

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101218\
 Data File : VX005295.D
 Acq On : 12 Oct 2018 16:05
 Operator : JC/MD
 Sample : J5164-09 0.5ppb
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Quant Time: Oct 12 17:08:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	245770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388804	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	331179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172388	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	151180	55.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.84%	
35) Dibromofluoromethane	5.50	113	117949	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	
50) Toluene-d8	8.71	98	423000	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
62) 4-Bromofluorobenzene	11.14	95	144227	43.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.86%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.20	85	1084	0.56 ug/l		85
3) Chloromethane	1.32	50	2071	0.74 ug/l		96
4) Vinyl Chloride	1.40	62	1692	0.60 ug/l		94
5) Bromomethane	1.64	94	1892	1.76 ug/l		92
6) Chloroethane	1.71	64	1293	1.04 ug/l		89
7) Trichlorofluoromethane	1.93	101	2341	0.62 ug/l		92
8) Diethyl Ether	2.19	74	1061	0.66 ug/l		94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1394	0.64 ug/l		99
10) Methyl Iodide	2.51	142	1043	2.90 ug/l #		95
11) Tert butyl alcohol	3.07	59	2524	3.28 ug/l #		77
12) 1,1-Dichloroethene	2.37	96	1324	0.62 ug/l		94
13) Acrolein	2.29	56	1991	1.91 ug/l		88
14) Allyl chloride	2.73	41	2567	0.54 ug/l		96
15) Acrylonitrile	3.15	53	5634	3.23 ug/l		97
16) Acetone	2.45	43	5117	3.24 ug/l #		88
17) Carbon Disulfide	2.57	76	4504	0.69 ug/l #		86
18) Methyl Acetate	2.78	43	3675	0.82 ug/l		91
19) Methyl tert-butyl Ether	3.20	73	4408	0.58 ug/l		98
20) Methylene Chloride	2.85	84	2210	Below Cal		90
21) trans-1,2-Dichloroethene	3.16	96	1612	0.68 ug/l		88
22) Diisopropyl ether	3.87	45	4204	0.53 ug/l #		92
23) Vinyl Acetate	3.82	43	17287	2.49 ug/l		95
24) 1,1-Dichloroethane	3.70	63	2858	0.63 ug/l		96
25) 2-Butanone	4.71	43	6545	2.84 ug/l		97
26) 2,2-Dichloropropane	4.59	77	1742	0.51 ug/l		92
27) cis-1,2-Dichloroethene	4.60	96	1530	0.59 ug/l #		1
28) Bromochloromethane	5.01	49	1160	0.56 ug/l #		90
29) Tetrahydrofuran	5.17	42	4089	2.78 ug/l		89
30) Chloroform	5.21	83	2599	0.62 ug/l #		80
31) Cyclohexane	5.57	56	1842	0.49 ug/l #		81
32) 1,1,1-Trichloroethane	5.48	97	1862	0.51 ug/l #		45
36) 1,1-Dichloropropene	5.79	75	2317	0.62 ug/l		93
37) Ethyl Acetate	4.85	43	2698	0.56 ug/l #		92
38) Carbon Tetrachloride	5.78	117	2128	0.56 ug/l #		69

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.45	83	1728	0.42	ug/l	91
40) Benzene	6.14	78	5189	0.46	ug/l	95
41) Methacrylonitrile	5.06	41	846	0.33	ug/l #	53
42) 1,2-Dichloroethane	6.20	62	2137	0.54	ug/l	99
43) Isopropyl Acetate	6.46	43	3077	0.48	ug/l	98
45) 1,2-Dichloropropane	7.52	63	1408	0.51	ug/l	94
46) Dibromomethane	7.67	93	863	0.47	ug/l	96
47) Bromodichloromethane	7.90	83	1716	0.51	ug/l	94
48) Methyl methacrylate	7.77	41	1626	0.49	ug/l	89
49) 1,4-Dioxane	7.76	88	768	9.95	ug/l #	75
51) 4-Methyl-2-Pentanone	8.65	43	9482	2.12	ug/l	87
52) Toluene	8.79	92	3113	0.50	ug/l	88
53) t-1,3-Dichloropropene	9.05	75	1638	0.45	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	1797	0.45	ug/l	90
55) 1,1,2-Trichloroethane	9.22	97	1427	0.55	ug/l	97
56) Ethyl methacrylate	9.18	69	1617	0.42	ug/l #	74
57) 1,3-Dichloropropane	9.38	76	2207	0.51	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.32	63	4331	2.02	ug/l	98
59) 2-Hexanone	9.50	43	7307	2.03	ug/l	87
60) Dibromochloromethane	9.59	129	1131	0.42	ug/l	94
61) 1,2-Dibromoethane	9.68	107	1252	0.46	ug/l	95
64) Tetrachloroethene	9.34	164	1507	0.57	ug/l	93
65) Chlorobenzene	10.14	112	3619	0.51	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.23	131	1220	0.49	ug/l #	64
67) Ethyl Benzene	10.26	91	5468	0.48	ug/l	96
68) m/p-Xylenes	10.36	106	3825	0.86	ug/l	94
69) o-Xylene	10.70	106	1803	0.42	ug/l	93
70) Styrene	10.71	104	2789	0.40	ug/l #	90
71) Bromoform	10.86	173	974	0.43	ug/l #	94
73) Isopropylbenzene	11.02	105	4643	0.45	ug/l	100
74) N-amyl acetate	10.90	43	2185	0.44	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.27	83	2151	0.56	ug/l	99
76) 1,2,3-Trichloropropane	11.29	75	2250	0.67	ug/l	99
77) Bromobenzene	11.25	156	1603	0.55	ug/l	95
78) n-propylbenzene	11.36	91	5979	0.51	ug/l	98
79) 2-Chlorotoluene	11.42	91	3851	0.53	ug/l	97
80) 1,3,5-Trimethylbenzene	11.51	105	3905	0.44	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.14	75	71789	65.23	ug/l #	10
82) 4-Chlorotoluene	11.51	91	4413	0.52	ug/l	97
83) tert-Butylbenzene	11.77	119	4049	0.46	ug/l	96
84) 1,2,4-Trimethylbenzene	11.81	105	3986	0.44	ug/l	98
85) sec-Butylbenzene	11.94	105	4600	0.44	ug/l	99
86) p-Isopropyltoluene	12.07	119	4066	0.43	ug/l #	81
87) 1,3-Dichlorobenzene	12.02	146	2974	0.54	ug/l	99
88) 1,4-Dichlorobenzene	12.02	146	2974	0.53	ug/l	98
89) n-Butylbenzene	12.39	91	3765	0.44	ug/l	96
90) Hexachloroethane	12.60	117	776	0.47	ug/l	93
91) 1,2-Dichlorobenzene	12.39	146	2978	0.53	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.01	75	512	0.54	ug/l	87
93) 1,2,4-Trichlorobenzene	13.65	180	2194	0.54	ug/l	99

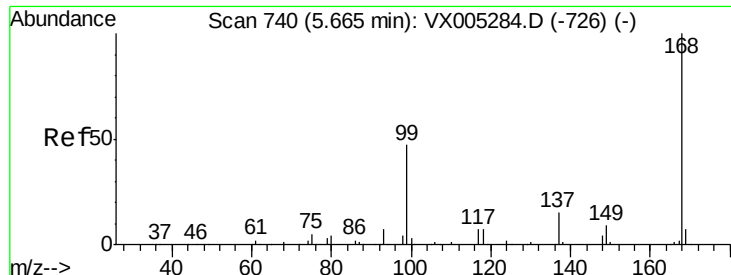
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX101218\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.79	225	1200	0.55	ug/l	97
95) Naphthalene	13.83	128	4953	0.42	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	1971	0.47	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

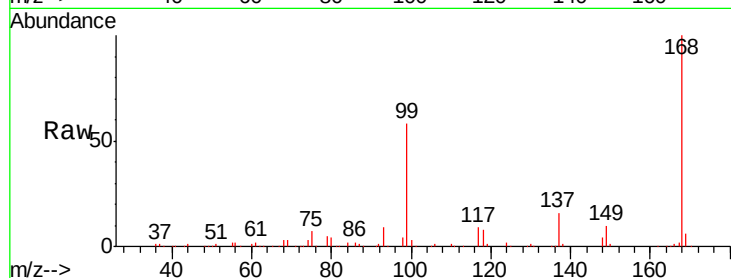
MDL-WATER-03-QT4-2018

Tgt Ion:168 Resp: 245770

Ion Ratio Lower Upper

168 100

99 57.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

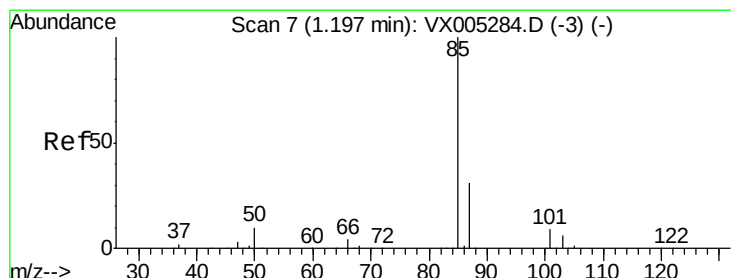
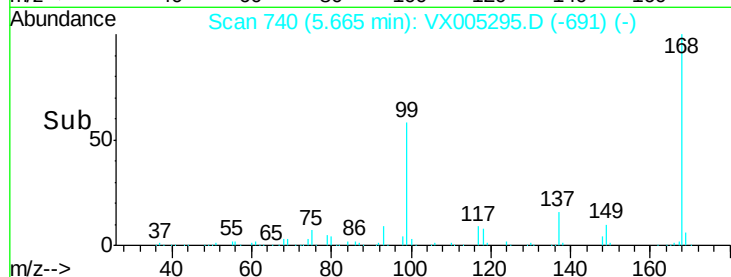
40000

20000

0

5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.56 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX005295.D

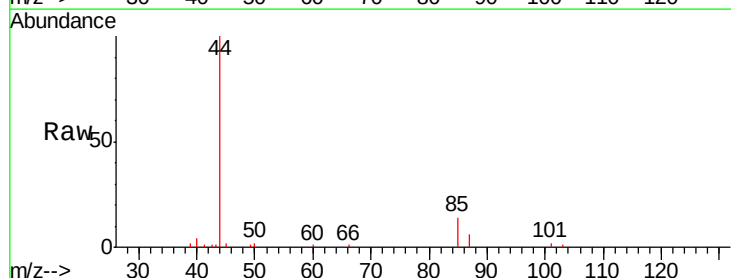
Acq: 12 Oct 2018 16:05

Tgt Ion: 85 Resp: 1084

Ion Ratio Lower Upper

85 100

87 42.7 17.0 50.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

1000

800

600

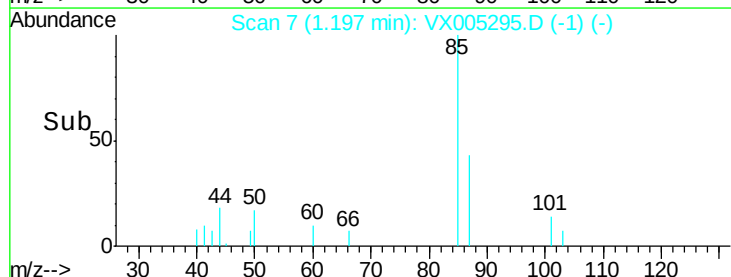
400

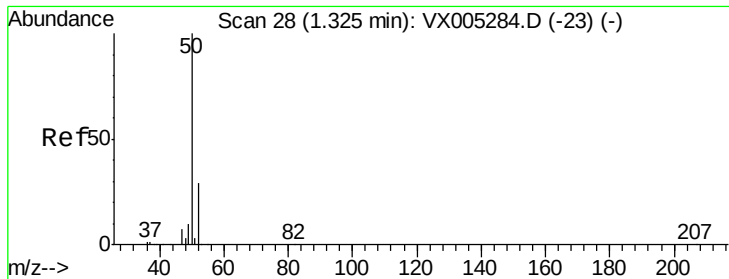
200

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 0.74 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

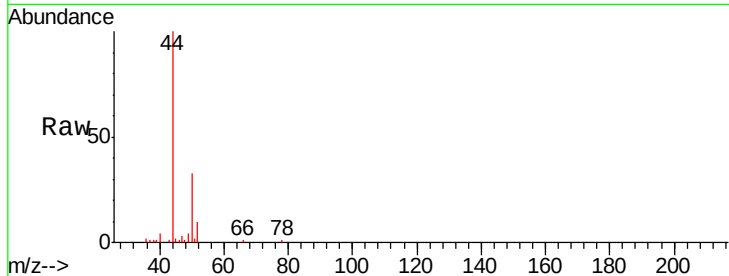
MDL-WATER-03-QT4-2018

Tgt Ion: 50 Resp: 2071

Ion Ratio Lower Upper

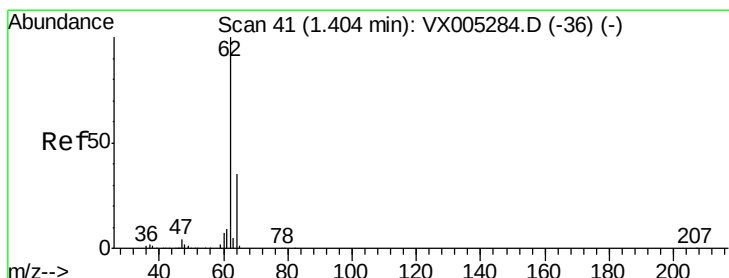
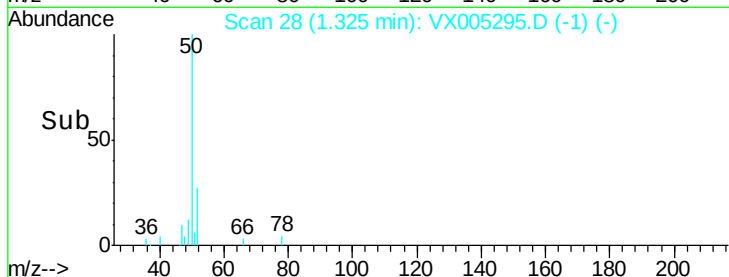
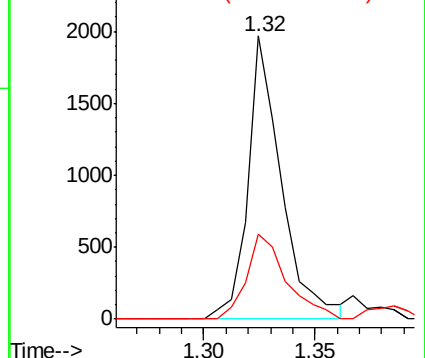
50 100

52 30.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.60 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX005295.D

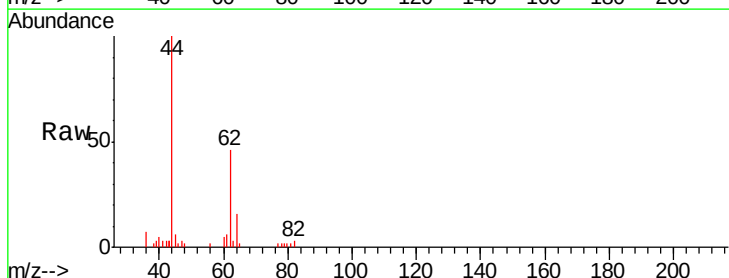
Acq: 12 Oct 2018 16:05

Tgt Ion: 62 Resp: 1692

Ion Ratio Lower Upper

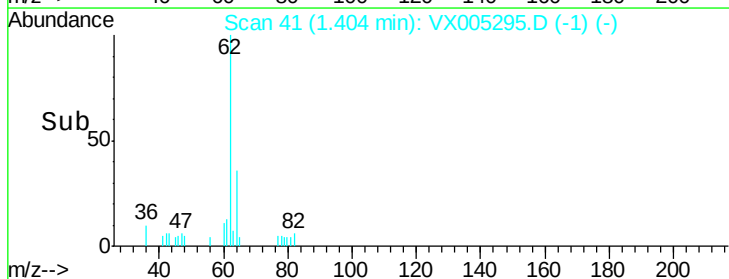
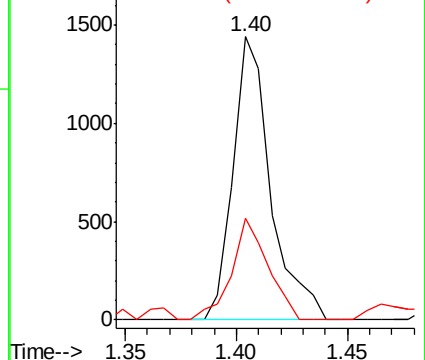
62 100

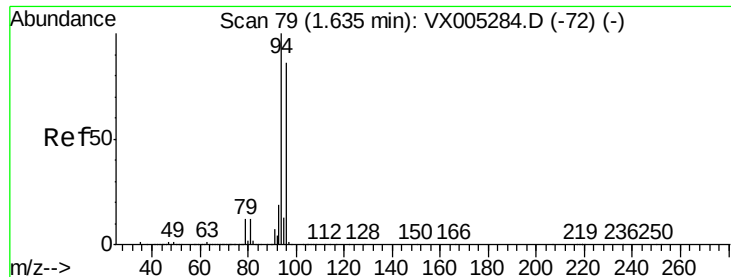
64 35.7 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 1.76 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

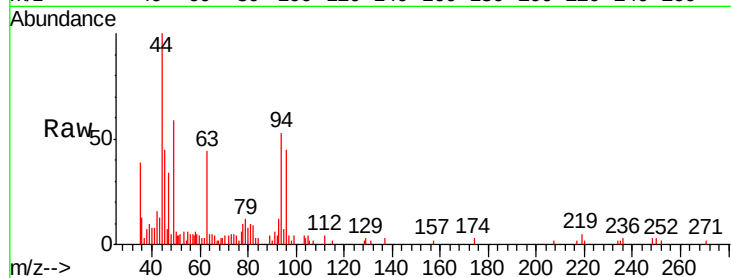
MDL-WATER-03-QT4-2018

Tgt Ion: 94 Resp: 1892

Ion Ratio Lower Upper

94 100

96 85.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

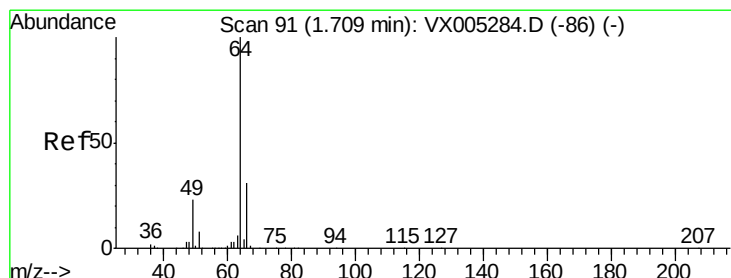
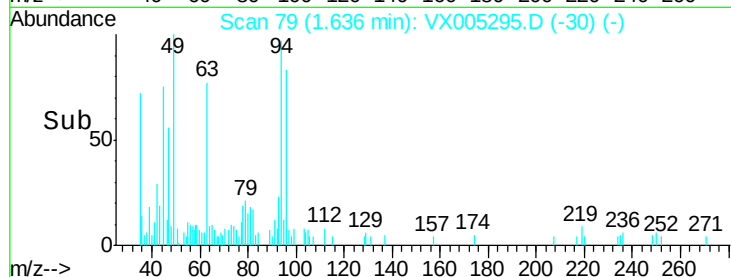
1500

1000

500

0

Time--> 1.50 1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 1.04 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.01 min

Lab File: VX005295.D

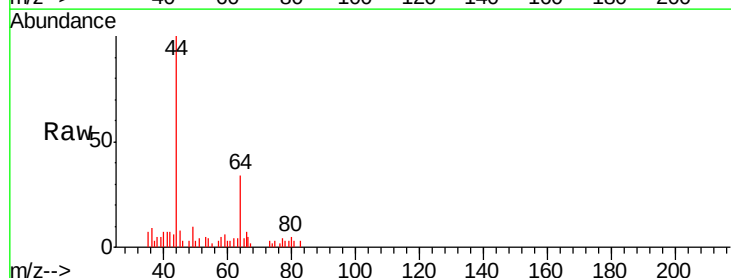
Acq: 12 Oct 2018 16:05

Tgt Ion: 64 Resp: 1293

Ion Ratio Lower Upper

64 100

66 36.6 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

800

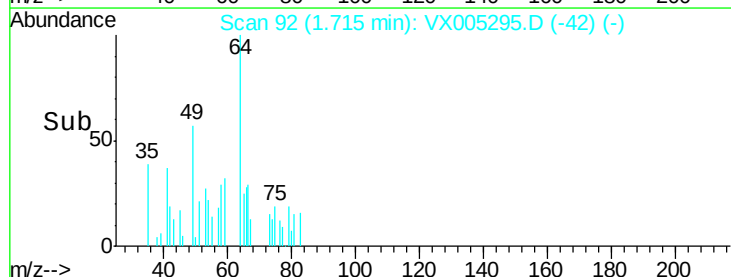
600

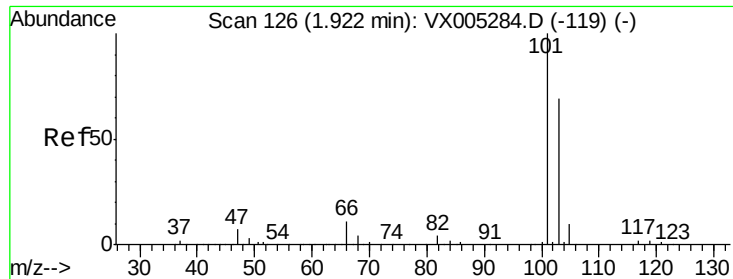
400

200

0

Time--> 1.65 1.70 1.75 1.80





#7

Trichlorofluoromethane

Concen: 0.62 ug/l

RT: 1.93 min Scan# 127

Delta R.T. 0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

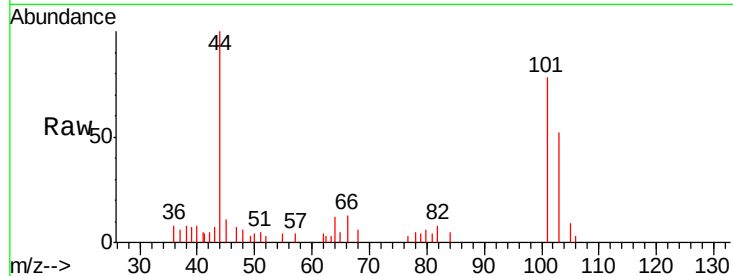
MDL-WATER-03-QT4-2018

Tgt Ion:101 Resp: 2341

Ion Ratio Lower Upper

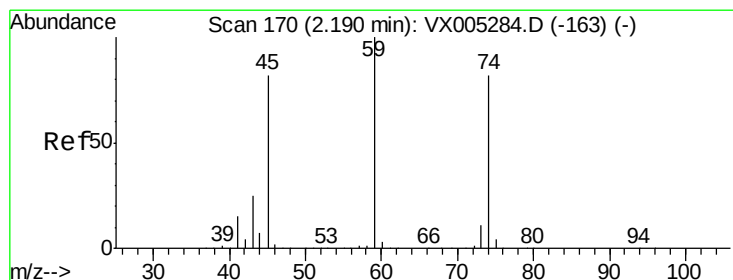
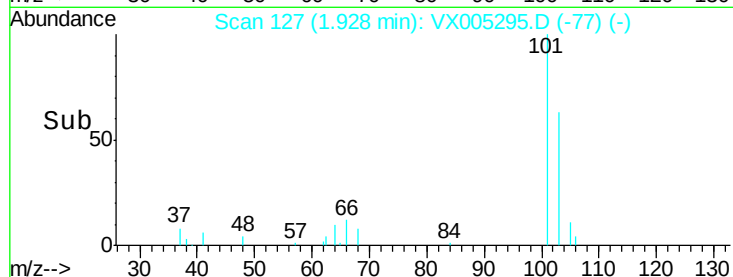
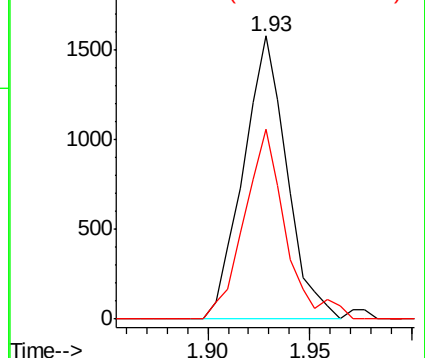
101 100

103 67.3 48.9 73.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 0.66 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX005295.D

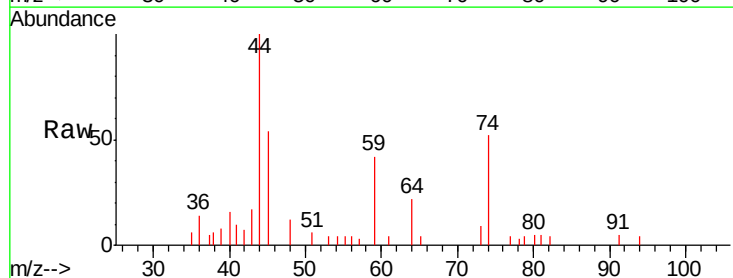
Acq: 12 Oct 2018 16:05

Tgt Ion: 74 Resp: 1061

Ion Ratio Lower Upper

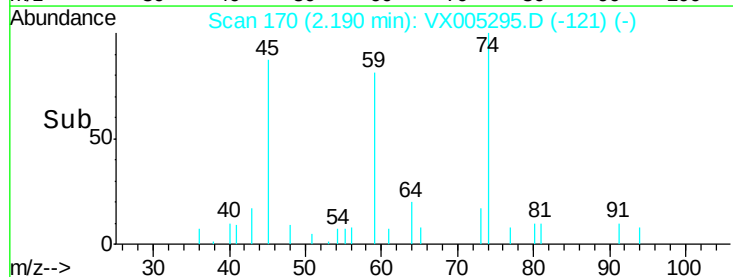
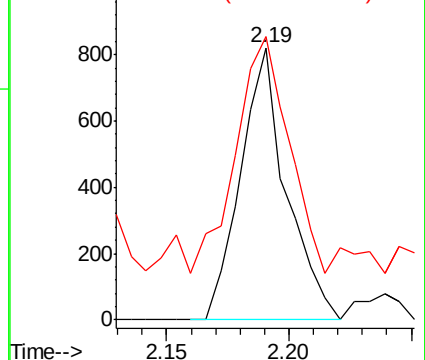
74 100

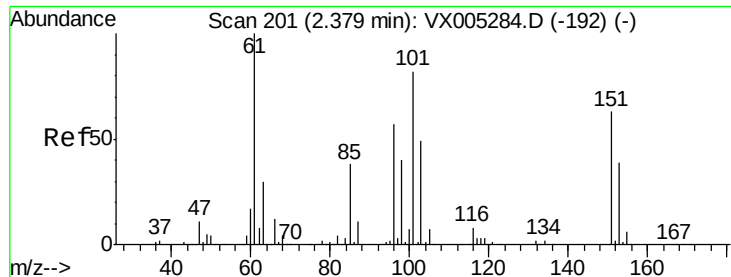
45 102.8 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.64 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

