.208 ug/l

RT: 3.69 min Scan# 607

Delta R.T. -0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

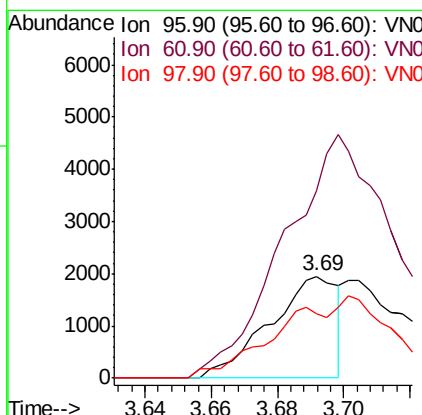
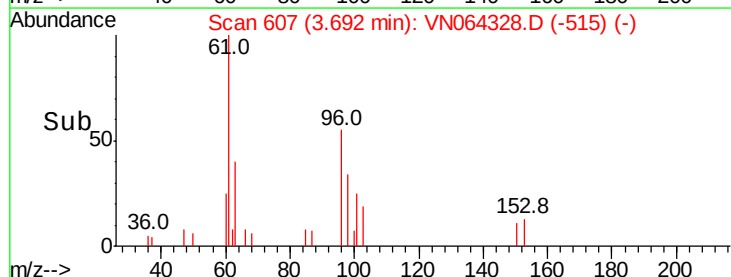
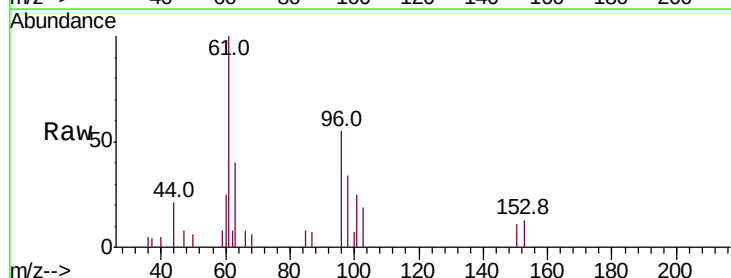
Tgt Ion: 96 Resp: 2789

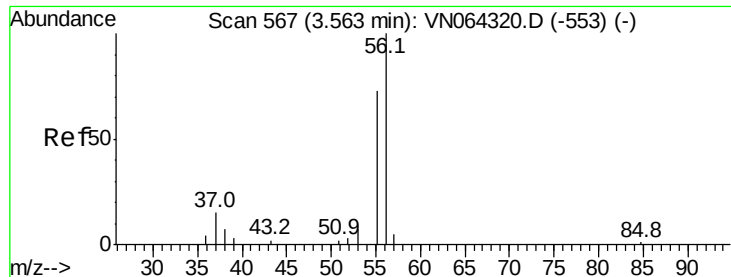
Ion Ratio Lower Upper

96 100

61 183.5 143.6 215.4

98 63.1 48.6 73.0





#13

Acrolein

Concen: 27.135 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.02 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

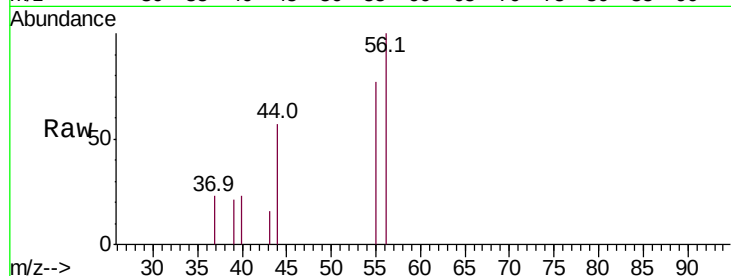
MDL-WATER-03-QT4-2020

Tot Ion: 56 Resp: 3542

Ion Ratio Lower Upper

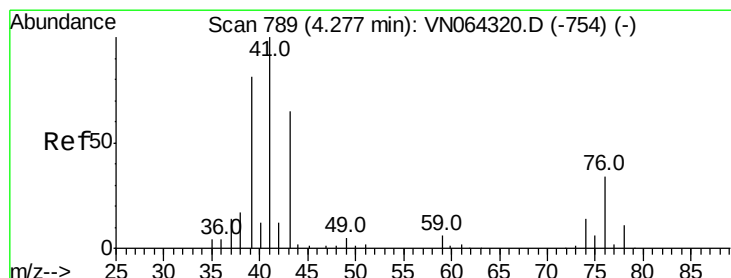
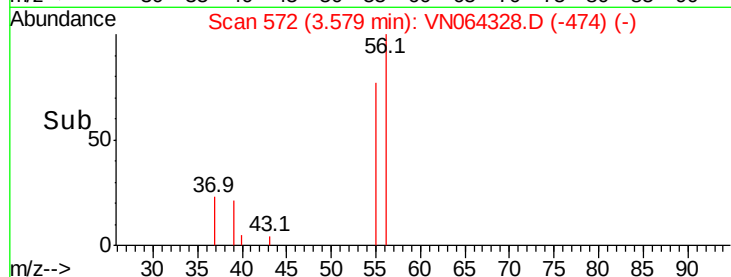
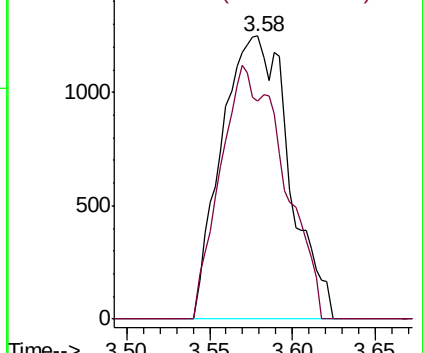
56 100

55 48.8 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 2.308 ug/l

RT: 4.28 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

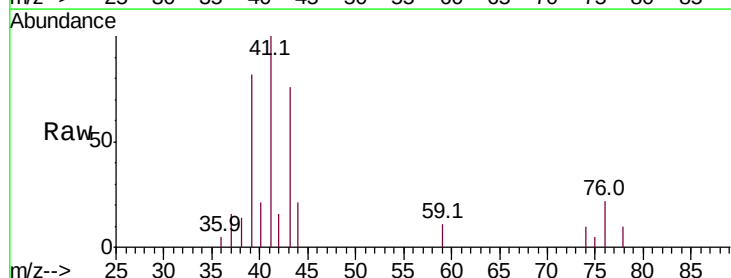
Tgt Ion: 41 Resp: 10884

Ion Ratio Lower Upper

41 100

39 81.6 61.7 92.5

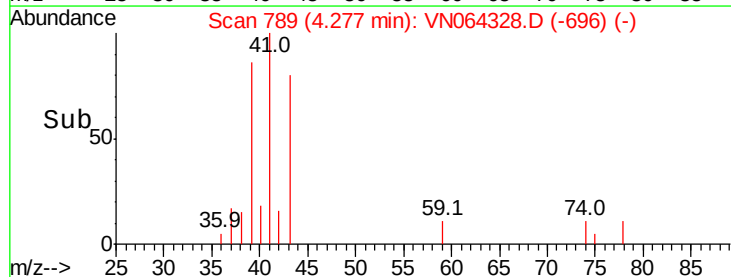
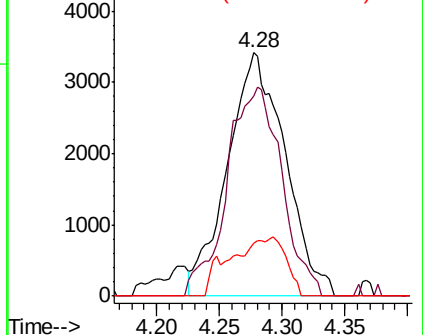
76 14.5 24.0 36.0#

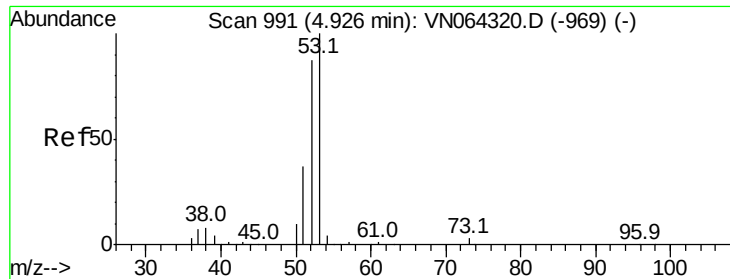


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 5.331 ug/l

RT: 4.93 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

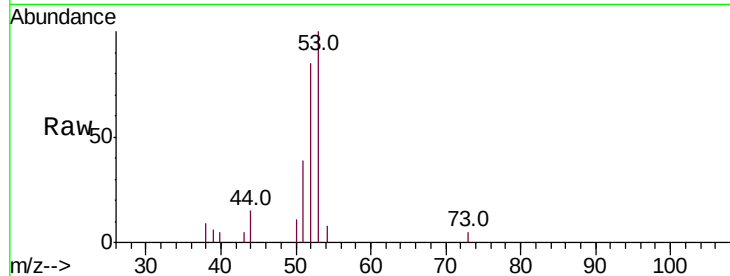
Tot Ion: 53 Resp: 6465

Ion Ratio Lower Upper

53 100

52 0.0 65.9 98.9#

51 41.2 30.4 45.6

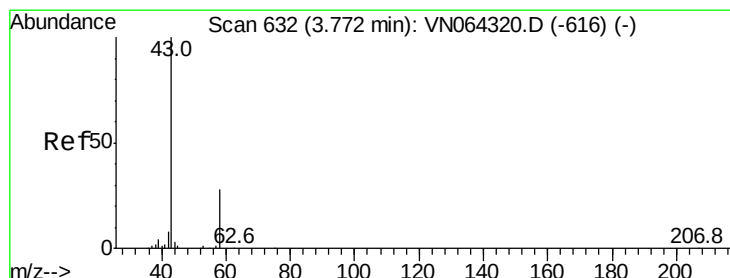
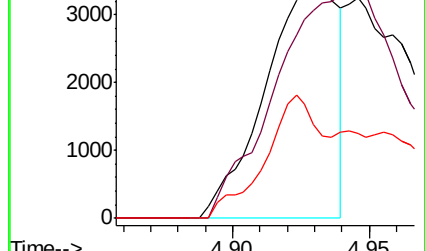
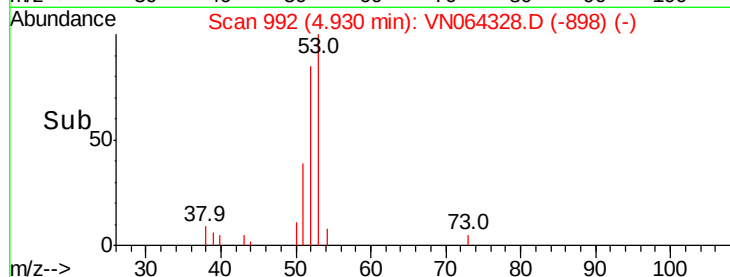


Abundance Ion 53.00 (52.70 to 53.70): VN064320.D (-969) (-)

Ion 52.00 (51.70 to 52.70): VN064320.D (-969) (-)

Ion 51.00 (50.70 to 51.70): VN064320.D (-969) (-)

Time-->



#16

Acetone

Concen: 10.630 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064328.D

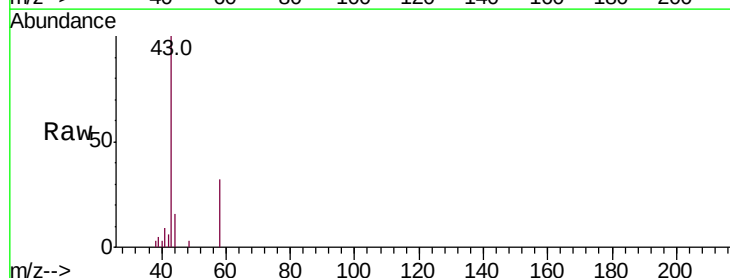
Acq: 27 Oct 2020 16:04

Tgt Ion: 43 Resp: 15057

Ion Ratio Lower Upper

43 100

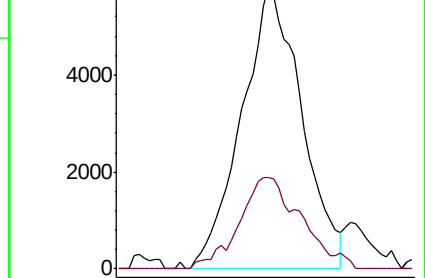
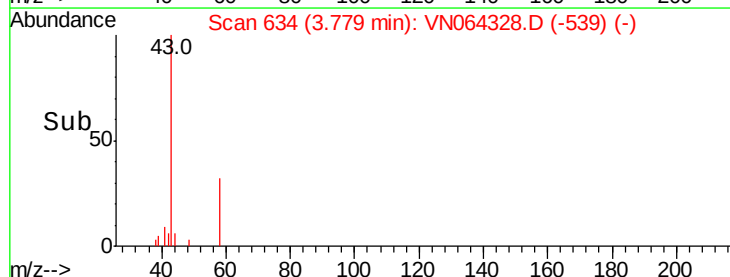
58 32.5 22.1 33.1

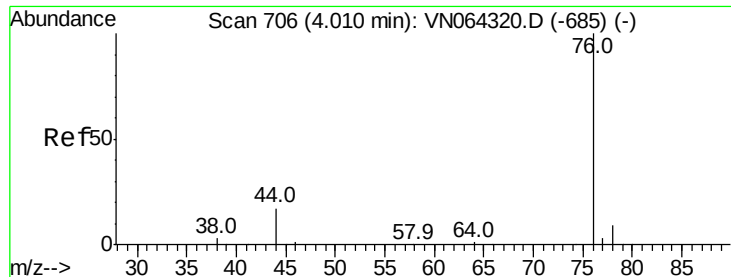


Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-616) (-)

Time-->





#17

Carbon Disulfide

Concen: 2.513 ug/l

RT: 4.01 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

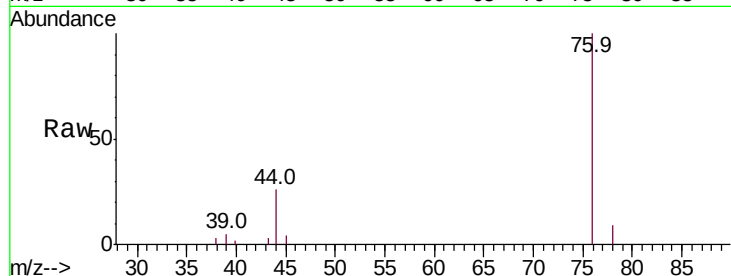
MDL-WATER-03-QT4-2020

Tot Ion: 76 Resp: 17175

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

6000

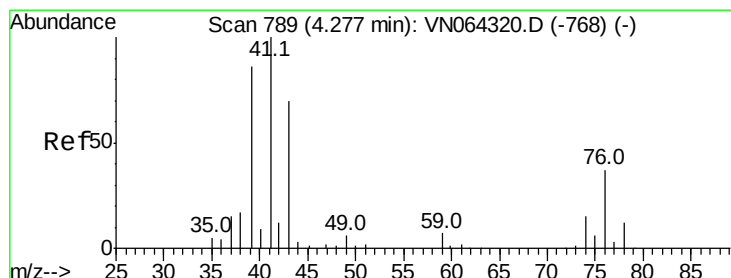
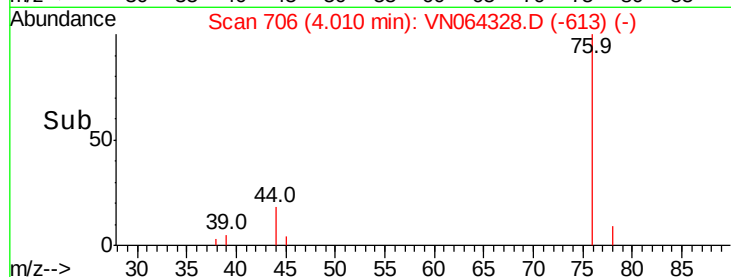
4000

2000

0

Time-->

3.90 3.95 4.00 4.05 4.10



#18

Methyl Acetate

Concen: 2.078 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN064328.D

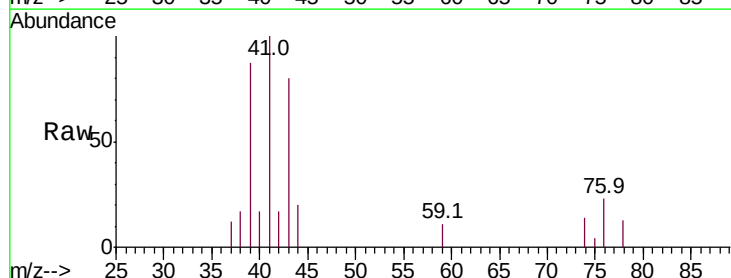
Acq: 27 Oct 2020 16:04

Tgt Ion: 43 Resp: 6064

Ion Ratio Lower Upper

43 100

74 3.2 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

3000

2500

2000

1500

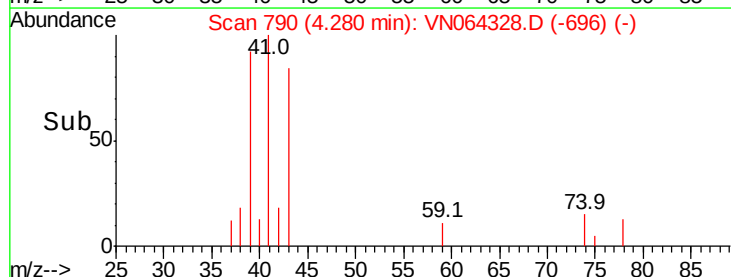
1000

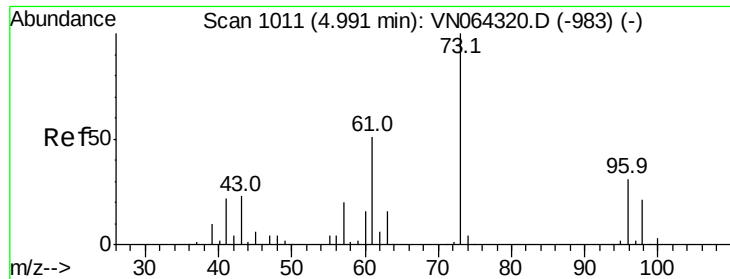
500

0

Time-->

4.25 4.30

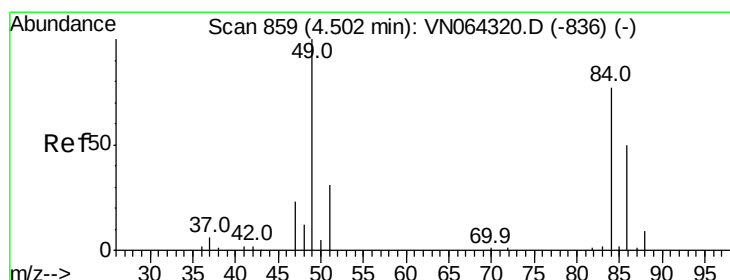
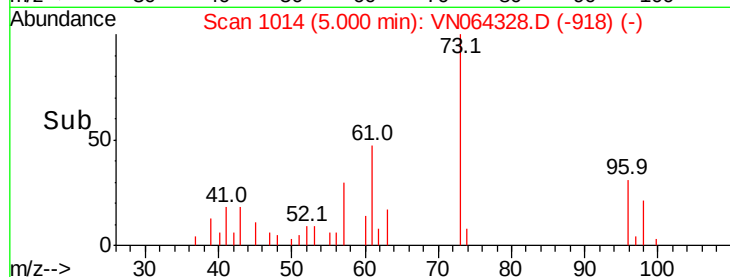
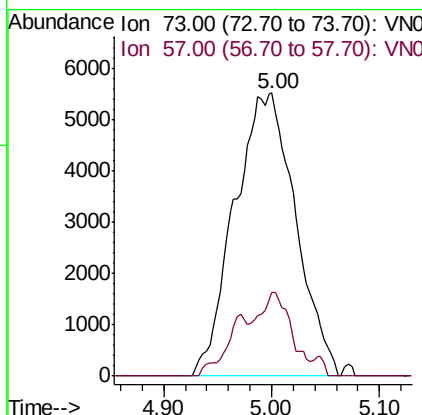
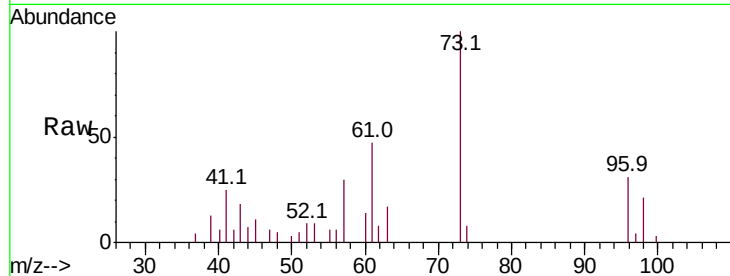




#19
Methyl tert-butyl Ether
Concen: 2.447 ug/l
RT: 5.00 min Scan# 1014
Delta R.T. 0.01 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

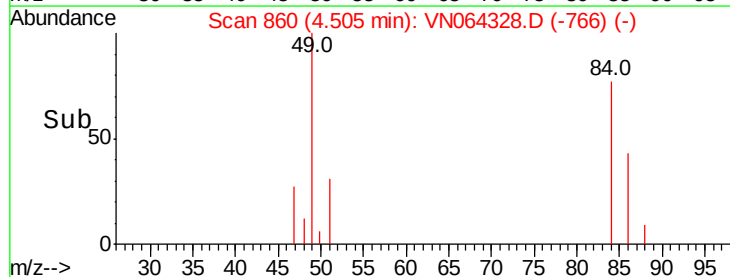
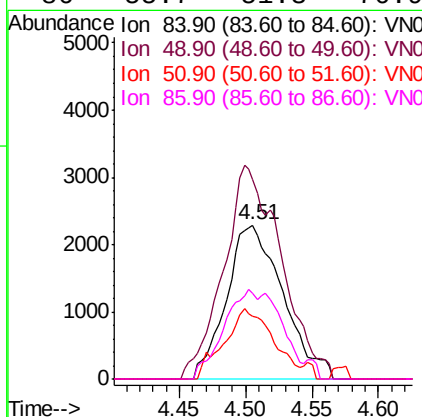
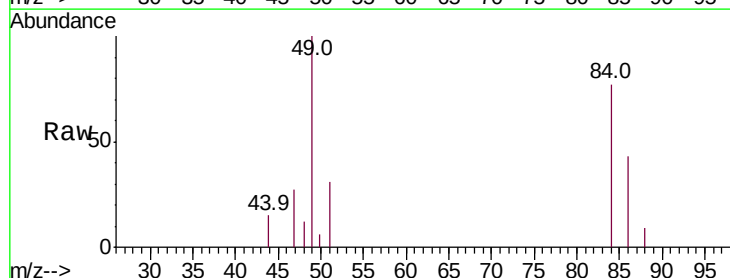
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

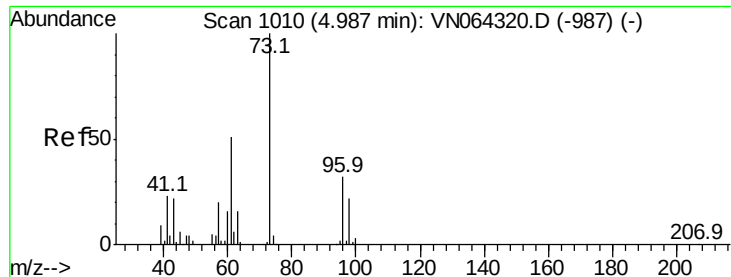
Tot Ion: 73 Resp: 21718
Ion Ratio Lower Upper
73 100
57 29.7 16.1 24.1#



#20
Methylene Chloride
Concen: 2.461 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion: 84 Resp: 6781
Ion Ratio Lower Upper
84 100
49 130.0 103.6 155.4
51 40.6 31.8 47.8
86 55.7 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 1.474 ug/l

RT: 4.99 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

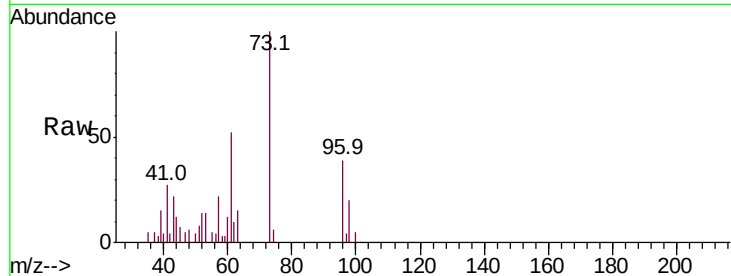
Tot Ion: 96 Resp: 3799

Ion Ratio Lower Upper

96 100

61 118.9 128.2 192.2#

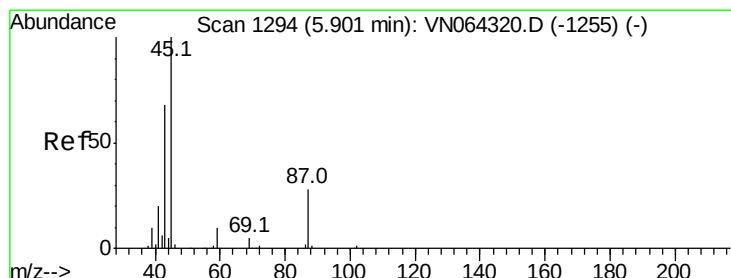
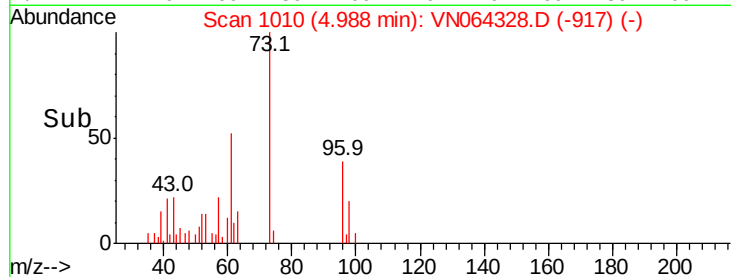
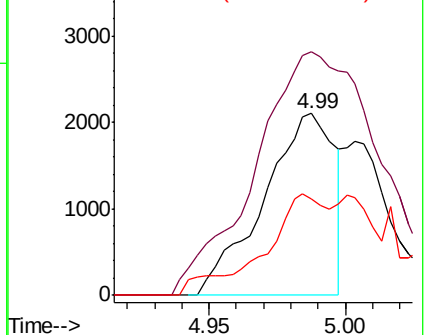
98 44.5 56.1 84.1#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 2.271 ug/l

RT: 5.90 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Tgt Ion: 45 Resp: 20934

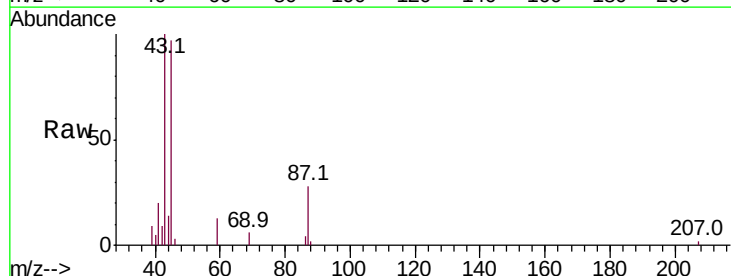
Ion Ratio Lower Upper

45 100

43 94.8 54.6 82.0#

87 28.3 22.6 33.8

59 13.6 8.6 12.8#

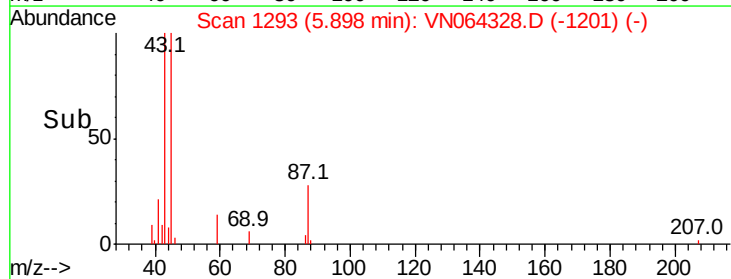
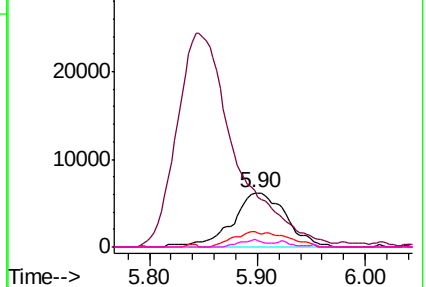