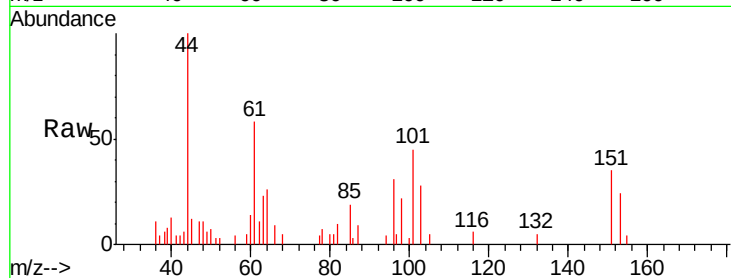
Tgt Ion:101 Resp: 1394

Ion Ratio Lower Upper

101 100

85 44.0 34.2 51.4

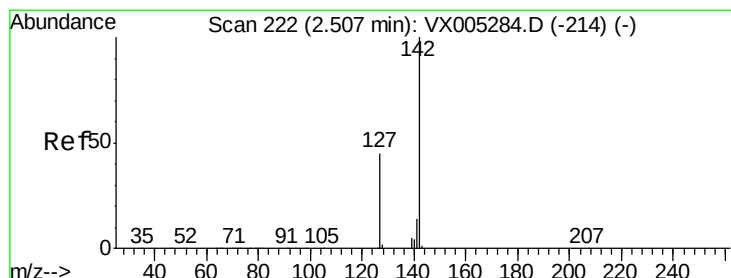
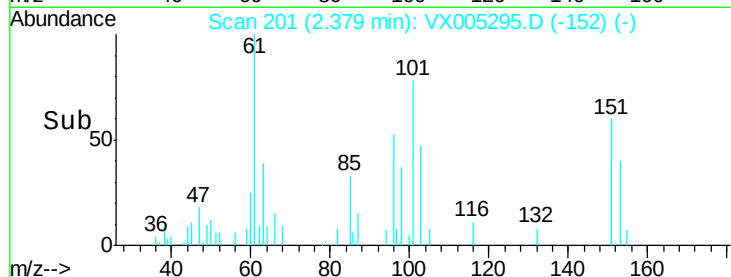
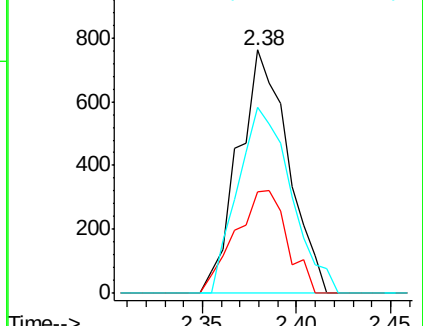
151 81.9 65.0 97.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.90 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

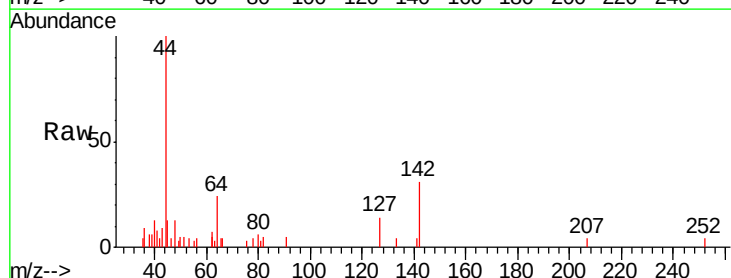
Tgt Ion:142 Resp: 1043

Ion Ratio Lower Upper

142 100

127 44.6 33.8 50.6

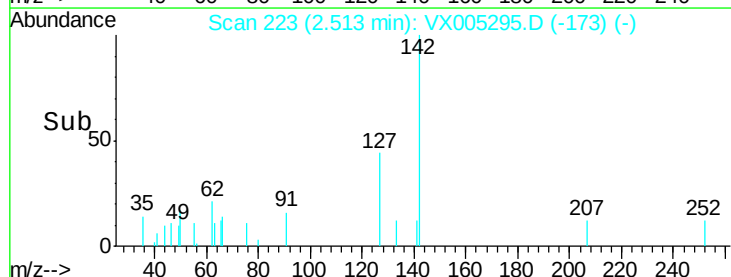
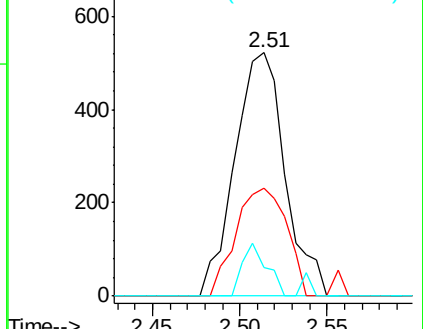
141 10.5 11.4 17.0#

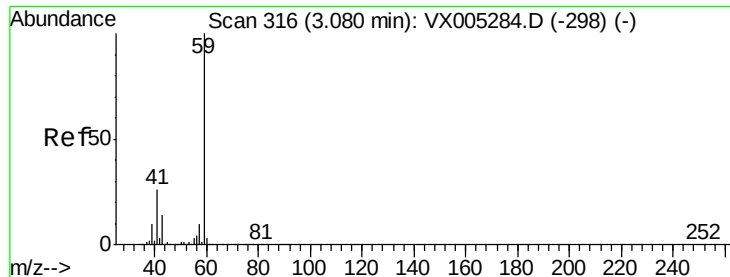


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

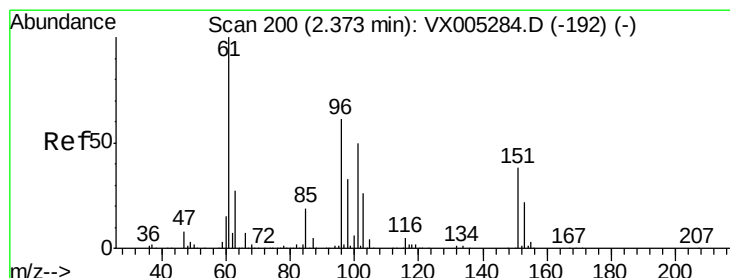
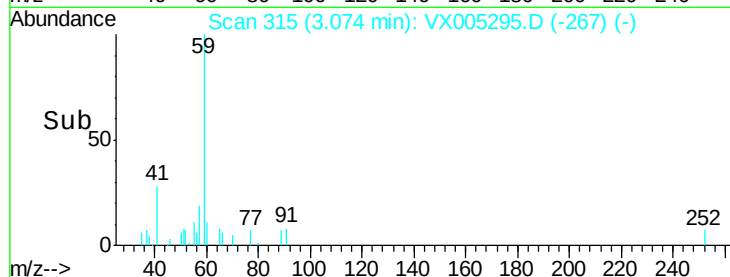
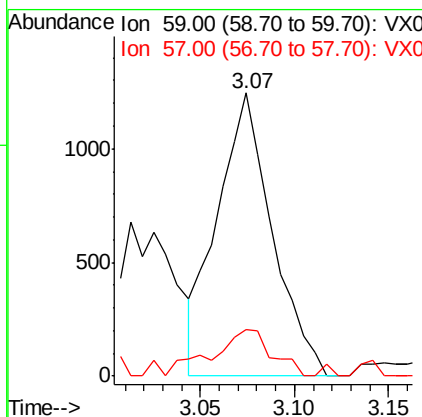
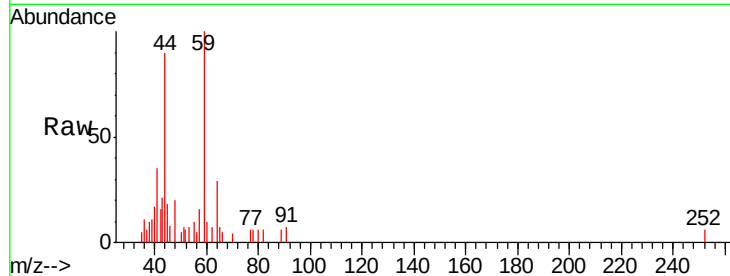




#11
Tert butyl alcohol
Concen: 3.28 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

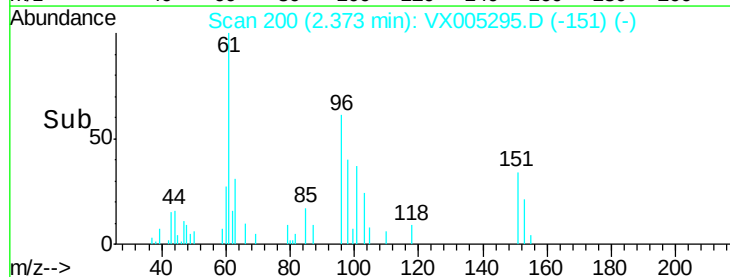
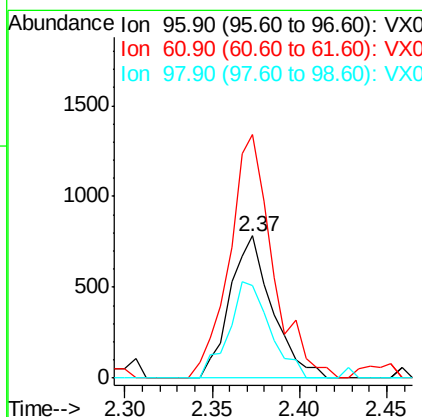
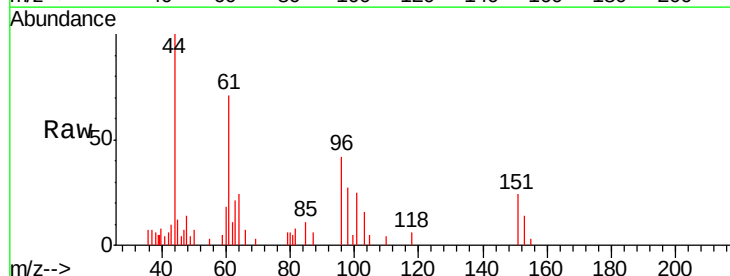
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

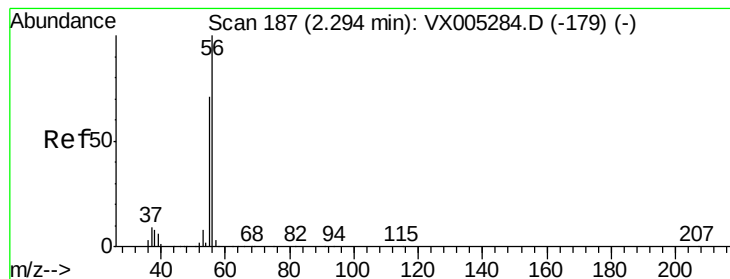
Tgt Ion: 59 Resp: 2524
Ion Ratio Lower Upper
59 100
57 18.8 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 0.62 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 96 Resp: 1324
Ion Ratio Lower Upper
96 100
61 171.0 128.8 193.2
98 64.7 52.2 78.2





#13

Acrolein

Concen: 1.91 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

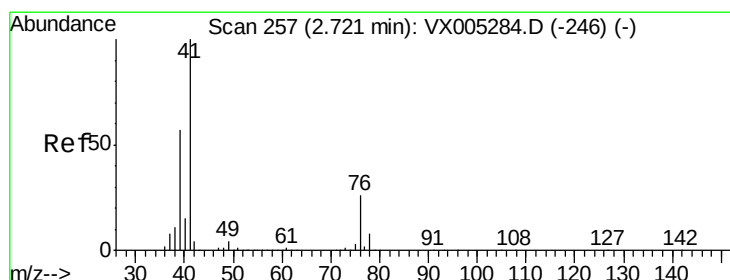
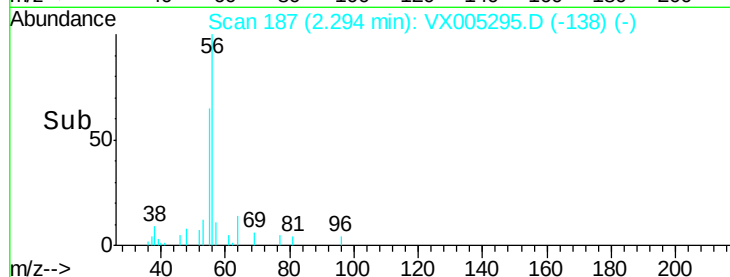
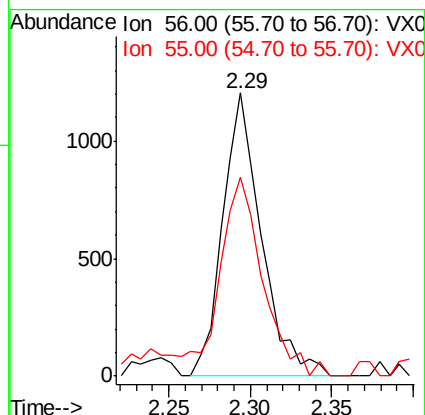
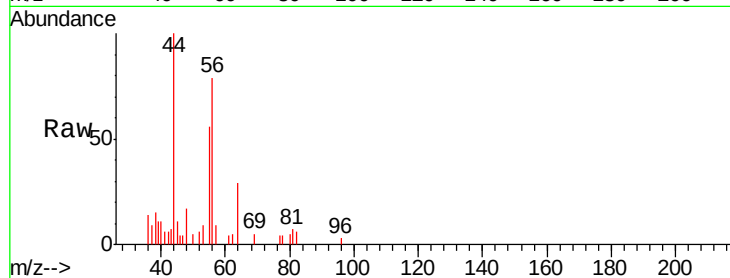
MDL-WATER-03-QT4-2018

Tgt Ion: 56 Resp: 1991

Ion Ratio Lower Upper

56 100

55 78.1 54.7 82.1



#14

Allyl chloride

Concen: 0.54 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

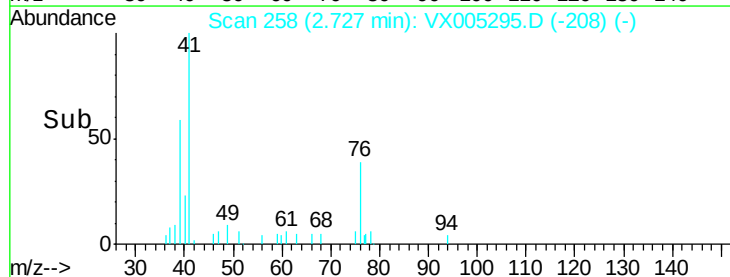
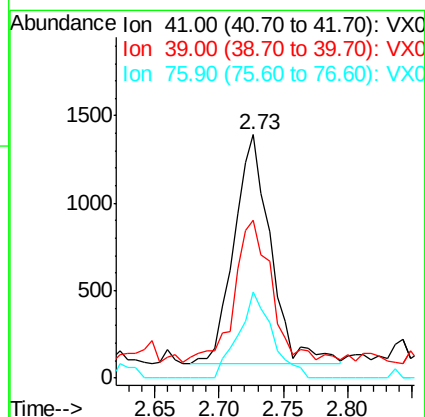
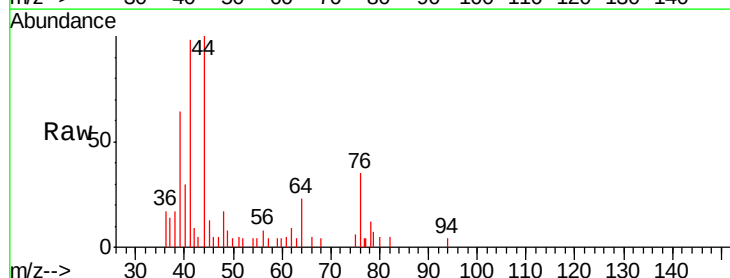
Tgt Ion: 41 Resp: 2567

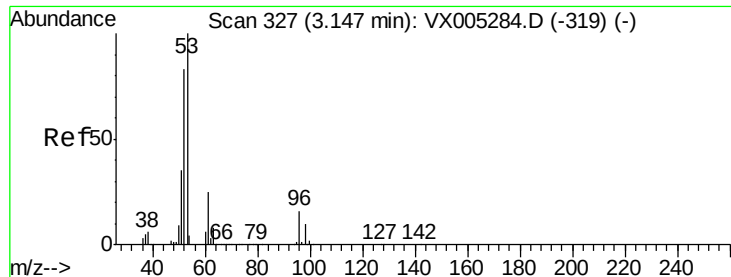
Ion Ratio Lower Upper

41 100

39 65.3 48.9 73.3

76 34.9 26.7 40.1





#15

Acrylonitrile

Concen: 3.23 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

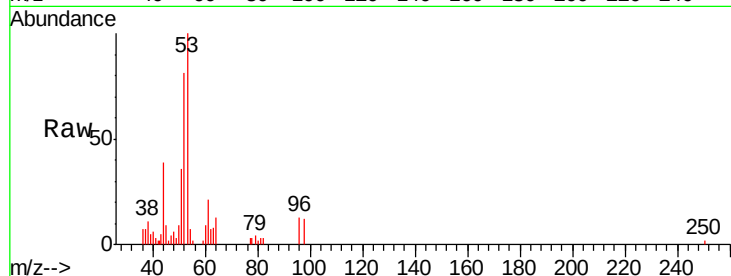
Tgt Ion: 53 Resp: 5634

Ion Ratio Lower Upper

53 100

52 80.1 65.2 97.8

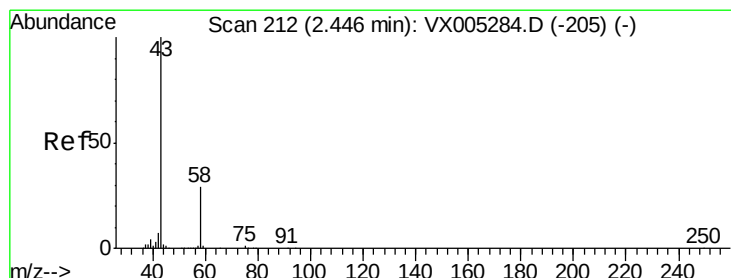
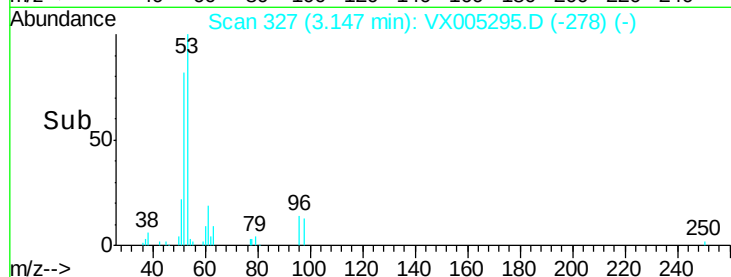
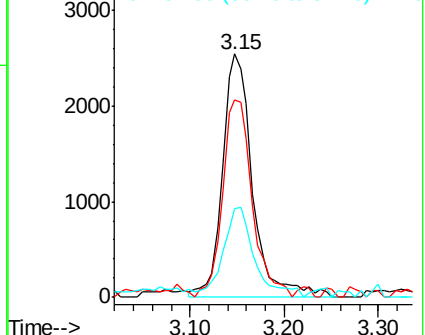
51 38.9 28.2 42.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 3.24 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005295.D

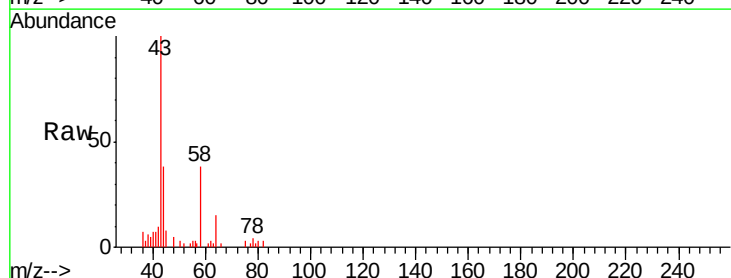
Acq: 12 Oct 2018 16:05

Tgt Ion: 43 Resp: 5117

Ion Ratio Lower Upper

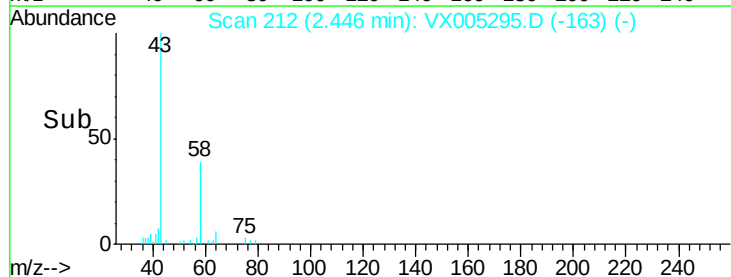
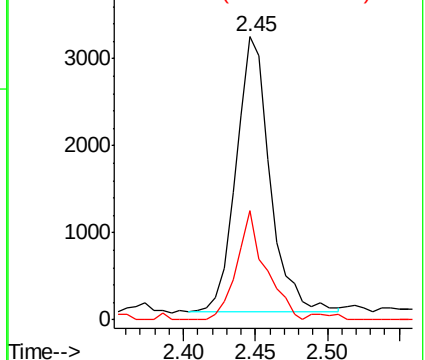
43 100

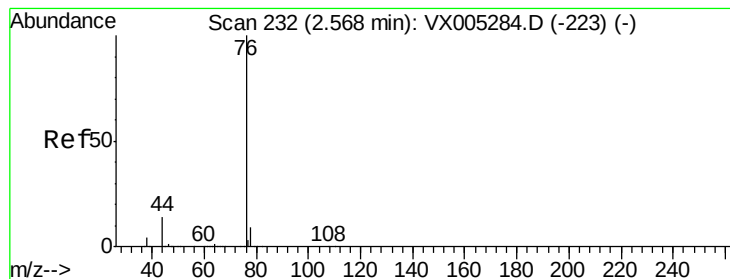
58 39.6 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.69 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

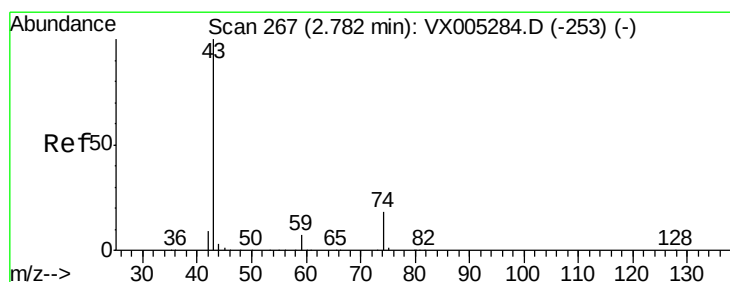
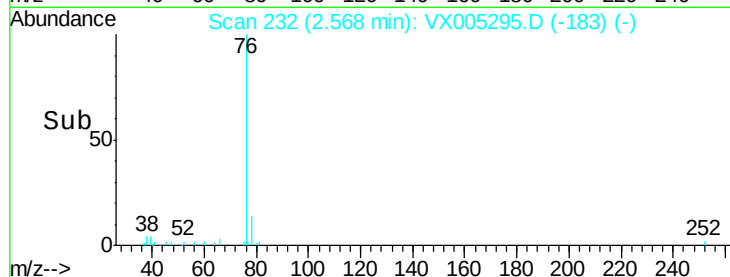
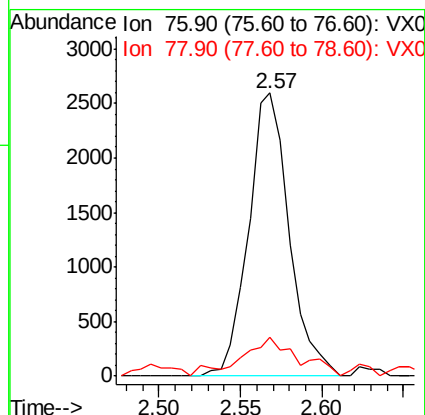
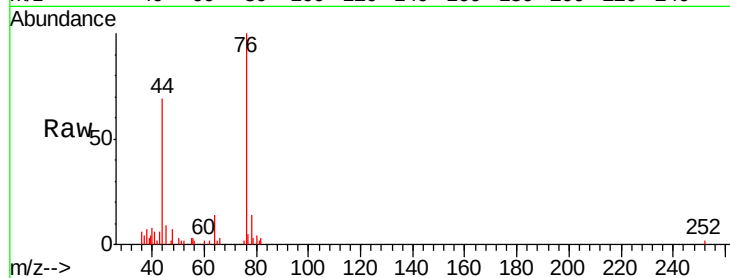
MDL-WATER-03-QT4-2018

Tgt Ion: 76 Resp: 4504

Ion Ratio Lower Upper

76 100

78 13.8 7.0 10.6#



#18

Methyl Acetate

Concen: 0.82 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005295.D

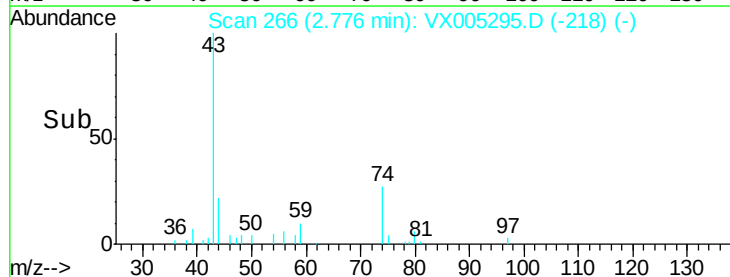
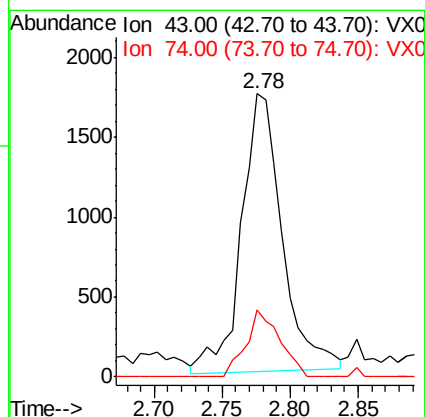
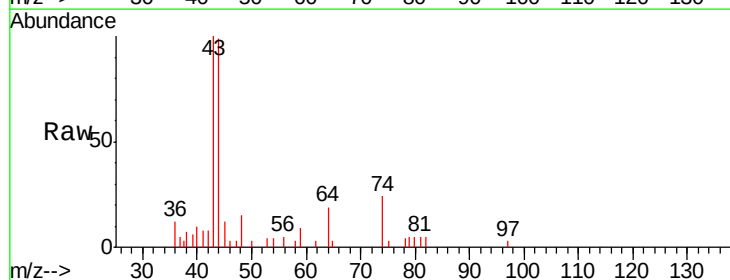
Acq: 12 Oct 2018 16:05

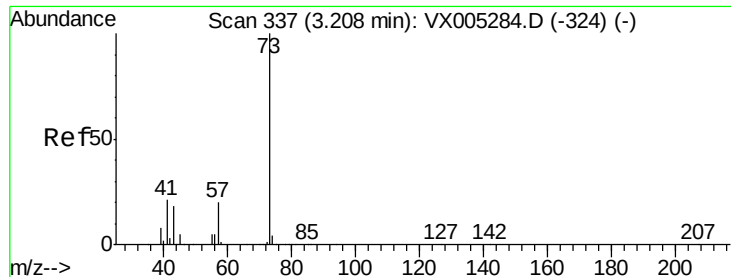
Tgt Ion: 43 Resp: 3675

Ion Ratio Lower Upper

43 100

74 19.8 19.4 29.2





#19

Methyl tert-butyl Ether

Concen: 0.58 ug/l

RT: 3.20 min Scan# 336

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

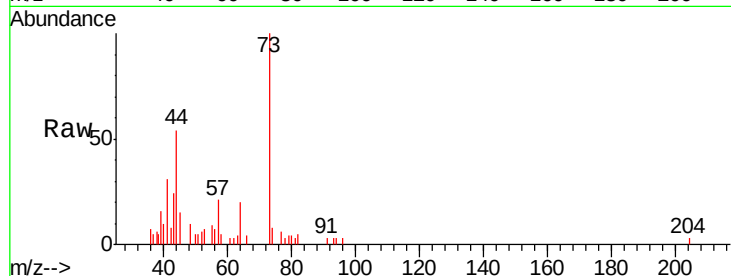
MDL-WATER-03-QT4-2018

Tgt Ion: 73 Resp: 4408

Ion Ratio Lower Upper

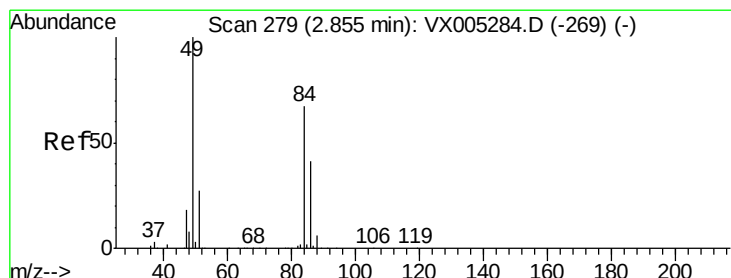
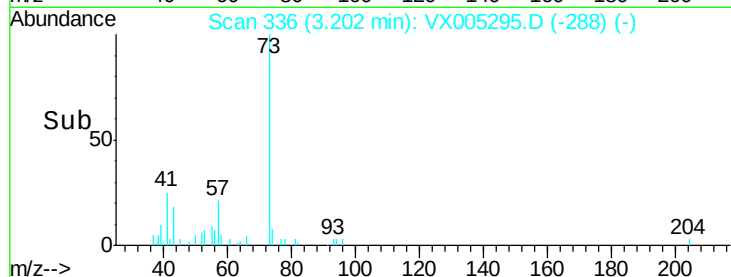
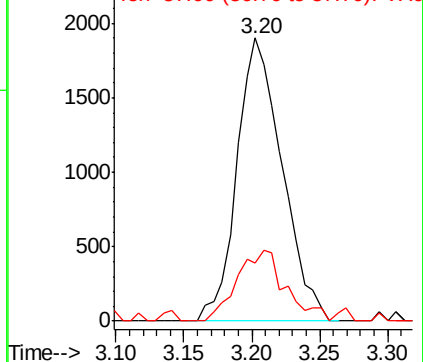
73 100

57 20.6 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Tgt Ion: 84 Resp: 2210

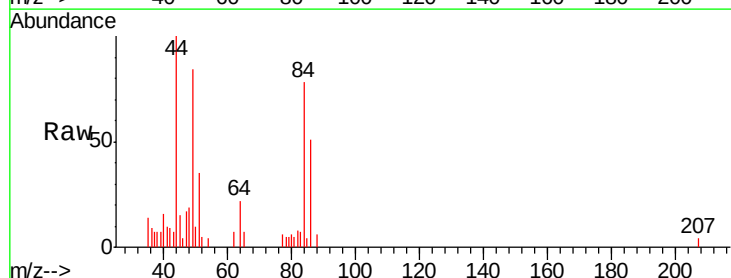
Ion Ratio Lower Upper

84 100

49 106.6 101.2 151.8

51 38.2 29.5 44.3

86 65.7 52.3 78.5

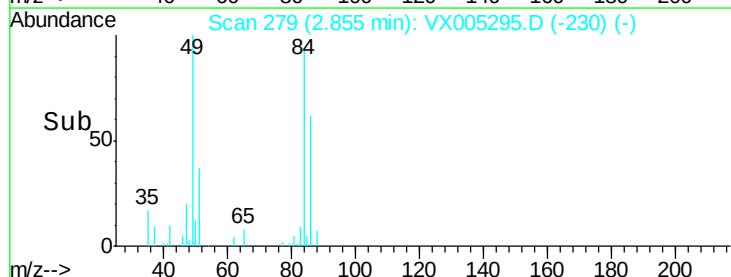
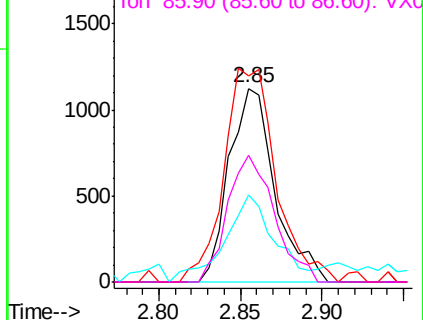


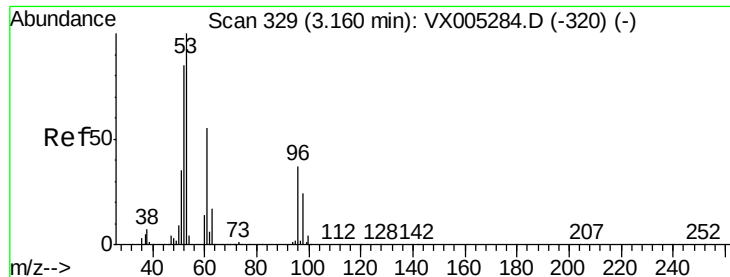
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.68 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

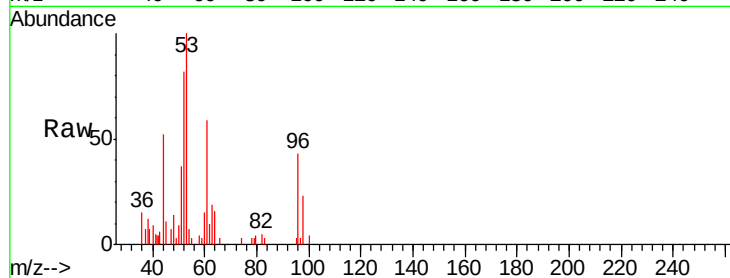
Tgt Ion: 96 Resp: 1612

Ion Ratio Lower Upper

96 100

61 128.8 113.8 170.6

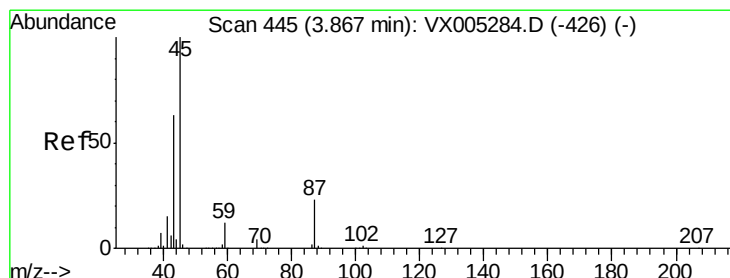
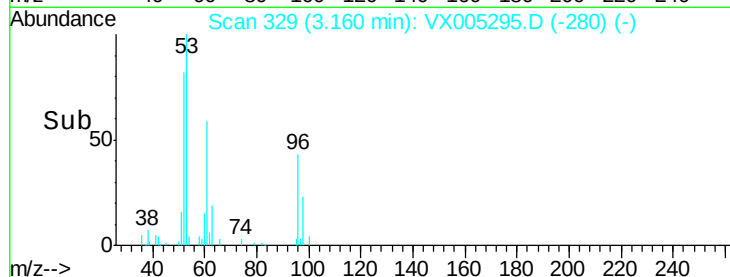
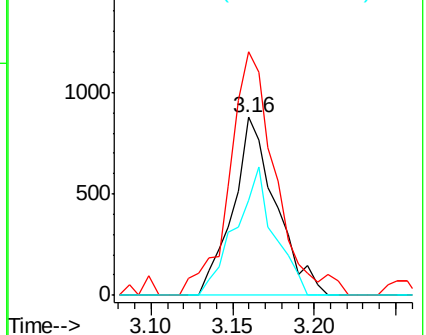
98 53.1 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 0.53 ug/l

RT: 3.87 min Scan# 445

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Tgt Ion: 45 Resp: 4204

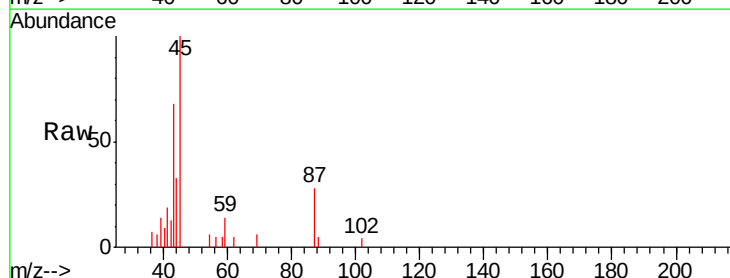
Ion Ratio Lower Upper

45 100

43 61.2 42.8 64.2

87 29.9 22.6 34.0

59 15.4 9.6 14.4#

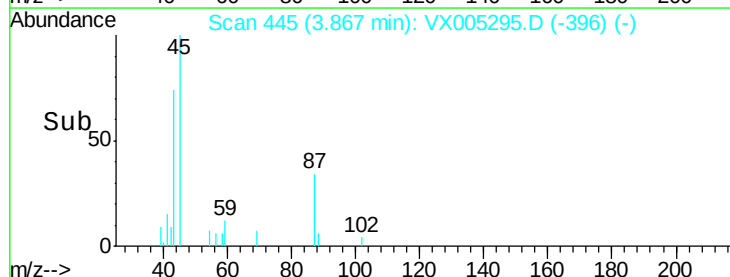
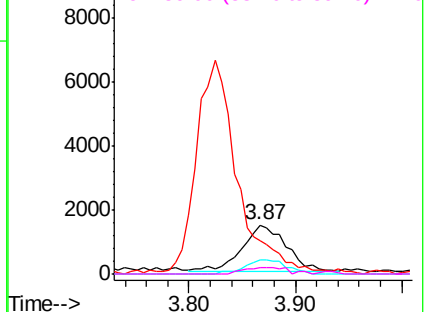


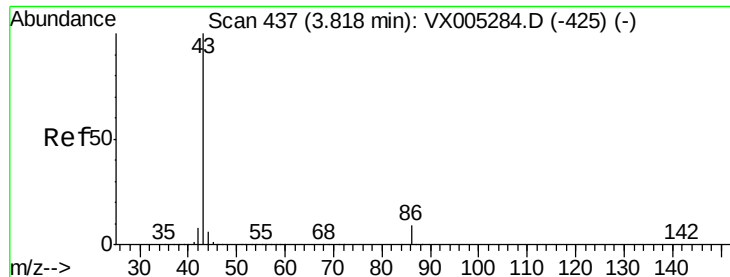
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 2.49 ug/l

RT: 3.82 min Scan# 438

Delta R.T. 0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

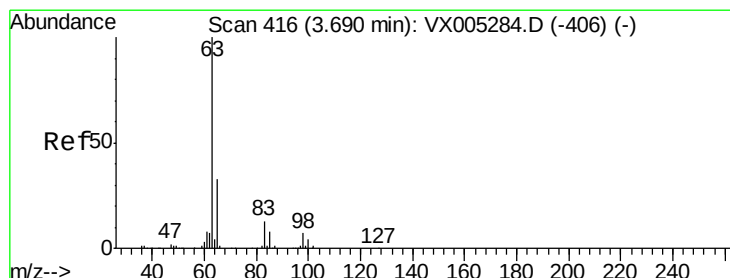
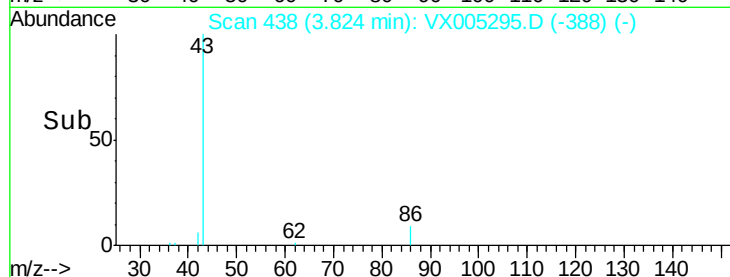
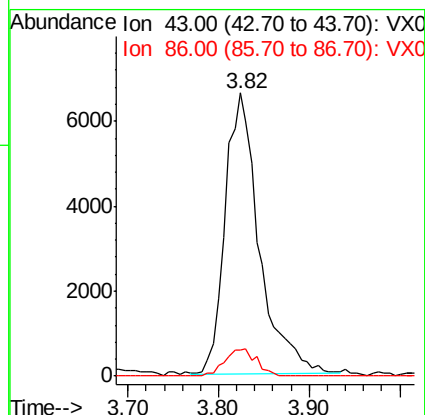
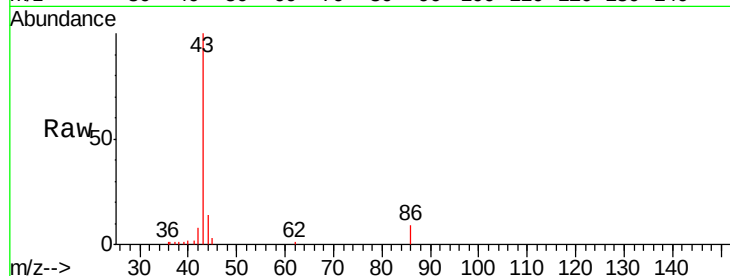
MDL-WATER-03-QT4-2018

Tgt Ion: 43 Resp: 17287

Ion Ratio Lower Upper

43 100

86 9.3 8.9 13.3



#24

1,1-Dichloroethane

Concen: 0.63 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

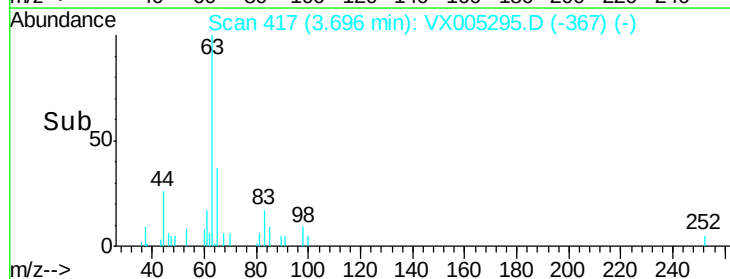
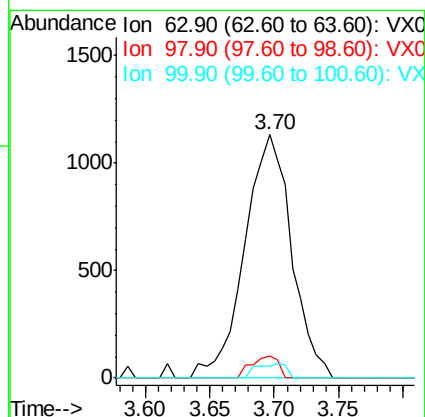
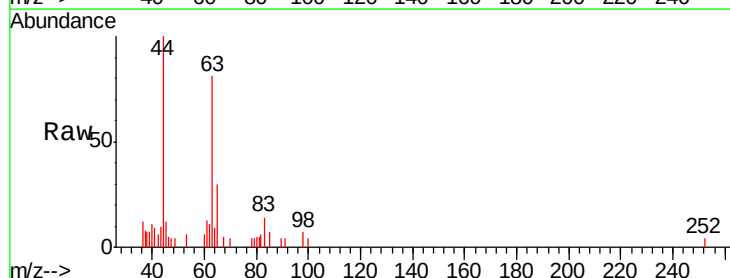
Tgt Ion: 63 Resp: 2858

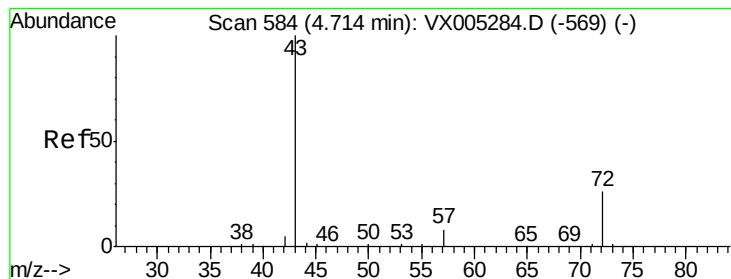
Ion Ratio Lower Upper

63 100

98 9.3 3.5 10.4

100 4.8 2.4 7.1





#25

2-Butanone

Concen: 2.84 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

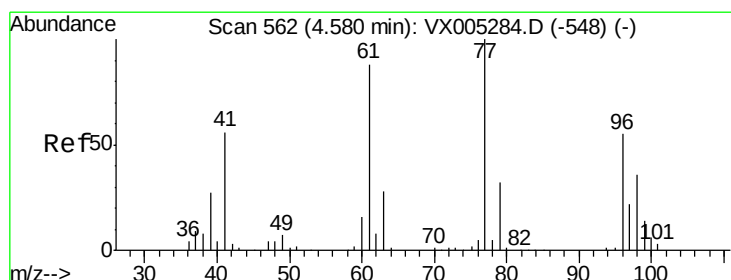
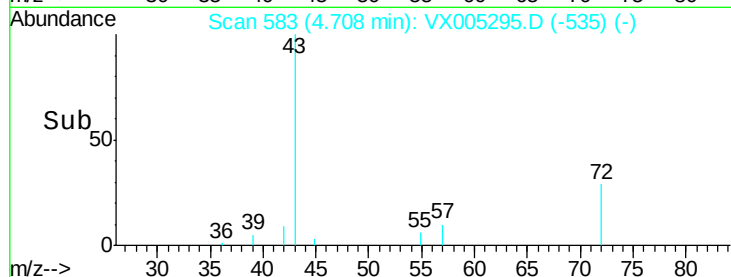
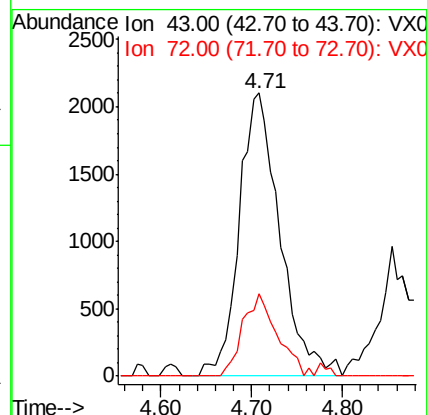
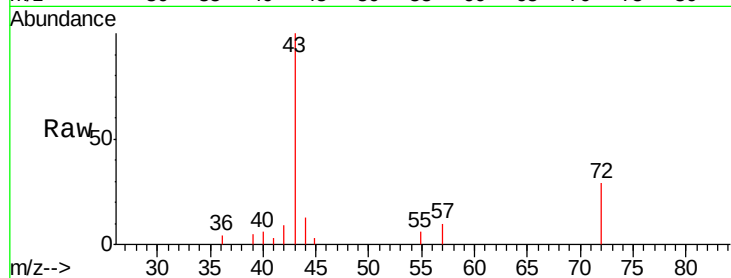
MDL-WATER-03-QT4-2018

Tgt Ion: 43 Resp: 6545

Ion Ratio Lower Upper

43 100

72 29.1 22.0 33.0



#26

2,2-Dichloropropane

Concen: 0.51 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX005295.D

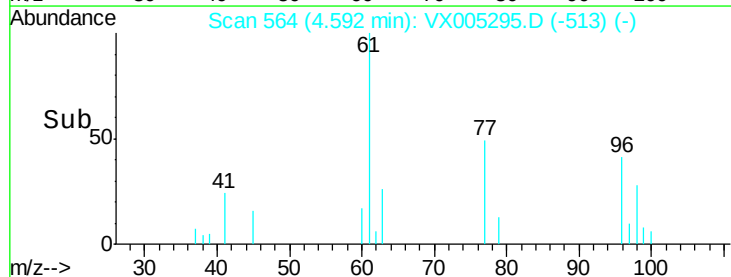
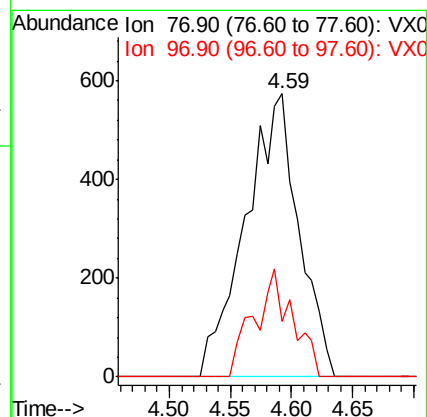
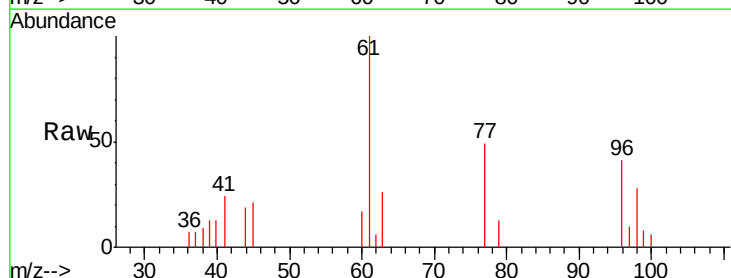
Acq: 12 Oct 2018 16:05

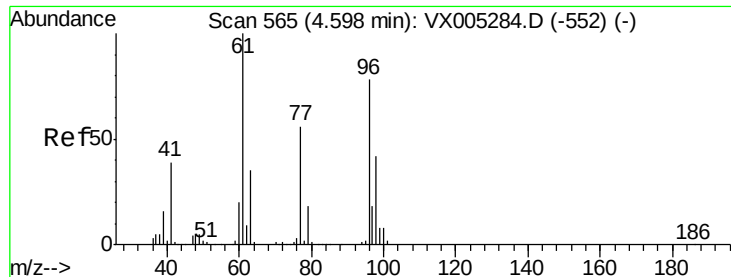
Tgt Ion: 77 Resp: 1742

Ion Ratio Lower Upper

77 100

97 27.4 11.7 35.0





#27

cis-1,2-Dichloroethene

Concen: 0.59 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

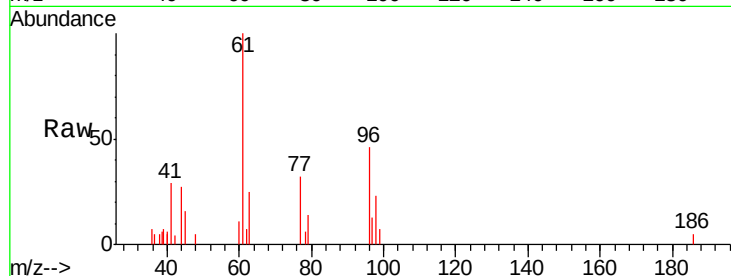
Tgt Ion: 96 Resp: 1530

Ion Ratio Lower Upper

96 100

61 331.9 0.0 282.6#

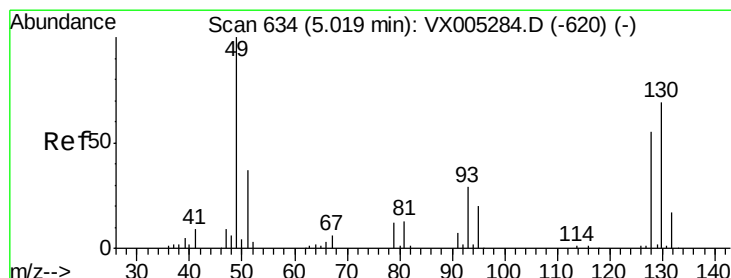
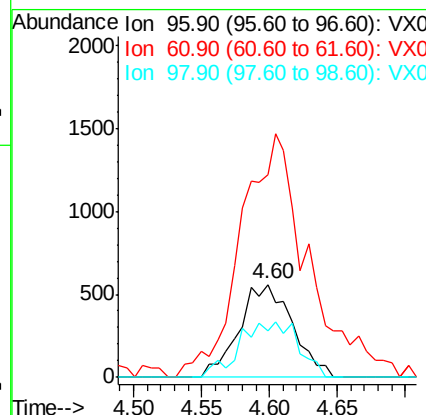
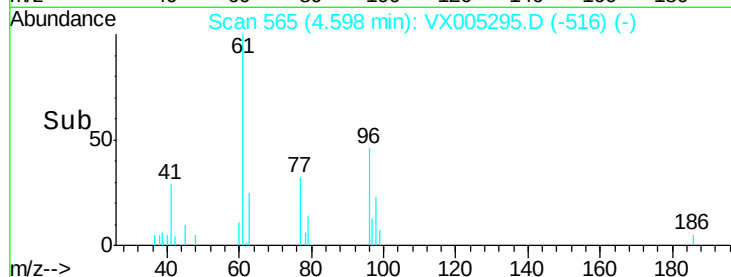
98 65.8 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: 0.56 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

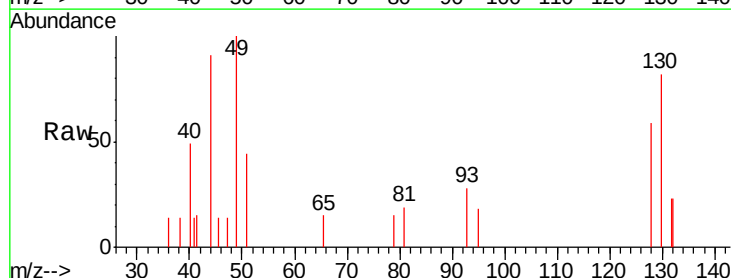
Tgt Ion: 49 Resp: 1160

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

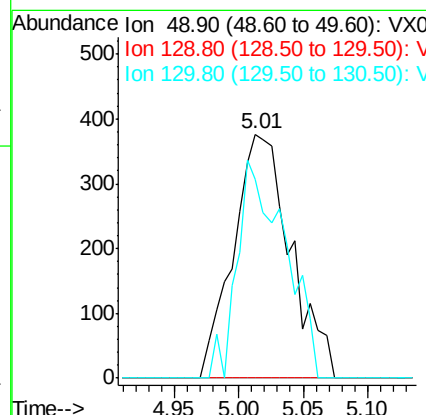
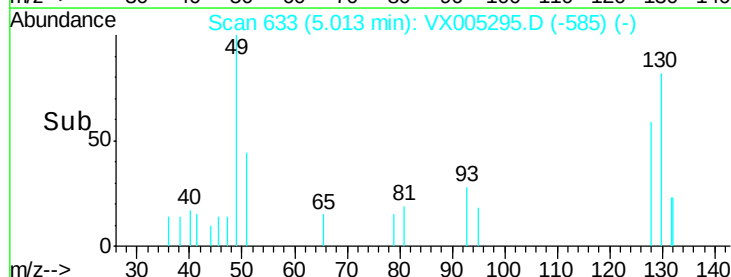
130 75.3 67.5 101.3