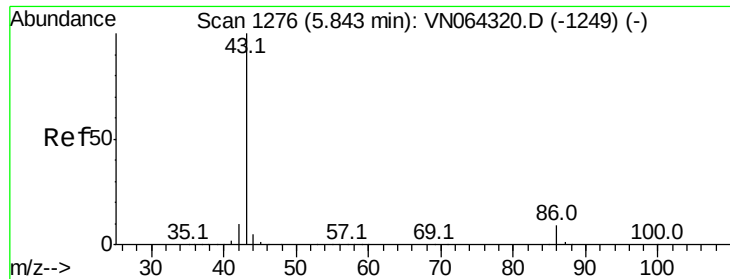
Abundance Ion 45.00 (44.70 to 45.70): VN0

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





#23

Vinyl Acetate

Concen: 11.824 ug/l

RT: 5.85 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

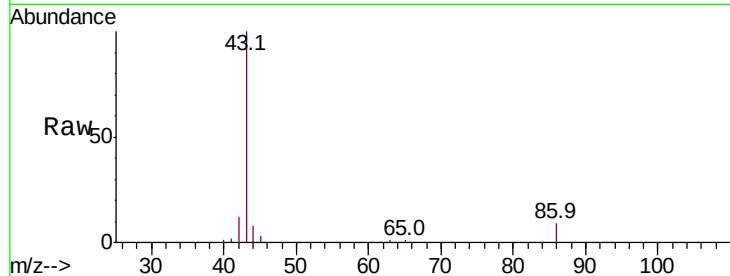
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 92210

Ion Ratio Lower Upper

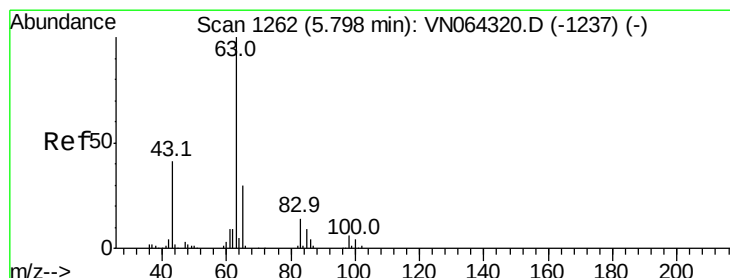
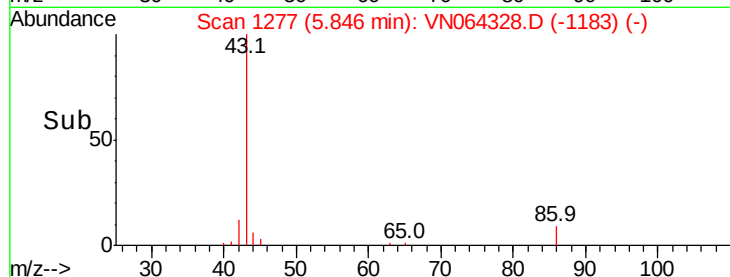
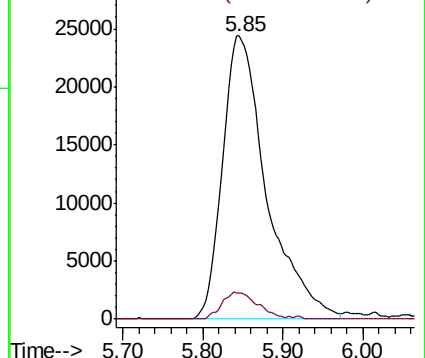
43 100

86 9.3 7.3 10.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 2.588 ug/l

RT: 5.80 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

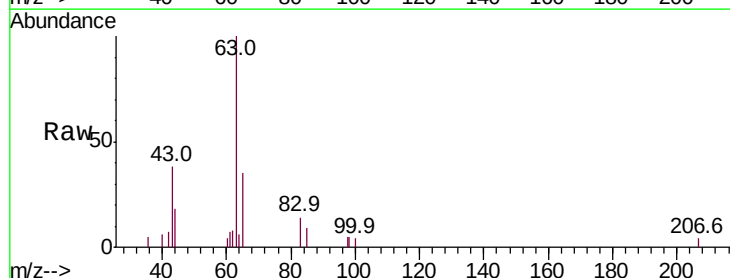
Tgt Ion: 63 Resp: 13349

Ion Ratio Lower Upper

63 100

98 10.2 3.1 9.4#

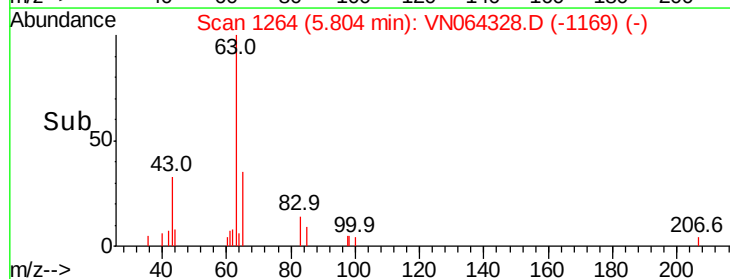
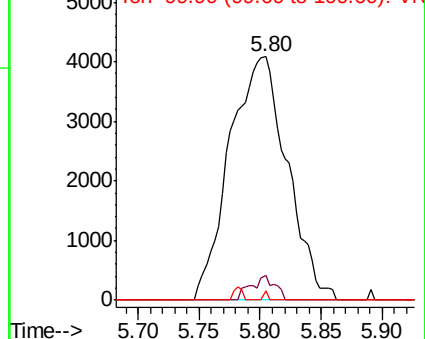
100 3.7 2.0 5.8

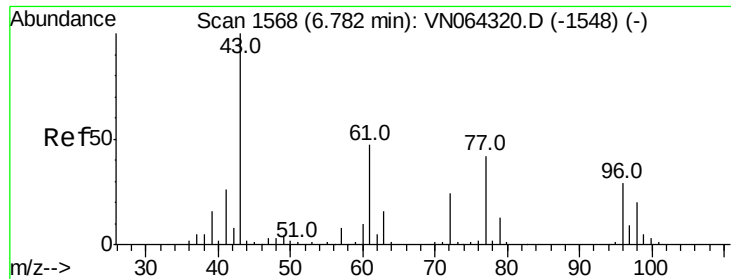


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO

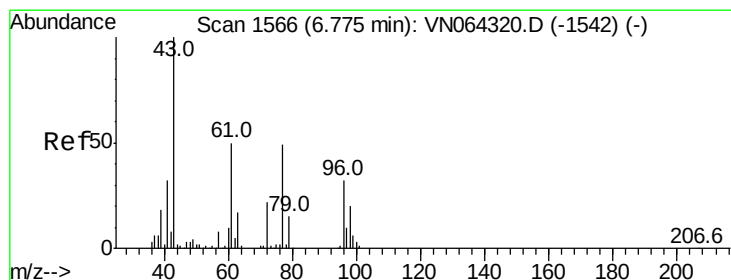
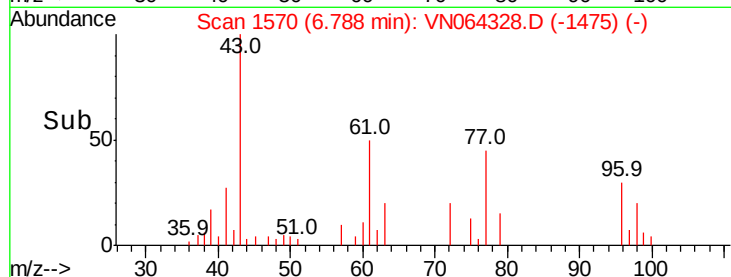
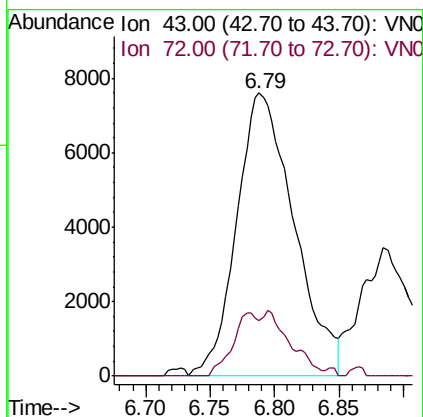
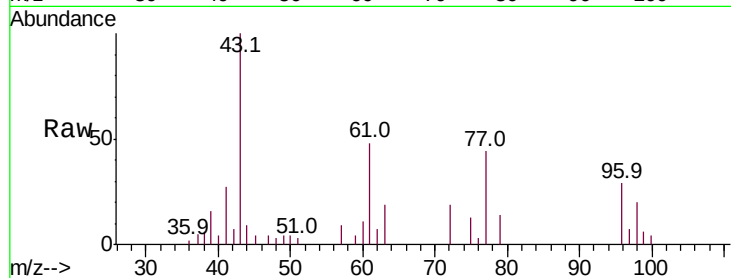




#25
2-Butanone
Concen: 12.075 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

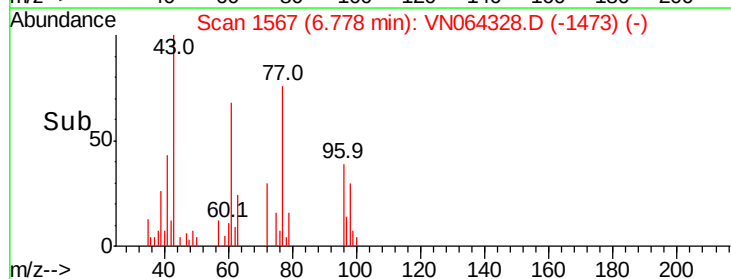
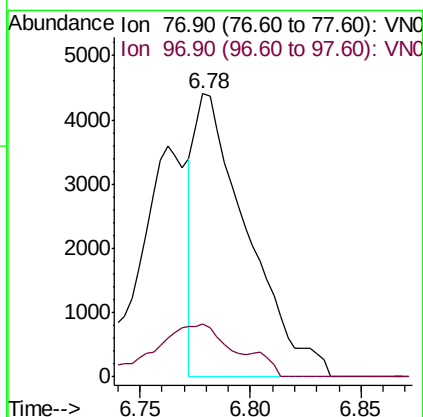
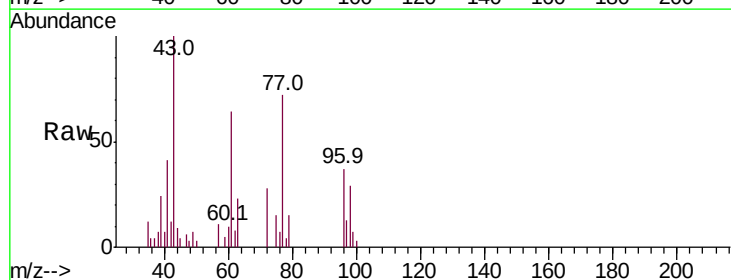
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

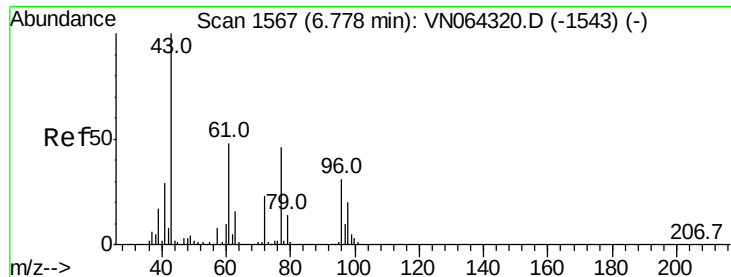
Tot Ion: 43 Resp: 23555
Ion Ratio Lower Upper
43 100
72 19.5 18.8 28.2



#26
2,2-Dichloropropane
Concen: 1.451 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion: 77 Resp: 7327
Ion Ratio Lower Upper
77 100
97 28.6 10.2 30.6





#27

cis-1,2-Dichloroethene

Concen: 1.394 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

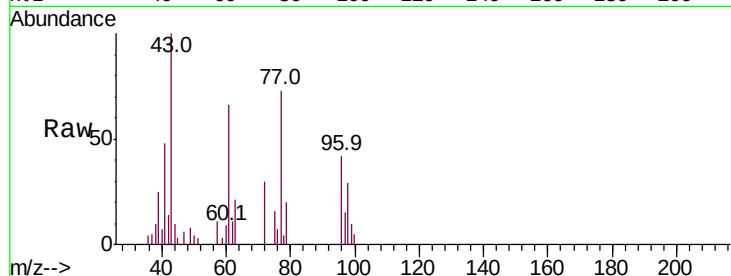
Tot Ion: 96 Resp: 4112

Ion Ratio Lower Upper

96 100

61 289.2 0.0 325.0

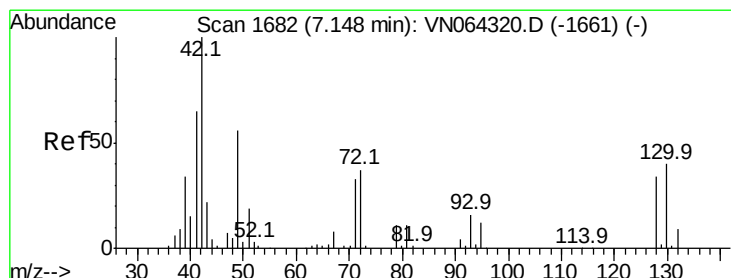
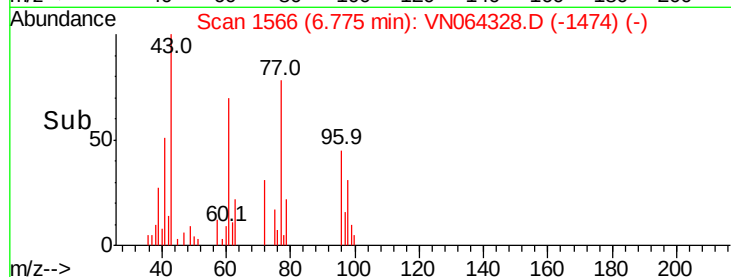
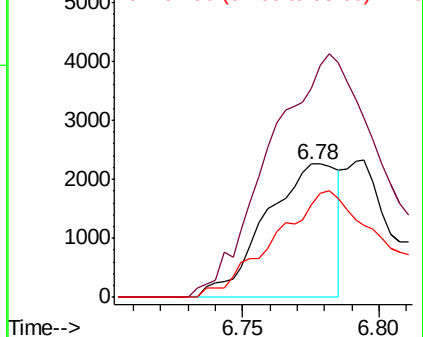
98 121.7 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN064328.D (-1543) (-)

Ion 60.90 (60.60 to 61.60): VN064328.D (-1543) (-)

Ion 97.90 (97.60 to 98.60): VN064328.D (-1543) (-)



#28

Bromochloromethane

Concen: 2.274 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

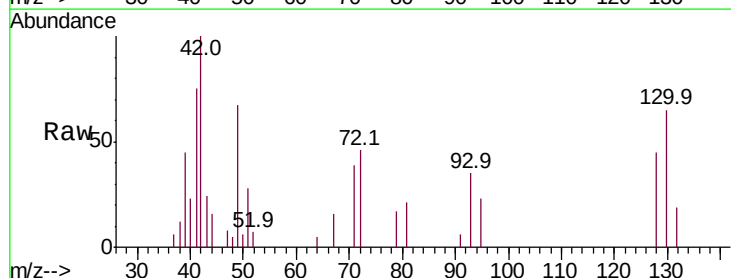
Tgt Ion: 49 Resp: 5589

Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.8

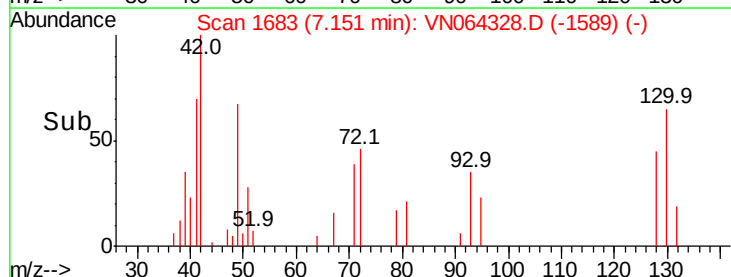
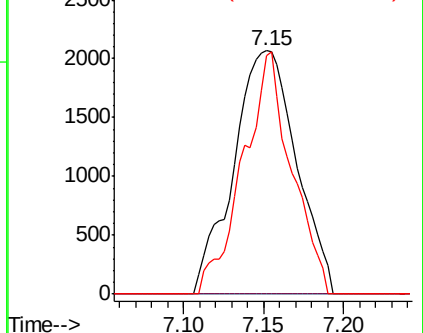
130 76.8 56.2 84.2

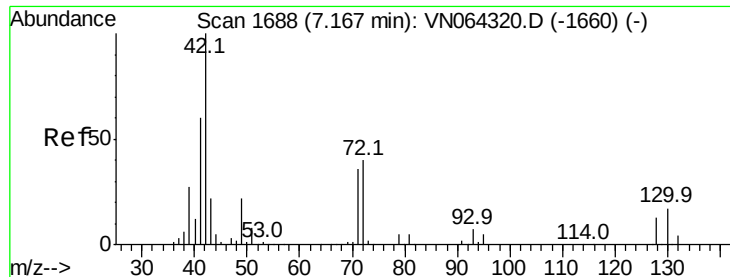


Abundance Ion 48.90 (48.60 to 49.60): VN064328.D (-1589) (-)

Ion 128.80 (128.50 to 129.50): VN064328.D (-1589) (-)

Ion 129.80 (129.50 to 130.50): VN064328.D (-1589) (-)





#29

Tetrahydrofuran

Concen: 11.121 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

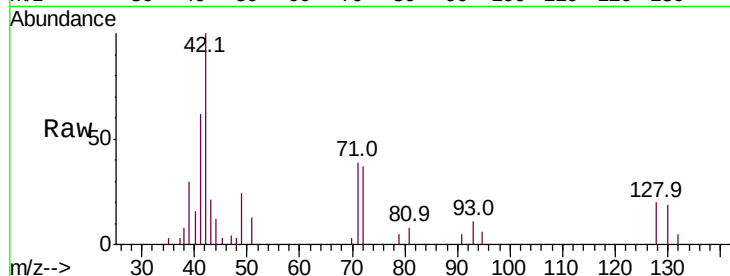
Tot Ion: 42 Resp: 14083

Ion Ratio Lower Upper

42 100

72 22.9 31.6 47.4#

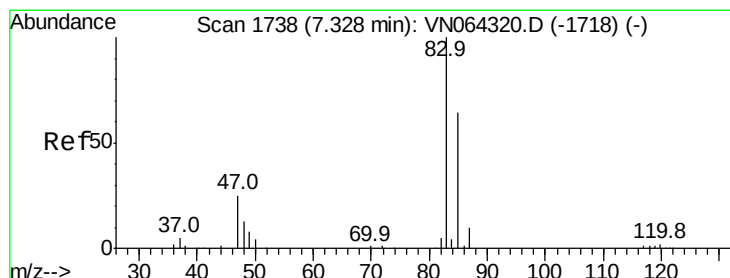
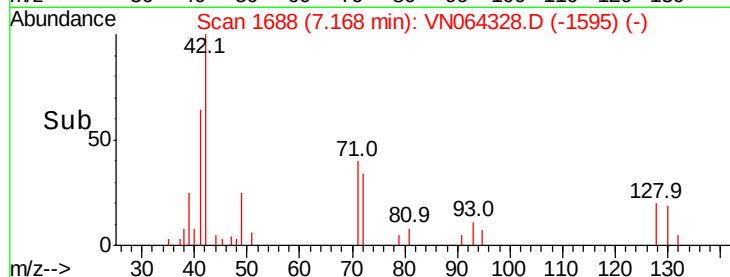
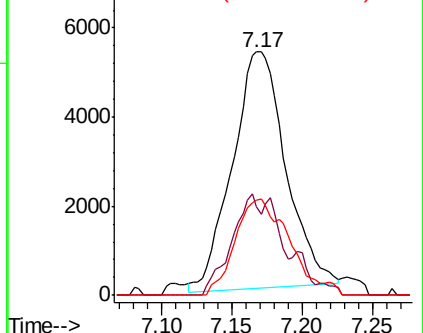
71 41.4 29.4 44.0



Abundance Ion 42.00 (41.70 to 42.70): VN064328.D (-1660) (-)

Ion 72.00 (71.70 to 72.70): VN064328.D (-1660) (-)

Ion 71.00 (70.70 to 71.70): VN064328.D (-1660) (-)



#30

Chloroform

Concen: 2.454 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN064328.D

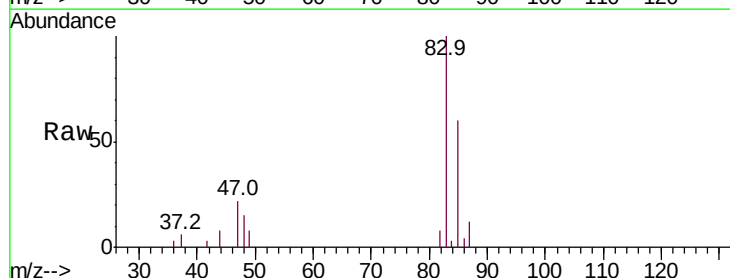
Acq: 27 Oct 2020 16:04

Tgt Ion: 83 Resp: 13511

Ion Ratio Lower Upper

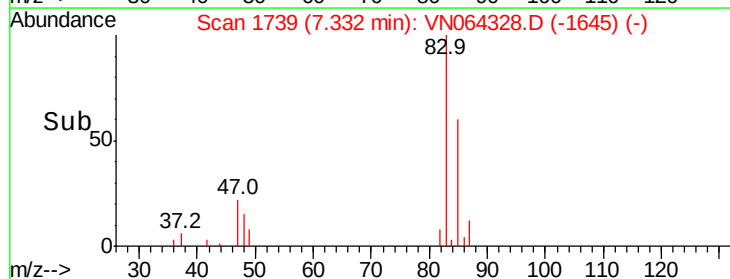
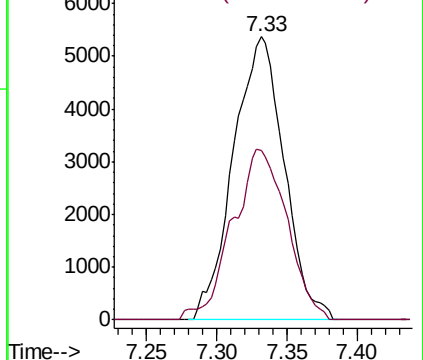
83 100

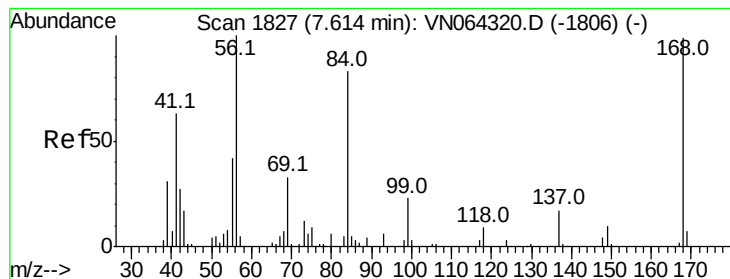
85 59.7 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VN064328.D (-1645) (-)

Ion 84.90 (84.60 to 85.60): VN064328.D (-1645) (-)





#31

Cyclohexane

Concen: 3.498 ug/l

RT: 7.61 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

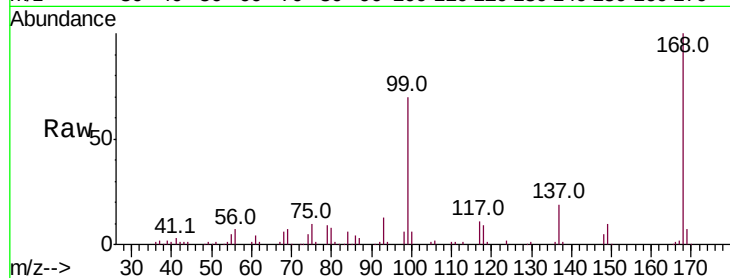
Tot Ion: 56 Resp: 15774

Ion Ratio Lower Upper

56 100

69 95.7 25.8 38.8#

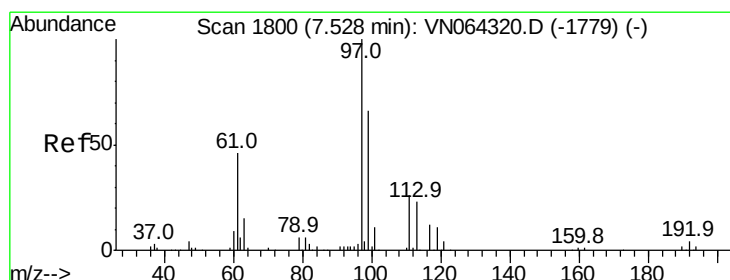
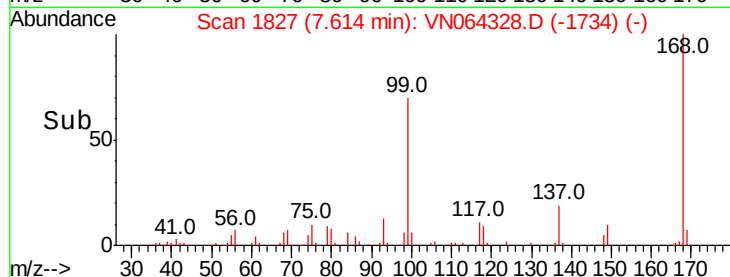
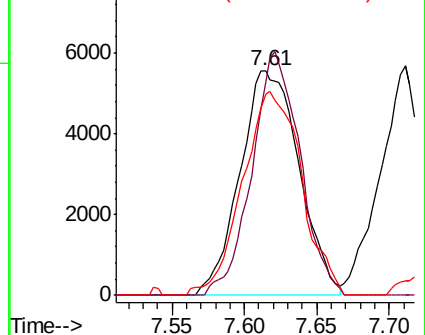
84 86.9 66.3 99.5



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 2.395 ug/l

RT: 7.53 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

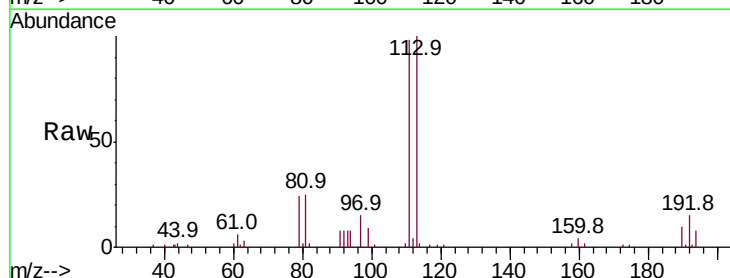
Tgt Ion: 97 Resp: 12660

Ion Ratio Lower Upper

97 100

99 64.6 50.6 76.0

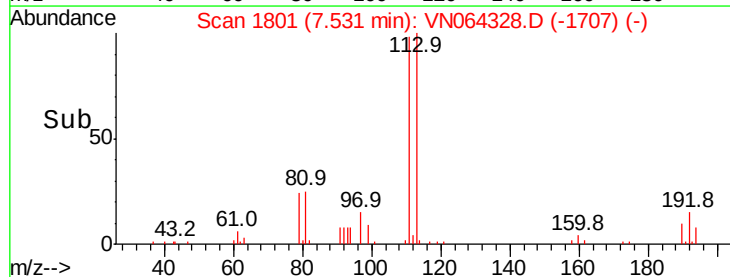
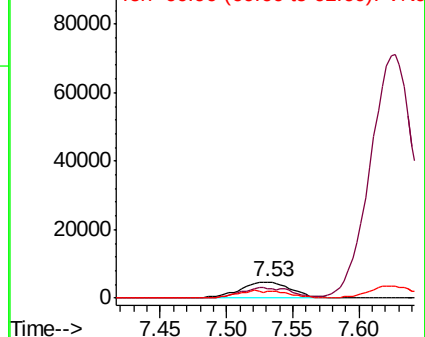
61 23.7 35.8 53.6#