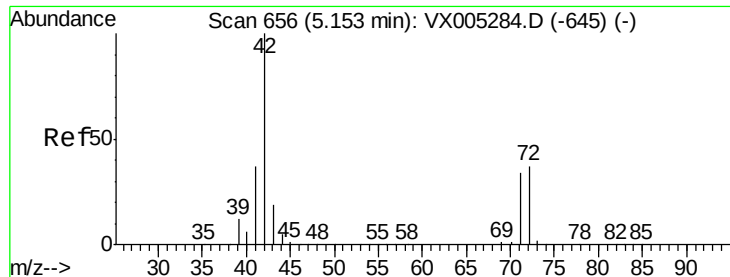


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

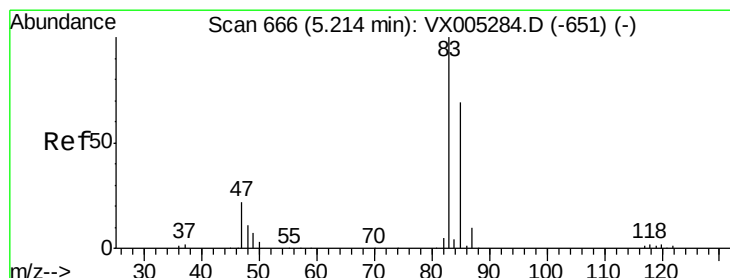
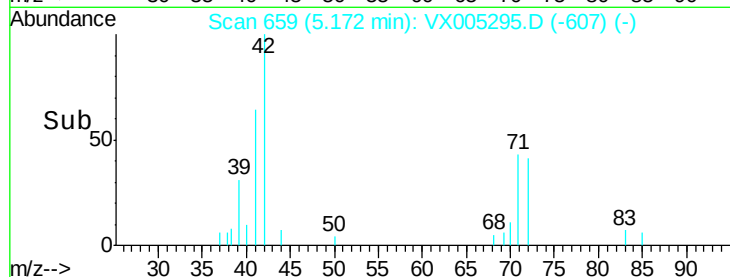
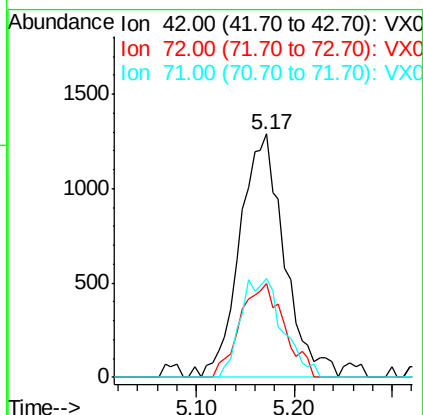
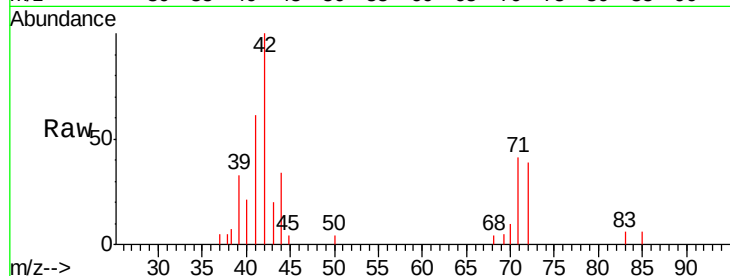




#29
Tetrahydrofuran
Concen: 2.78 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

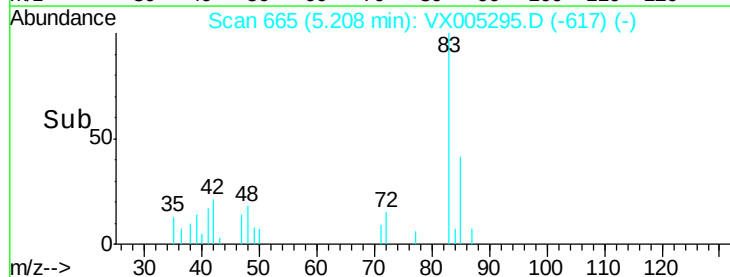
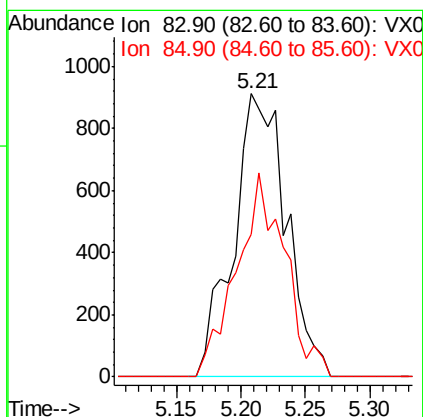
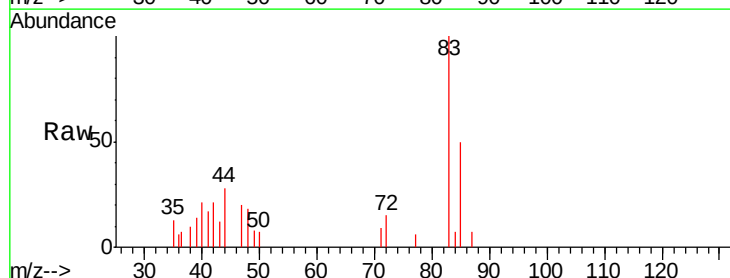
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

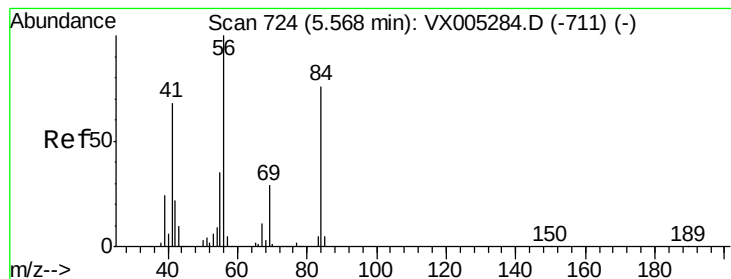
Tgt Ion: 42 Resp: 4089
Ion Ratio Lower Upper
42 100
72 38.0 37.4 56.0
71 38.0 34.5 51.7



#30
Chloroform
Concen: 0.62 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 83 Resp: 2599
Ion Ratio Lower Upper
83 100
85 50.2 52.6 79.0#





#31

Cyclohexane

Concen: 0.49 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

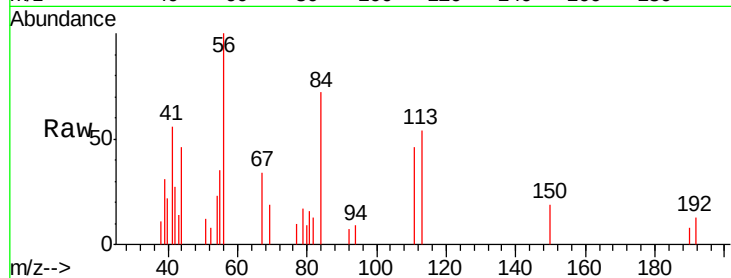
Tgt Ion: 56 Resp: 1842

Ion Ratio Lower Upper

56 100

69 19.3 25.4 38.2#

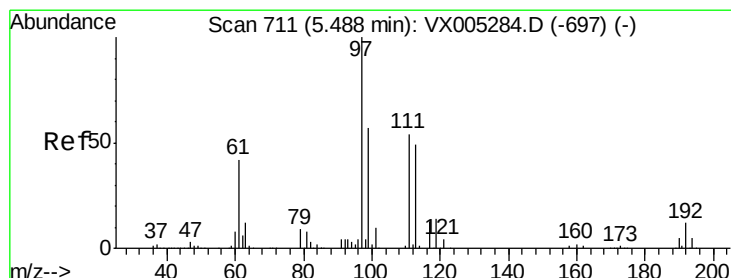
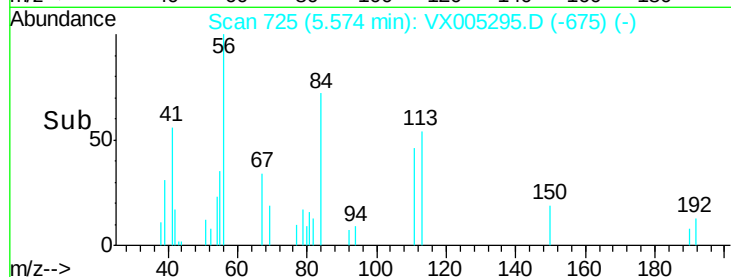
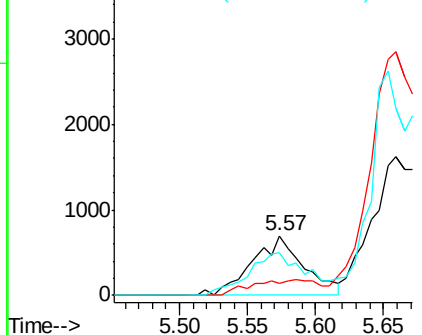
84 72.4 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 0.51 ug/l

RT: 5.48 min Scan# 710

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

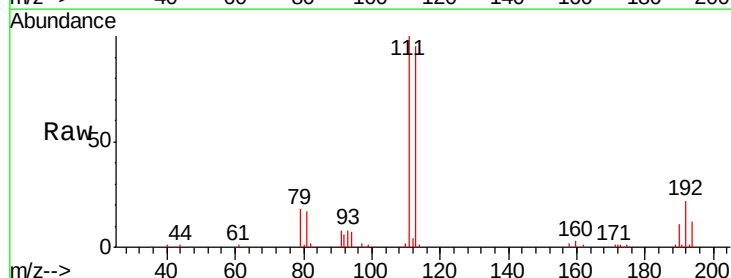
Tgt Ion: 97 Resp: 1862

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0#

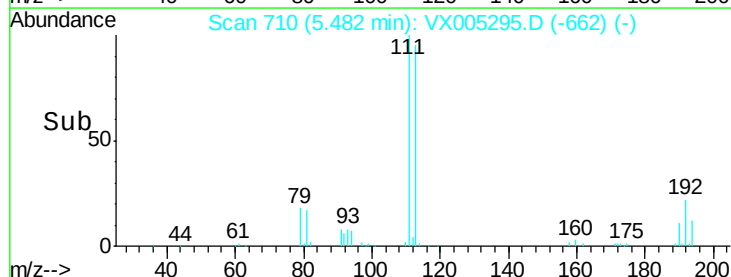
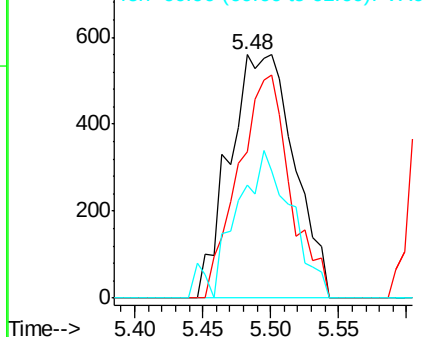
61 52.3 34.9 52.3

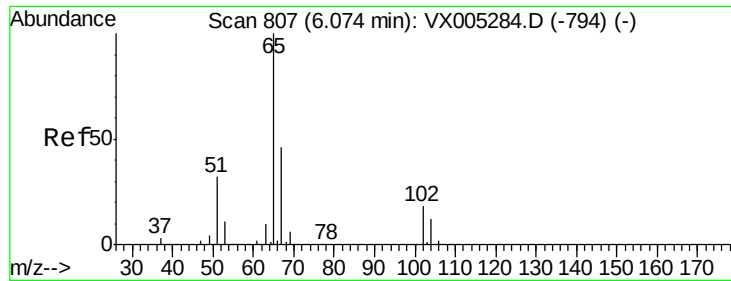


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

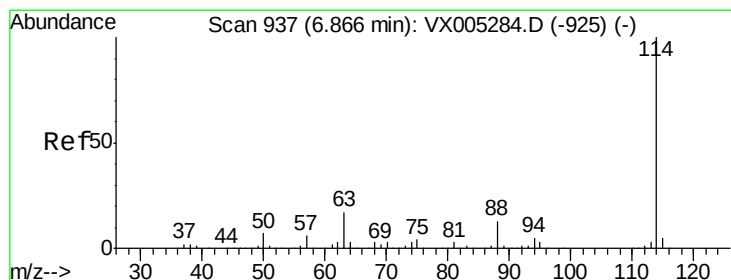
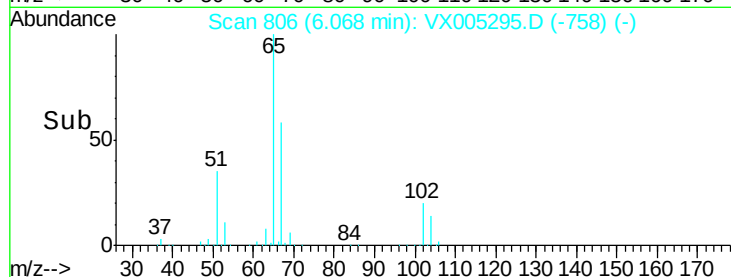
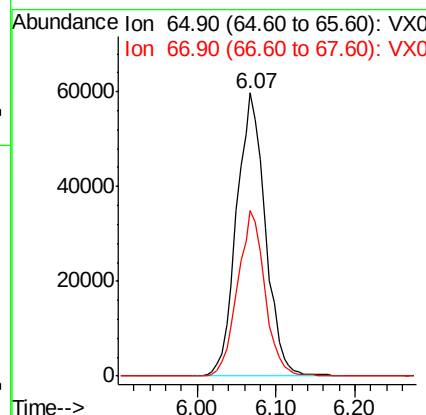
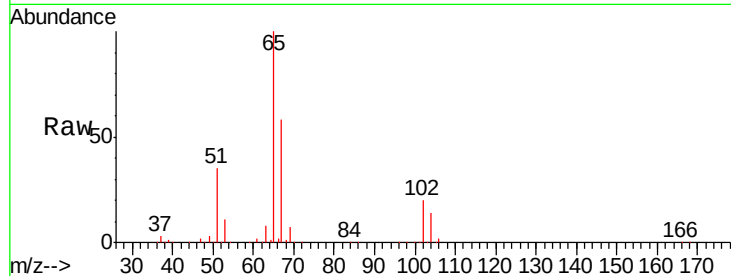




#33
 1,2-Dichloroethane-d4
 Concen: 55.42 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

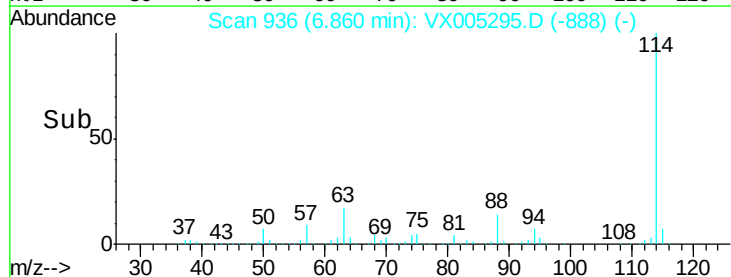
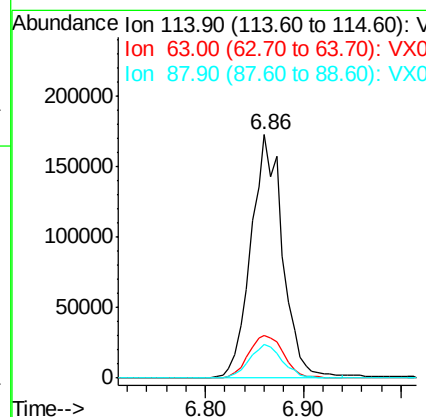
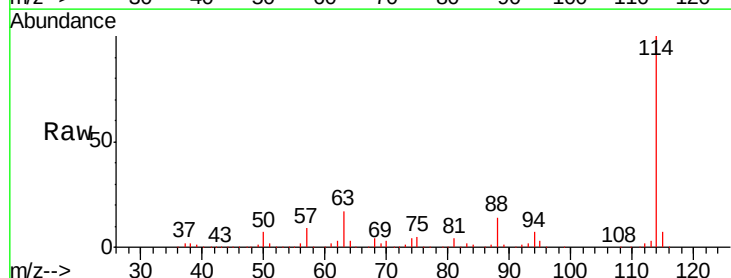
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

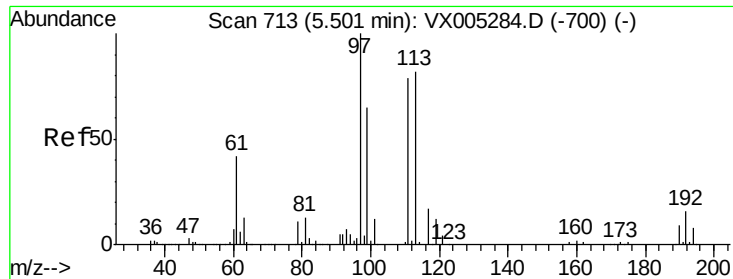
Tgt Ion: 65 Resp: 151180
 Ion Ratio Lower Upper
 65 100
 67 55.8 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Tgt Ion: 114 Resp: 388804
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 39.0
 88 13.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 45.80 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

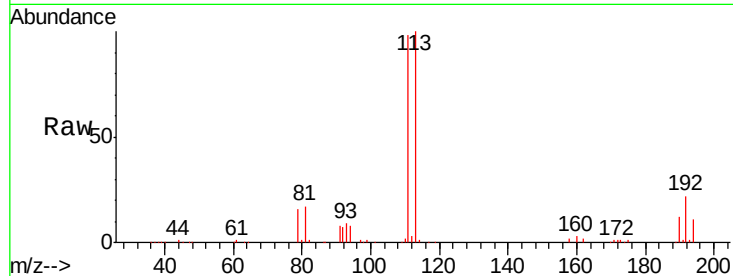
Tgt Ion:113 Resp: 117949

Ion Ratio Lower Upper

113 100

111 102.9 82.4 123.6

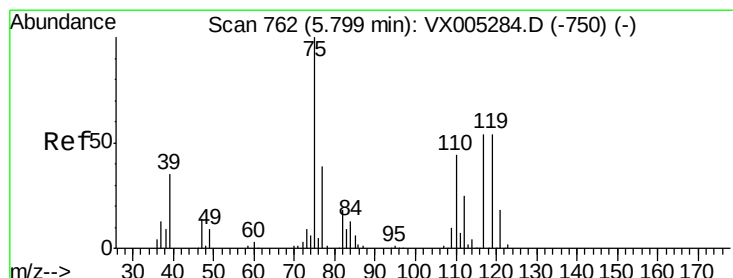
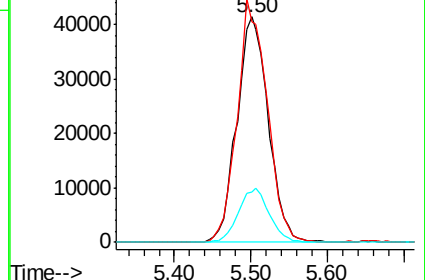
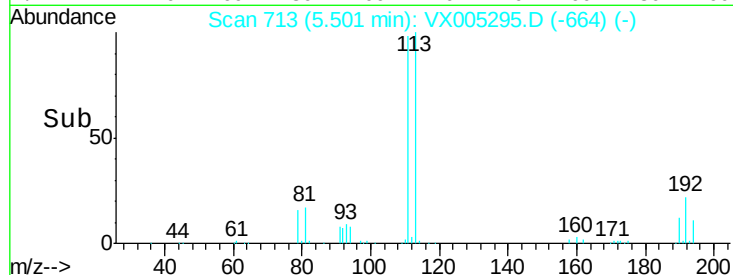
192 23.4 19.4 29.2



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: 0.62 ug/l

RT: 5.79 min Scan# 761

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

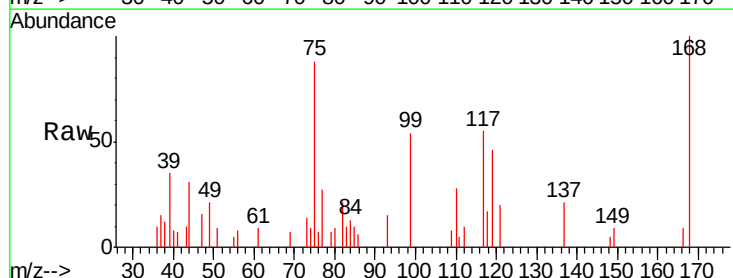
Tgt Ion: 75 Resp: 2317

Ion Ratio Lower Upper

75 100

110 29.4 18.0 54.0

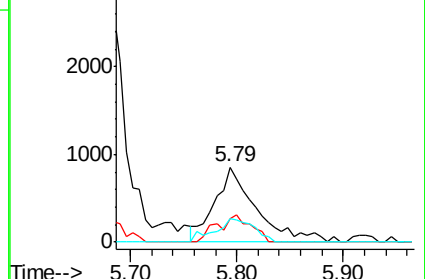
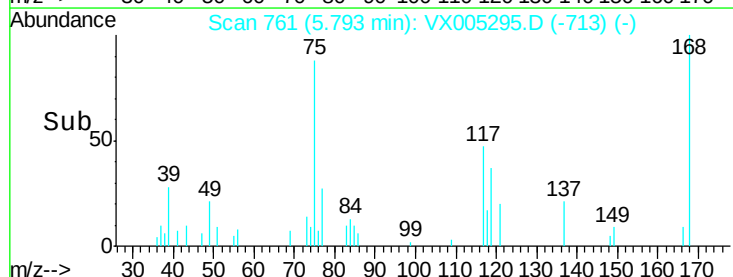
77 29.4 24.6 36.8

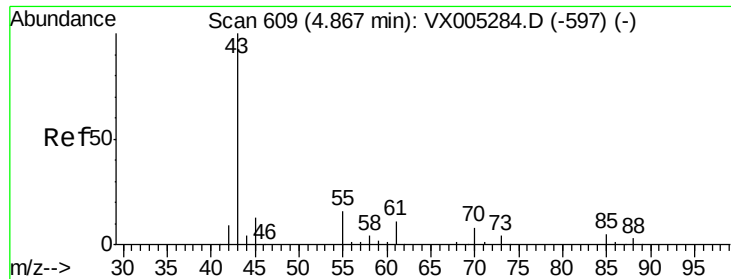


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.56 ug/l

RT: 4.85 min Scan# 607

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

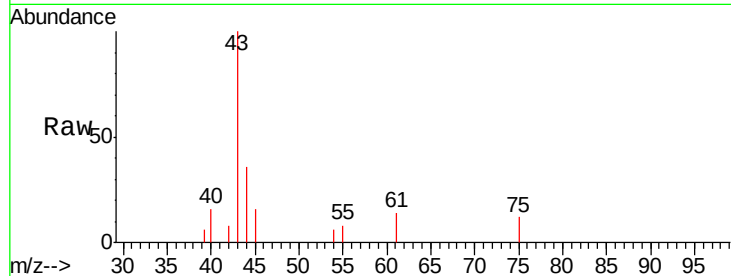
Tgt Ion: 43 Resp: 2698

Ion Ratio Lower Upper

43 100

61 13.7 11.5 17.3

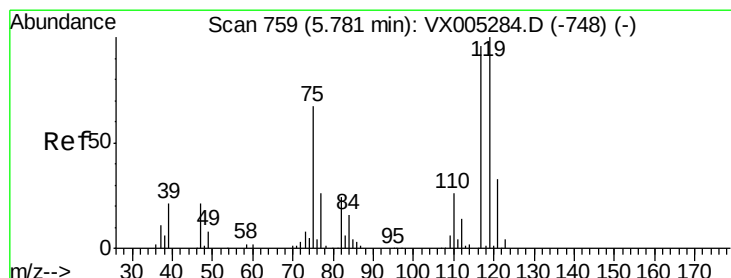
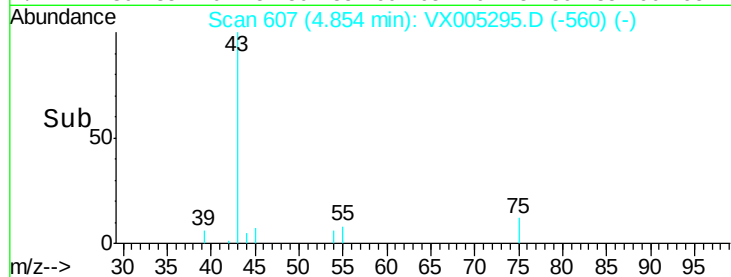
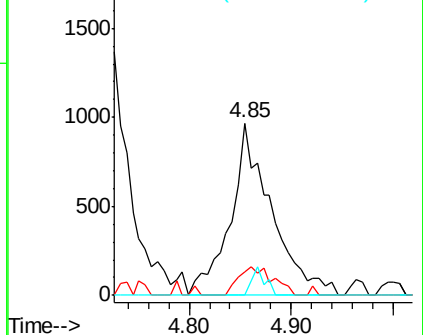
70 5.4 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 0.56 ug/l

RT: 5.78 min Scan# 758

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

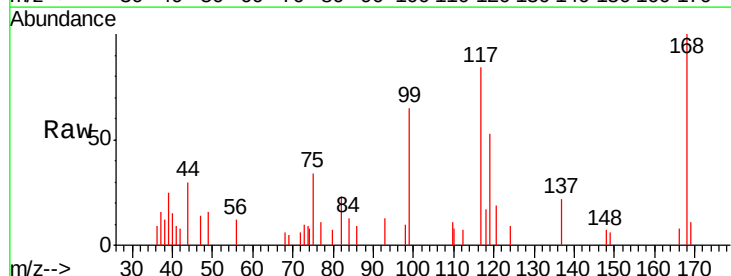
Tgt Ion: 117 Resp: 2128

Ion Ratio Lower Upper

117 100

119 62.9 78.8 118.2#

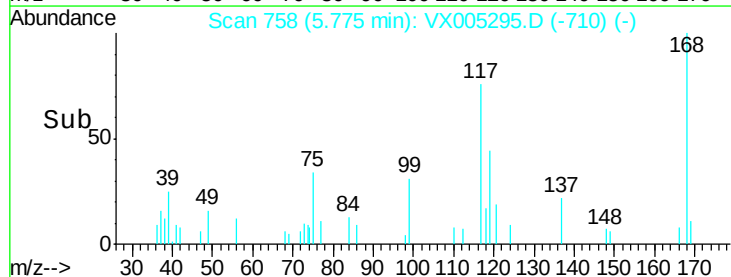
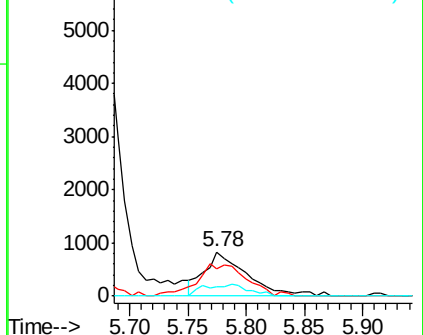
121 22.3 24.9 37.3#

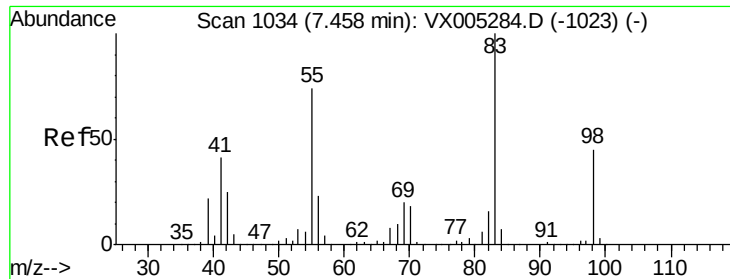


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

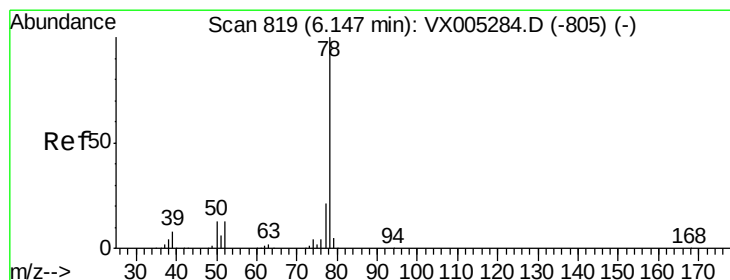
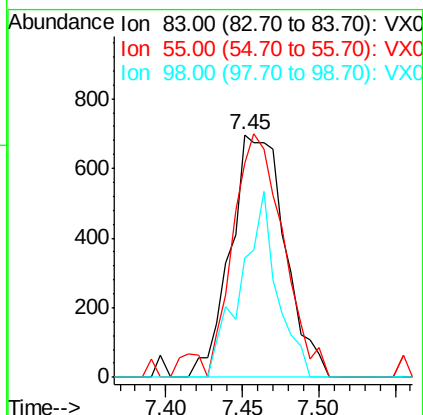
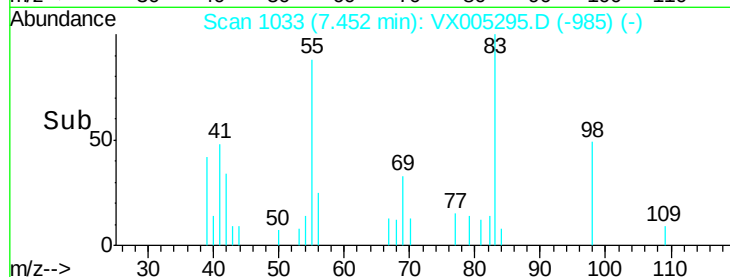
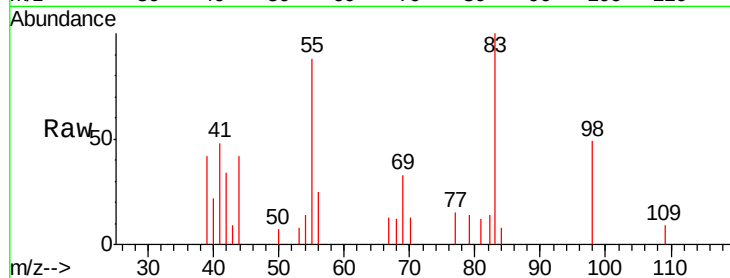




#39
Methylcyclohexane
Concen: 0.42 ug/l
RT: 7.45 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

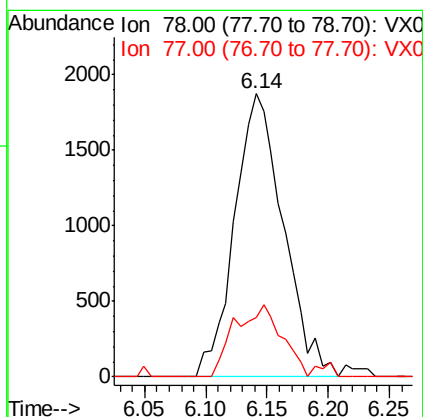
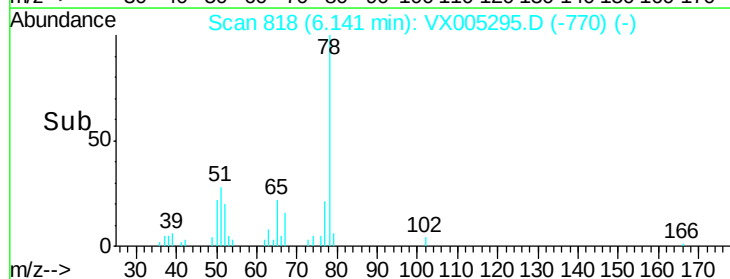
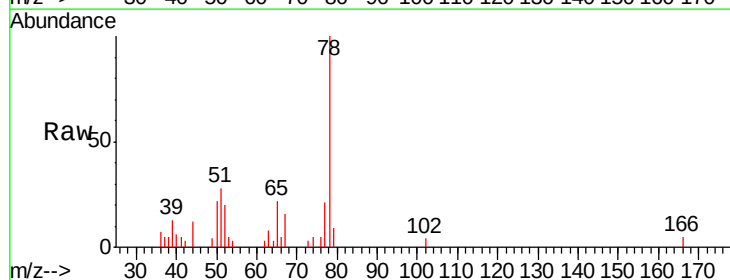
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

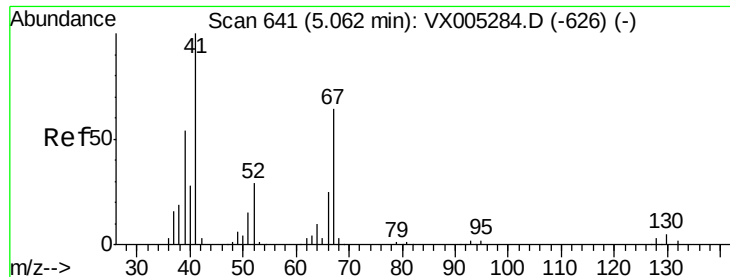
Tgt Ion: 83 Resp: 1728
Ion Ratio Lower Upper
83 100
55 88.2 61.0 91.4
98 49.1 39.6 59.4



#40
Benzene
Concen: 0.46 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 78 Resp: 5189
Ion Ratio Lower Upper
78 100
77 21.1 19.0 28.4

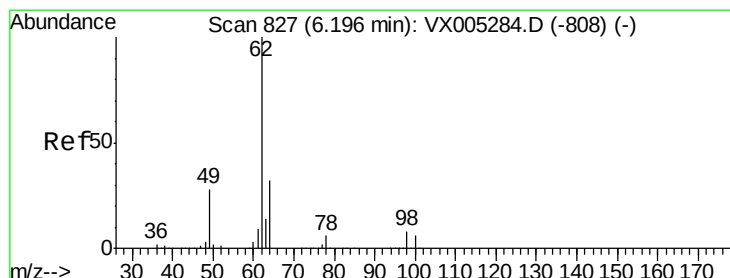
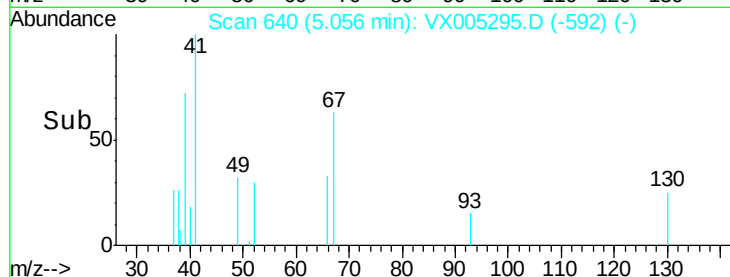
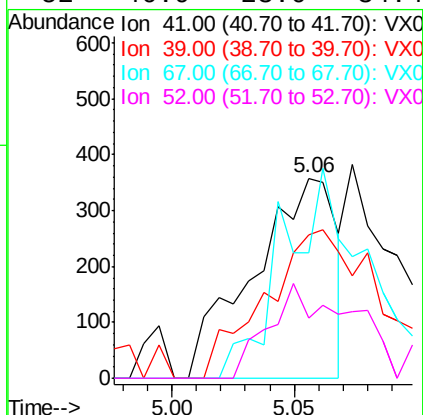
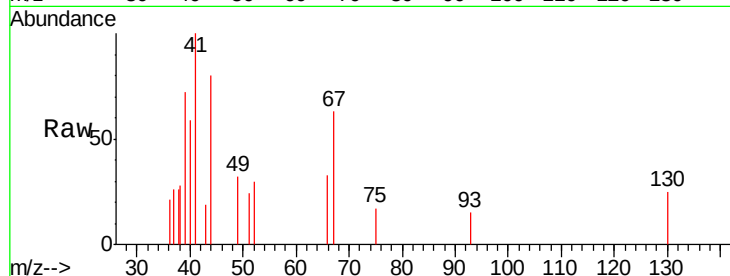




#41
Methacrylonitrile
Concen: 0.33 ug/l
RT: 5.06 min Scan# 640
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

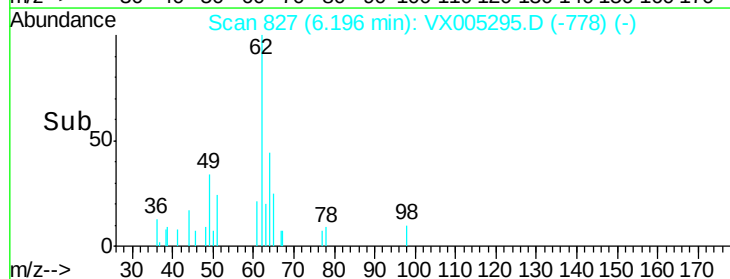
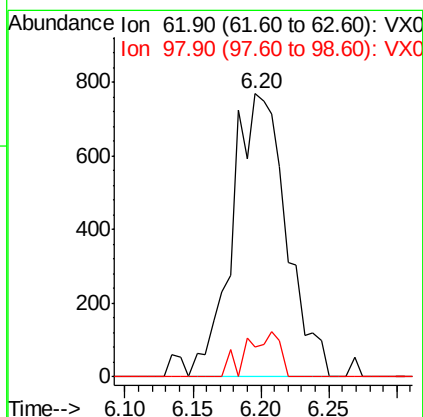
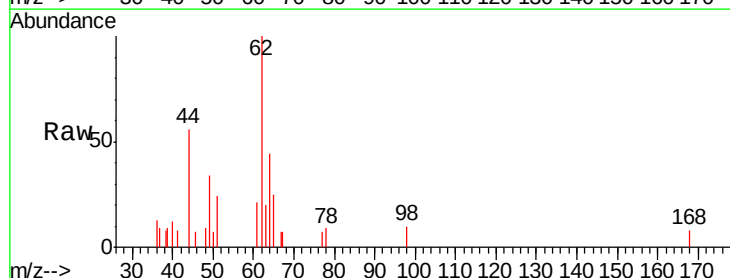
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

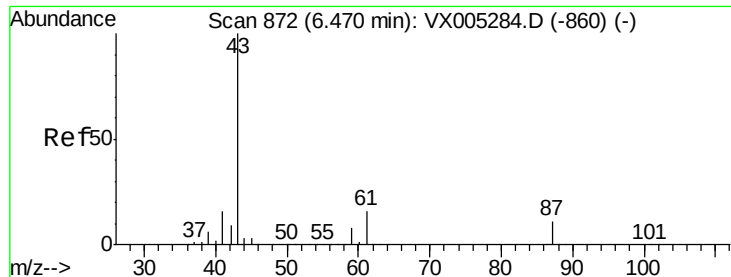
Tgt Ion:	41	Resp:	846
Ion	Ratio	Lower	Upper
41	100		
39	97.3	42.4	63.6#
67	108.4	59.2	88.8#
52	46.9	23.0	34.4#



#42
1,2-Dichloroethane
Concen: 0.54 ug/l
RT: 6.20 min Scan# 827
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion:	62	Resp:	2137
Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.6





#43

Isopropyl Acetate

Concen: 0.48 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

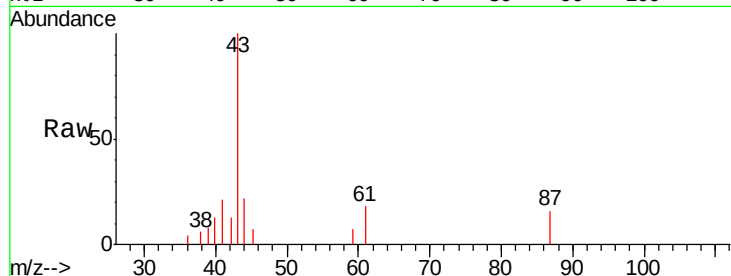
Tgt Ion: 43 Resp: 3077

Ion	Ratio	Lower	Upper
43	100		
61	19.9	17.0	25.4
87	13.5	11.4	17.2

43 100

61 19.9 17.0 25.4

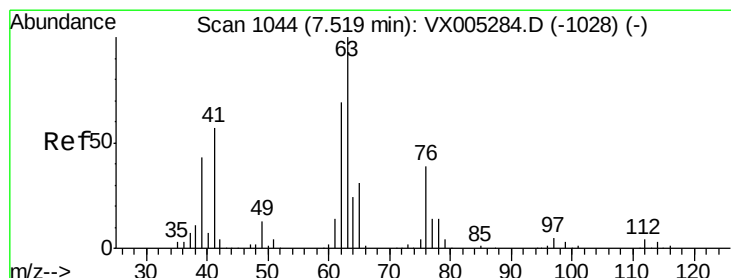
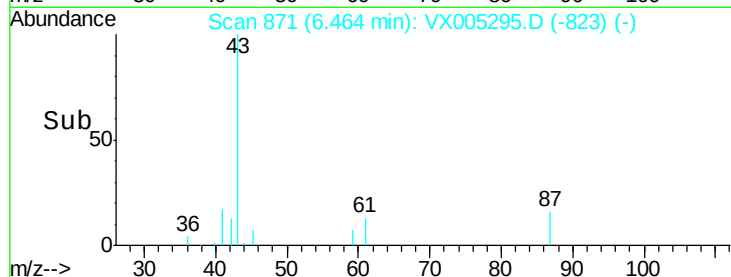
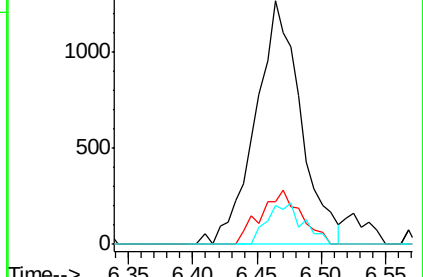
87 13.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#45

1,2-Dichloropropane

Concen: 0.51 ug/l

RT: 7.52 min Scan# 1045

Delta R.T. 0.01 min

Lab File: VX005295.D

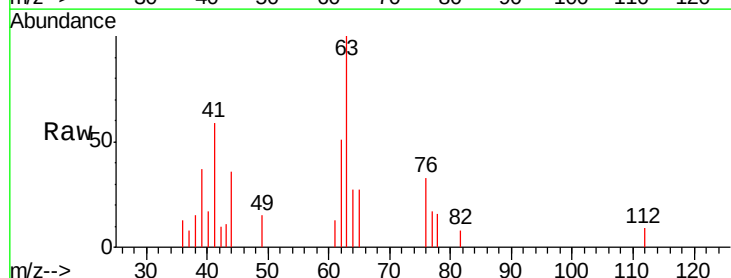
Acq: 12 Oct 2018 16:05

Tgt Ion: 63 Resp: 1408

Ion	Ratio	Lower	Upper
63	100		
65	27.0	24.3	36.5

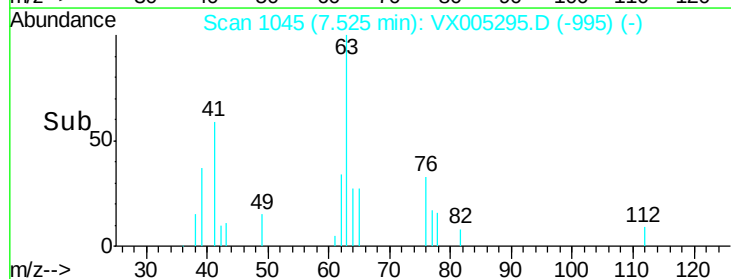
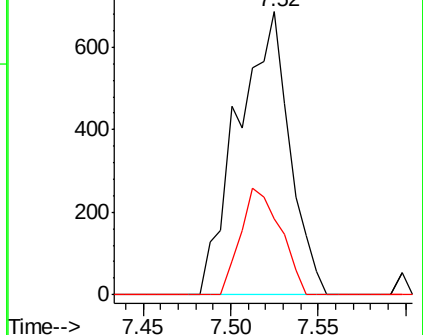
63 100

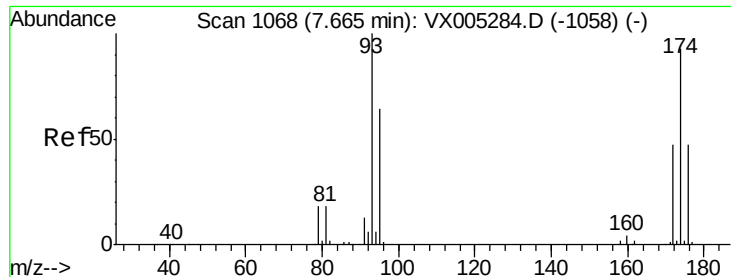
65 27.0 24.3 36.5



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

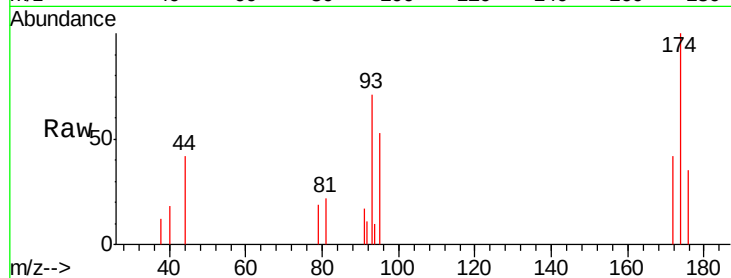




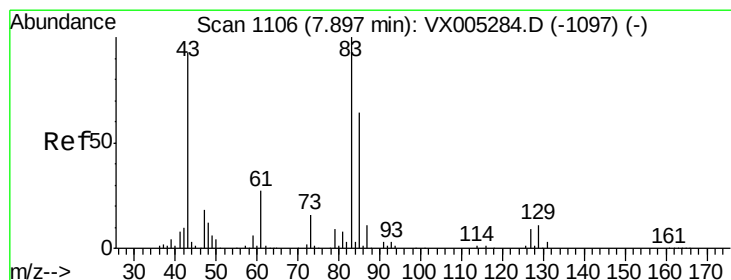
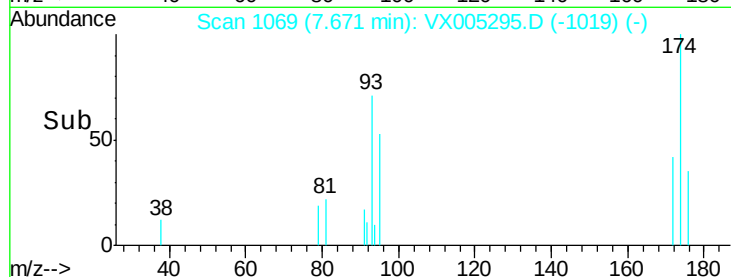
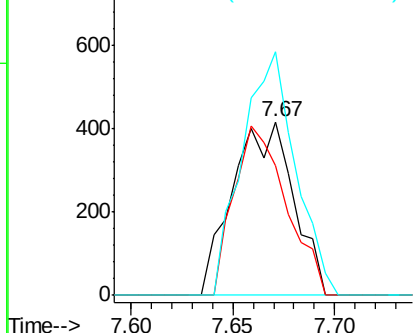
#46
Dibromomethane
Concen: 0.47 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. 0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 93 Resp: 863
Ion Ratio Lower Upper
93 100
95 83.8 65.5 98.3
174 122.9 94.2 141.4

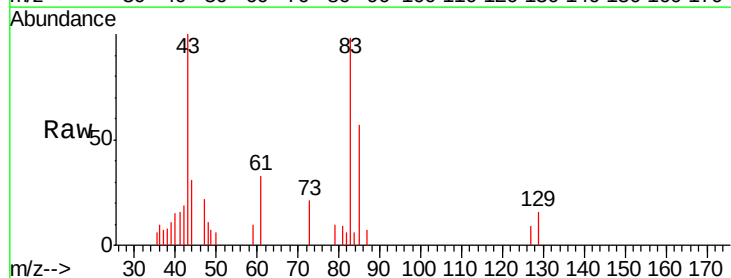


Abundance Ion 92.80 (92.50 to 93.50): VX0
Ion 94.80 (94.50 to 95.50): VX0
Ion 173.70 (173.40 to 174.40): V

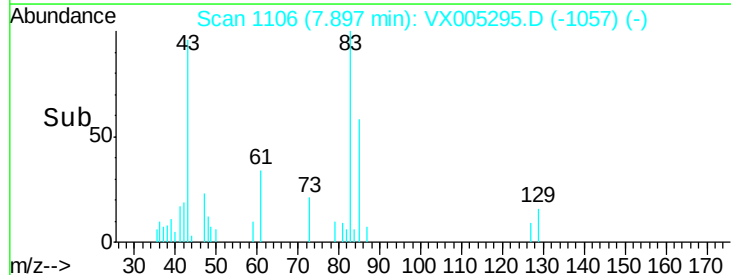
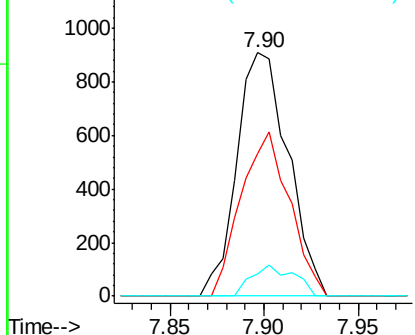


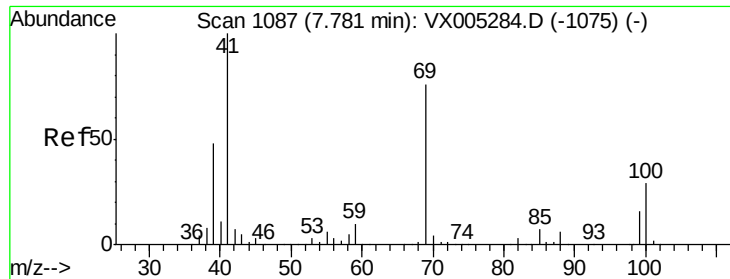
#47
Bromodichloromethane
Concen: 0.51 ug/l
RT: 7.90 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 83 Resp: 1716
Ion Ratio Lower Upper
83 100
85 58.3 50.9 76.3
127 9.1 7.3 10.9



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V

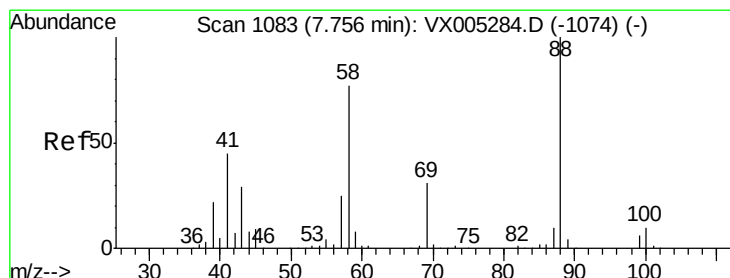
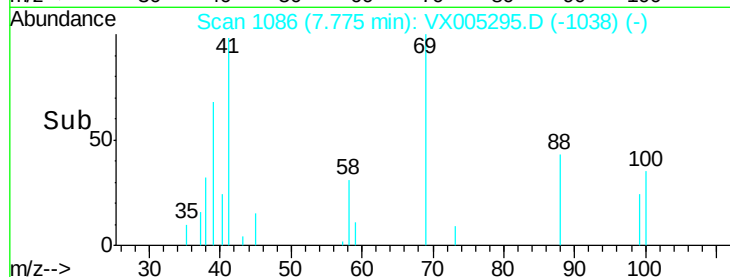
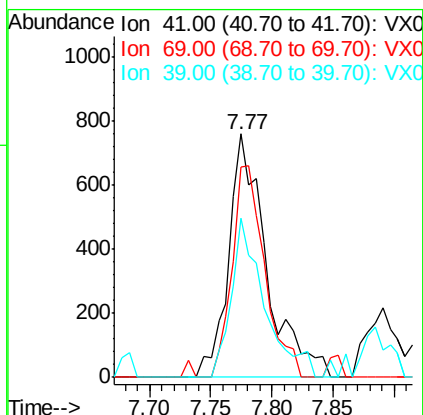
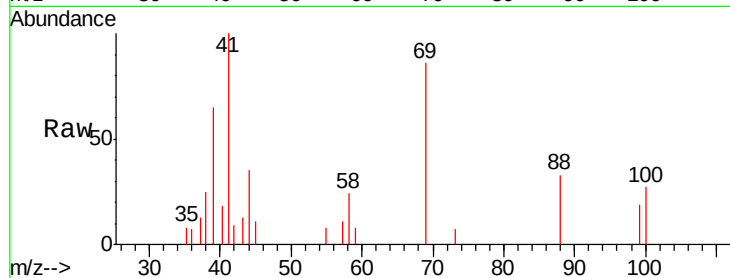




#48
Methyl methacrylate
Concen: 0.49 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

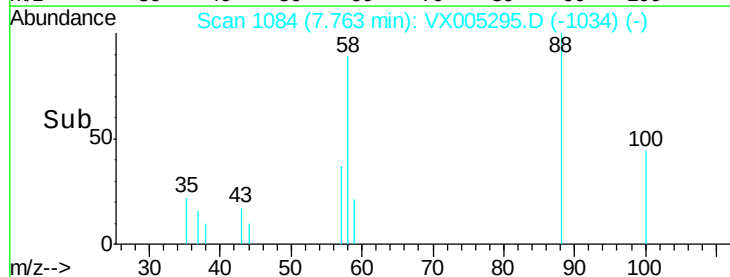
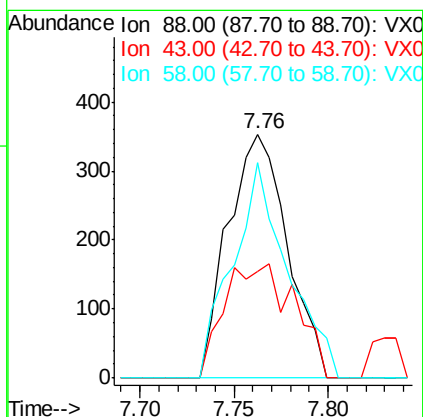
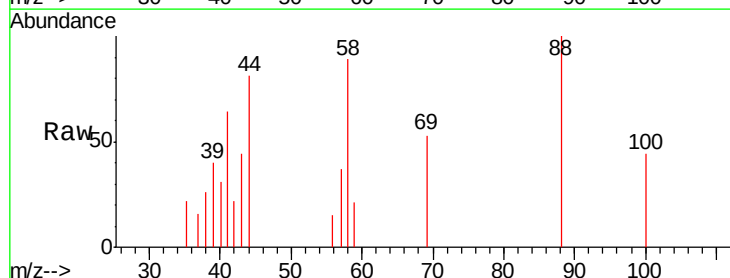
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