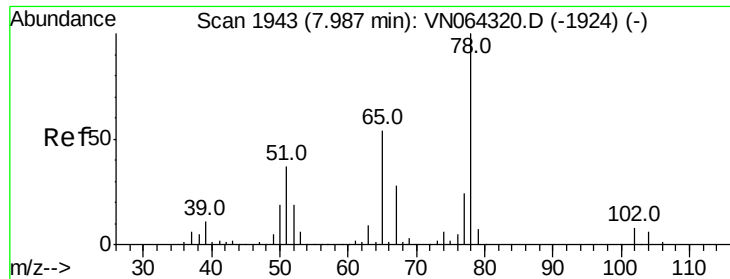


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

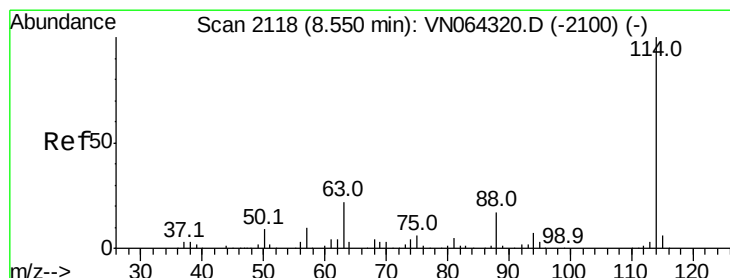
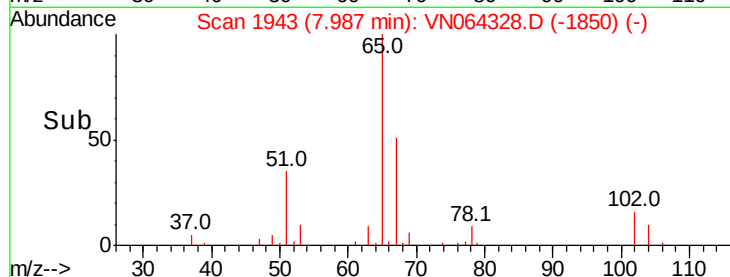
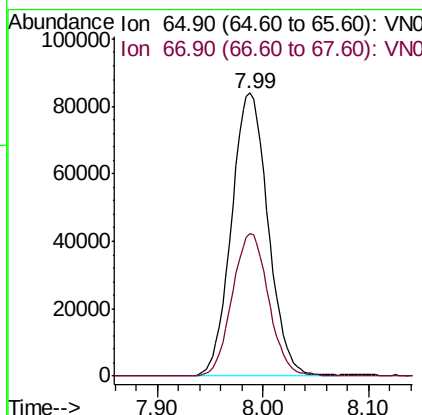
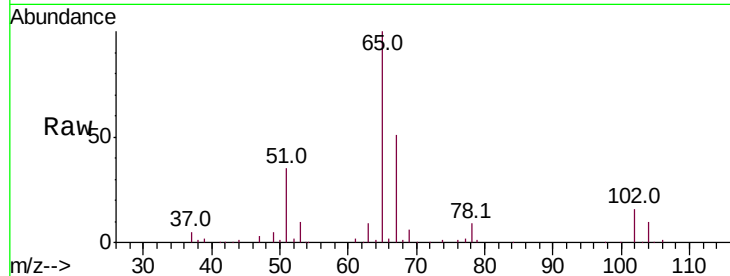




#33
 1,2-Dichloroethane-d4
 Concen: 52.188 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

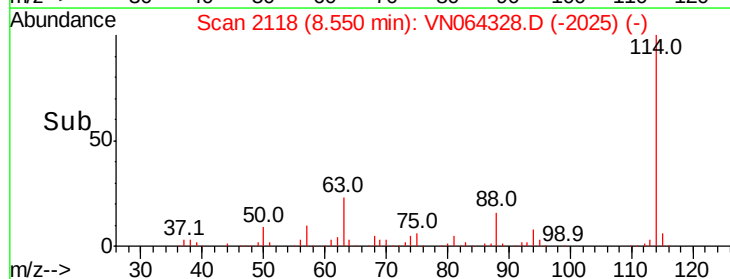
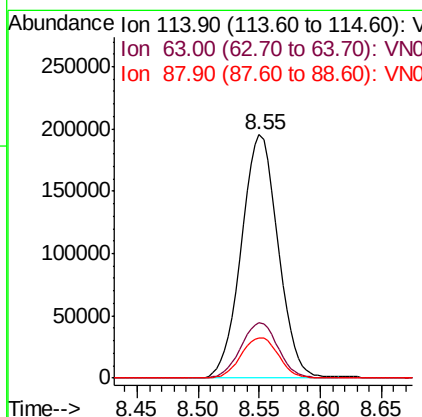
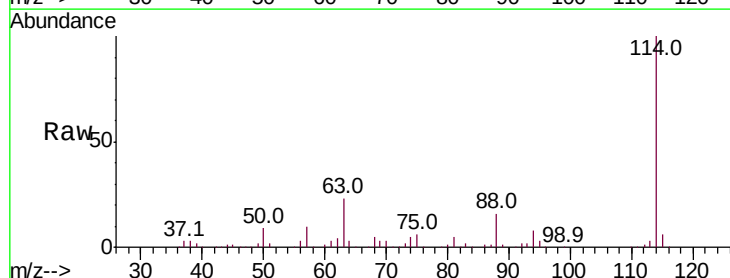
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

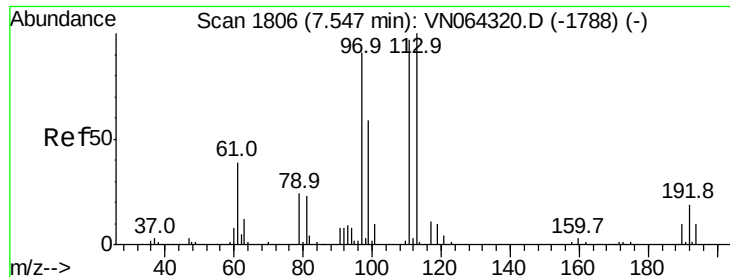
Tot Ion: 65 Resp: 202750
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 99.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

Tgt Ion: 114 Resp: 406078
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.6
 88 16.2 0.0 33.4

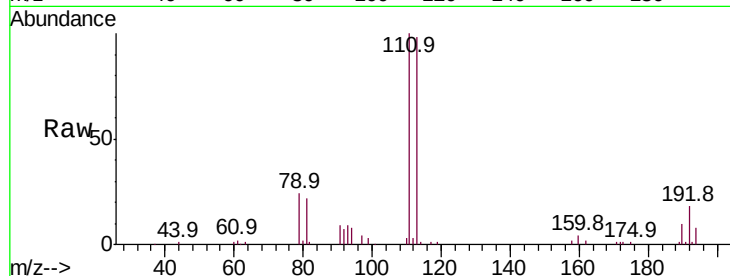




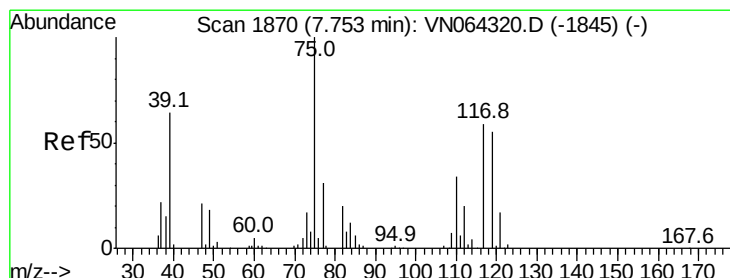
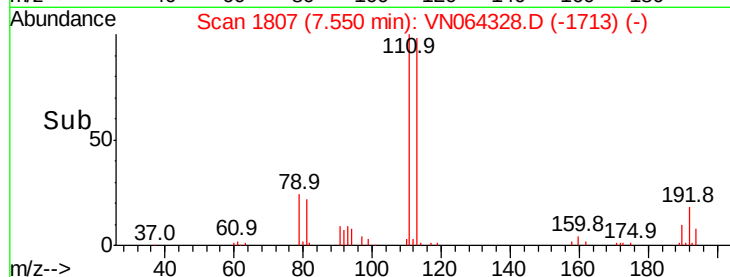
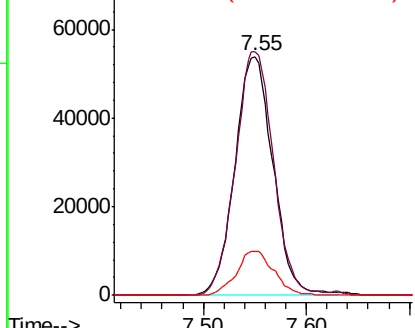
#35
 Dibromofluoromethane
 Concen: 51.225 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

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

Tot Ion:113 Resp: 138718
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.5 122.3
 192 18.3 15.0 22.4

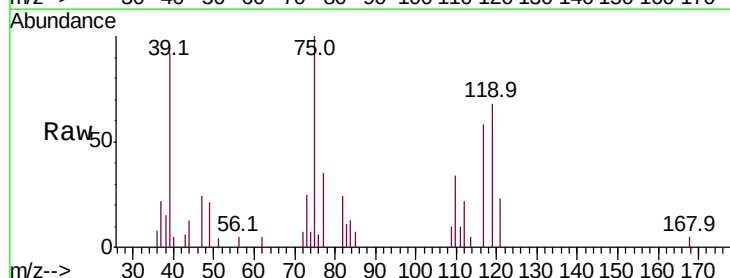


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

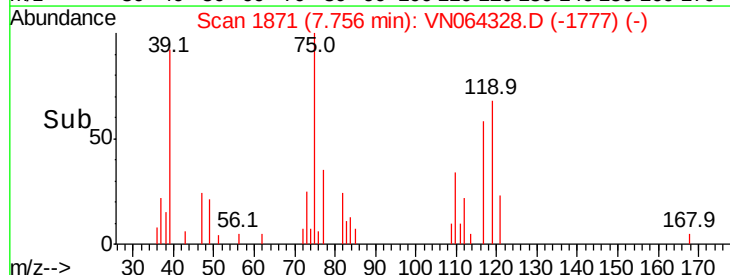
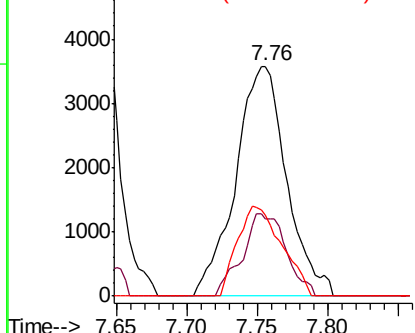


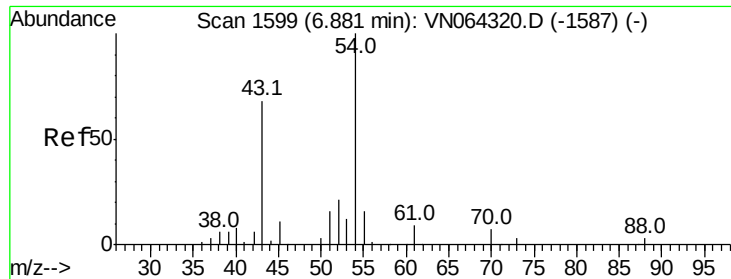
#36
 1,1-Dichloropropene
 Concen: 2.205 ug/l
 RT: 7.76 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

Tgt Ion: 75 Resp: 9035
 Ion Ratio Lower Upper
 75 100
 110 30.7 16.8 50.3
 77 34.3 24.2 36.4



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

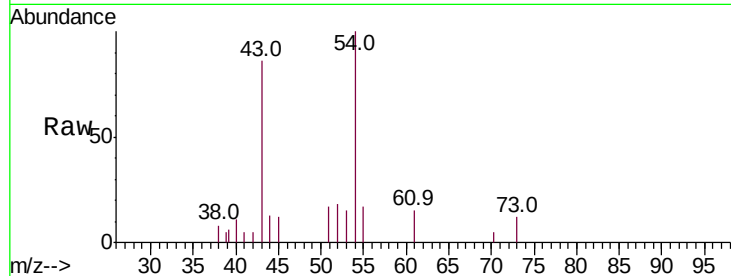




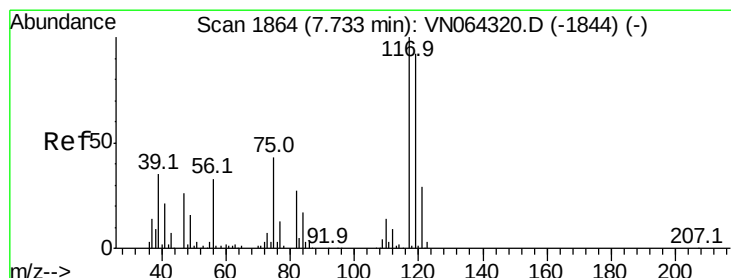
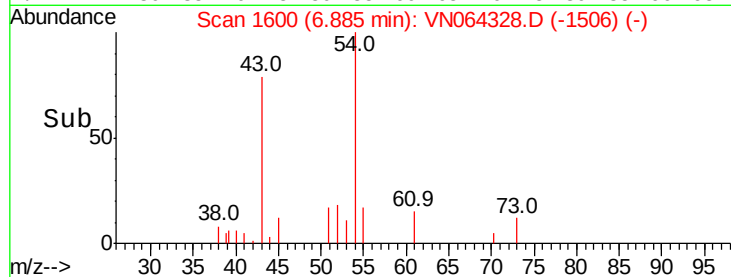
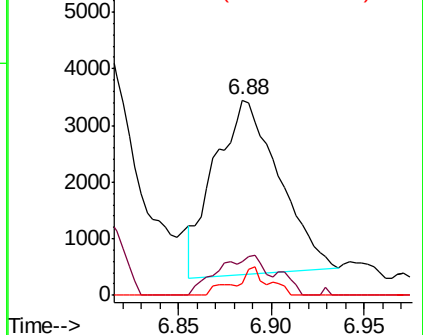
#37
Ethyl Acetate
Concen: 1.807 ug/l
RT: 6.88 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

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

Tot Ion: 43 Resp: 7479
Ion Ratio Lower Upper
43 100
61 16.7 10.0 15.0#
70 5.8 7.1 10.7#

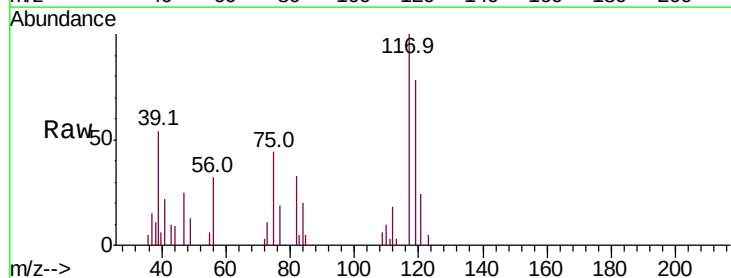


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

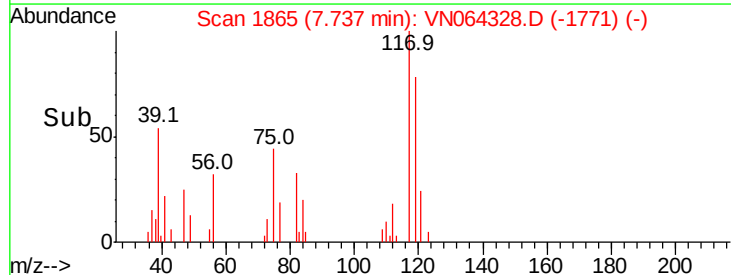
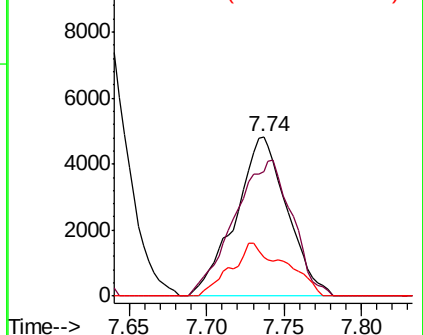


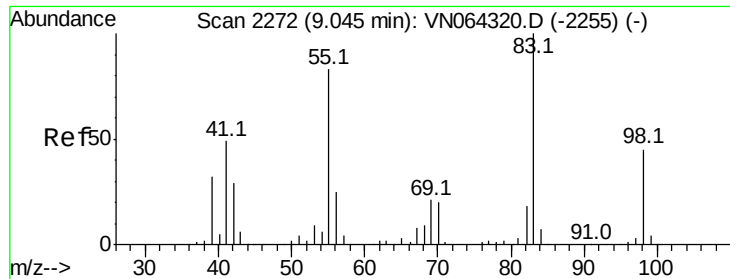
#38
Carbon Tetrachloride
Concen: 2.370 ug/l
RT: 7.74 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion: 117 Resp: 11260
Ion Ratio Lower Upper
117 100
119 78.0 73.7 110.5
121 24.1 22.8 34.2



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

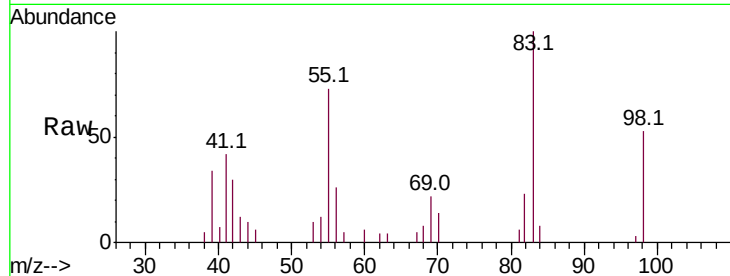




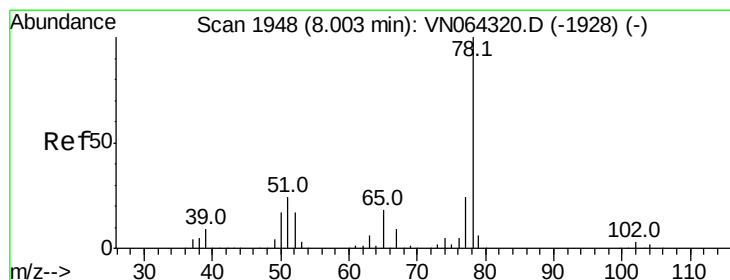
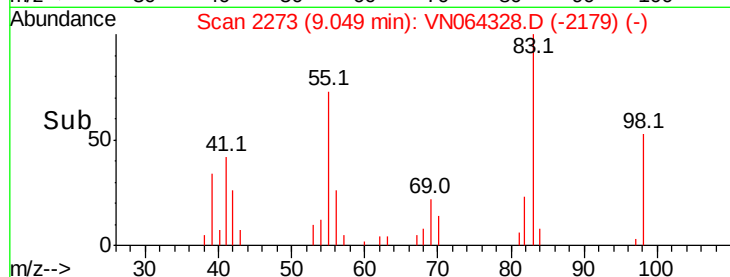
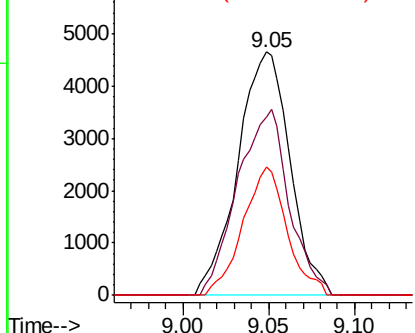
#39
Methylvlcyclohexane
Concen: 2.408 ug/l
RT: 9.05 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

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

Tot Ion: 83 Resp: 9786
Ion Ratio Lower Upper
83 100
55 73.3 66.2 99.4
98 52.6 36.0 54.0

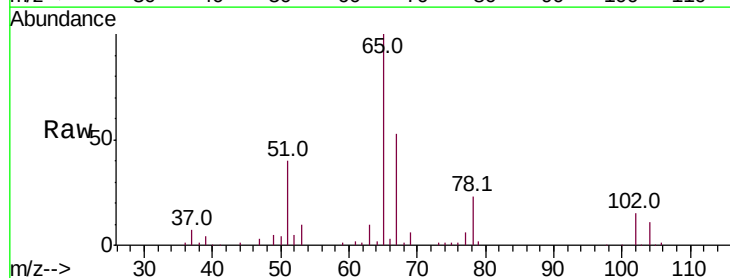


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

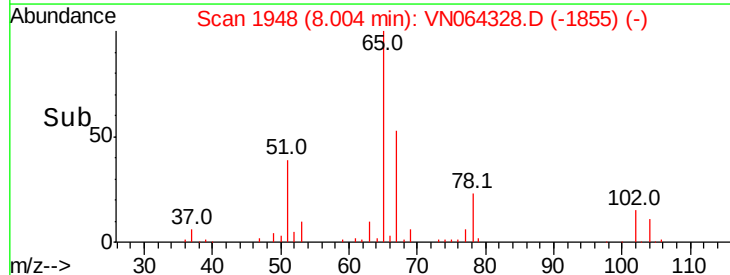
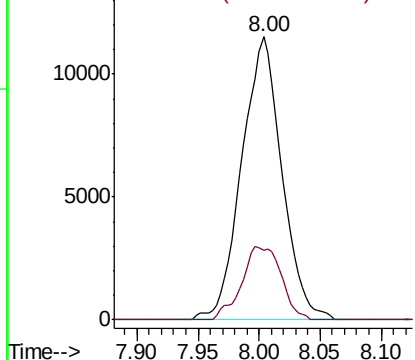


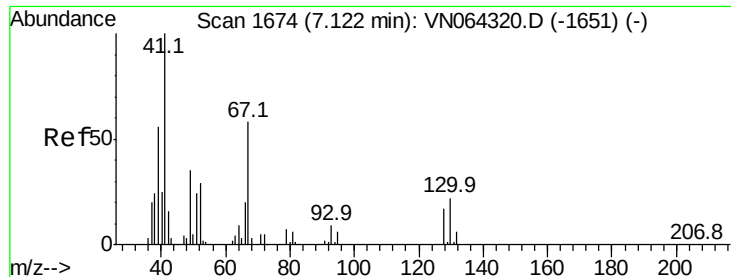
#40
Benzene
Concen: 2.293 ug/l
RT: 8.00 min Scan# 1948
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion: 78 Resp: 26160
Ion Ratio Lower Upper
78 100
77 24.8 18.8 28.2



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

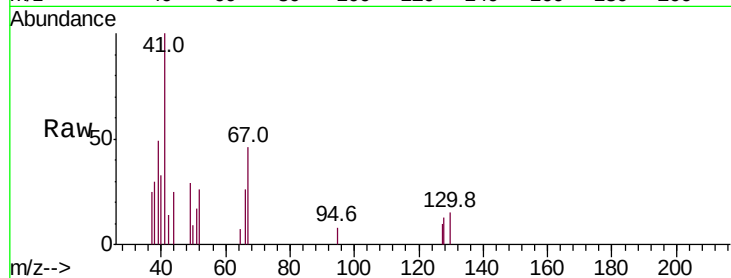




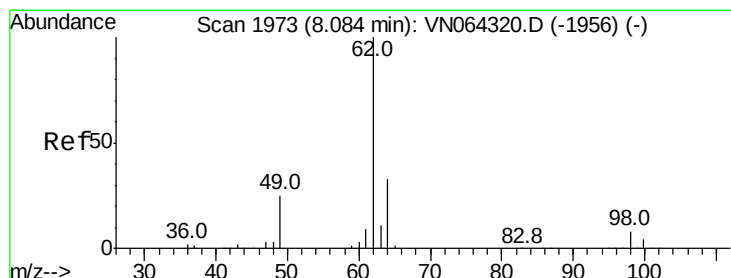
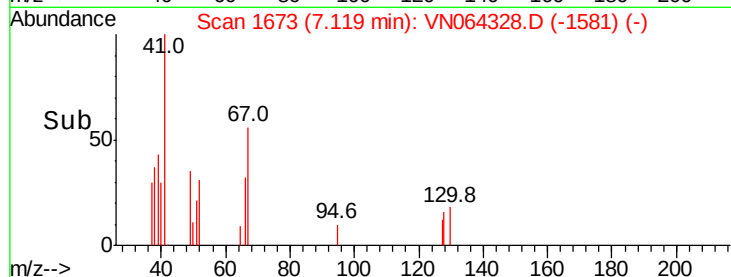
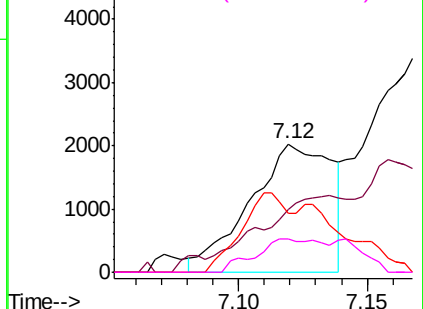
#41
Methacrylonitrile
Concen: 2.169 ug/l
RT: 7.12 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

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

Tot Ion: 41 Resp: 4457
Ion Ratio Lower Upper
41 100
39 0.0 48.6 72.8#
67 34.1 61.4 92.2#
52 13.8 27.6 41.4#

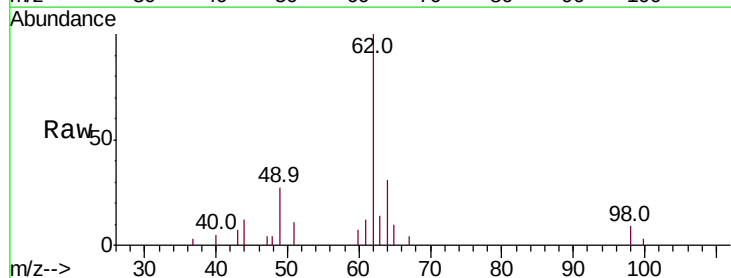


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

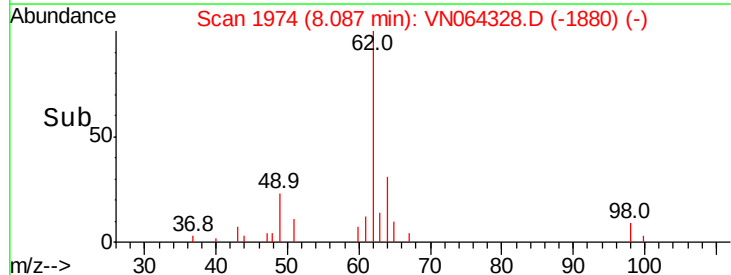
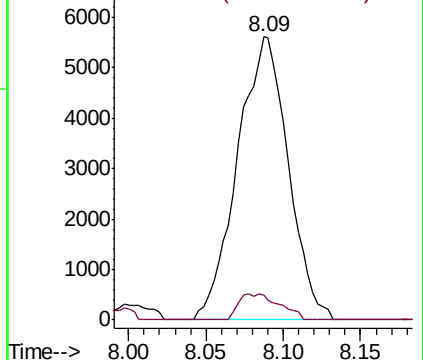


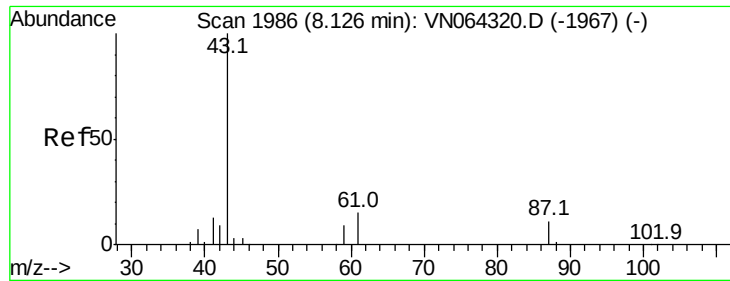
#42
1,2-Dichloroethane
Concen: 2.597 ug/l
RT: 8.09 min Scan# 1974
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion: 62 Resp: 12798
Ion Ratio Lower Upper
62 100
98 2.9 0.0 14.2



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 2.157 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

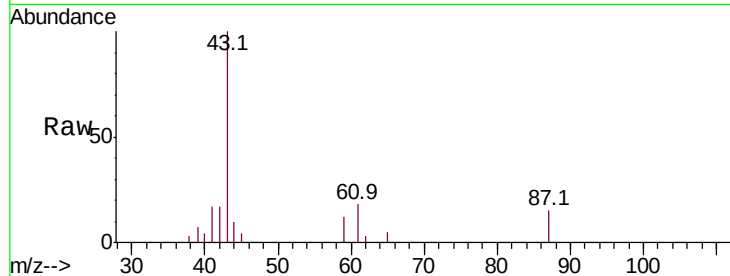
Tot Ion: 43 Resp: 15263

Ion Ratio Lower Upper

43 100

61 16.7 19.1 28.7#

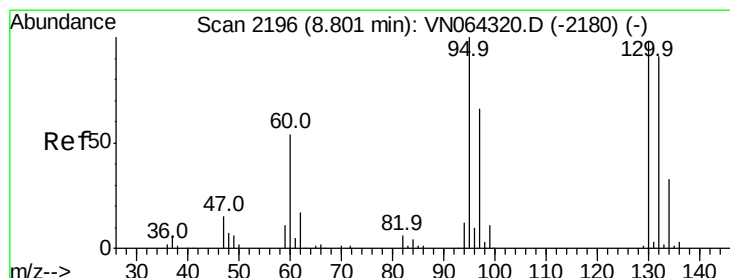
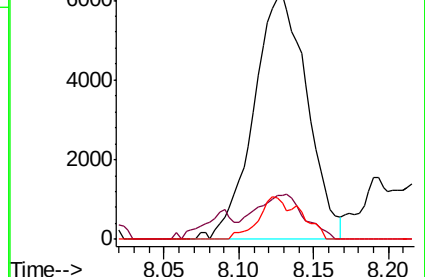
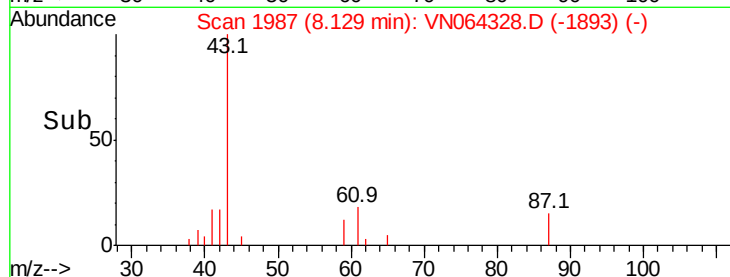
87 13.5 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VN064328.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN064328.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN064328.D (-1987) (-)



#44

Trichloroethene

Concen: 2.574 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN064328.D

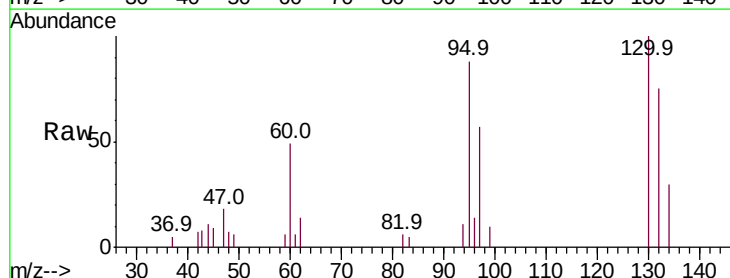
Acq: 27 Oct 2020 16:04

Tgt Ion:130 Resp: 7692

Ion Ratio Lower Upper

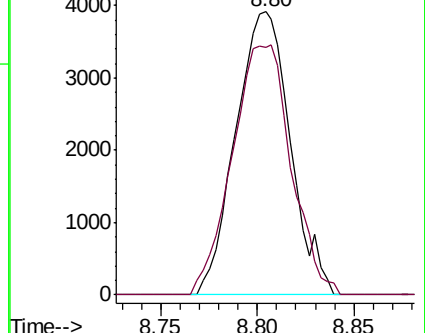
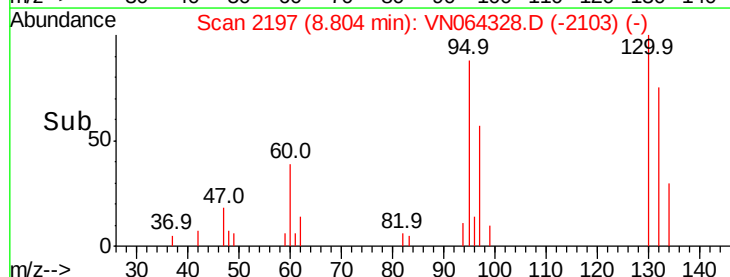
130 100

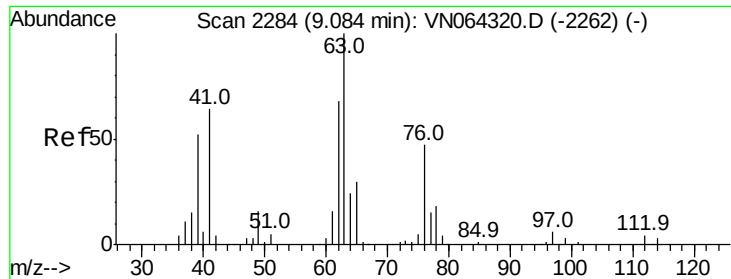
95 87.5 0.0 203.6



Abundance Ion 129.80 (129.50 to 130.50): VN064328.D (-2197) (-)

Ion 94.90 (94.60 to 95.60): VN064328.D (-2197) (-)





#45

1,2-Dichloropropane

Concen: 2.258 ug/l

RT: 9.08 min Scan# 2283

Delta R.T. -0.00 min

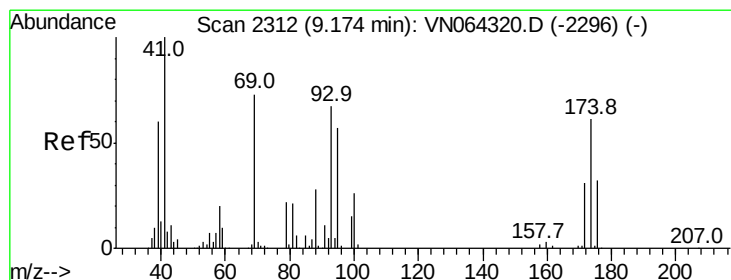
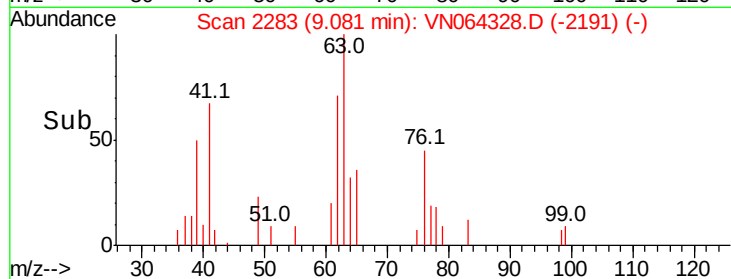
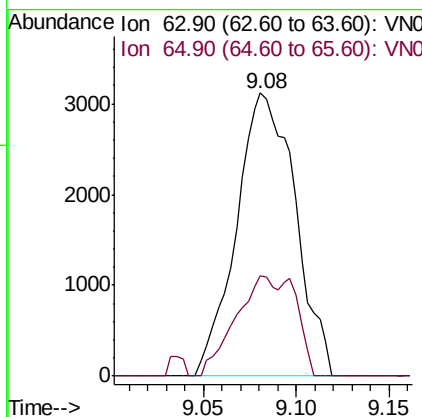
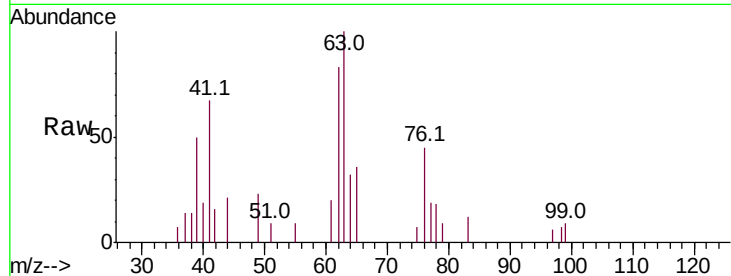
Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

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

Tot Ion: 63 Resp: 6897

Ion	Ratio	Lower	Upper
63	100		
65	35.6	24.3	36.5



#46

Dibromomethane

Concen: 2.514 ug/l

RT: 9.18 min Scan# 2314

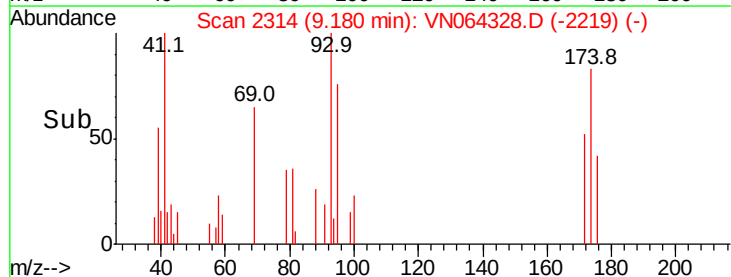
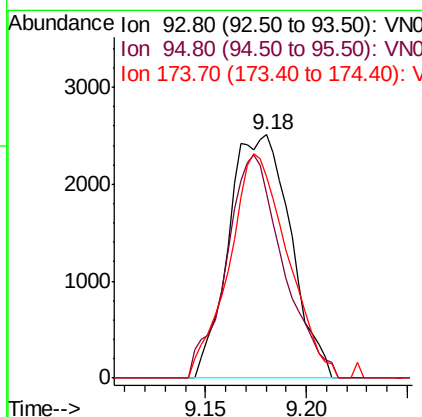
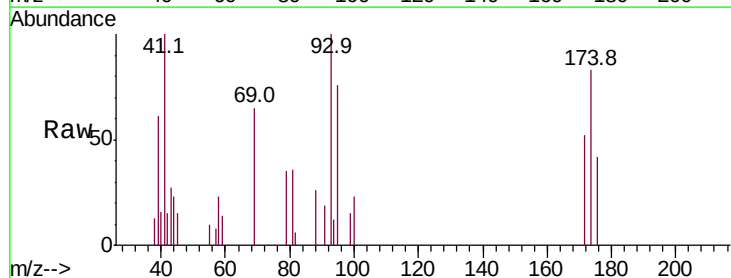
Delta R.T. 0.01 min

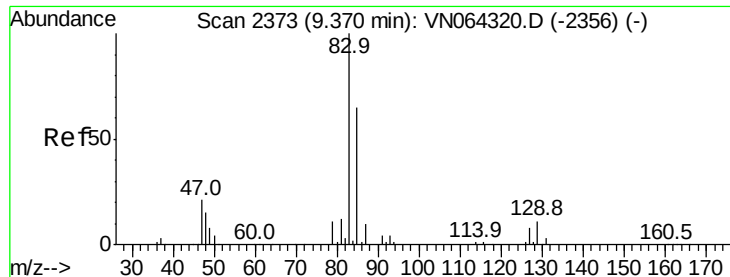
Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Tgt Ion: 93 Resp: 5372

Ion	Ratio	Lower	Upper
93	100		
95	84.1	64.4	96.6
174	87.1	71.4	107.0





#47

Bromodichloromethane

Concen: 2.238 ug/l

RT: 9.37 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

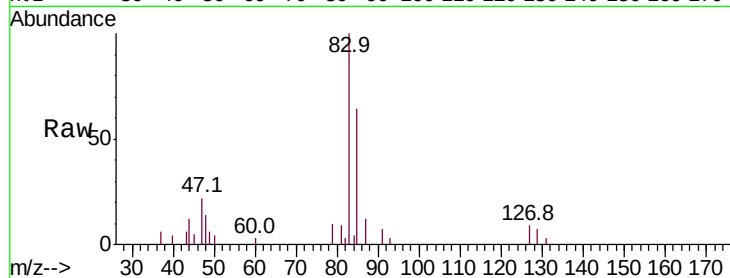
Tot Ion: 83 Resp: 10600

Ion Ratio Lower Upper

83 100

85 64.0 52.1 78.1

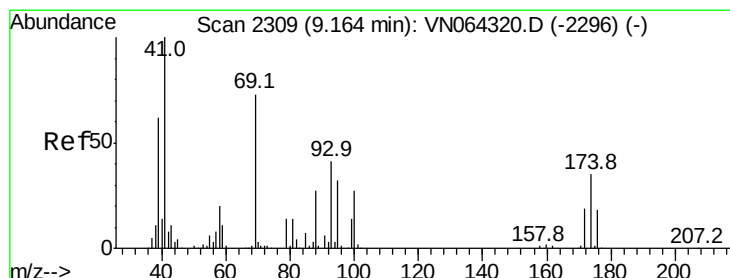
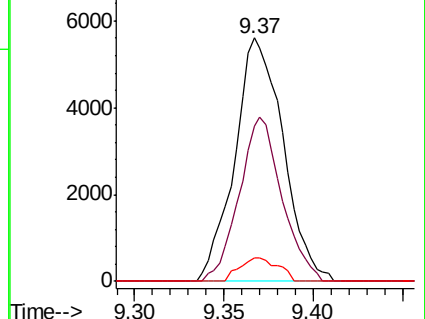
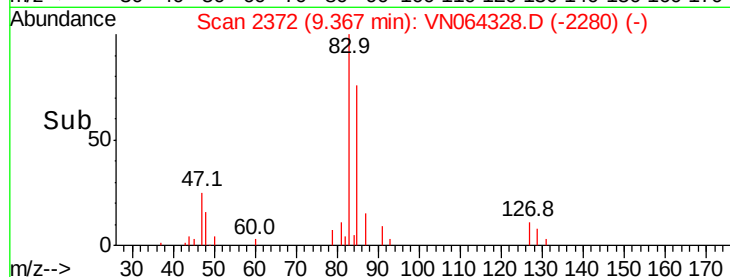
127 9.4 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VN064328.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN064328.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN064328.D (-2356) (-)



#48

Methyl methacrylate

Concen: 2.472 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

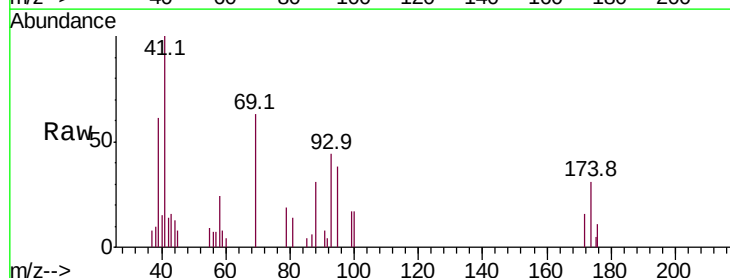
Tgt Ion: 41 Resp: 9024

Ion Ratio Lower Upper

41 100

69 62.5 59.1 88.7

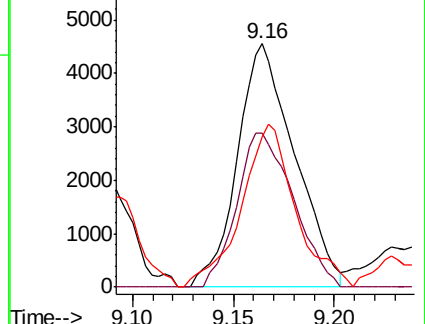
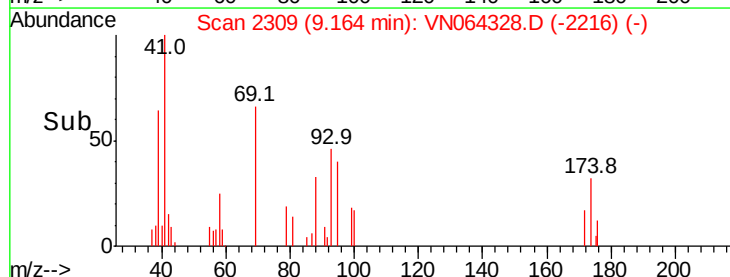
39 63.0 51.3 76.9

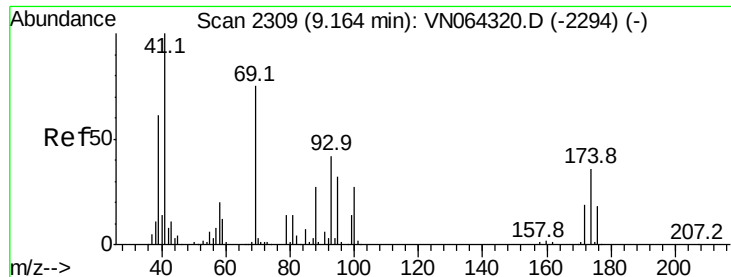


Abundance Ion 41.00 (40.70 to 41.70): VN064328.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN064328.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN064328.D (-2216) (-)





#49

1,4-Dioxane

Concen: 39.619 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

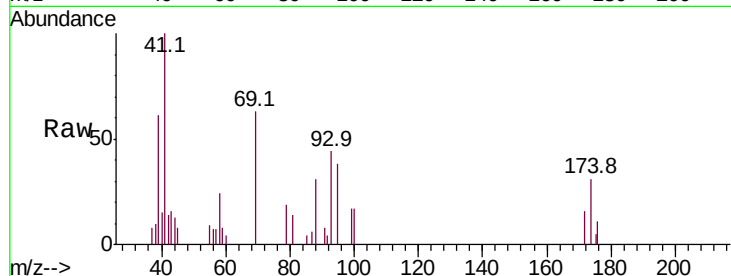
Tot Ion: 88 Resp: 2132

Ion Ratio Lower Upper

88 100

43 56.3 31.8 47.8#

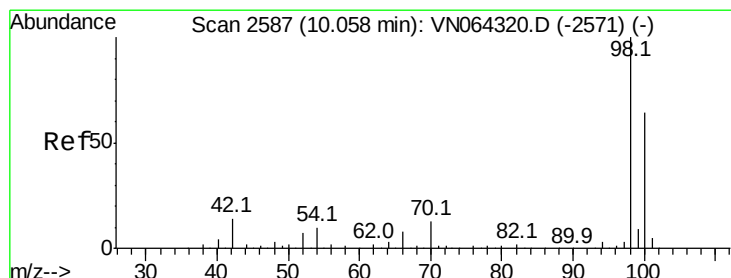
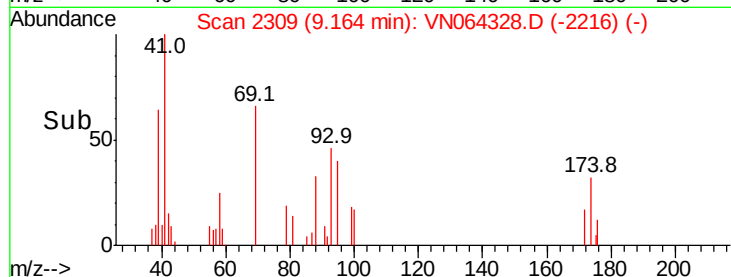
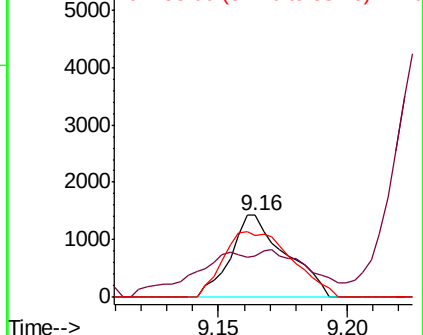
58 99.8 60.3 90.5#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.246 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064328.D

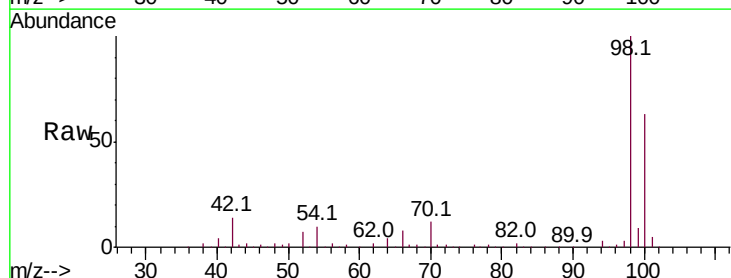
Acq: 27 Oct 2020 16:04

Tgt Ion: 98 Resp: 483263

Ion Ratio Lower Upper

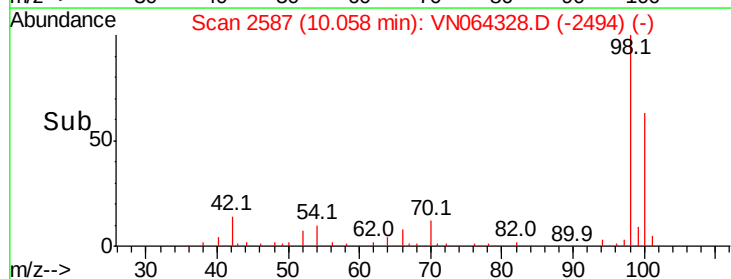
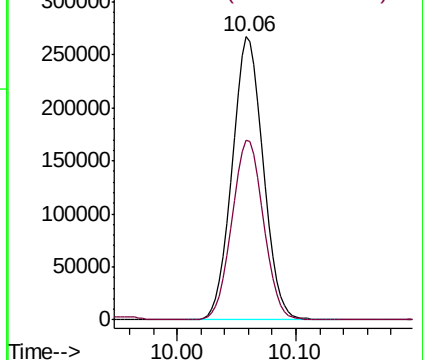
98 100

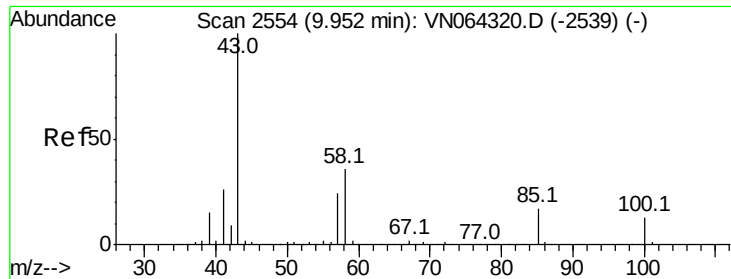
100 64.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 11.163 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

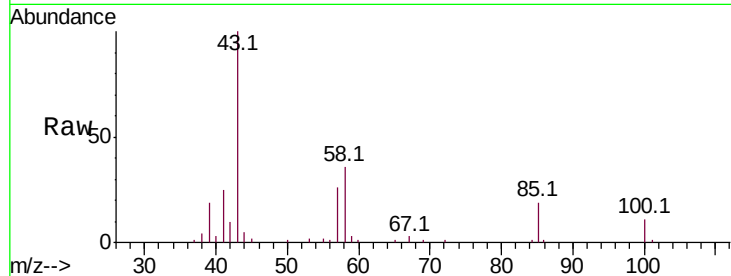
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 45918

Ion Ratio Lower Upper

43 100

58 34.5 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2539) (-)

9.95

25000

20000

15000

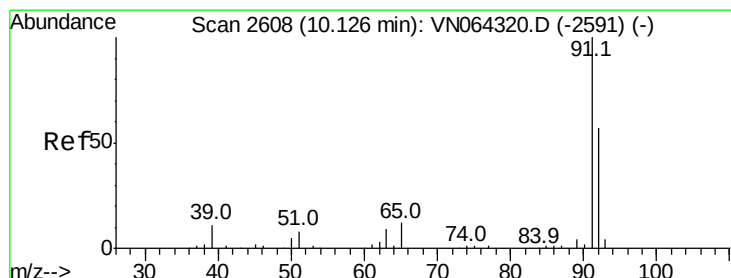
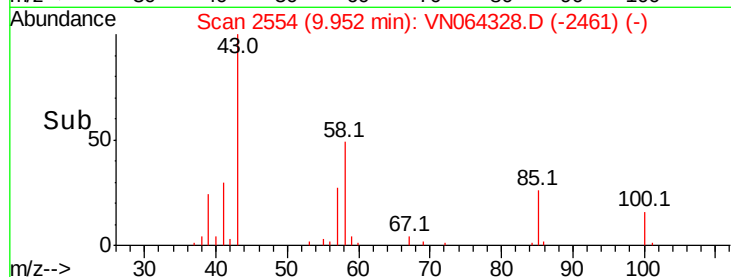
10000

5000

0

9.90 9.95 10.00

Time-->



#52

Toluene

Concen: 2.153 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN064328.D

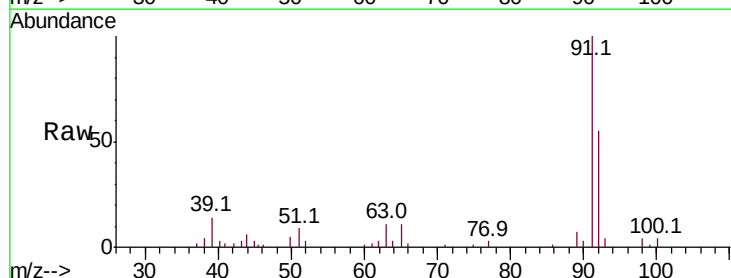
Acq: 27 Oct 2020 16:04

Tgt Ion: 92 Resp: 15497

Ion Ratio Lower Upper

92 100

91 190.2 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN064320.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN064320.D (-2591) (-)

10.13

15000

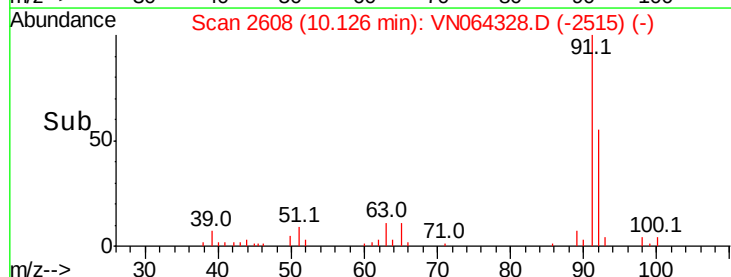
10000

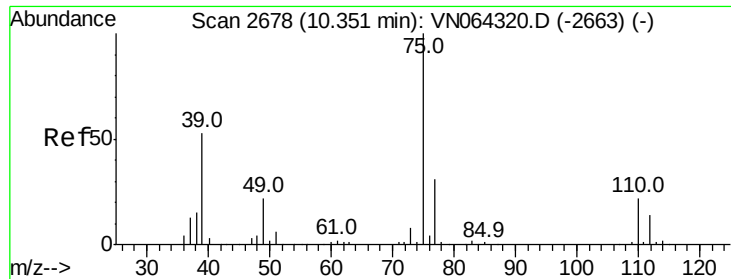
5000

0

10.05 10.10 10.15

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.399 ug/l

RT: 10.35 min Scan# 2679

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

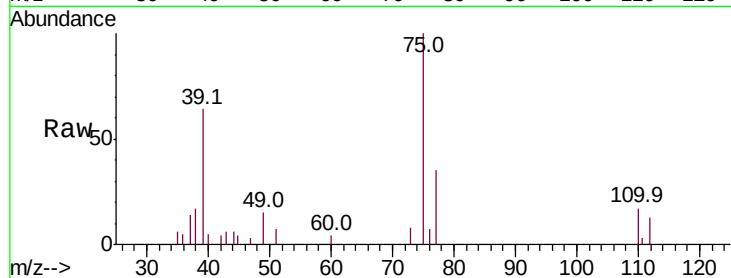
MDL-WATER-03-QT4-2020

Tot Ion: 75 Resp: 12012

Ion Ratio Lower Upper

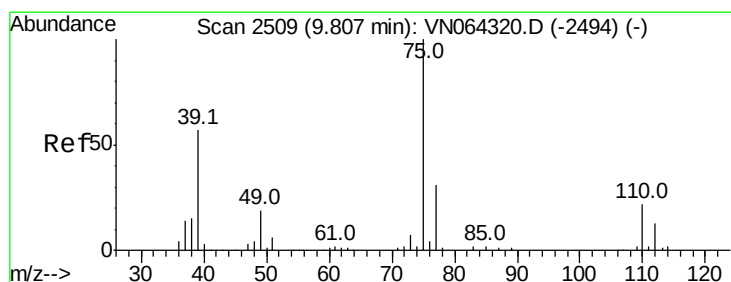
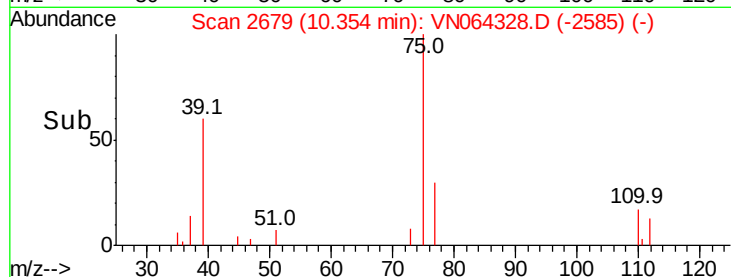
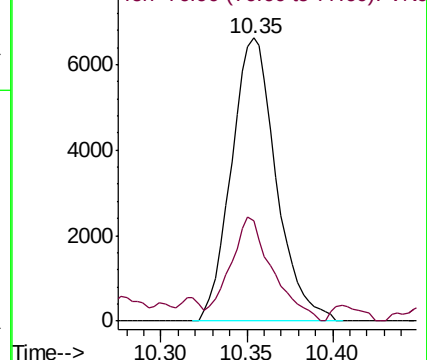
75 100