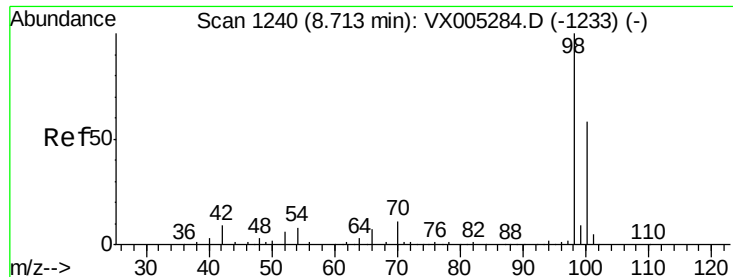
Tgt Ion: 41 Resp: 1626
Ion Ratio Lower Upper
41 100
69 75.0 70.2 105.4
39 57.3 42.7 64.1



#49
1,4-Dioxane
Concen: 9.95 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 88 Resp: 768
Ion Ratio Lower Upper
88 100
43 55.3 24.7 37.1#
58 82.4 55.3 82.9

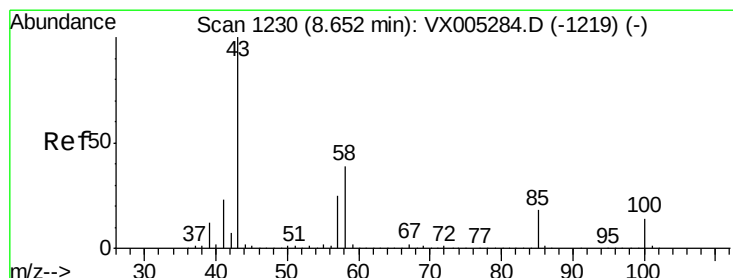
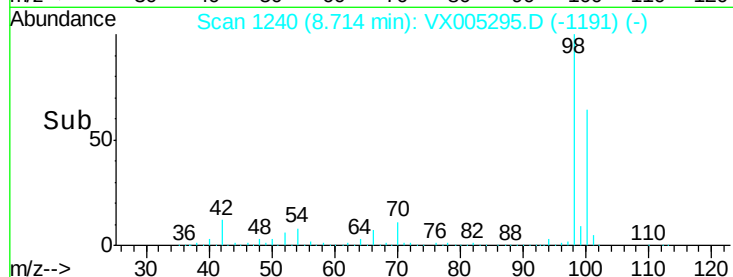
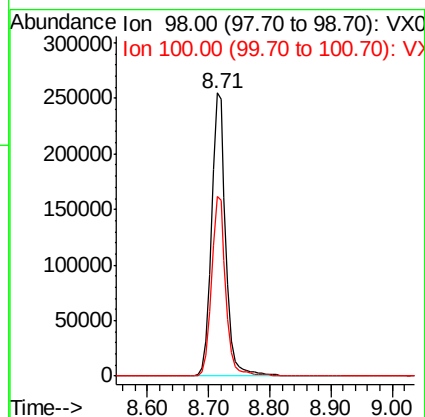
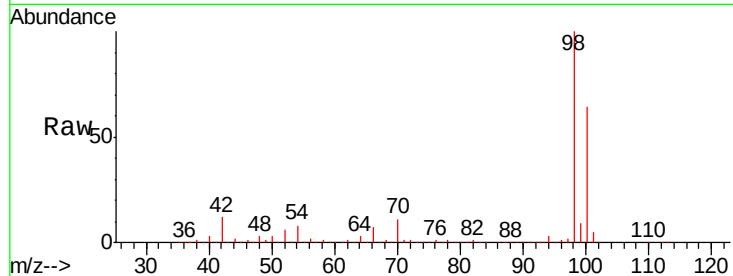




#50
Toluene-d8
Concen: 47.85 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

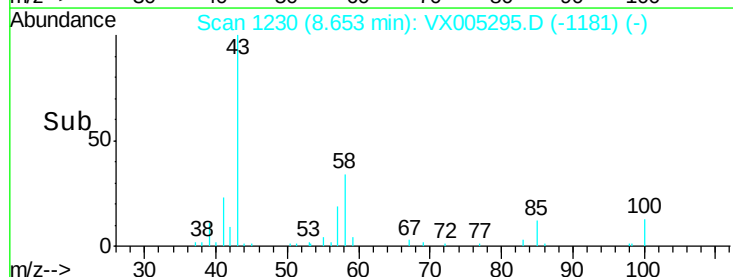
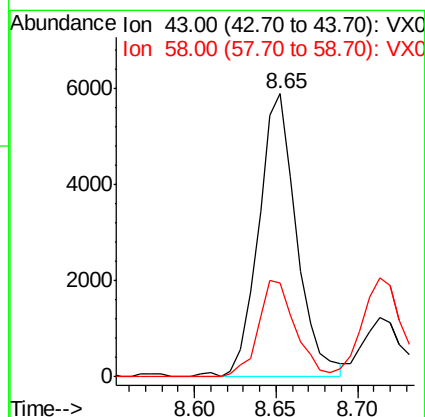
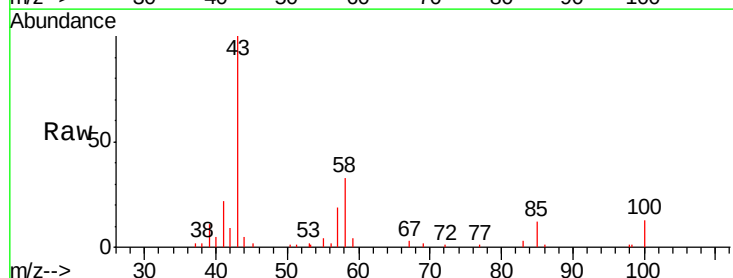
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

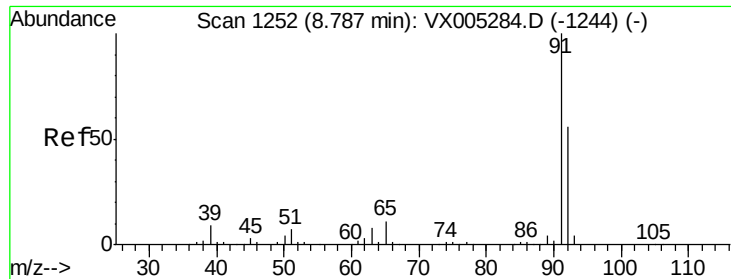
Tgt Ion: 98 Resp: 423000
Ion Ratio Lower Upper
98 100
100 63.2 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 2.12 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 43 Resp: 9482
Ion Ratio Lower Upper
43 100
58 33.4 33.1 49.7





#52

Toluene

Concen: 0.50 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

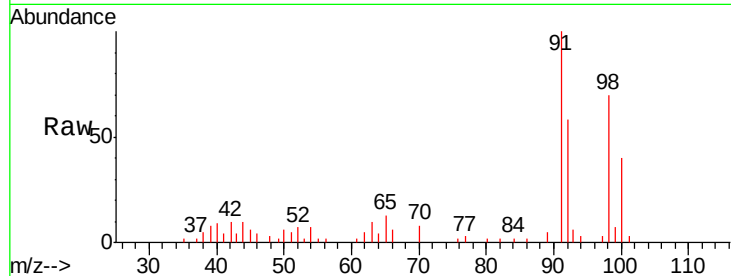
MDL-WATER-03-QT4-2018

Tgt Ion: 92 Resp: 3113

Ion Ratio Lower Upper

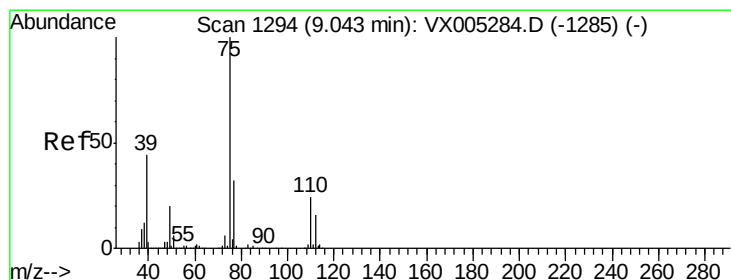
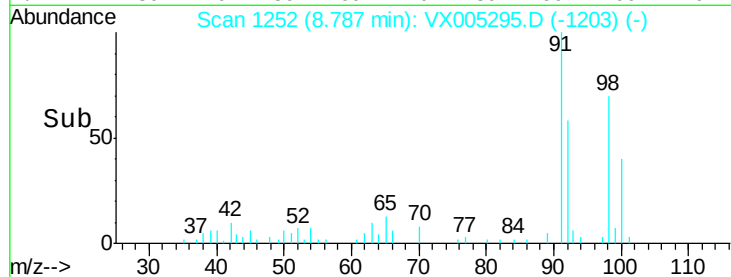
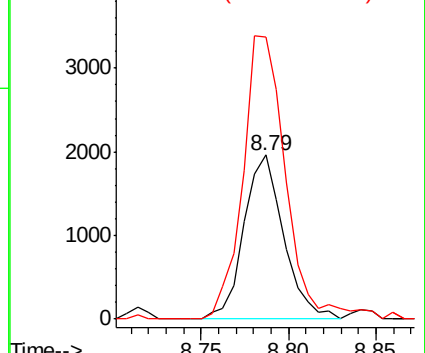
92 100

91 187.2 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#53

t-1,3-Dichloropropene

Concen: 0.45 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX005295.D

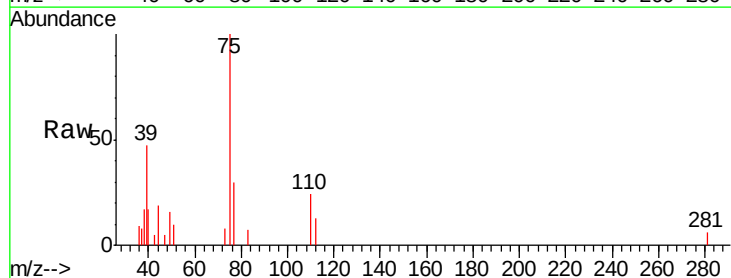
Acq: 12 Oct 2018 16:05

Tgt Ion: 75 Resp: 1638

Ion Ratio Lower Upper

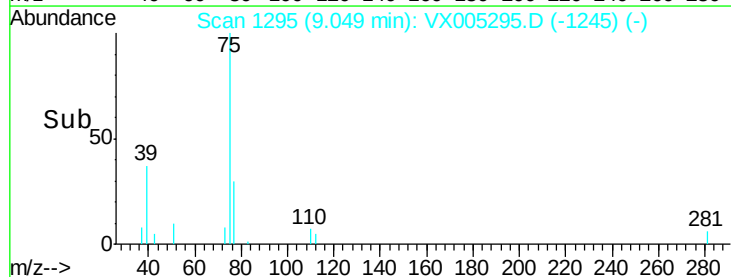
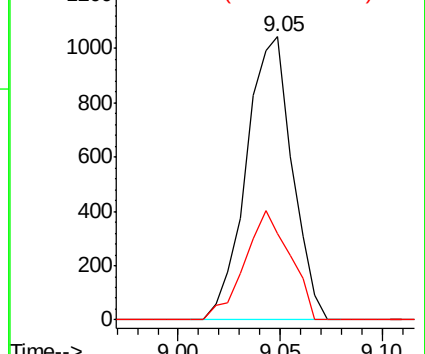
75 100

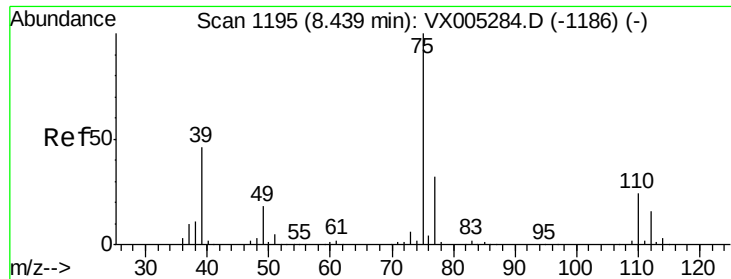
77 30.4 24.6 37.0



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

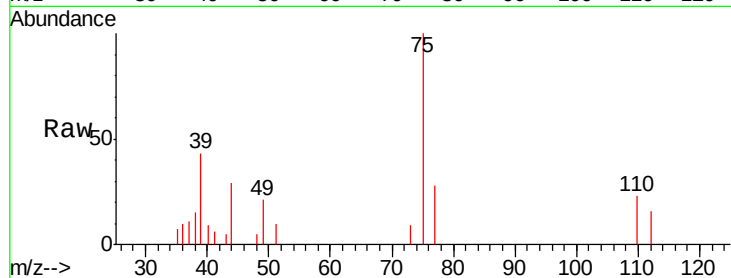




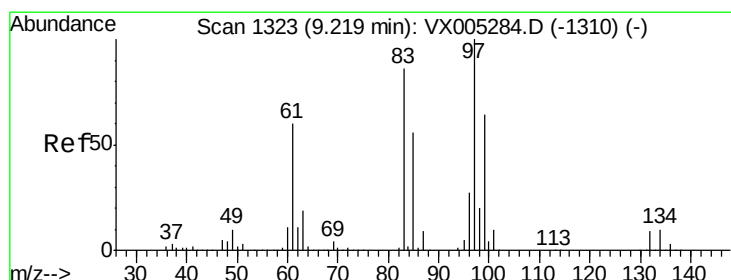
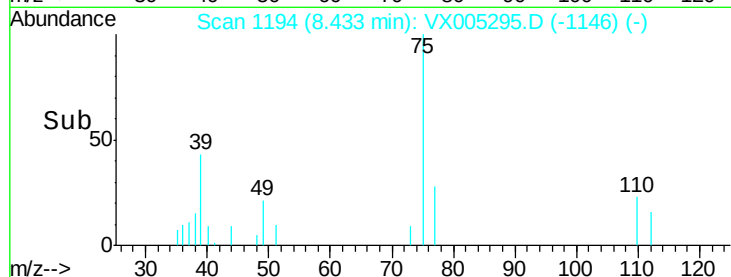
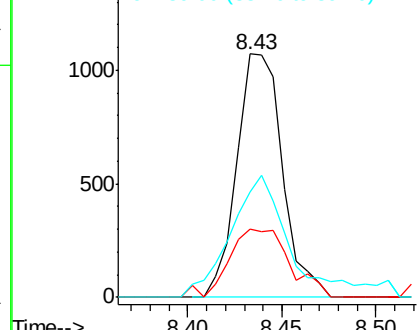
#54
 cis-1,3-Dichloropropene
 Concen: 0.45 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion:	75	Resp:	1797
Ion	Ratio	Lower	Upper
75	100		
77	28.3	26.2	39.2
39	38.1	36.4	54.6

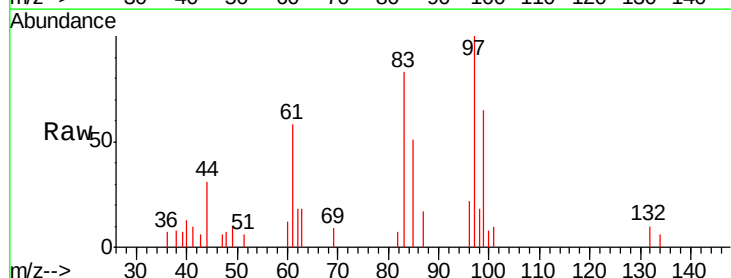


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

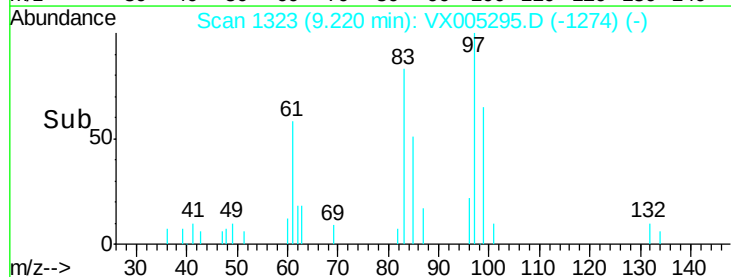
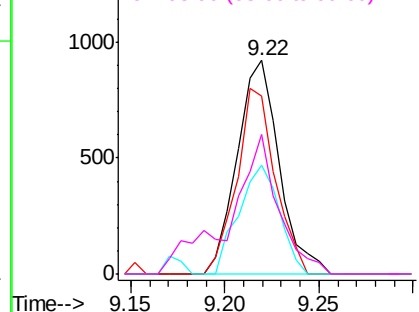


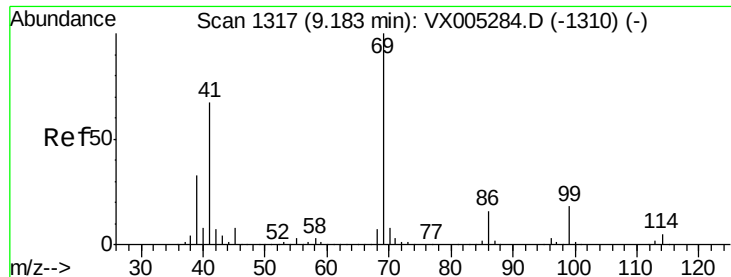
#55
 1,1,2-Trichloroethane
 Concen: 0.55 ug/l
 RT: 9.22 min Scan# 1323
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Tgt Ion:	97	Resp:	1427
Ion	Ratio	Lower	Upper
97	100		
83	83.4	66.4	99.6
85	50.8	43.3	64.9
99	65.5	49.0	73.4



Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

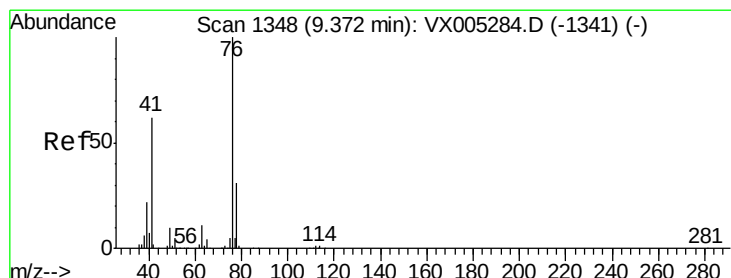
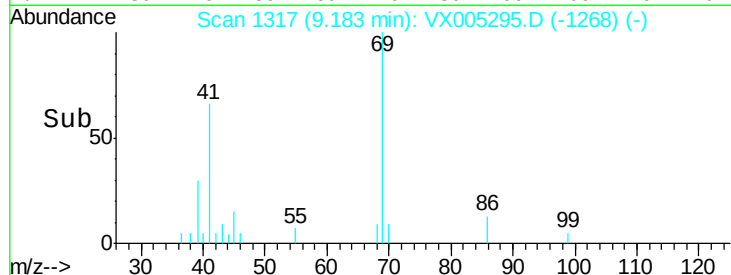
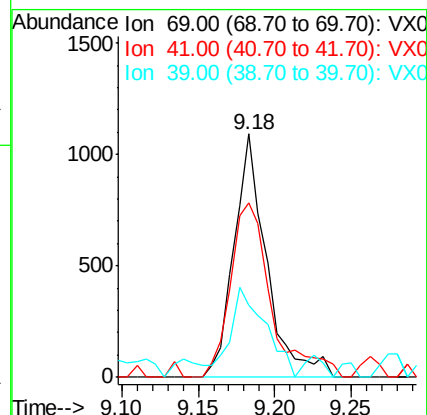
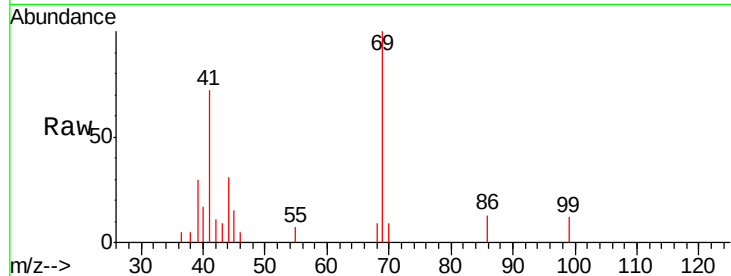




#56
Ethyl methacrylate
Concen: 0.42 ug/l
RT: 9.18 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

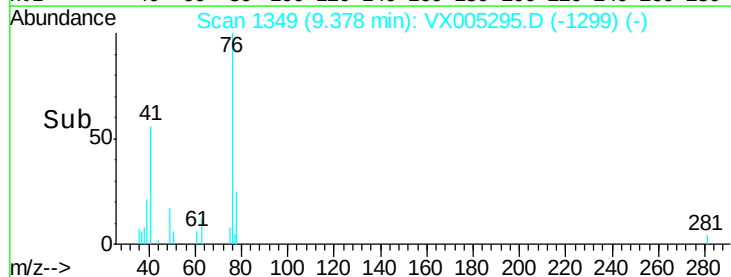
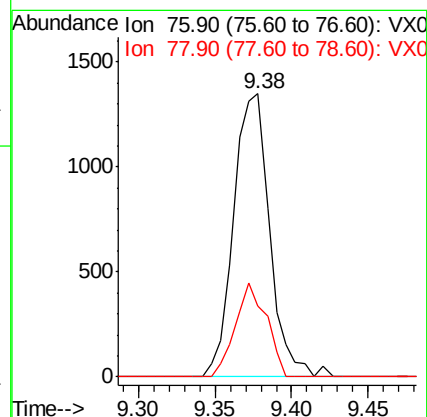
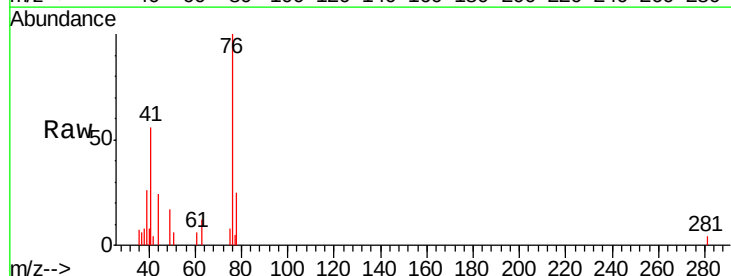
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

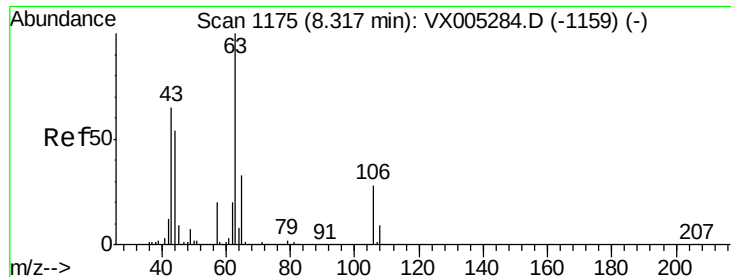
Tgt Ion: 69 Resp: 1617
Ion Ratio Lower Upper
69 100
41 89.2 51.0 76.4#
39 39.2 26.1 39.1#



#57
1,3-Dichloropropane
Concen: 0.51 ug/l
RT: 9.38 min Scan# 1349
Delta R.T. 0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 76 Resp: 2207
Ion Ratio Lower Upper
76 100
78 28.6 25.5 38.3

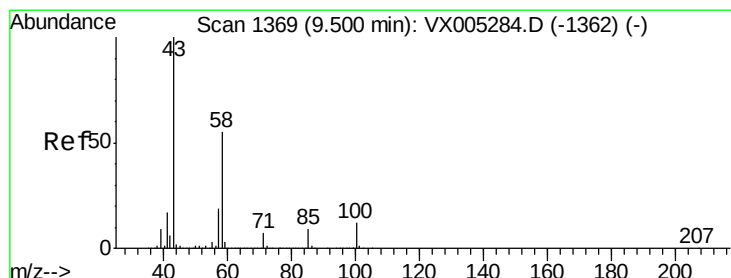
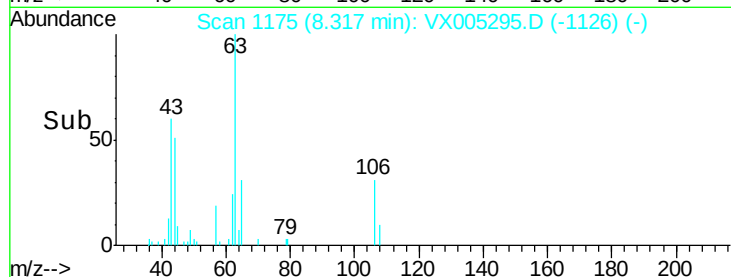
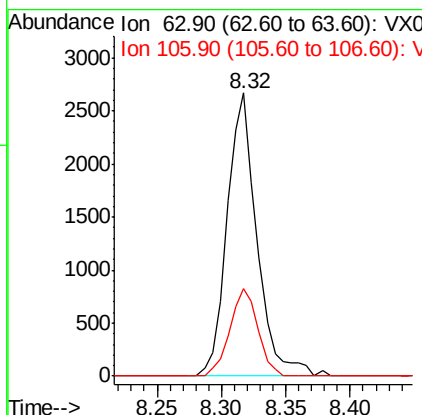
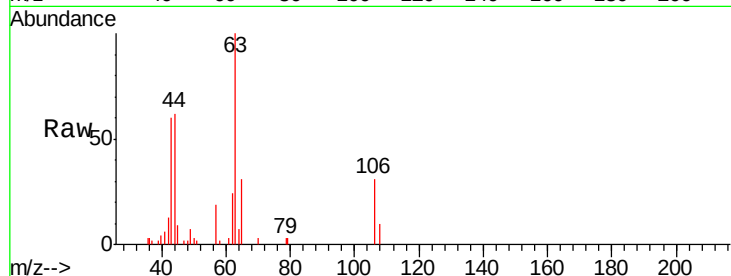




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.02 ug/l
 RT: 8.32 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

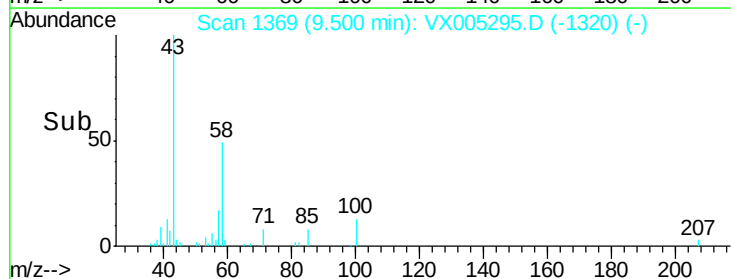
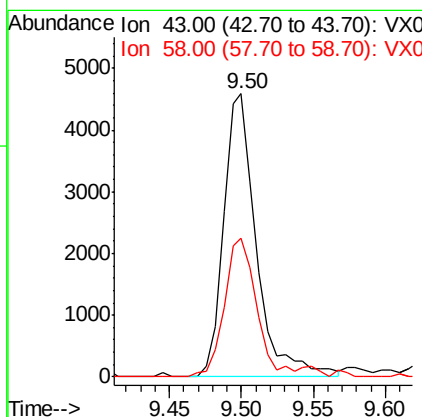
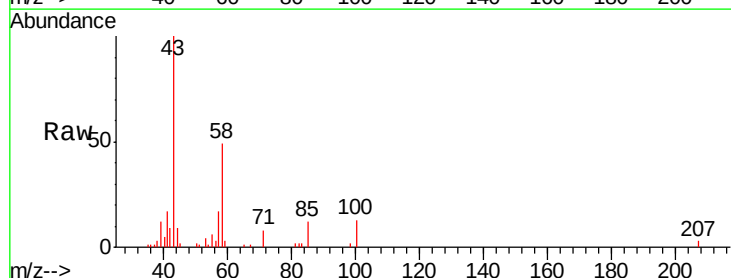
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