77 29.9 24.8 37.2



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 2.147 ug/l

RT: 9.80 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

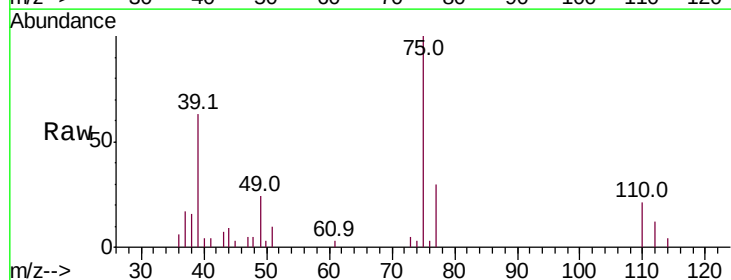
Tgt Ion: 75 Resp: 11066

Ion Ratio Lower Upper

75 100

77 30.1 25.0 37.4

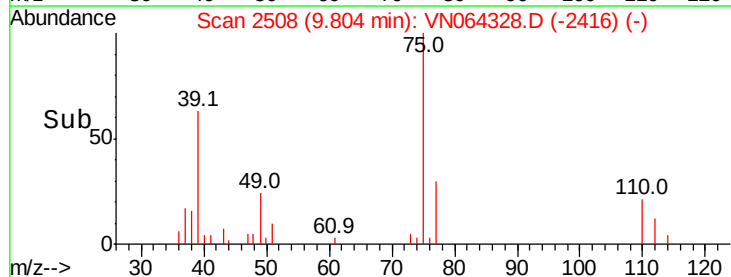
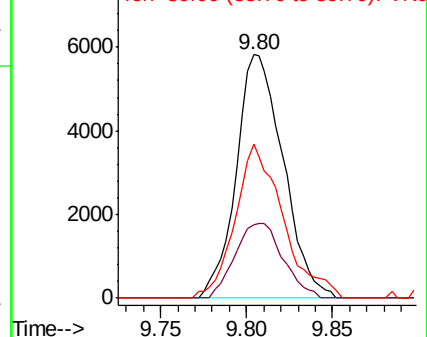
39 63.4 45.5 68.3

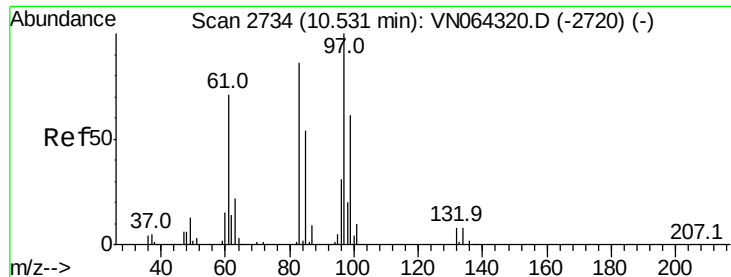


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

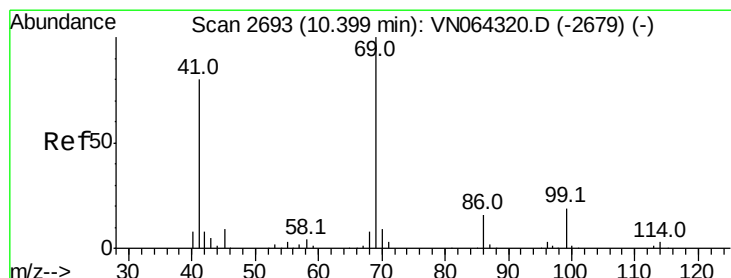
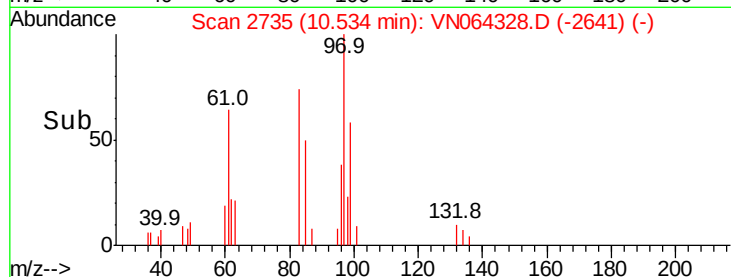
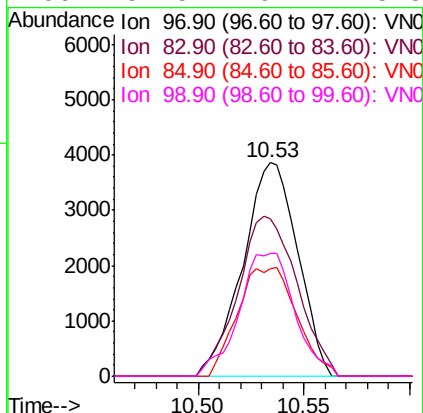
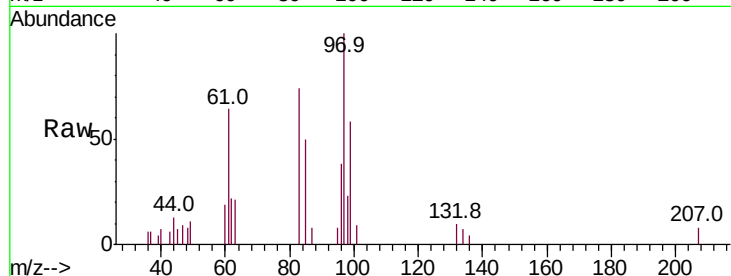




#55
 1,1,2-Trichloroethane
 Concen: 2.455 ug/l
 RT: 10.53 min Scan# 2735
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

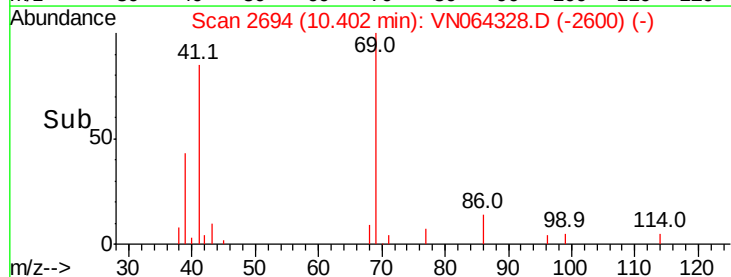
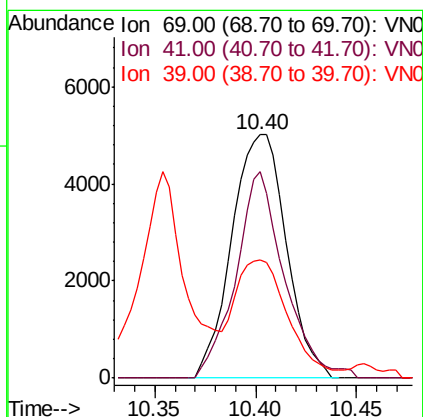
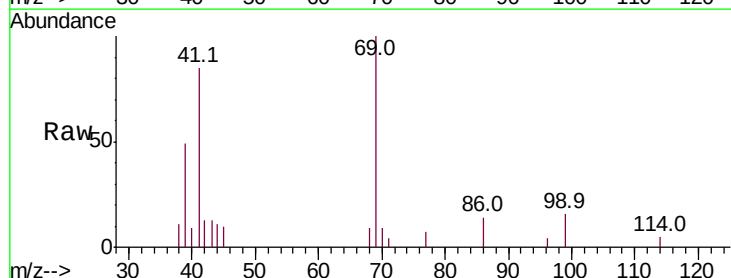
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

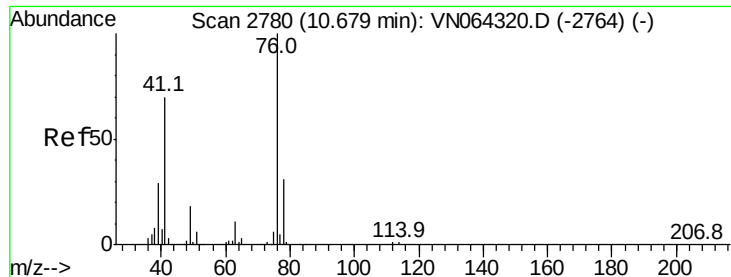
Tot Ion:	97	Resp:	6975
Ion	Ratio	Lower	Upper
97	100		
83	73.6	68.9	103.3
85	50.2	43.6	65.4
99	57.5	49.2	73.8



#56
 Ethyl methacrylate
 Concen: 2.210 ug/l
 RT: 10.40 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

Tgt Ion:	69	Resp:	9508
Ion	Ratio	Lower	Upper
69	100		
41	75.3	61.4	92.2
39	47.8	36.5	54.7





#57

1,3-Dichloropropane

Concen: 2.249 ug/l

RT: 10.68 min Scan# 2780

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

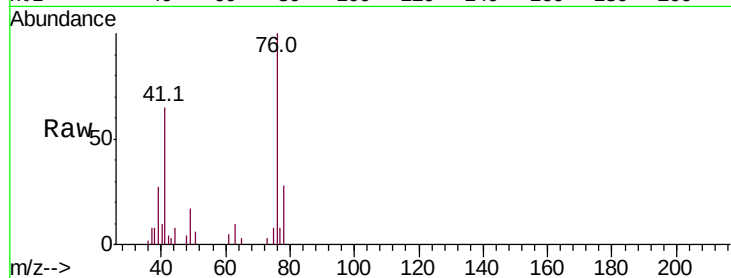
MDL-WATER-03-QT4-2020

Tot Ion: 76 Resp: 10903

Ion Ratio Lower Upper

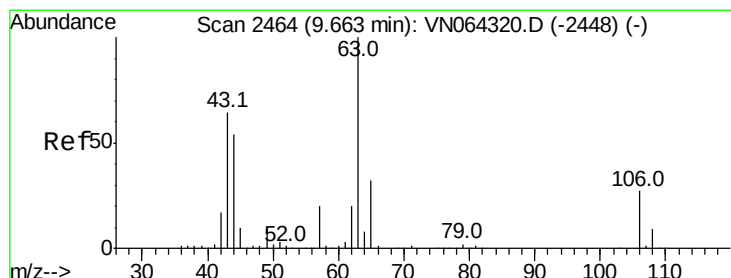
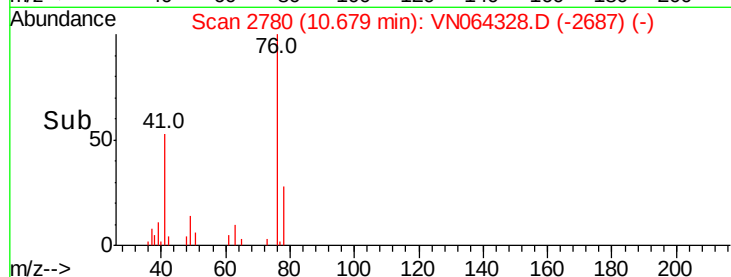
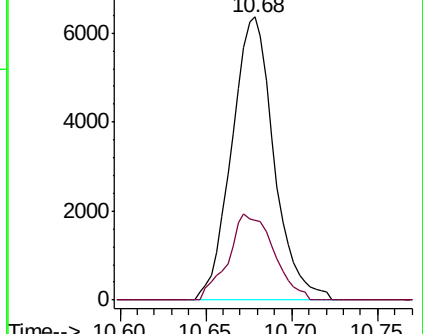
76 100

78 32.7 25.8 38.6



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 10.177 ug/l

RT: 9.66 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN064328.D

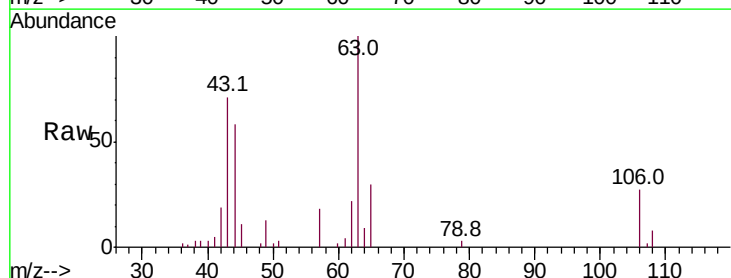
Acq: 27 Oct 2020 16:04

Tgt Ion: 63 Resp: 23887

Ion Ratio Lower Upper

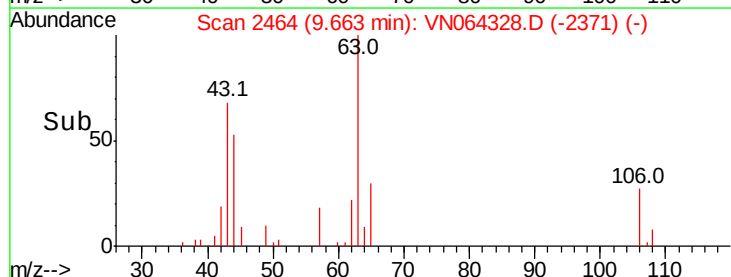
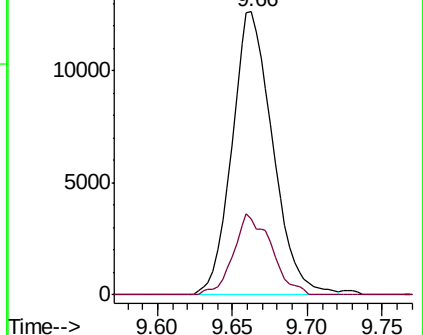
63 100

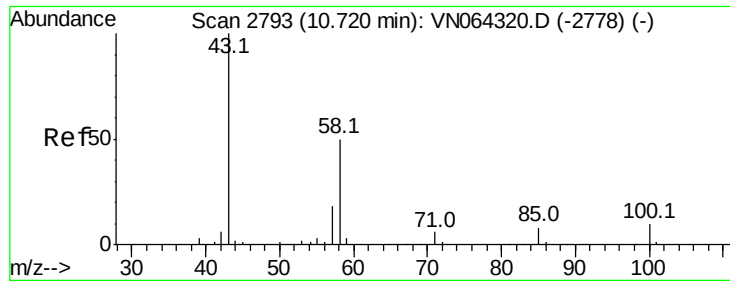
106 26.8 21.0 31.4



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

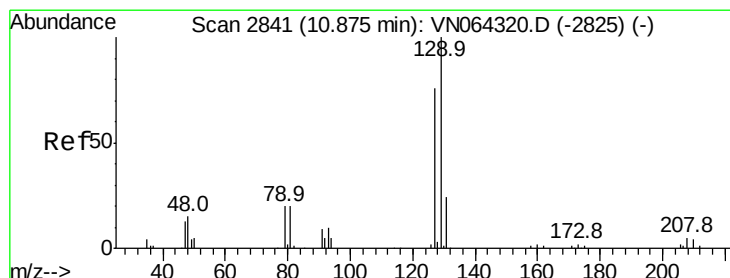
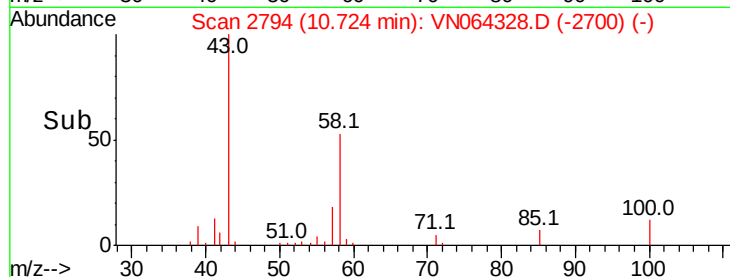
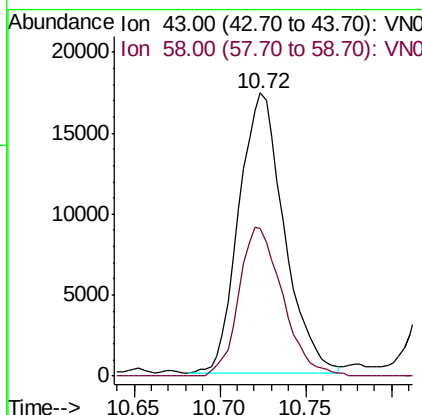
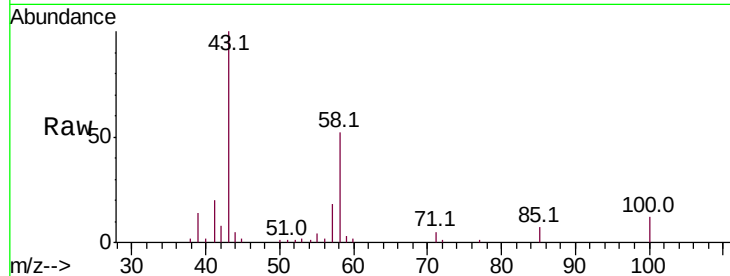




#59
2-Hexanone
Concen: 10.442 ug/l
RT: 10.72 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

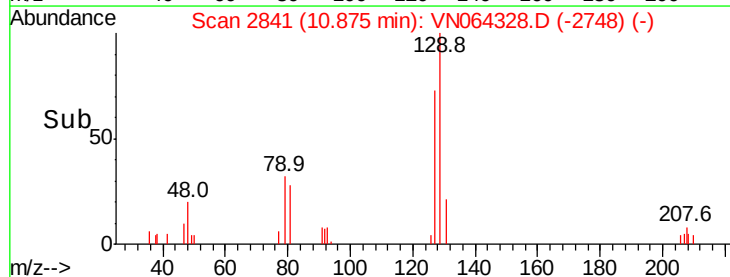
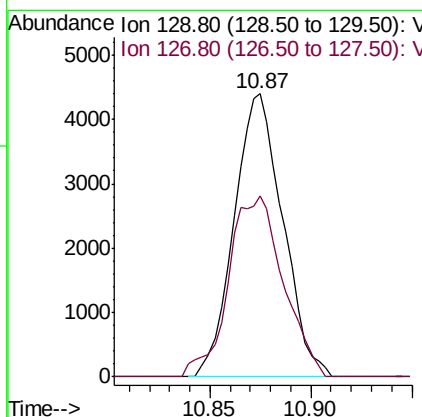
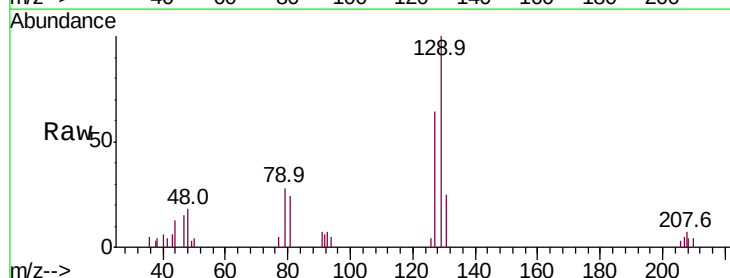
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

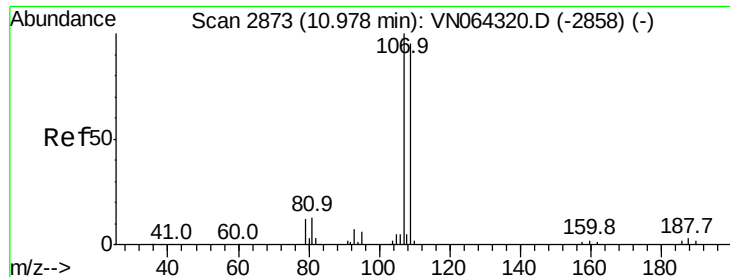
Tot Ion: 43 Resp: 31635
Ion Ratio Lower Upper
43 100
58 51.5 25.0 75.0



#60
Dibromochloromethane
Concen: 2.208 ug/l
RT: 10.87 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion: 129 Resp: 7417
Ion Ratio Lower Upper
129 100
127 71.8 38.5 115.3





#61

1,2-Dibromoethane

Concen: 2.322 ug/l

RT: 10.98 min Scan# 2874

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

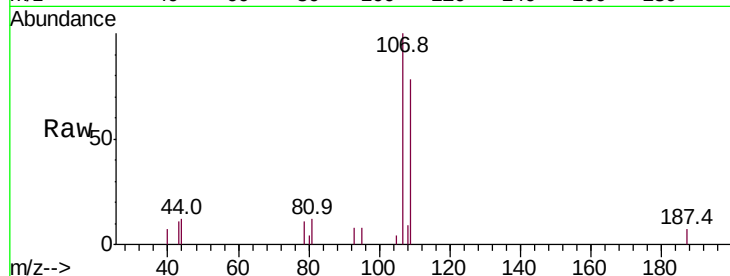
MDL-WATER-03-QT4-2020

Tot Ion:107 Resp: 6723

Ion Ratio Lower Upper

107 100

109 94.6 75.8 113.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

10.98

4000

3000

2000

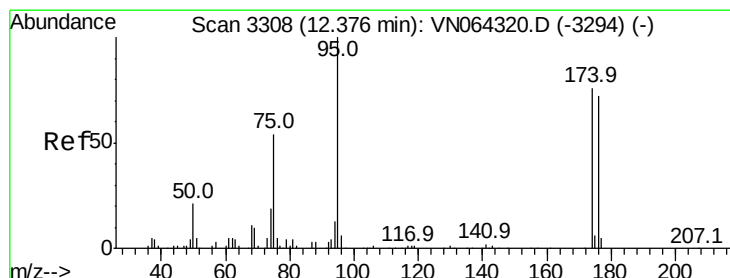
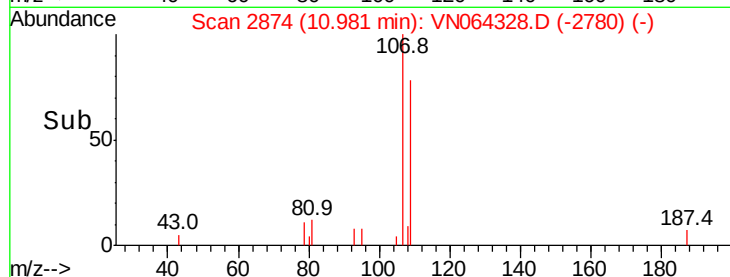
1000

0

Time-->

10.95

11.00



#62

4-Bromofluorobenzene

Concen: 46.596 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

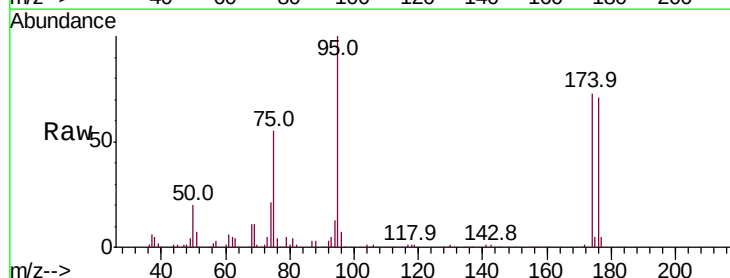
Tgt Ion: 95 Resp: 181977

Ion Ratio Lower Upper

95 100

174 73.0 0.0 147.4

176 72.0 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.38

150000

100000

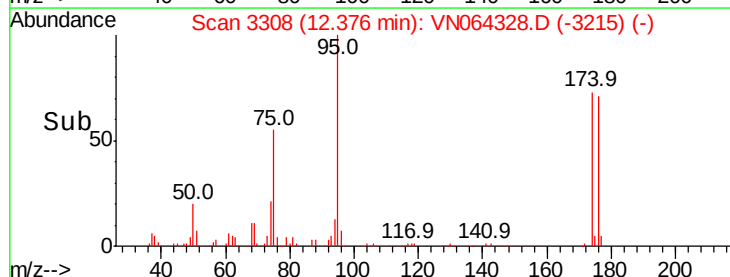
50000

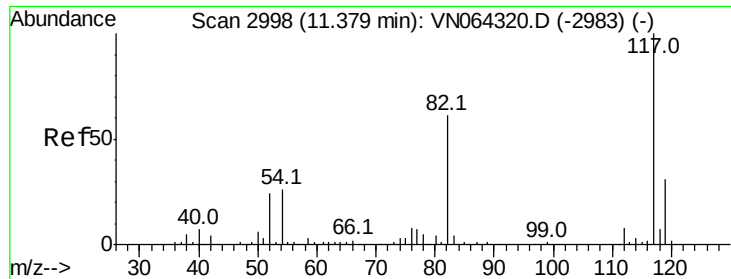
0

Time-->

12.30

12.40

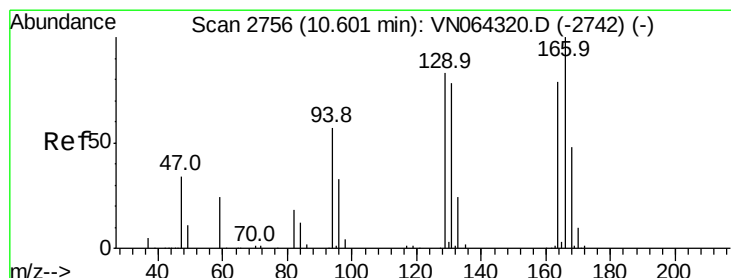
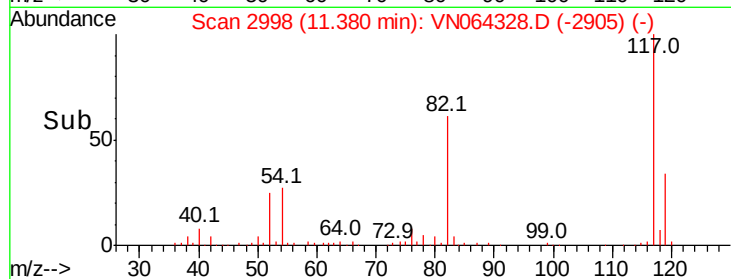
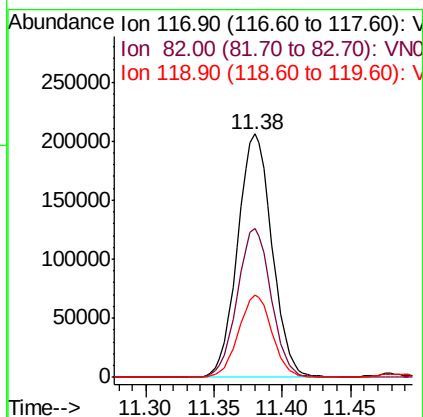
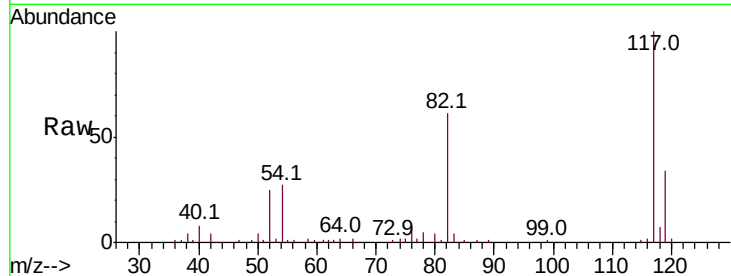




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

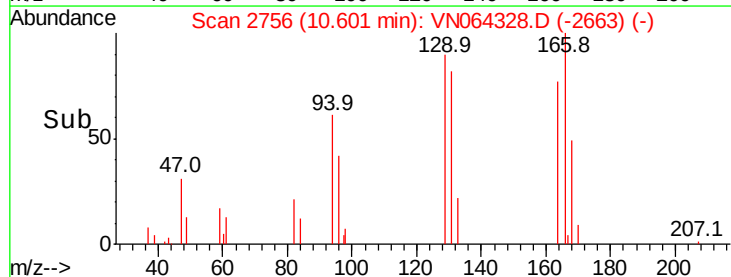
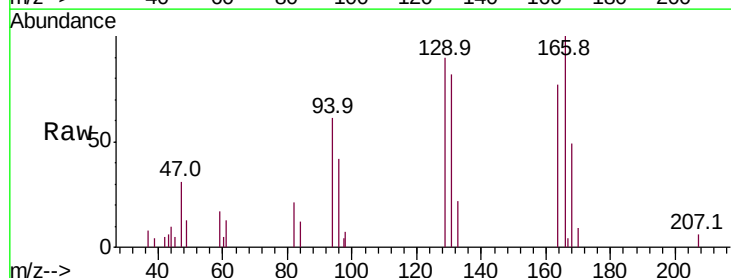
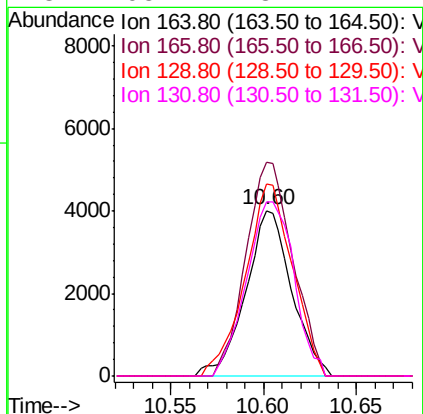
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

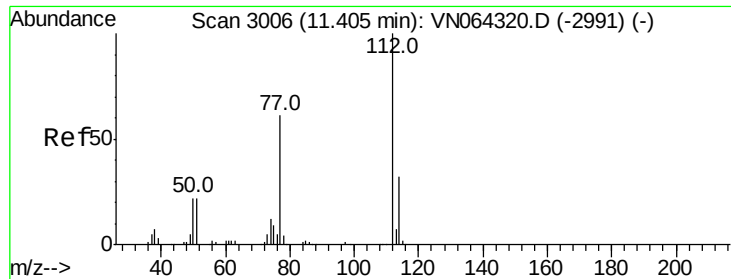
Tot Ion:117 Resp: 360921
Ion Ratio Lower Upper
117 100
82 61.3 48.8 73.2
119 33.6 25.1 37.7



#64
Tetrachloroethene
Concen: 2.311 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion:164 Resp: 6856
Ion Ratio Lower Upper
164 100
166 129.1 100.7 151.1
129 116.1 83.7 125.5
131 105.4 78.2 117.2

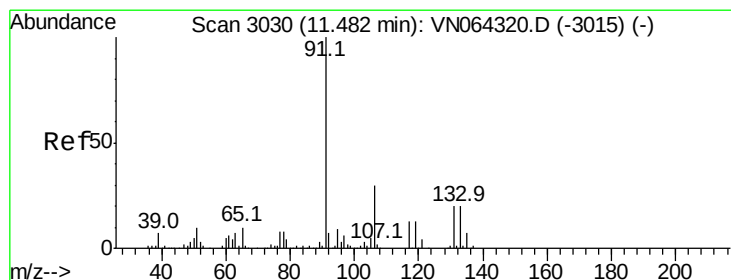
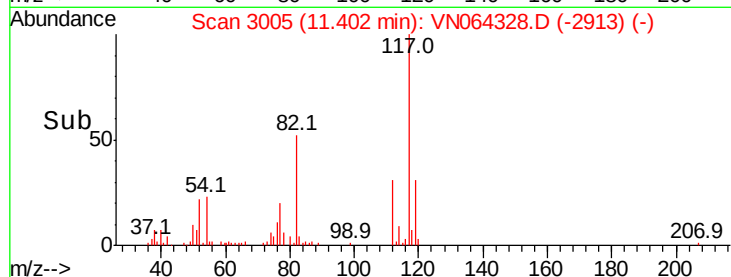
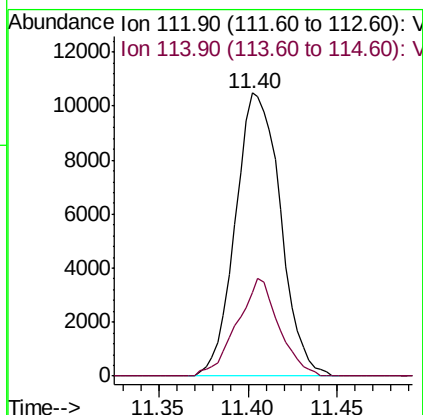
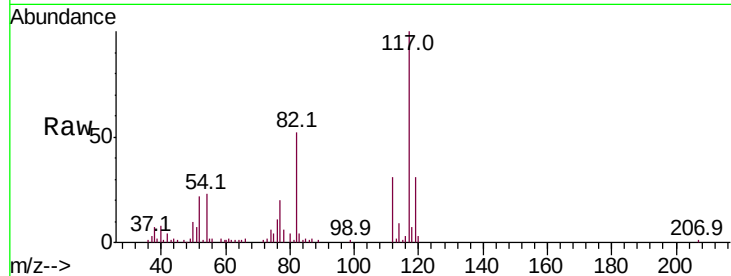




#65
Chlorobenzene
Concen: 2.522 ug/l
RT: 11.40 min Scan# 3005
Delta R.T. -0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

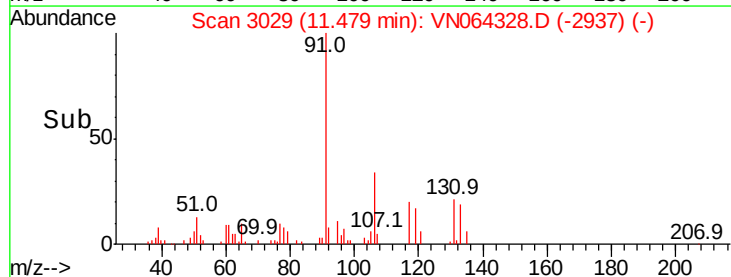
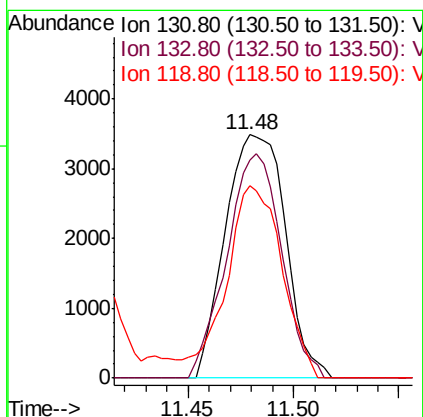
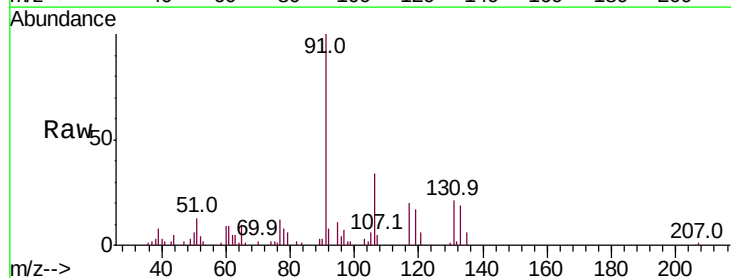
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

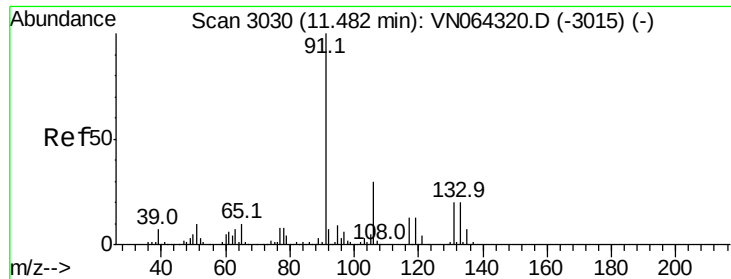
Tot Ion:112 Resp: 18457
Ion Ratio Lower Upper
112 100
114 29.7 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 2.339 ug/l
RT: 11.48 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion:131 Resp: 6918
Ion Ratio Lower Upper
131 100
133 84.0 49.3 147.8
119 73.3 32.3 96.9

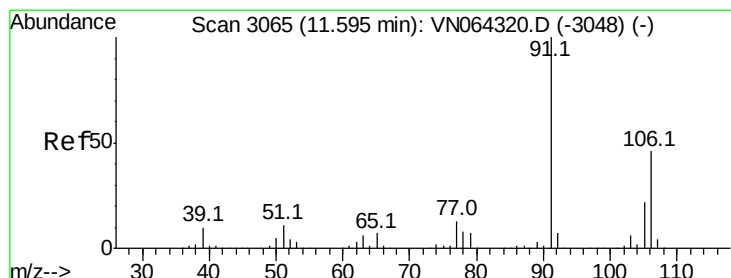
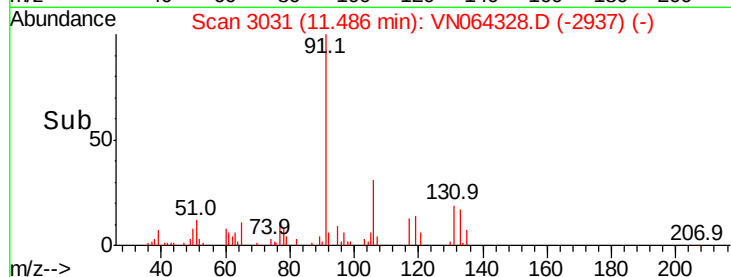
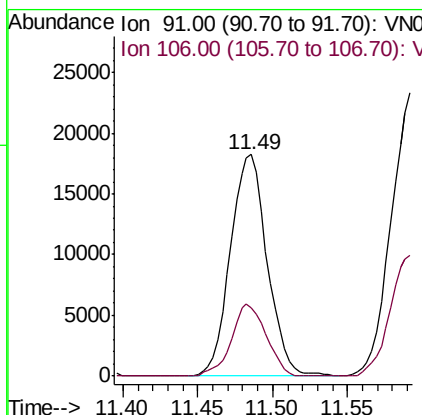
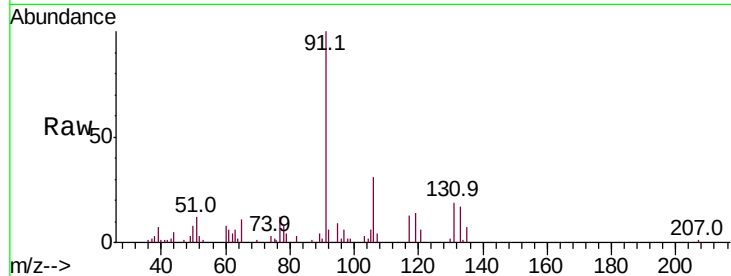




#67
Ethyl Benzene
Concen: 2.296 ug/l
RT: 11.49 min Scan# 3031
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

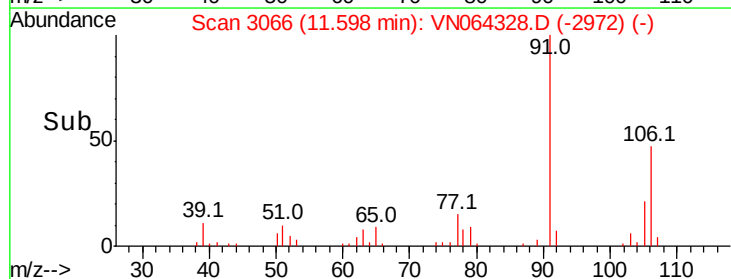
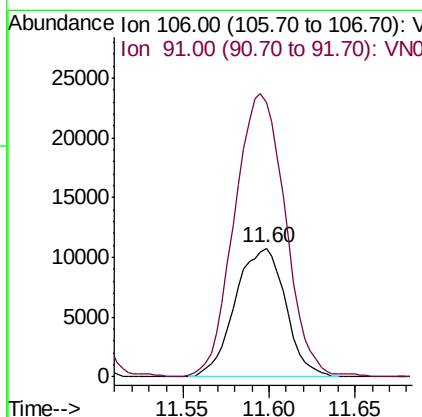
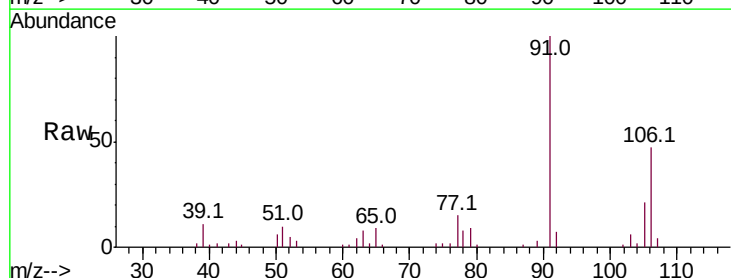
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

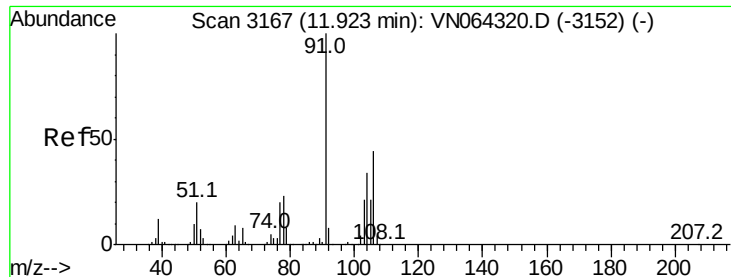
Tot Ion: 91 Resp: 31229
Ion Ratio Lower Upper
91 100
106 30.9 23.7 35.5



#68
m/p-Xylenes
Concen: 4.328 ug/l
RT: 11.60 min Scan# 3066
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion: 106 Resp: 21818
Ion Ratio Lower Upper
106 100
91 222.8 170.2 255.4

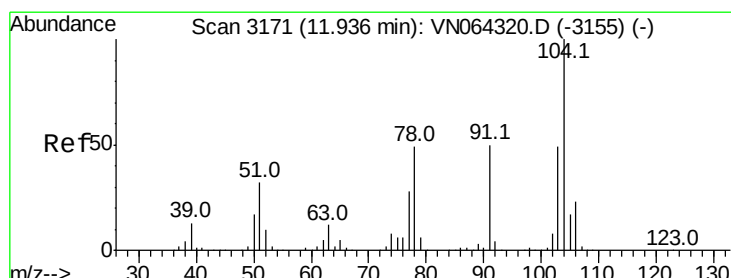
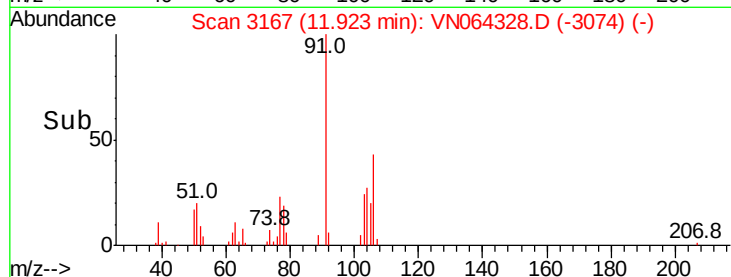
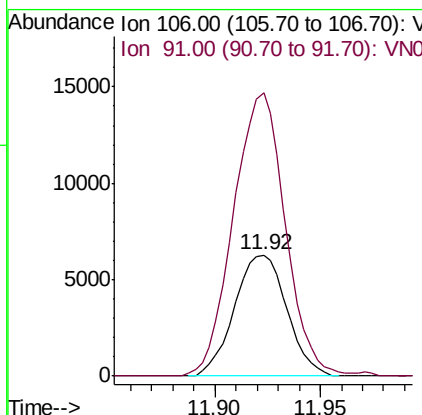
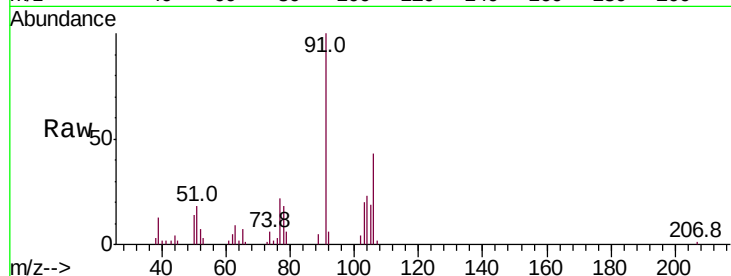




#69
o-Xylene
Concen: 2.228 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

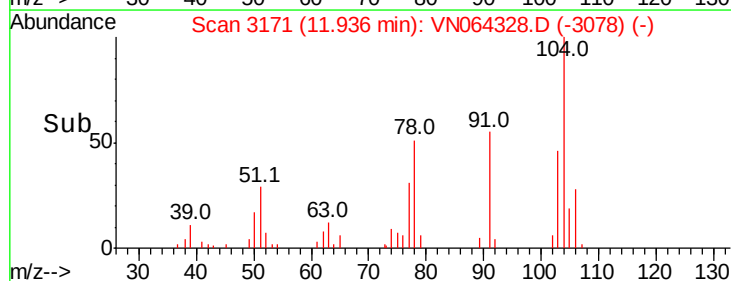
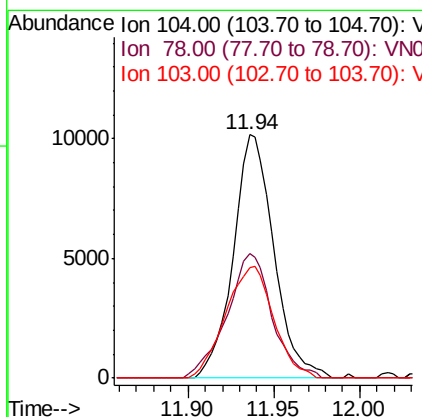
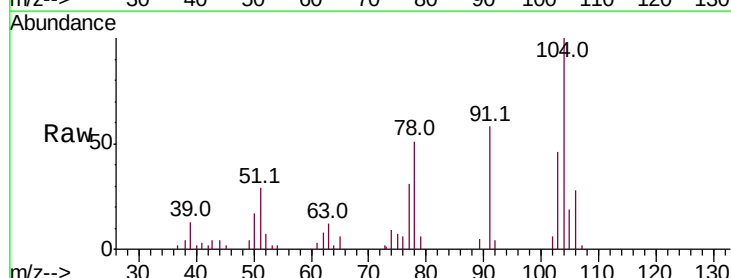
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

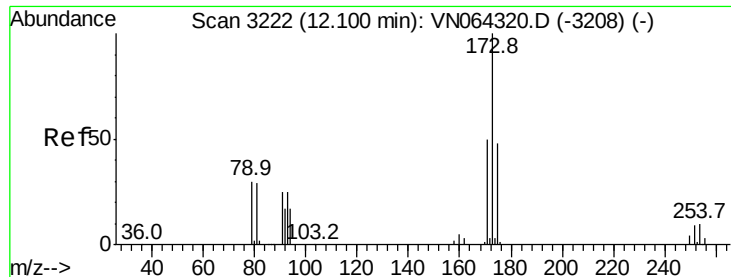
Tot Ion:106 Resp: 10820
Ion Ratio Lower Upper
106 100
91 232.0 114.5 343.5



#70
Styrene
Concen: 2.100 ug/l
RT: 11.94 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion:104 Resp: 16720
Ion Ratio Lower Upper
104 100
78 57.2 43.7 65.5
103 54.3 43.3 64.9

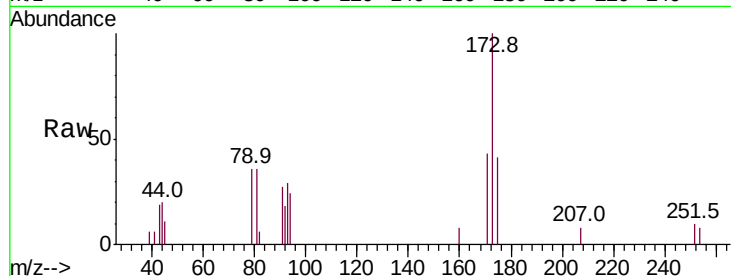




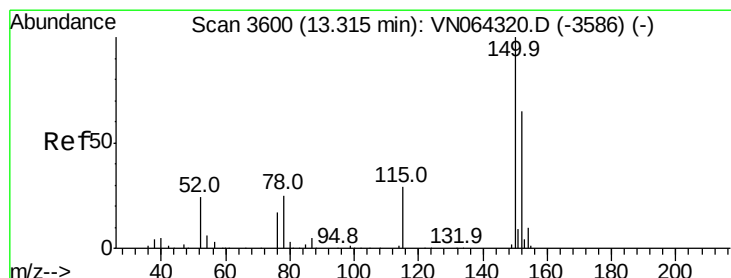
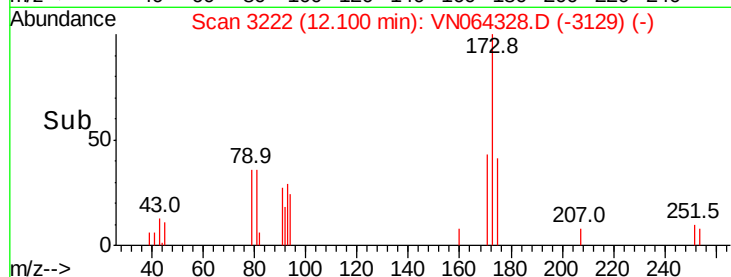
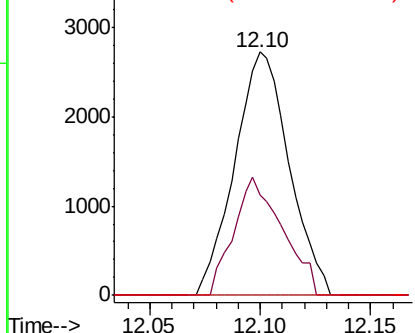
#71
Bromoform
Concen: 2.011 ug/l
RT: 12.10 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

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

Tot Ion:173 Resp: 4667
Ion Ratio Lower Upper
173 100
175 43.2 25.4 76.0
254 0.0 0.0 0.0

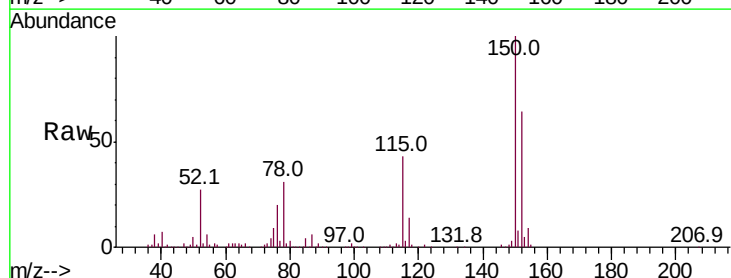


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

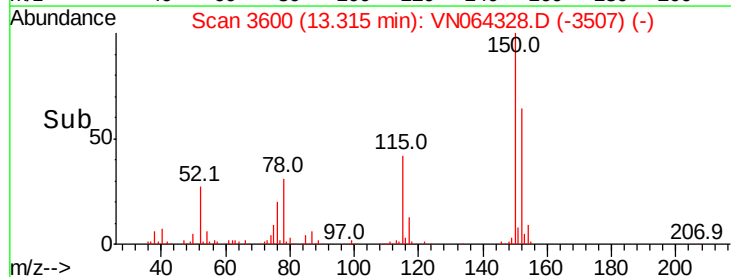
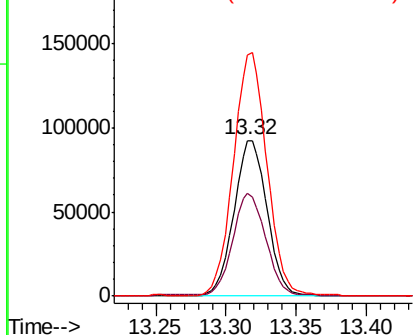


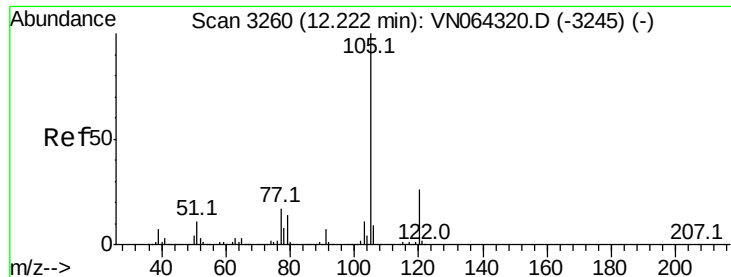
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion:152 Resp: 152851
Ion Ratio Lower Upper
152 100
115 65.6 31.5 94.5
150 157.7 0.0 346.2



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





#73

Isopropylbenzene

Concen: 2.591 ug/l

RT: 12.22 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

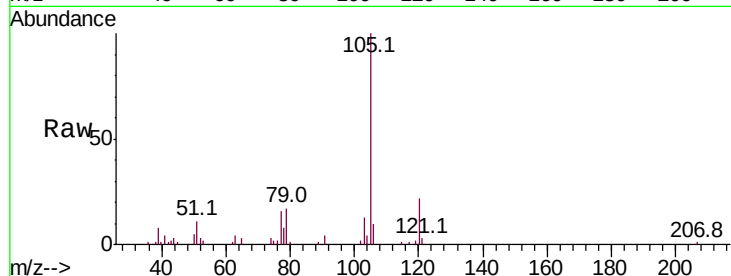
MDL-WATER-03-QT4-2020

Tot Ion:105 Resp: 29667

Ion Ratio Lower Upper

105 100

120 24.6 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

20000

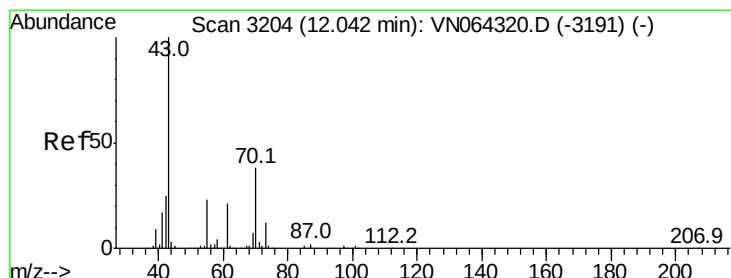
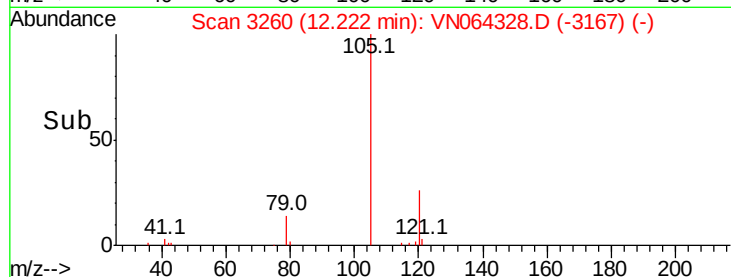
15000

10000

5000

0

Time--> 12.15 12.20 12.25



#74

N-ethyl acetate

Concen: 2.388 ug/l

RT: 12.05 min Scan# 3207

Delta R.T. 0.01 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Tgt Ion: 43 Resp: 12031

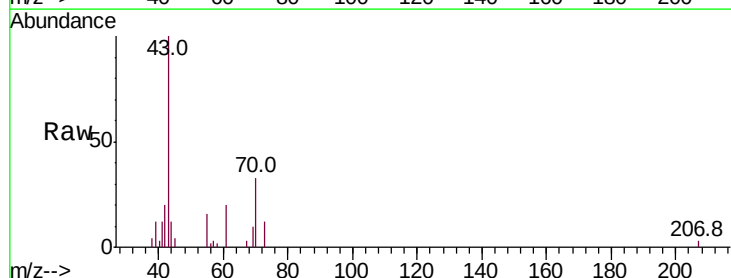
Ion Ratio Lower Upper

43 100

70 32.9 30.6 45.8

55 19.6 18.2 27.4

61 18.7 17.6 26.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

10000

8000

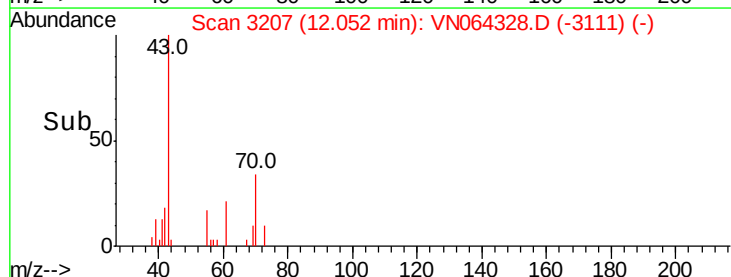
6000

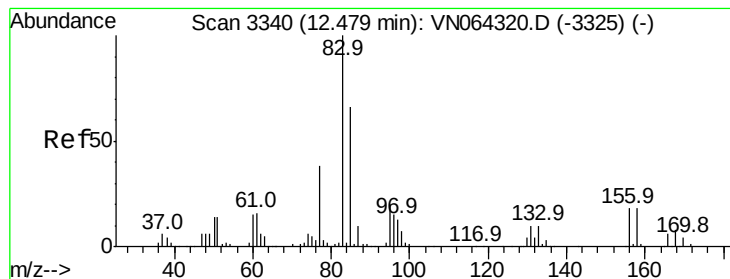
4000

2000

0

Time--> 12.00 12.05 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 2.663 ug/l

RT: 12.48 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

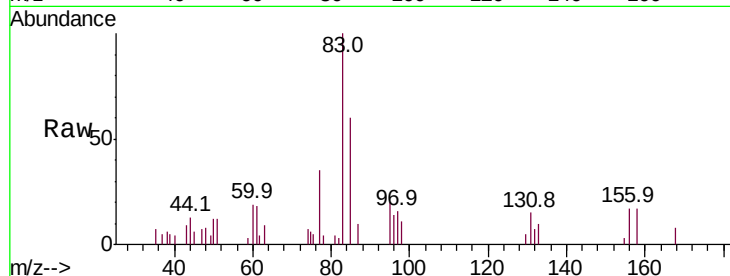
Tot Ion: 83 Resp: 8863

Ion Ratio Lower Upper

83 100

131 11.5 5.4 16.2

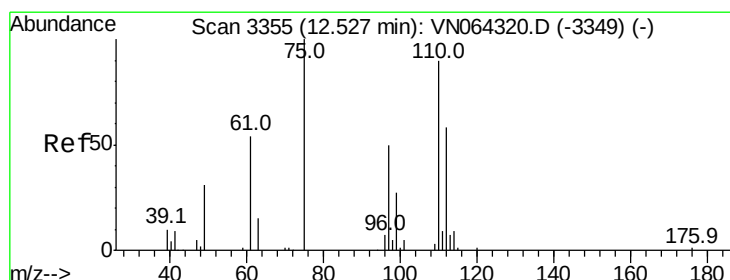
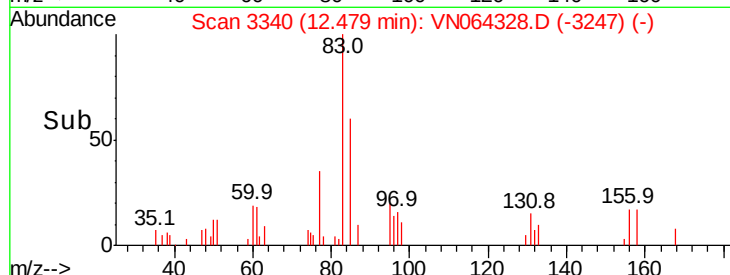
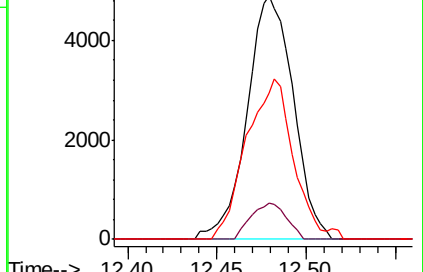
85 67.0 33.0 98.9