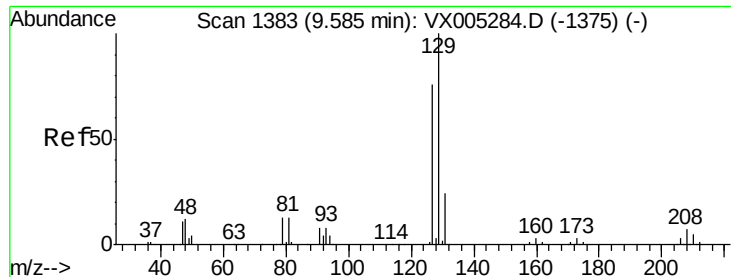
Tgt Ion: 63 Resp: 4331
 Ion Ratio Lower Upper
 63 100
 106 29.0 23.9 35.9



#59
 2-Hexanone
 Concen: 2.03 ug/l
 RT: 9.50 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Tgt Ion: 43 Resp: 7307
 Ion Ratio Lower Upper
 43 100
 58 48.0 29.0 87.0





#60

Dibromochloromethane

Concen: 0.42 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

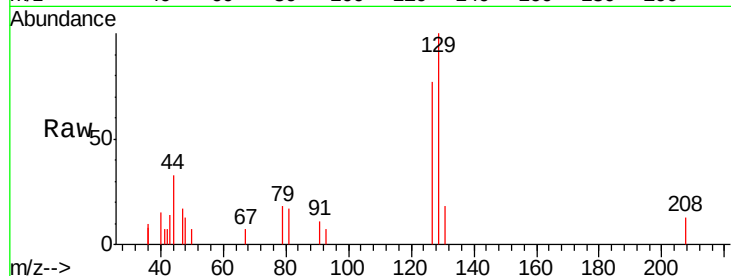
MDL-WATER-03-QT4-2018

Tgt Ion:129 Resp: 1131

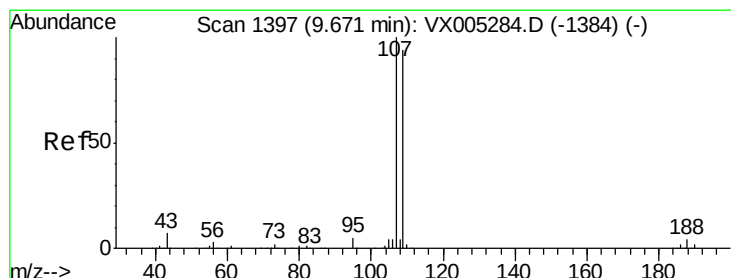
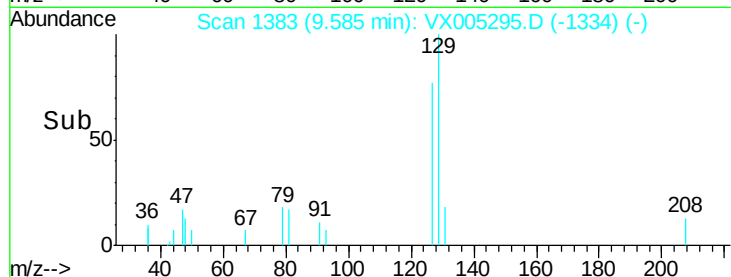
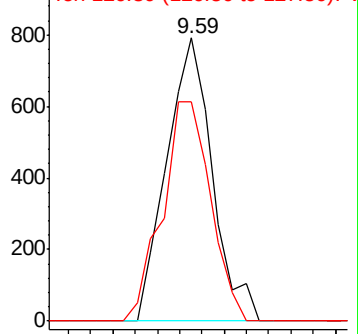
Ion Ratio Lower Upper

129 100

127 81.8 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): V



#61

1,2-Dibromoethane

Concen: 0.46 ug/l

RT: 9.68 min Scan# 1398

Delta R.T. 0.01 min

Lab File: VX005295.D

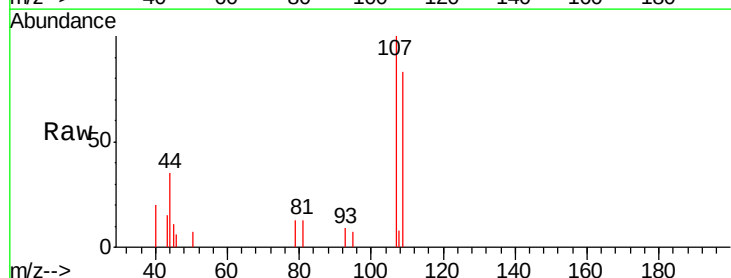
Acq: 12 Oct 2018 16:05

Tgt Ion:107 Resp: 1252

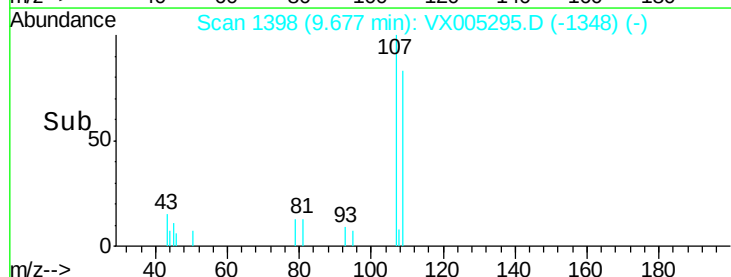
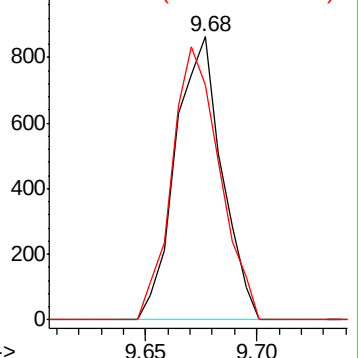
Ion Ratio Lower Upper

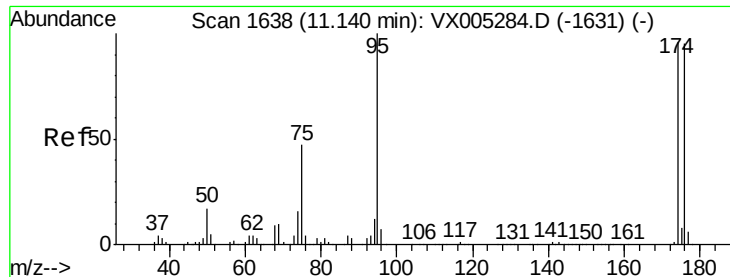
107 100

109 99.6 76.0 114.0



Abundance Ion 106.90 (106.60 to 107.60): V

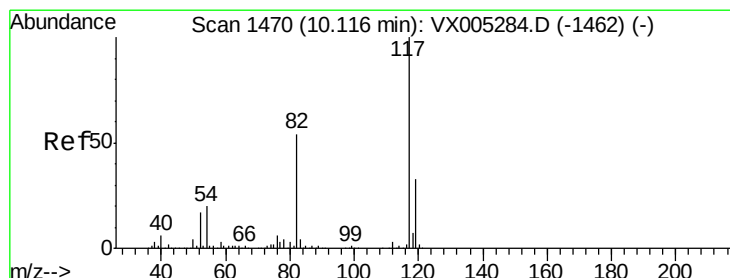
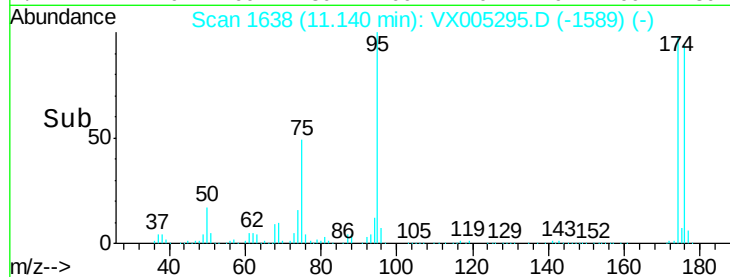
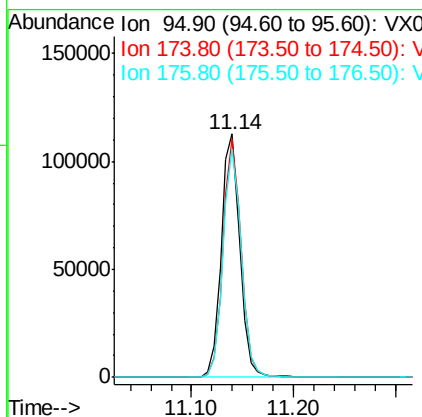
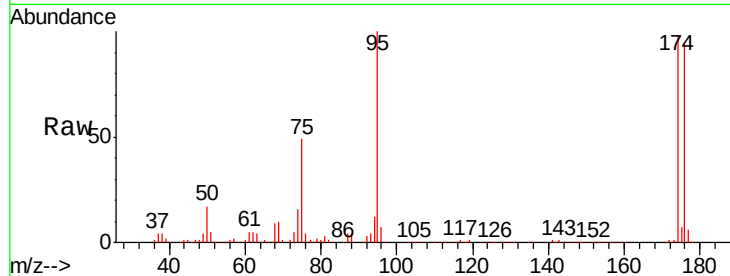




#62
4-Bromofluorobenzene
Concen: 43.43 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

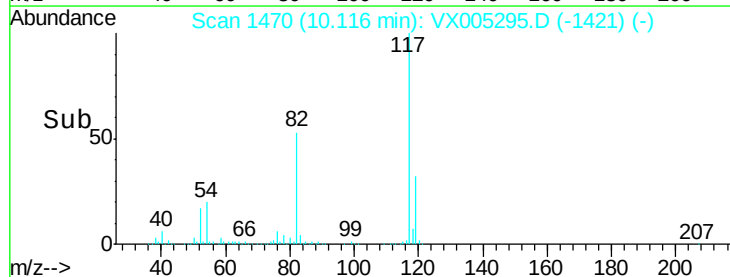
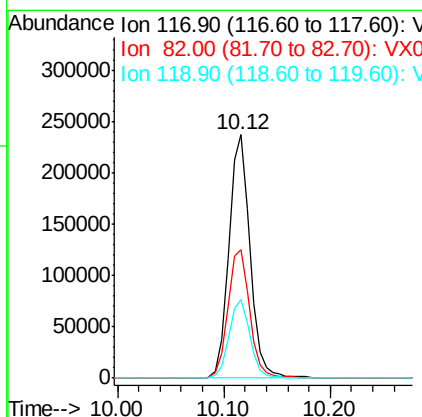
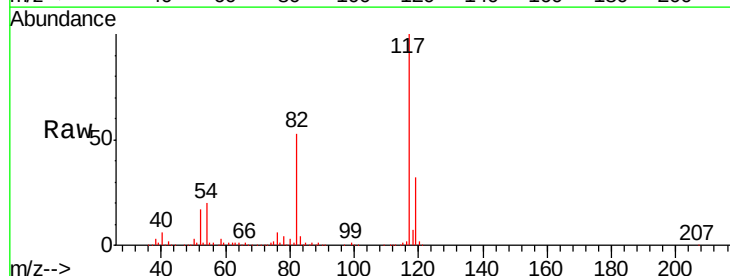
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

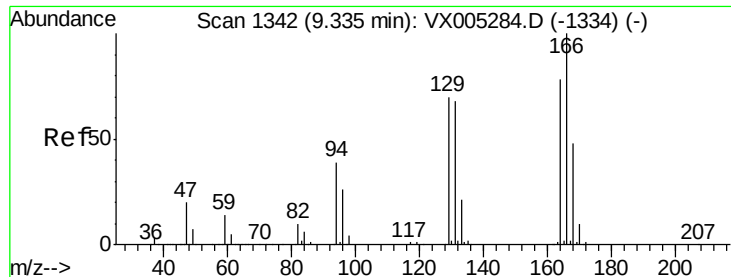
Tgt Ion: 95 Resp: 144227
Ion Ratio Lower Upper
95 100
174 95.6 0.0 185.2
176 92.4 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 117 Resp: 331179
Ion Ratio Lower Upper
117 100
82 52.6 47.8 71.6
119 32.4 29.3 43.9





#64

Tetrachloroethene

Concen: 0.57 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion:164 Resp: 1507

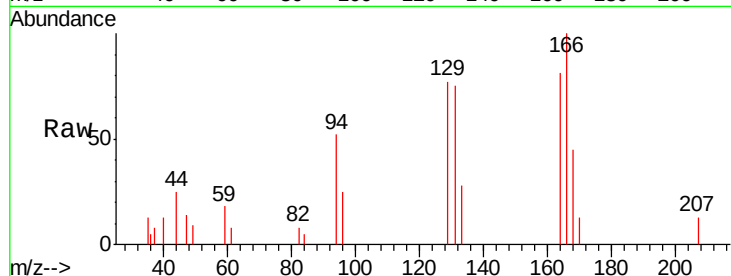
Ion Ratio Lower Upper

164 100

166 123.6 102.8 154.2

129 95.7 69.4 104.0

131 92.4 67.9 101.9

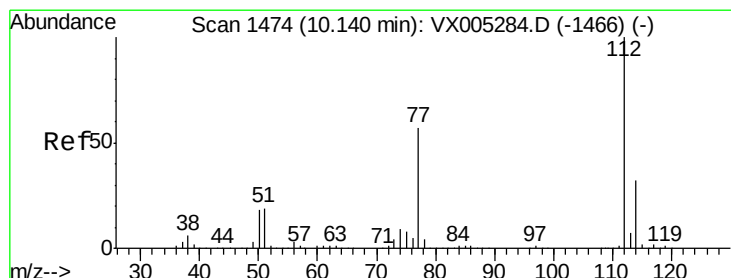
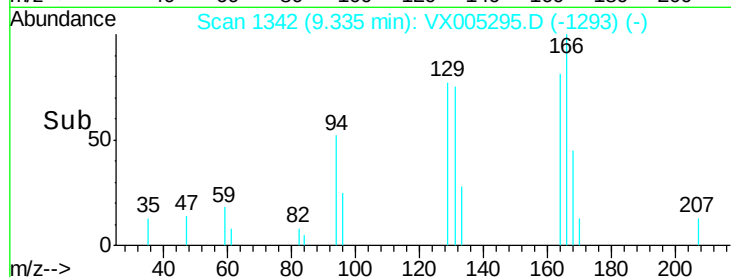
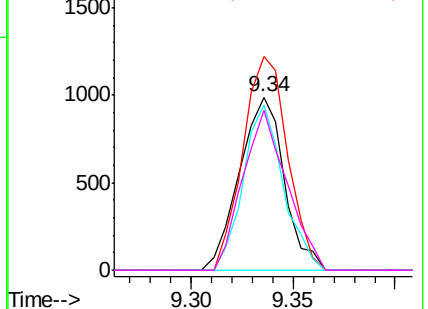


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.51 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.00 min

Lab File: VX005295.D

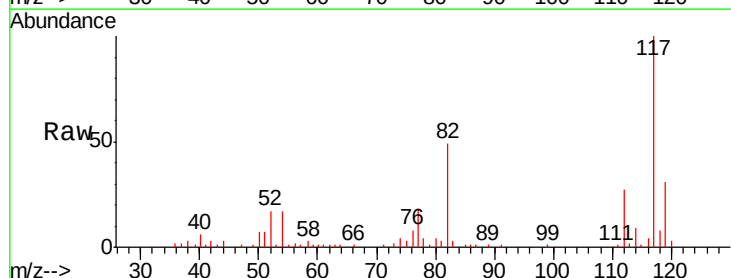
Acq: 12 Oct 2018 16:05

Tgt Ion:112 Resp: 3619

Ion Ratio Lower Upper

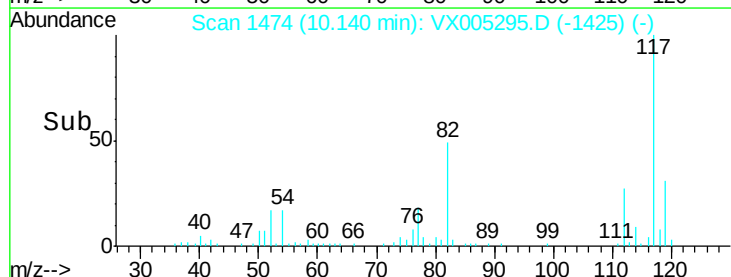
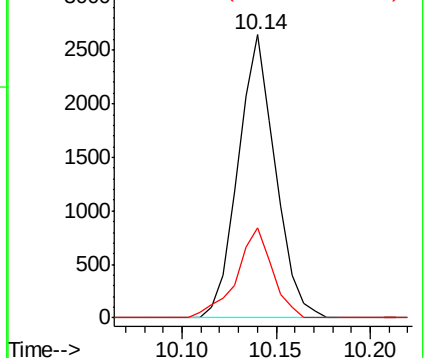
112 100

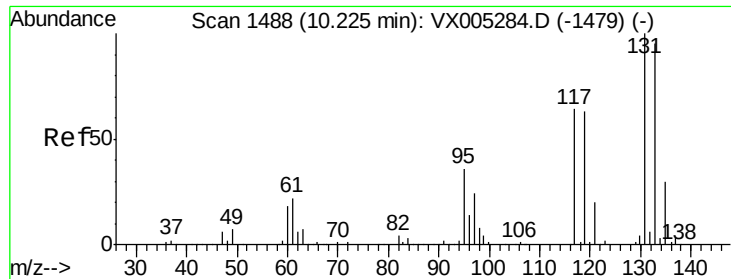
114 31.8 27.8 41.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 0.49 ug/l

RT: 10.23 min Scan# 1488

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

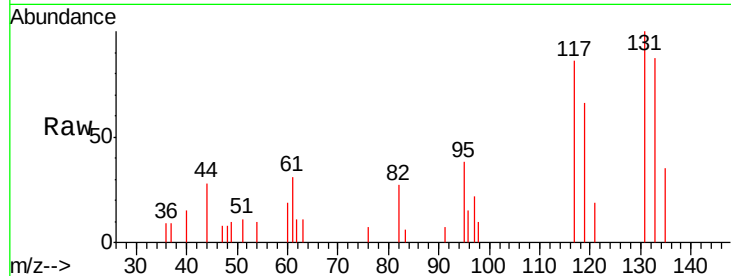
Tgt Ion: 131 Resp: 1220

Ion Ratio Lower Upper

131 100

133 92.0 48.1 144.4

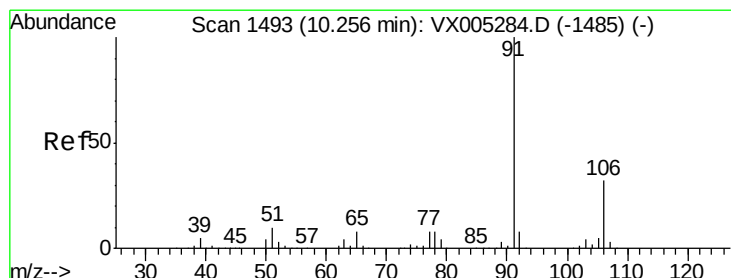
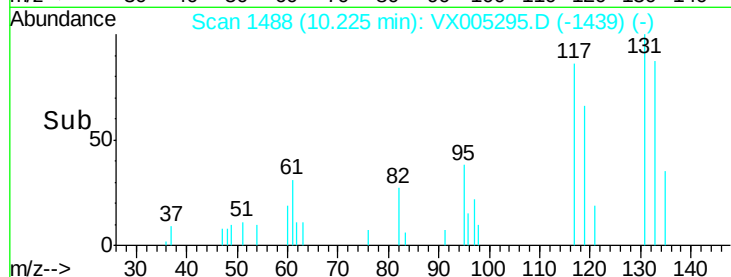
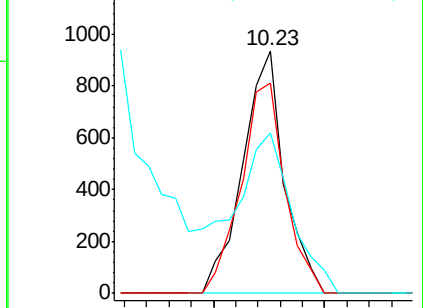
119 0.0 32.9 98.6#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 0.48 ug/l

RT: 10.26 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VX005295.D

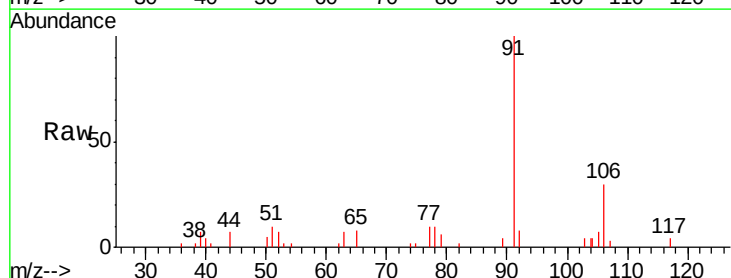
Acq: 12 Oct 2018 16:05

Tgt Ion: 91 Resp: 5468

Ion Ratio Lower Upper

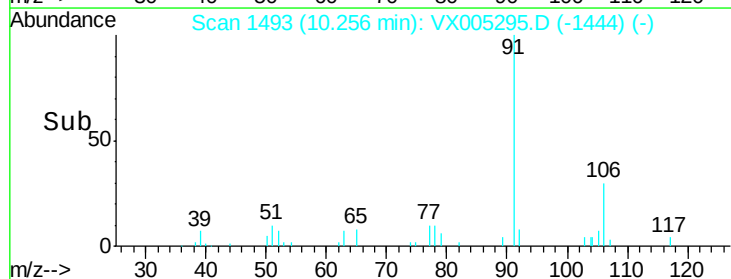
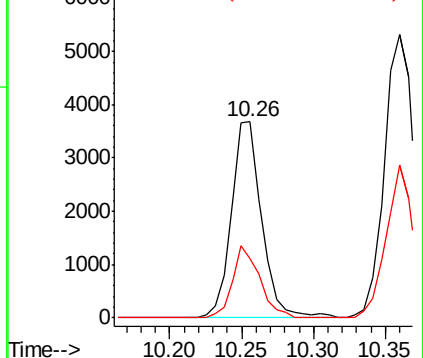
91 100

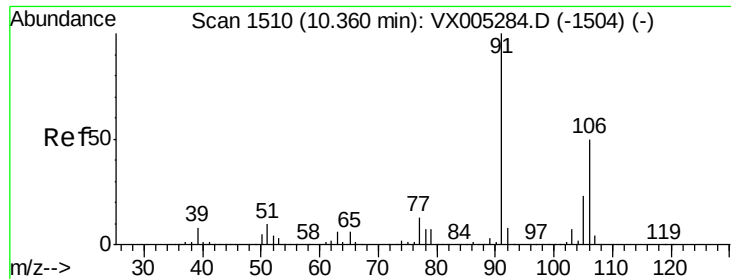
106 30.2 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

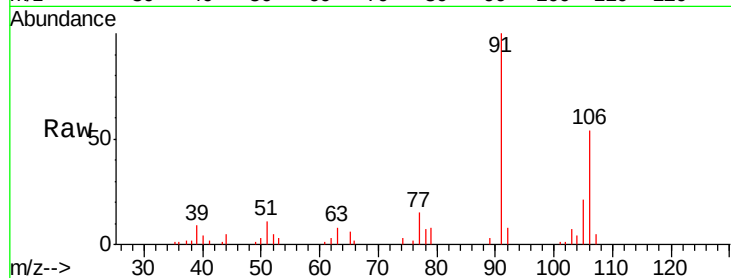




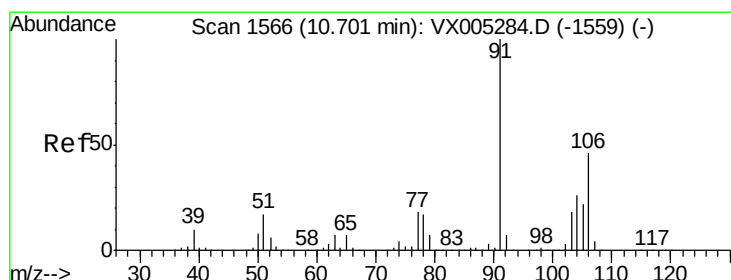
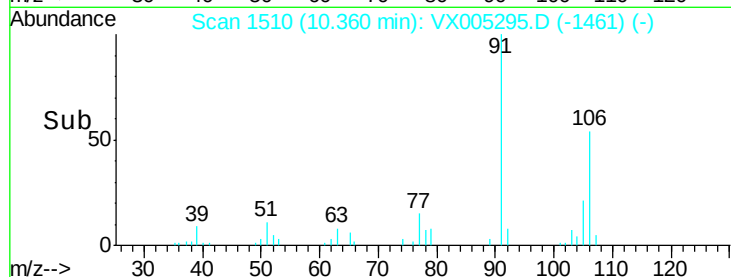
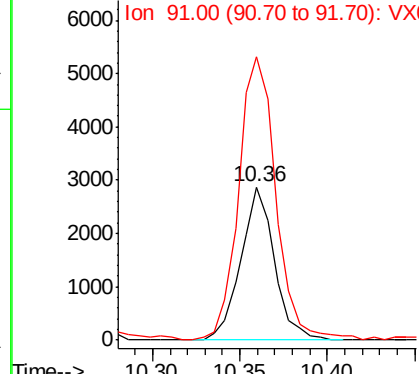
#68
m/p-Xylenes
Concen: 0.86 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion:106 Resp: 3825
Ion Ratio Lower Upper
106 100
91 206.0 157.1 235.7

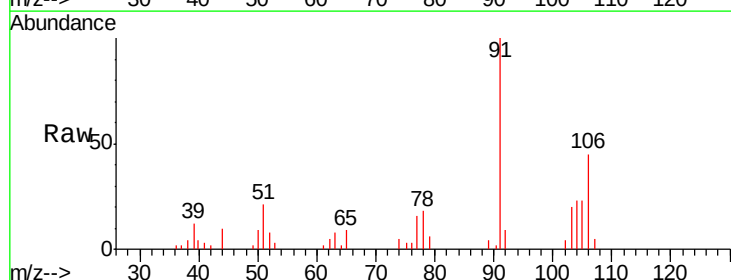


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

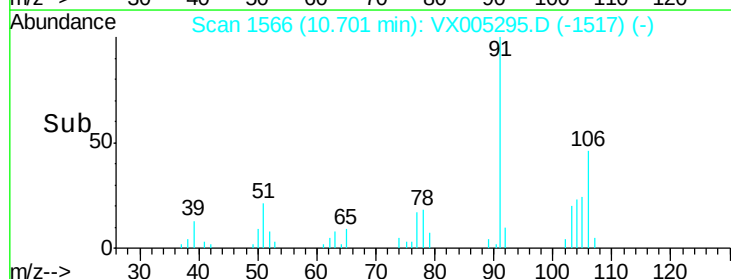
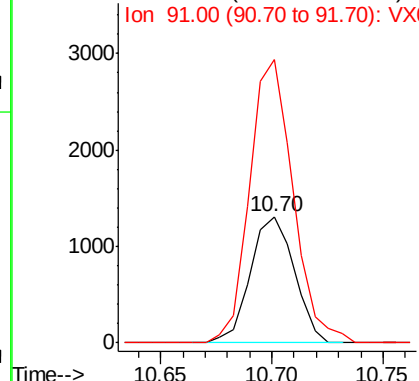