Abundance Ion 82.90 (82.60 to 83.60): VN064320.D (-3325) (-)

Ion 130.80 (130.50 to 131.50): VN064320.D (-3325) (-)

Ion 84.90 (84.60 to 85.60): VN064320.D (-3325) (-)



#76

1,2,3-Trichloropropane

Concen: 3.466 ug/l

RT: 12.52 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN064328.D

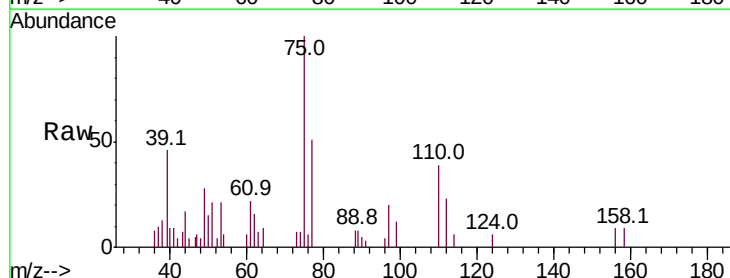
Acq: 27 Oct 2020 16:04

Tgt Ion: 75 Resp: 12687

Ion Ratio Lower Upper

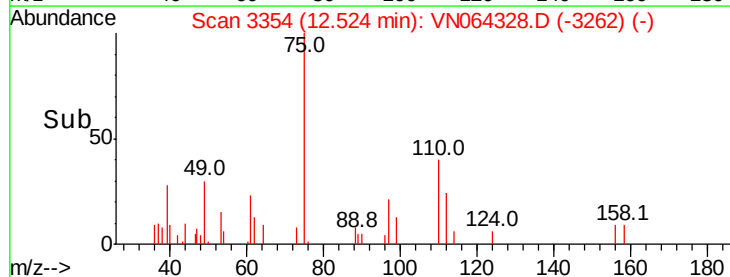
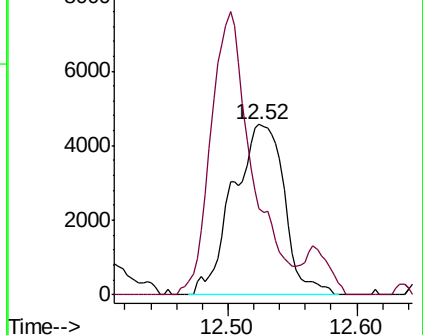
75 100

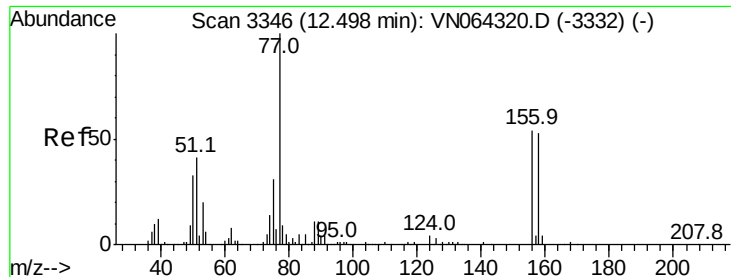
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN064320.D (-3349) (-)





#77

Bromobenzene

Concen: 2.685 ug/l

RT: 12.50 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

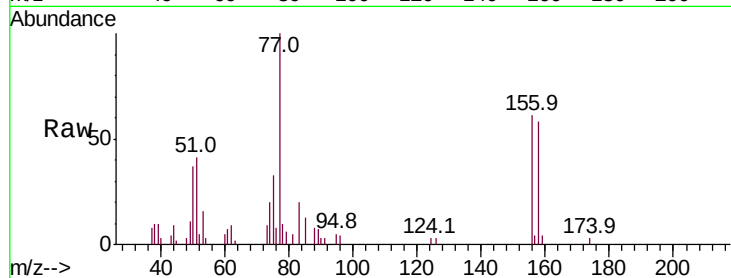
Tot Ion:156 Resp: 7527

Ion Ratio Lower Upper

156 100

77 223.2 111.9 335.7

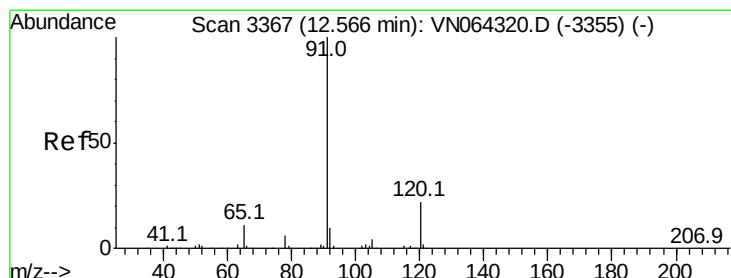
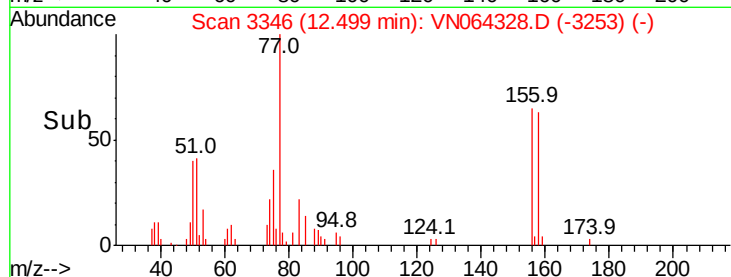
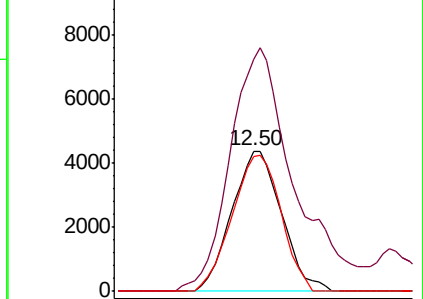
158 95.5 49.0 147.0



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.403 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. 0.00 min

Lab File: VN064328.D

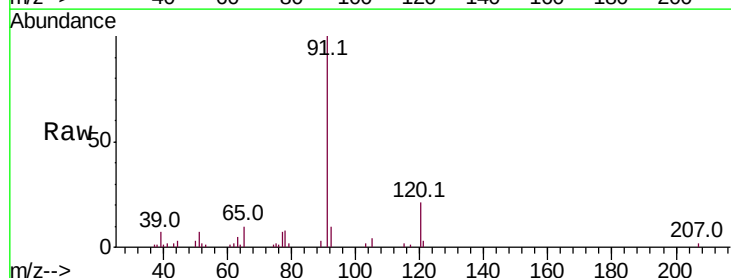
Acq: 27 Oct 2020 16:04

Tgt Ion: 91 Resp: 31142

Ion Ratio Lower Upper

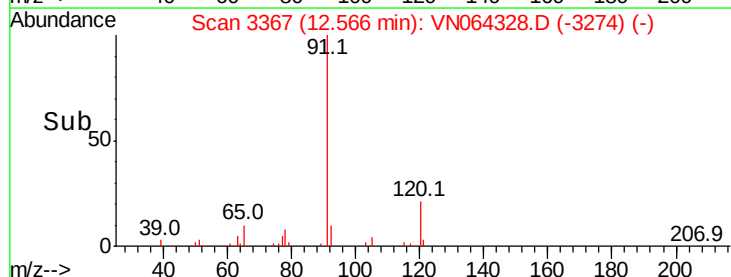
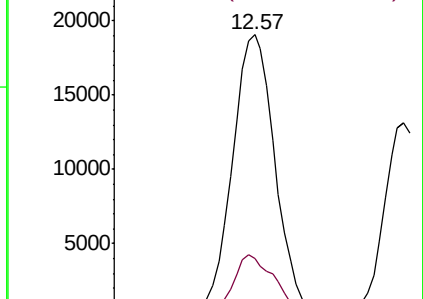
91 100

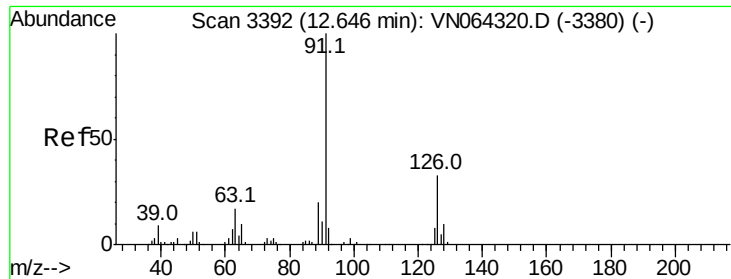
120 22.1 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.701 ug/l

RT: 12.65 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

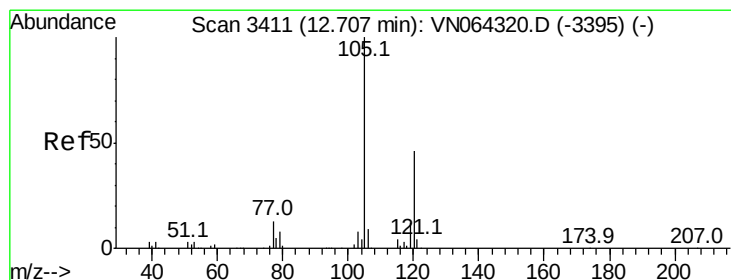
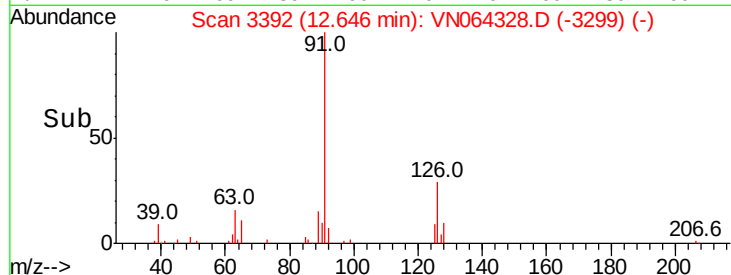
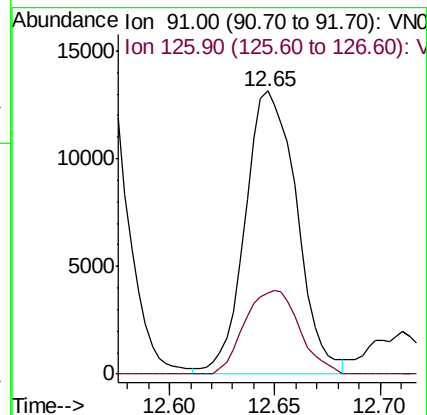
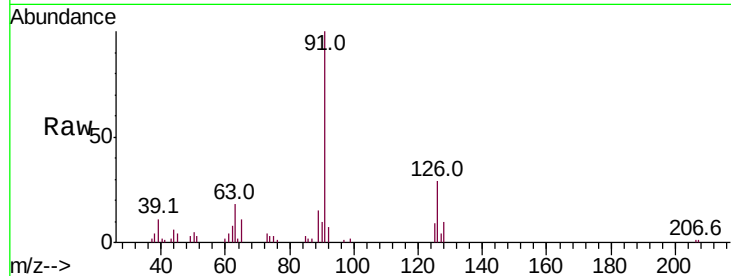
MDL-WATER-03-QT4-2020

Tot Ion: 91 Resp: 22376

Ion Ratio Lower Upper

91 100

126 31.4 16.2 48.5



#80

1,3,5-Trimethylbenzene

Concen: 2.584 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064328.D

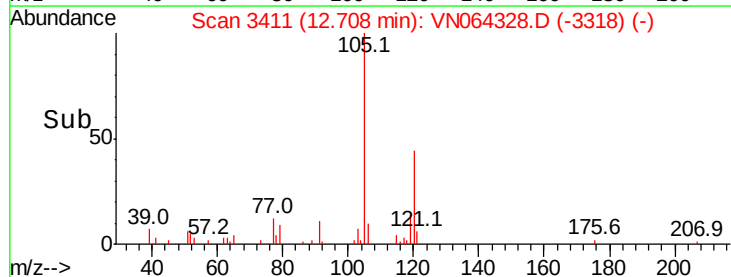
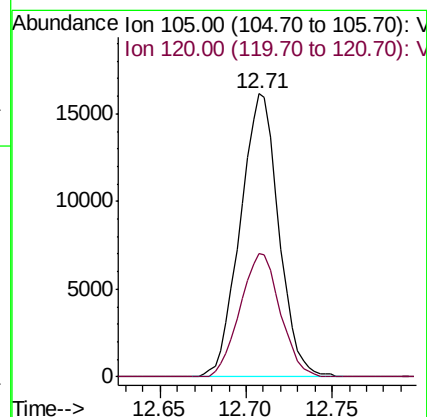
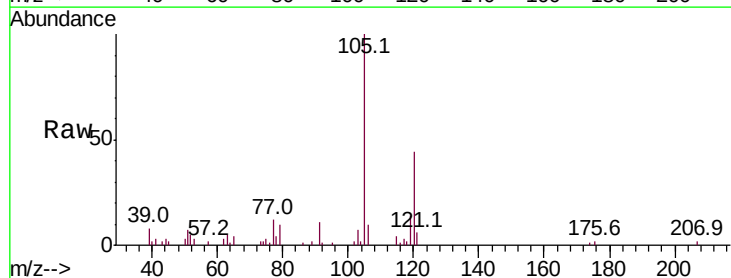
Acq: 27 Oct 2020 16:04

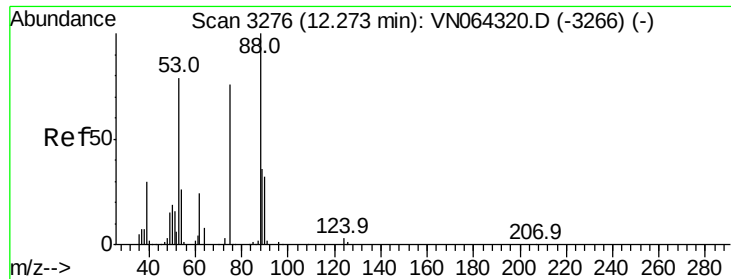
Tgt Ion: 105 Resp: 25026

Ion Ratio Lower Upper

105 100

120 45.3 22.9 68.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.551 ug/l

RT: 12.27 min Scan# 3276

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

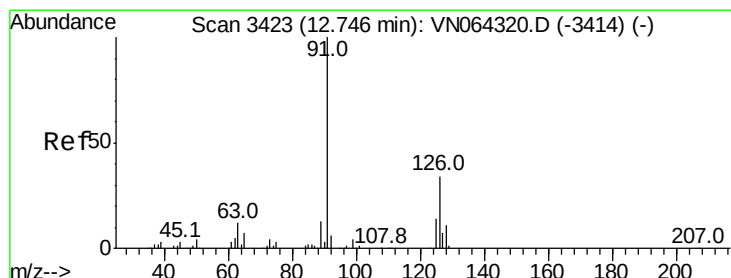
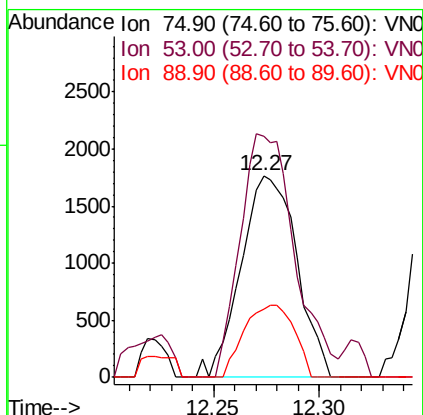
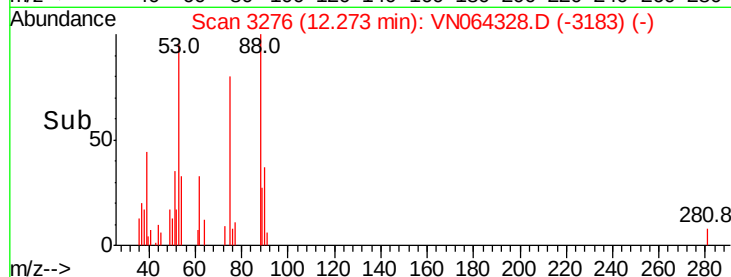
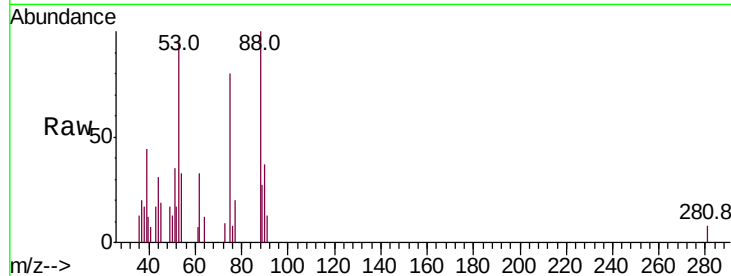
Tot Ion: 75 Resp: 3241

Ion Ratio Lower Upper

75 100

53 118.3 81.8 122.8

89 32.0 39.9 59.9#



#82

4-Chlorotoluene

Concen: 2.544 ug/l

RT: 12.75 min Scan# 3423

Delta R.T. 0.00 min

Lab File: VN064328.D

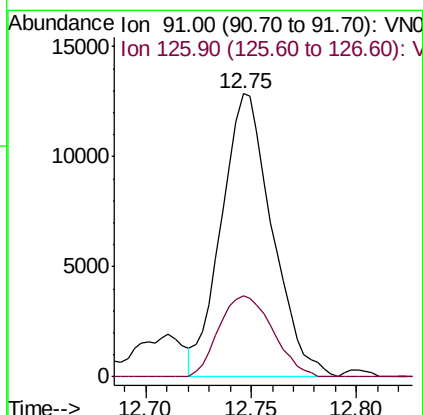
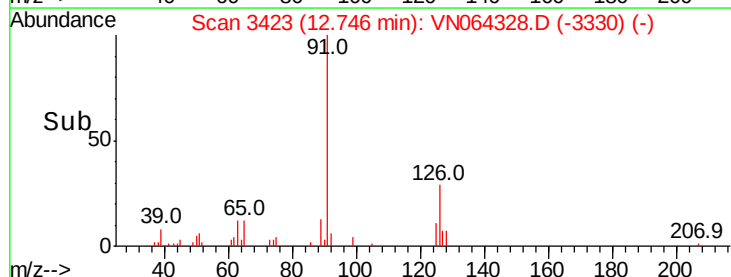
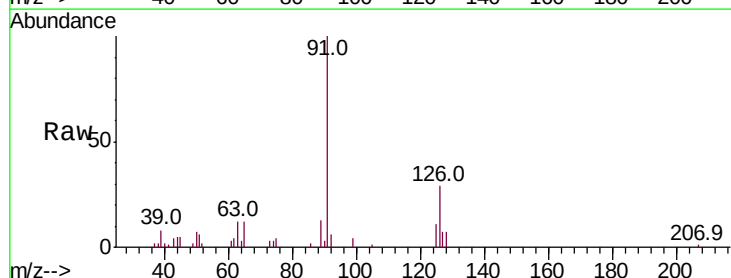
Acq: 27 Oct 2020 16:04

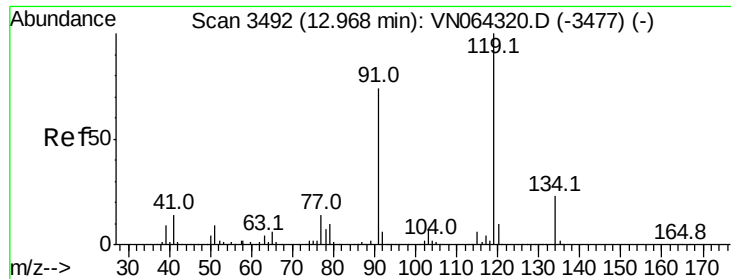
Tgt Ion: 91 Resp: 21471

Ion Ratio Lower Upper

91 100

126 30.4 15.8 47.3





#83

tert-Butylbenzene

Concen: 2.469 ug/l

RT: 12.97 min Scan# 3492

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

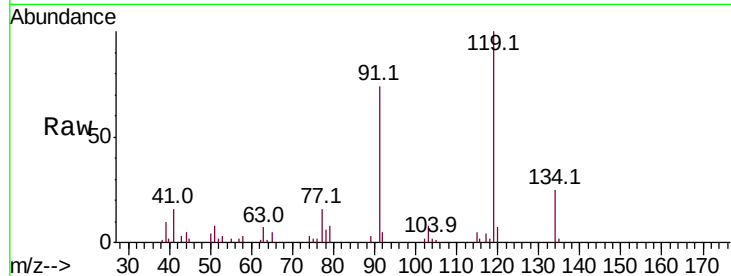
Tot Ion:119 Resp: 19622

Ion Ratio Lower Upper

119 100

91 73.9 36.4 109.1

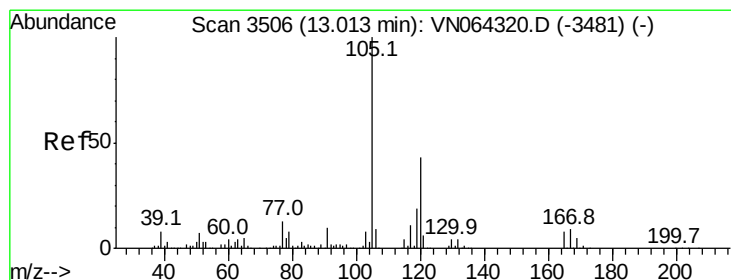
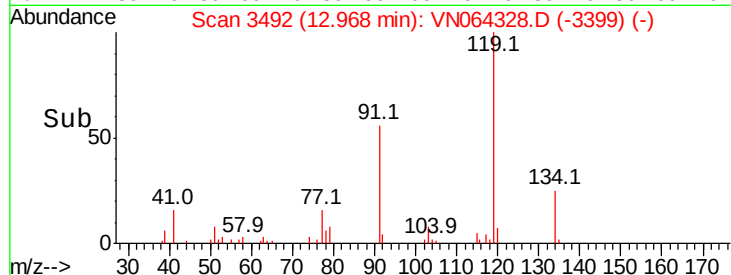
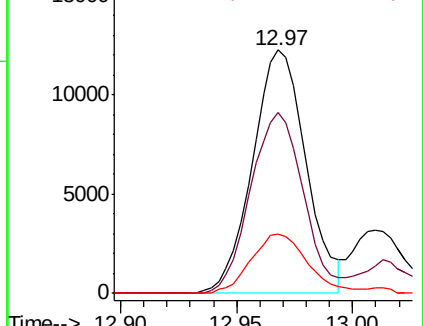
134 25.6 12.0 36.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.184 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN064328.D

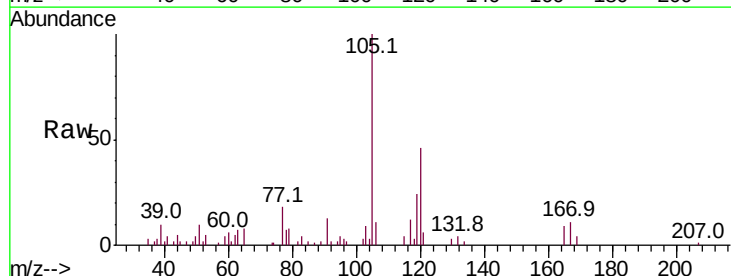
Acq: 27 Oct 2020 16:04

Tgt Ion:105 Resp: 21144

Ion Ratio Lower Upper

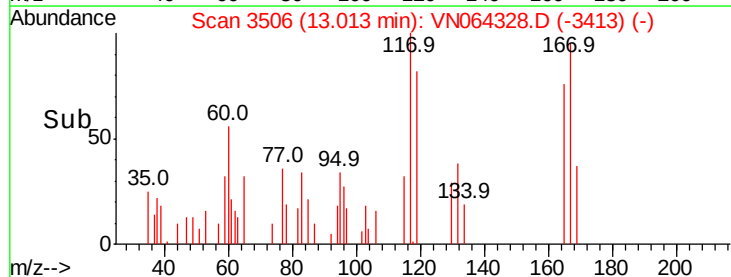
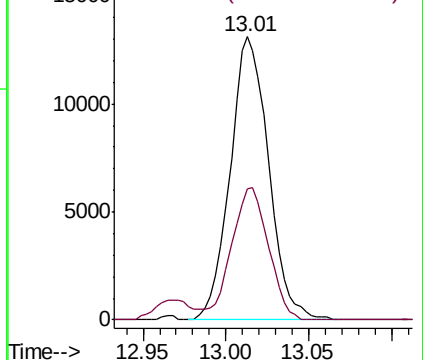
105 100

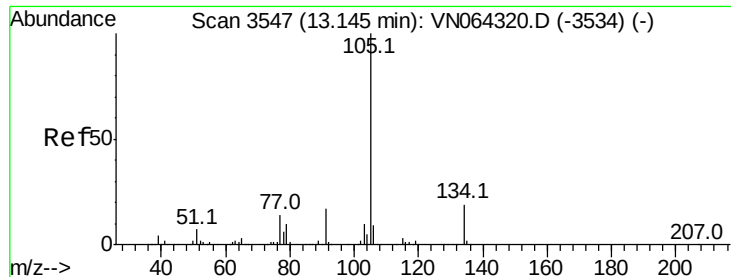
120 44.6 21.3 64.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.283 ug/l

RT: 13.14 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

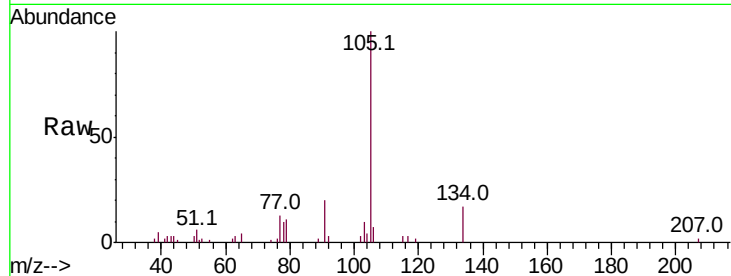
MDL-WATER-03-QT4-2020

Tot Ion:105 Resp: 23484

Ion Ratio Lower Upper

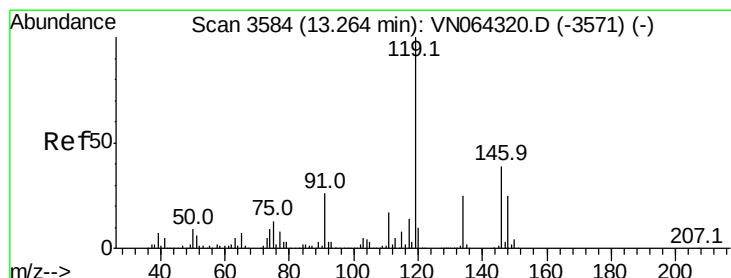
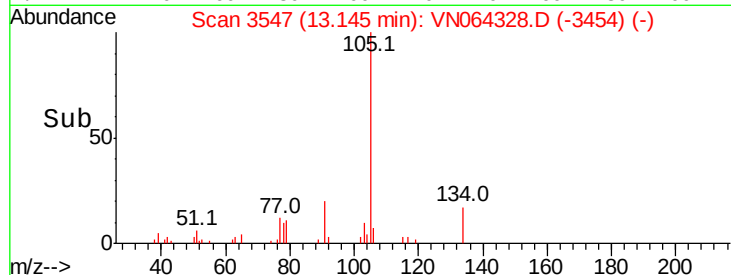
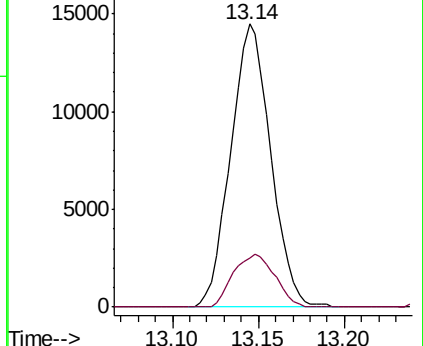
105 100

134 19.4 9.6 28.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.347 ug/l

RT: 13.26 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

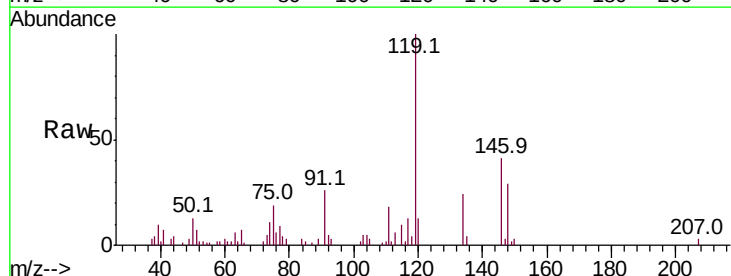
Tgt Ion:119 Resp: 21750

Ion Ratio Lower Upper

119 100

134 23.8 12.8 38.4

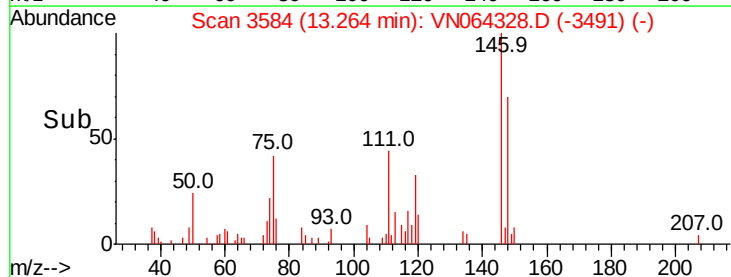
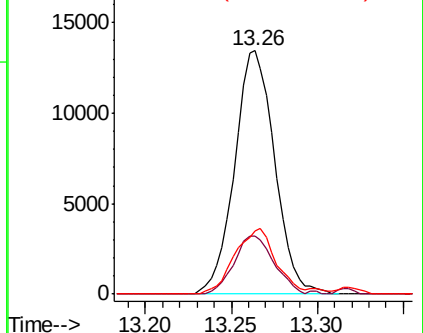
91 28.3 13.0 38.9

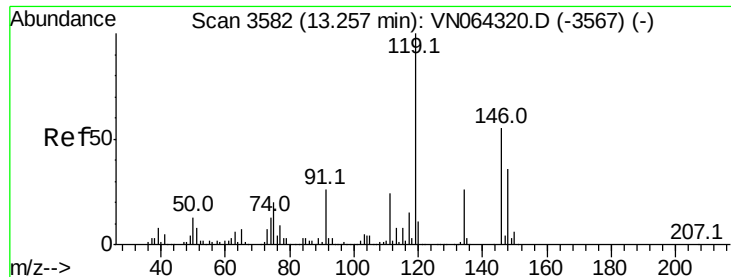


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 2.457 ug/l

RT: 13.26 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

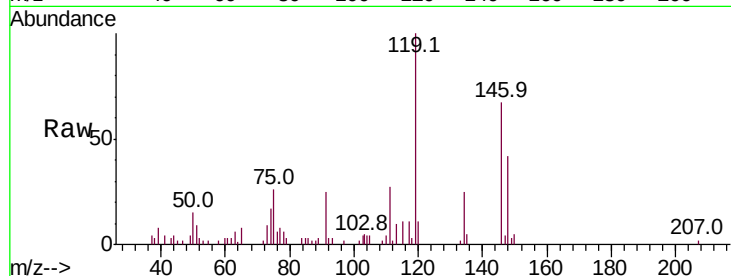
Tot Ion:146 Resp: 12057

Ion Ratio Lower Upper

146 100

111 43.2 21.9 65.5

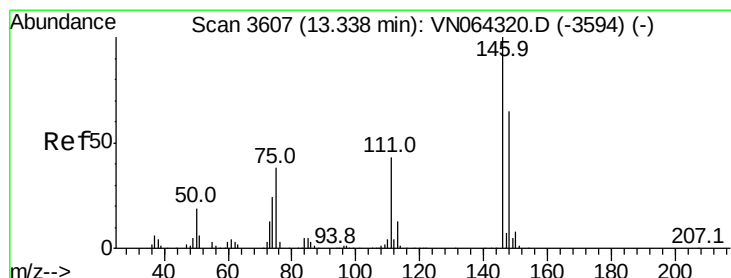
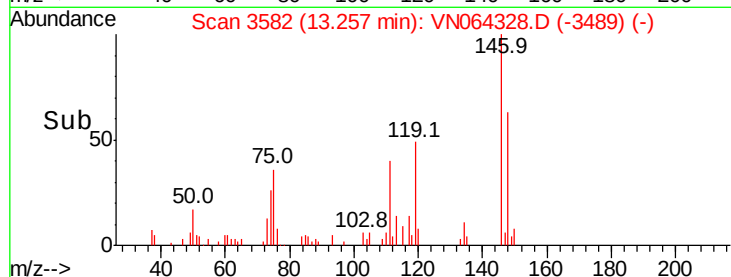
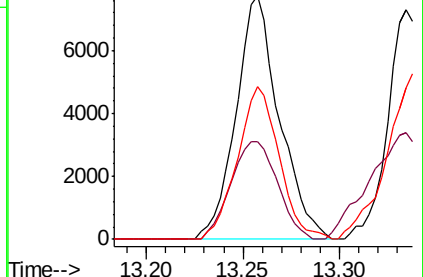
148 60.4 32.6 98.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 2.421 ug/l

RT: 13.33 min Scan# 3606

Delta R.T. -0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

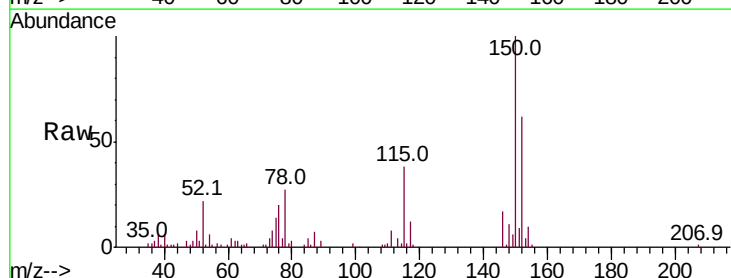
Tgt Ion:146 Resp: 12101

Ion Ratio Lower Upper

146 100

111 61.1 21.8 65.4

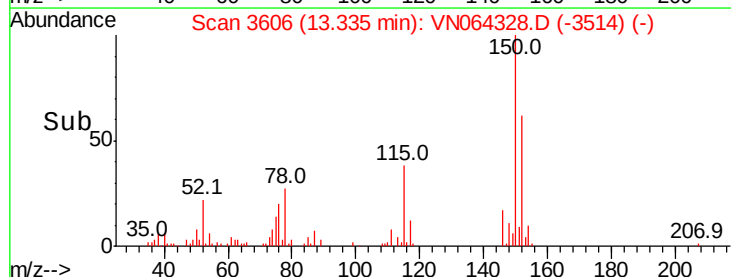
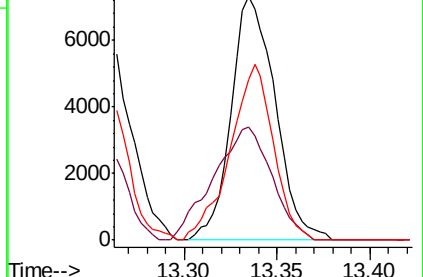
148 70.7 31.8 95.3

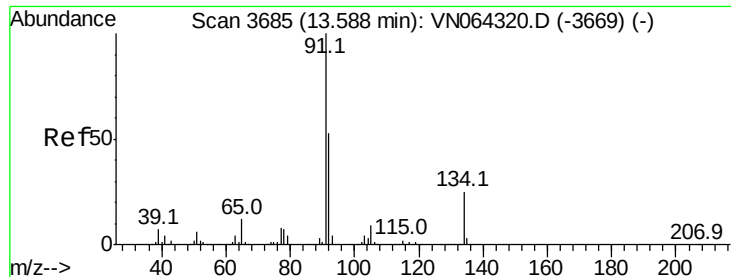


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 2.202 ug/l

RT: 13.59 min Scan# 3686

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

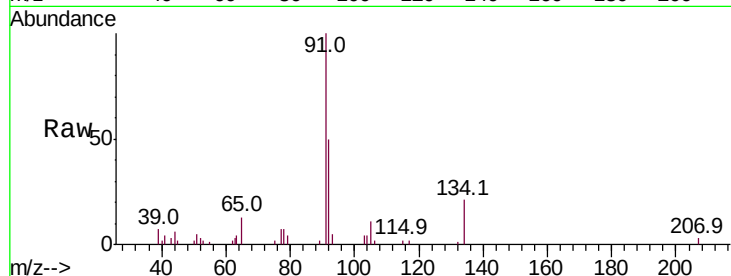
Tot Ion: 91 Resp: 17975

Ion Ratio Lower Upper

91 100

92 51.8 26.2 78.5

134 23.3 12.4 37.4

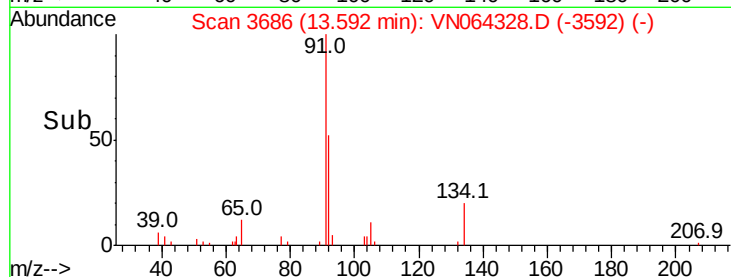


Abundance Ion 91.00 (90.70 to 91.70): VN064328.D (-3685) (-)

Ion 92.00 (91.70 to 92.70): VN064328.D (-3685) (-)

Ion 134.00 (133.70 to 134.70): VN064328.D (-3685) (-)

Time-->

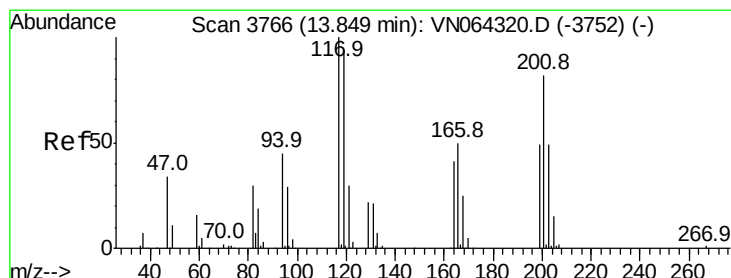


Abundance Ion 91.00 (90.70 to 91.70): VN064328.D (-3686) (-)

Ion 92.00 (91.70 to 92.70): VN064328.D (-3686) (-)

Ion 134.00 (133.70 to 134.70): VN064328.D (-3686) (-)

Time-->



#90

Hexachloroethane

Concen: 2.214 ug/l

RT: 13.85 min Scan# 3767

Delta R.T. 0.00 min

Lab File: VN064328.D

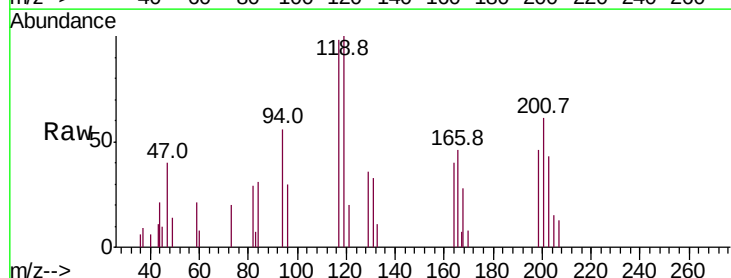
Acq: 27 Oct 2020 16:04

Tgt Ion: 117 Resp: 3854

Ion Ratio Lower Upper

117 100

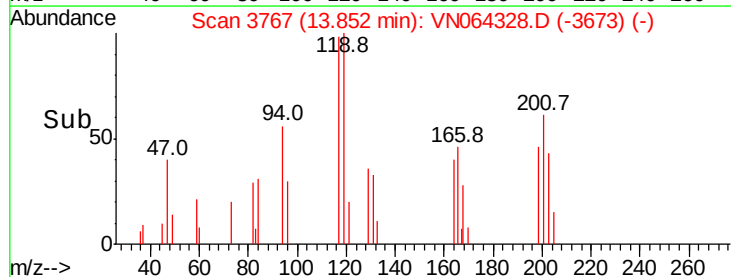
201 86.2 39.8 119.3



Abundance Ion 116.80 (116.50 to 117.50): VN064328.D (-3766) (-)

Ion 200.70 (200.40 to 201.40): VN064328.D (-3766) (-)

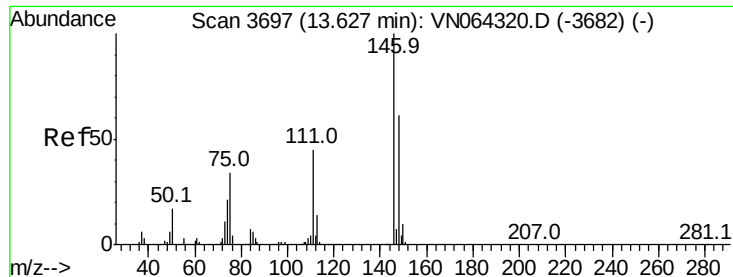
Time-->



Abundance Ion 116.80 (116.50 to 117.50): VN064328.D (-3767) (-)

Ion 200.70 (200.40 to 201.40): VN064328.D (-3767) (-)

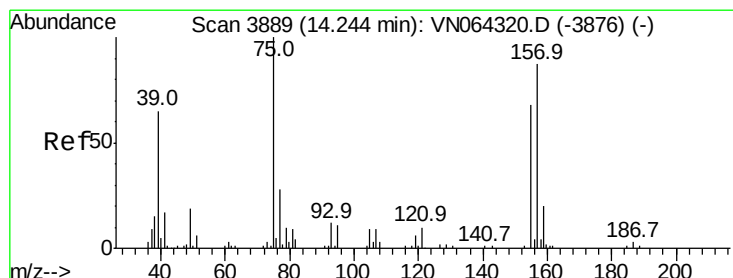
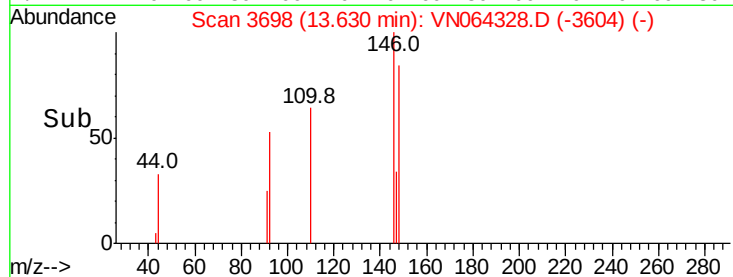
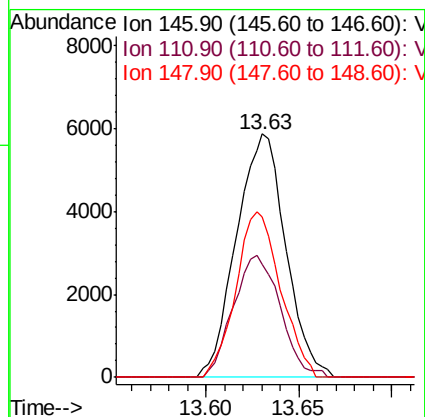
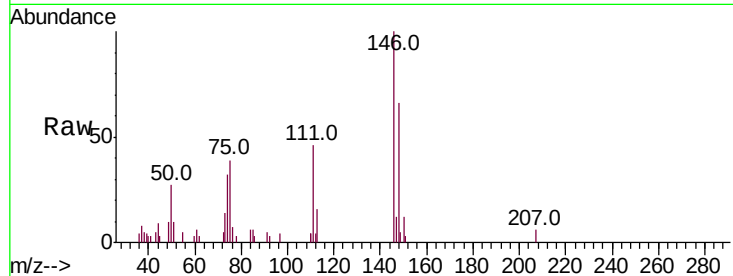
Time-->



#91
 1,2-Dichlorobenzene
 Concen: 2.217 ug/l
 RT: 13.63 min Scan# 3698
 Delta R.T. 0.00 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

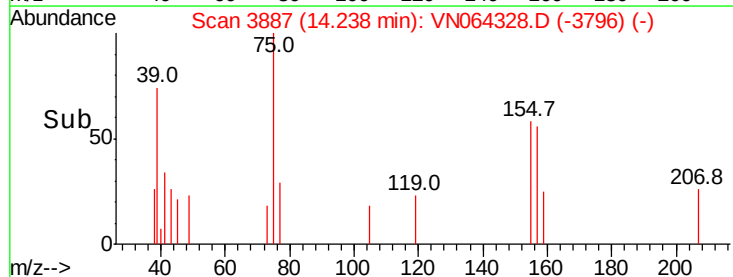
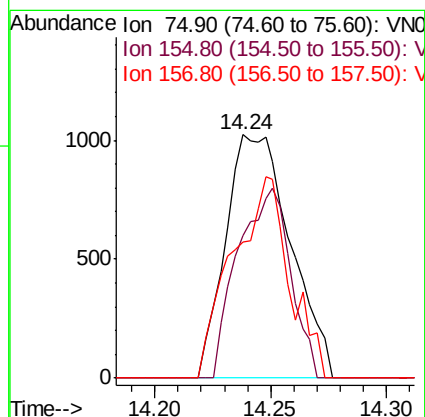
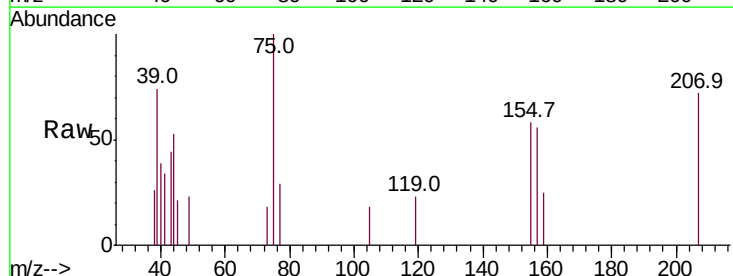
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

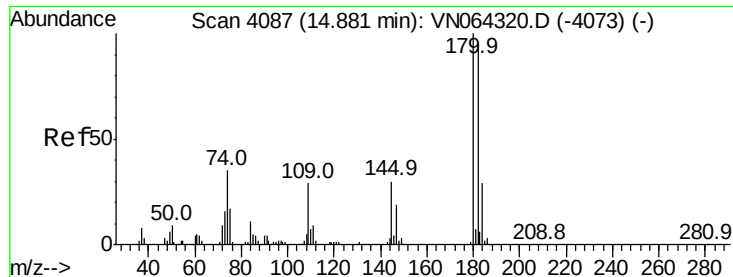
Tot Ion:146 Resp: 10819
 Ion Ratio Lower Upper
 146 100
 111 47.7 23.0 69.0
 148 61.6 32.1 96.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.410 ug/l
 RT: 14.24 min Scan# 3887
 Delta R.T. -0.01 min
 Lab File: VN064328.D
 Acq: 27 Oct 2020 16:04

Tgt Ion: 75 Resp: 1990
 Ion Ratio Lower Upper
 75 100
 155 63.3 35.1 105.5
 157 72.8 43.2 129.6

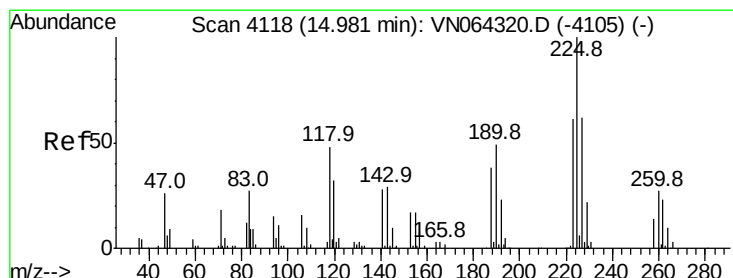
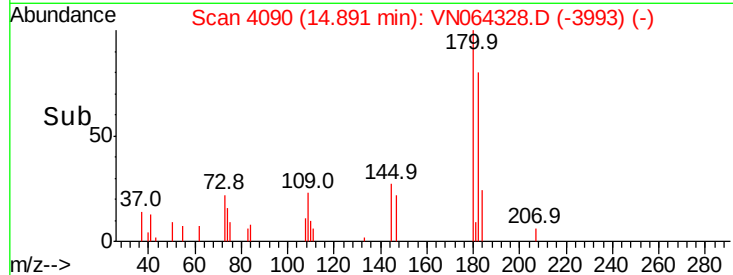
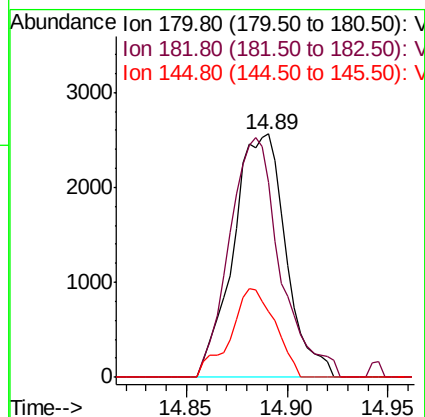
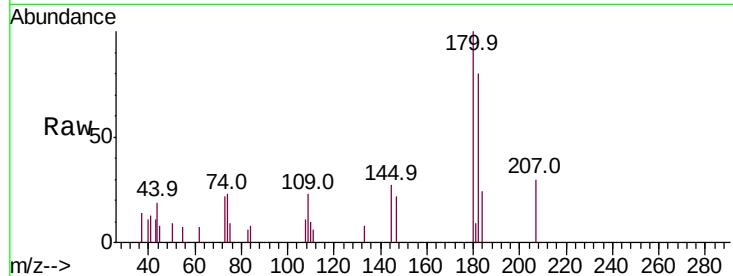




#93
1,2,4-Trichlorobenzene
Concen: 1.915 ug/l
RT: 14.89 min Scan# 4090
Delta R.T. 0.01 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

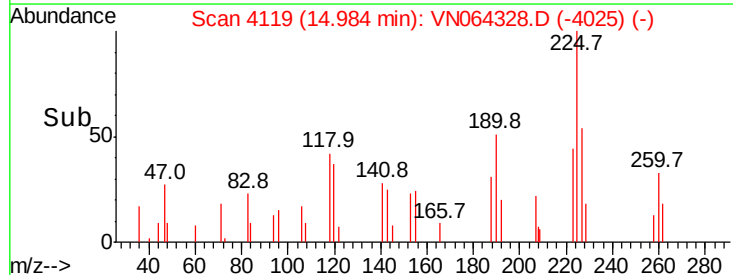
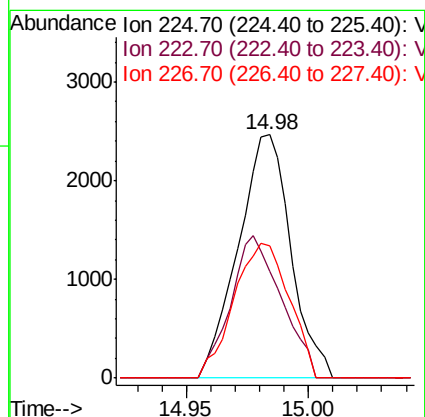
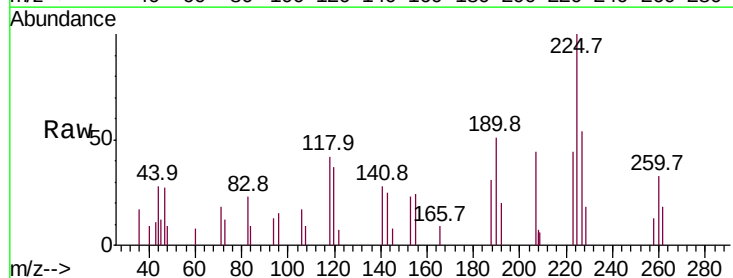
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

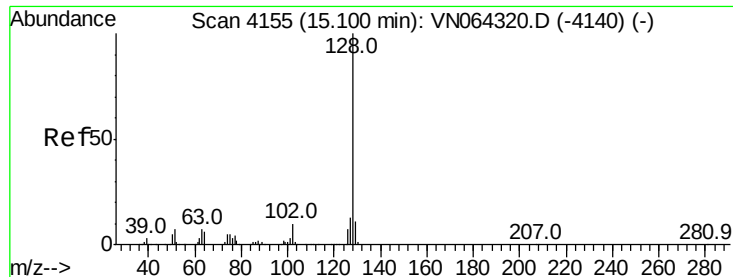
Tot Ion:180 Resp: 4669
Ion Ratio Lower Upper
180 100
182 95.1 46.6 139.7
145 31.0 15.3 45.9



#94
Hexachlorobutadiene
Concen: 2.460 ug/l
RT: 14.98 min Scan# 4119
Delta R.T. 0.00 min
Lab File: VN064328.D
Acq: 27 Oct 2020 16:04

Tgt Ion:225 Resp: 3684
Ion Ratio Lower Upper
225 100
223 56.6 31.3 93.8
227 58.5 32.3 96.9





#95

Naphthalene

Concen: 1.857 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

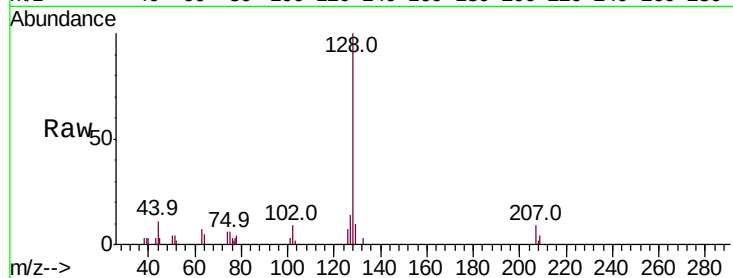
Tot Ion:128 Resp: 13962

Ion Ratio Lower Upper

128 100

127 11.7 10.4 15.6

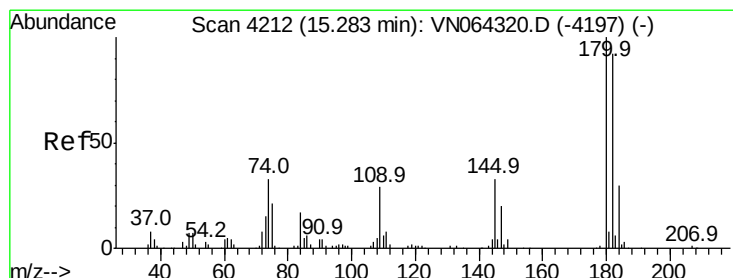
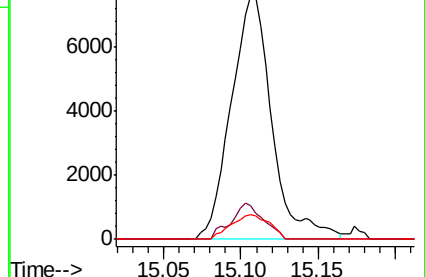
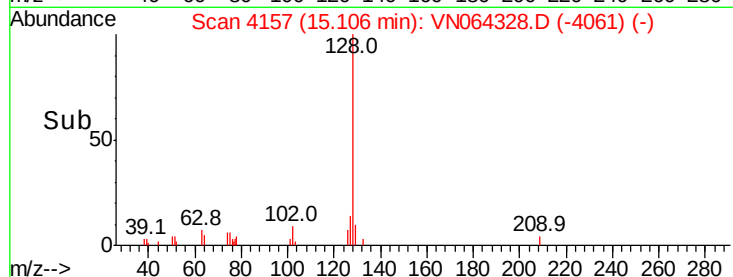
129 9.5 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.922 ug/l

RT: 15.29 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN064328.D

Acq: 27 Oct 2020 16:04

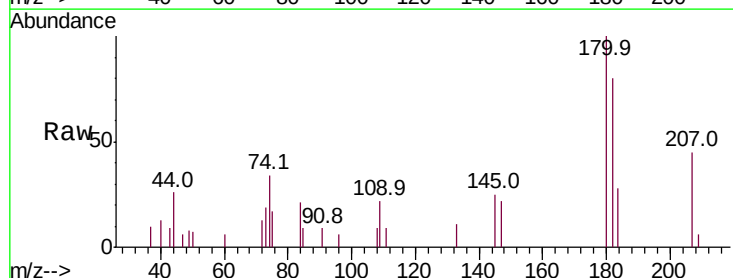
Tgt Ion:180 Resp: 4539

Ion Ratio Lower Upper

180 100

182 92.6 46.1 138.3

145 29.7 16.2 48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