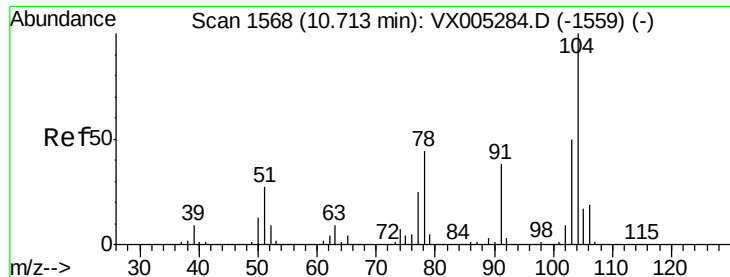
#69
o-Xylene
Concen: 0.42 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion:106 Resp: 1803
Ion Ratio Lower Upper
106 100
91 221.8 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#70

Styrene

Concen: 0.40 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

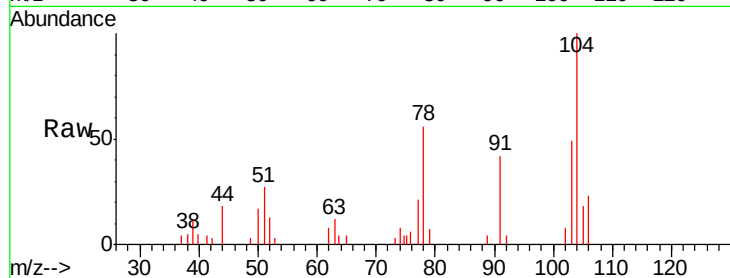
Tgt Ion:104 Resp: 2789

Ion Ratio Lower Upper

104 100

78 57.9 37.4 56.0#

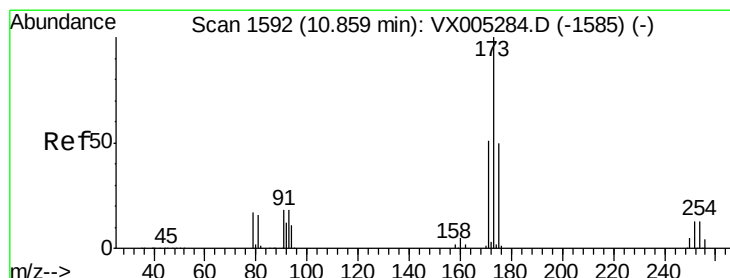
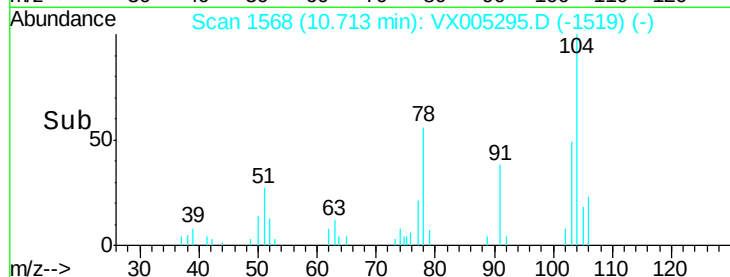
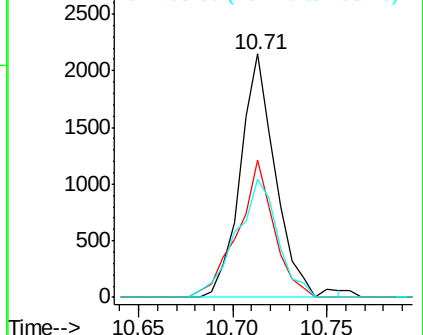
103 57.3 43.8 65.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.43 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

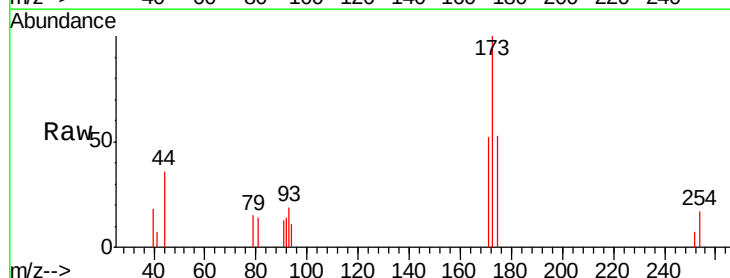
Tgt Ion:173 Resp: 974

Ion Ratio Lower Upper

173 100

175 52.1 24.1 72.3

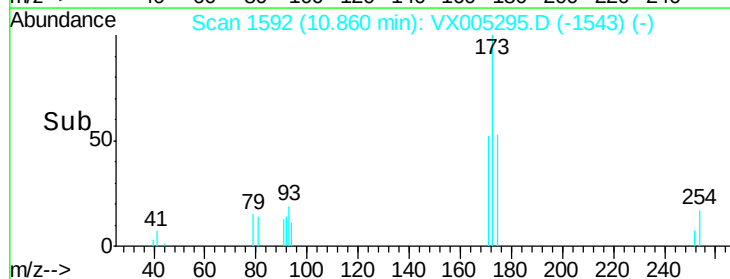
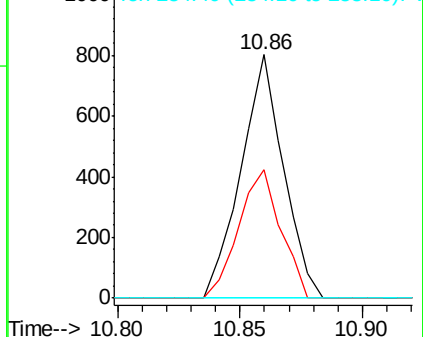
254 0.0 0.2 0.2#

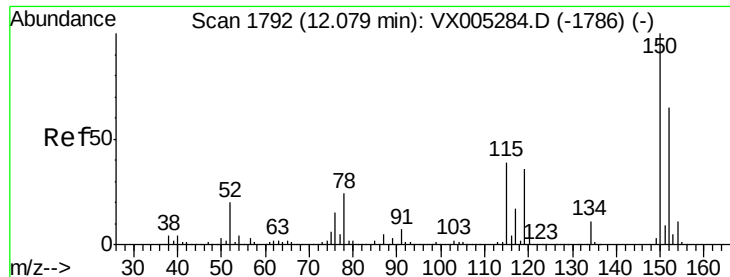


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

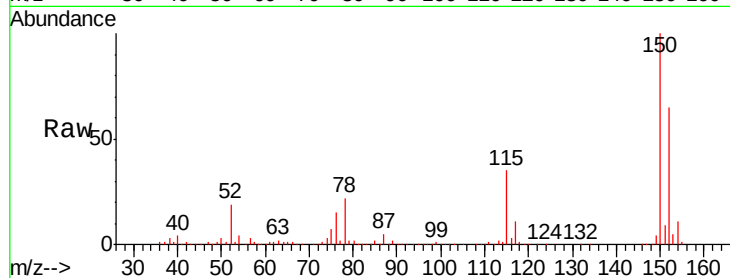
Tgt Ion:152 Resp: 172388

Ion Ratio Lower Upper

152 100

115 55.0 39.0 117.0

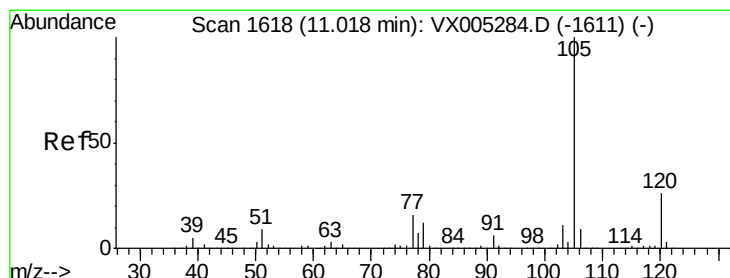
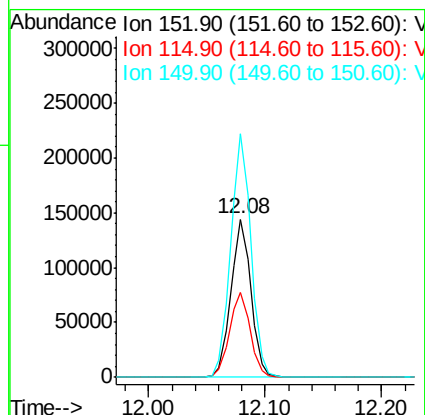
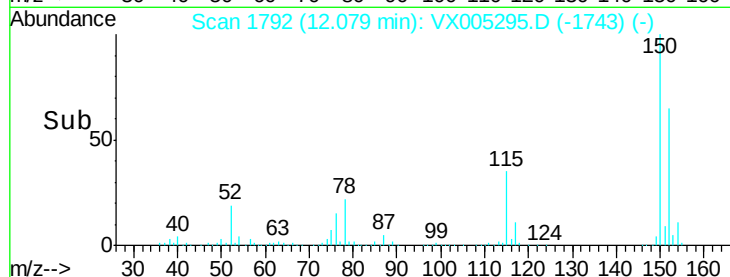
150 155.3 0.0 351.0



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: 0.45 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX005295.D

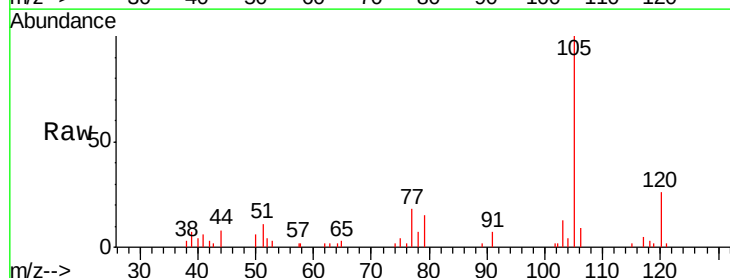
Acq: 12 Oct 2018 16:05

Tgt Ion:105 Resp: 4643

Ion Ratio Lower Upper

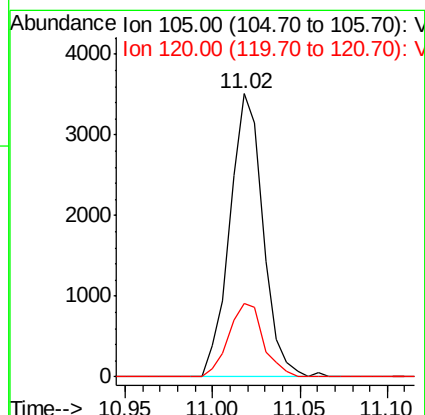
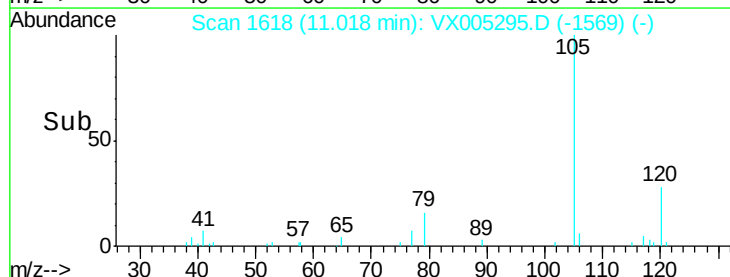
105 100

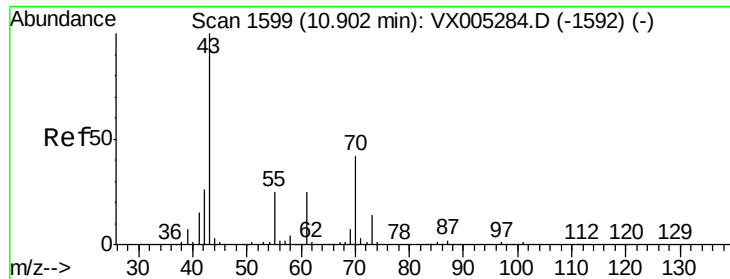
120 27.1 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 0.44 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 43 Resp: 2185

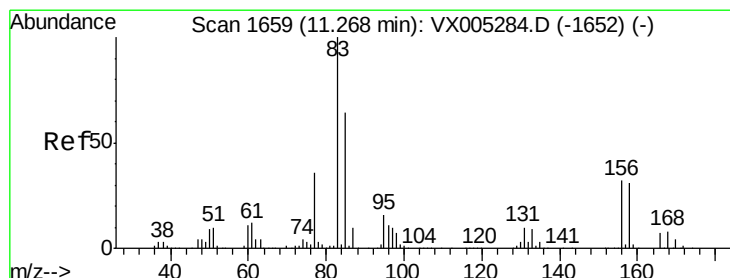
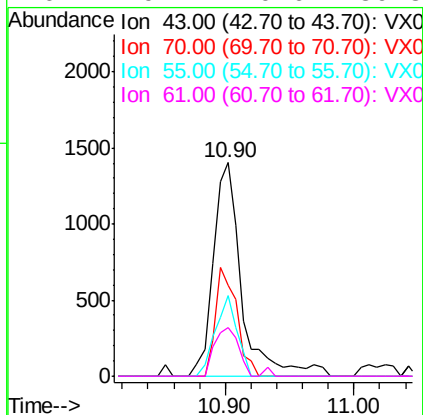
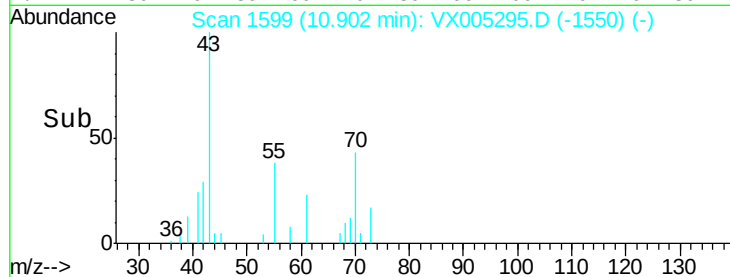
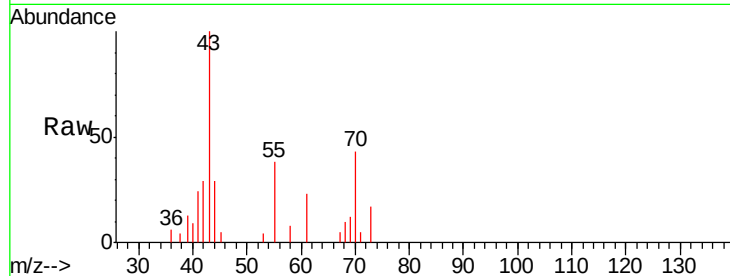
Ion Ratio Lower Upper

43 100

70 38.2 37.4 56.0

55 29.0 21.8 32.8

61 19.4 20.6 30.8#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.56 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

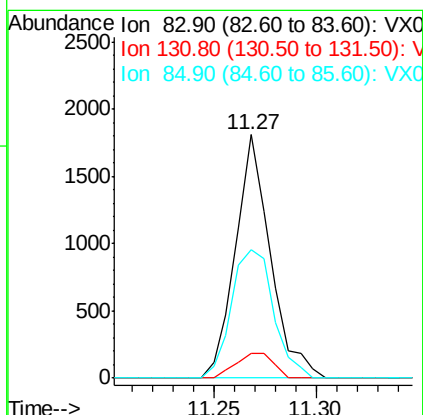
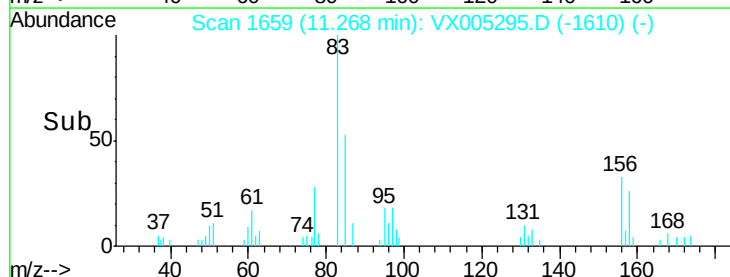
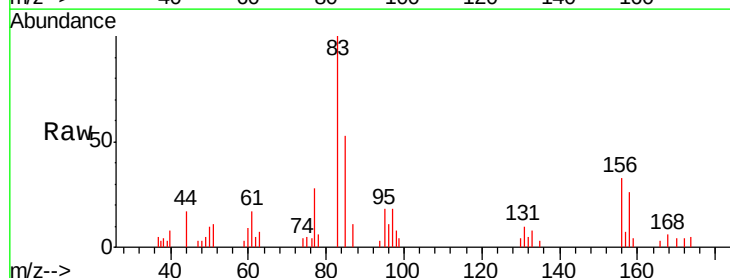
Tgt Ion: 83 Resp: 2151

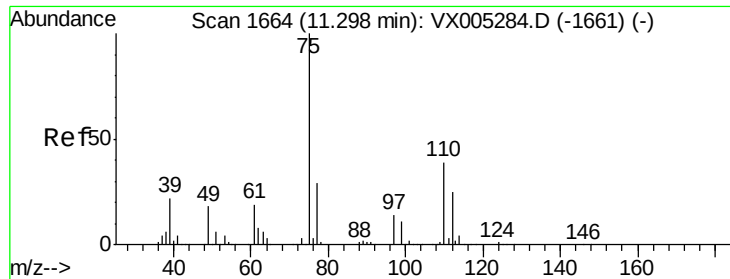
Ion Ratio Lower Upper

83 100

131 10.6 5.2 15.6

85 63.5 32.3 96.8

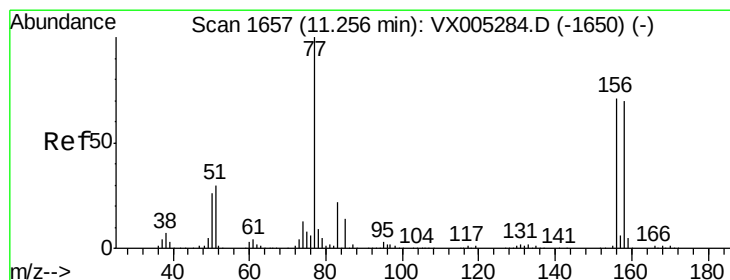
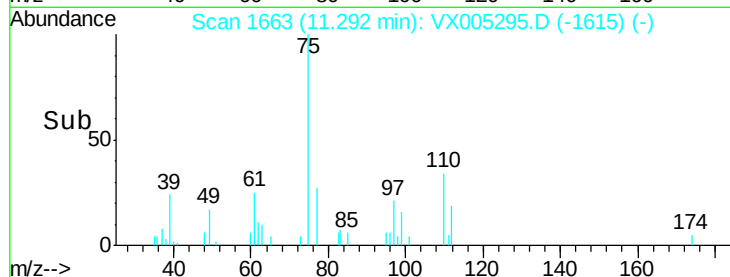
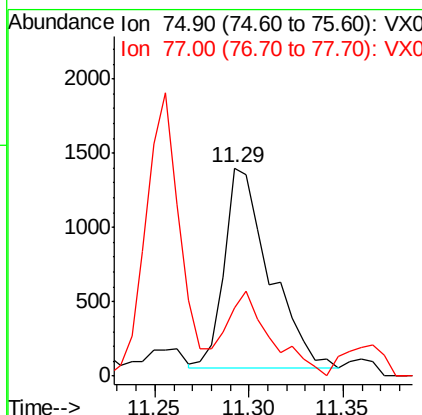
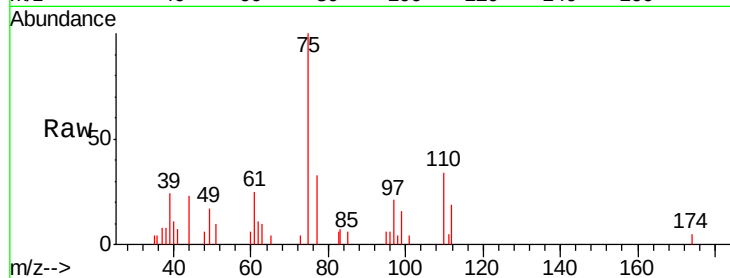




#76
1,2,3-Trichloropropane
Concen: 0.67 ug/l
RT: 11.29 min Scan# 1663
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

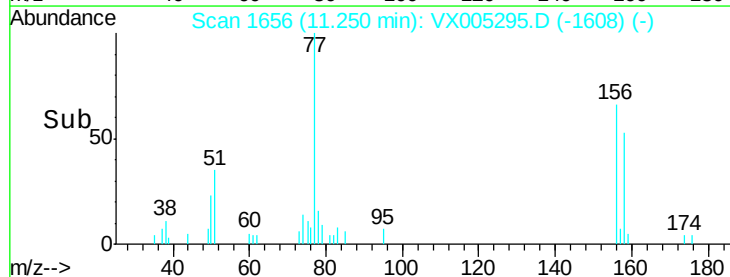
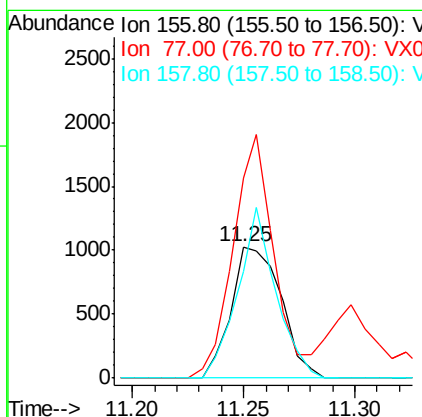
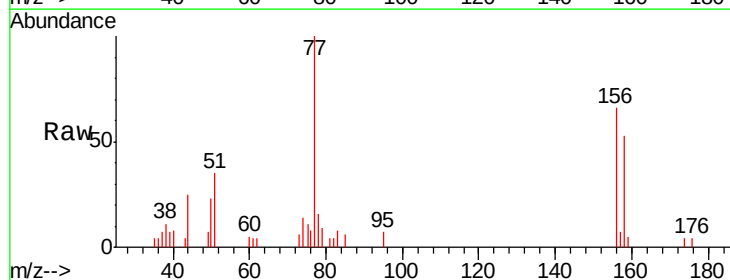
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

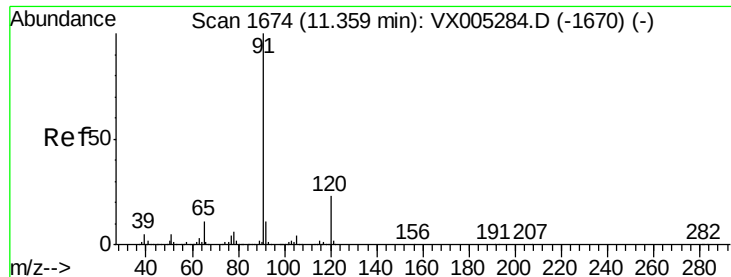
Tgt Ion: 75 Resp: 2250
Ion Ratio Lower Upper
75 100
77 40.8 20.2 60.6



#77
Bromobenzene
Concen: 0.55 ug/l
RT: 11.25 min Scan# 1656
Delta R.T. -0.01 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 156 Resp: 1603
Ion Ratio Lower Upper
156 100
77 152.4 71.5 214.3
158 99.3 48.9 146.8

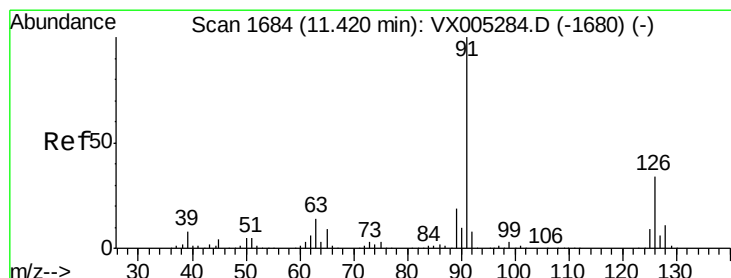
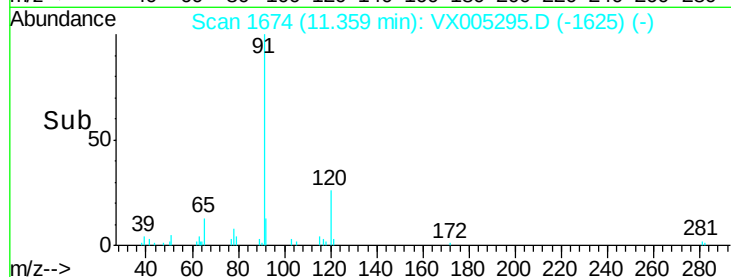
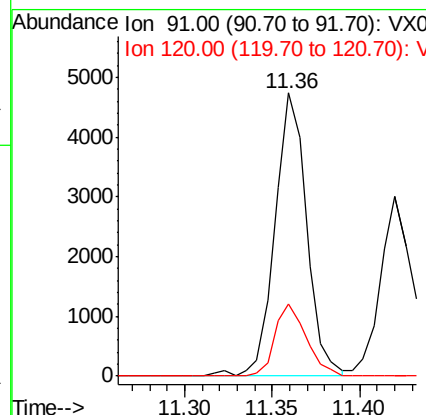
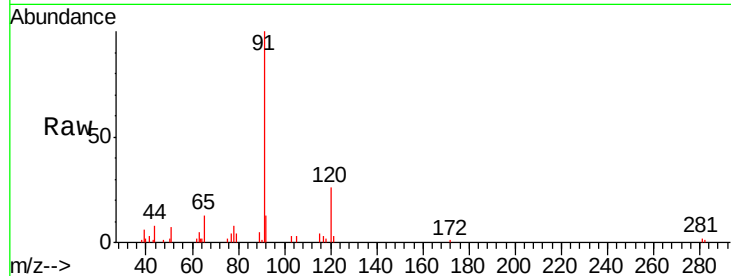




#78
n-propylbenzene
Concen: 0.51 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

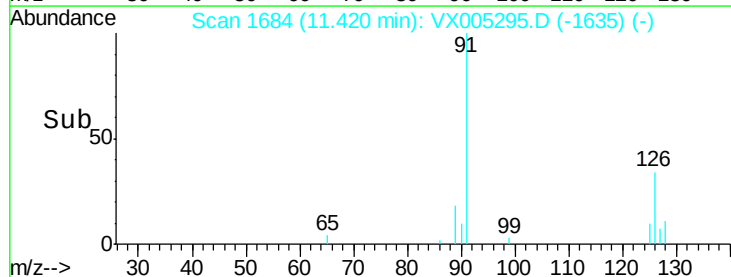
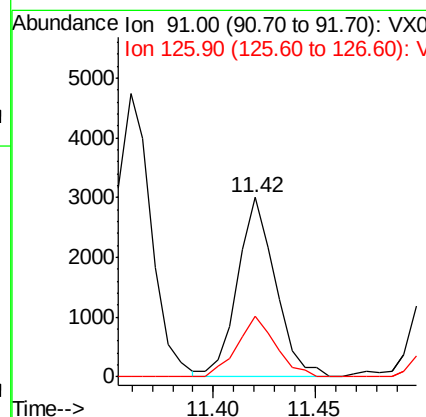
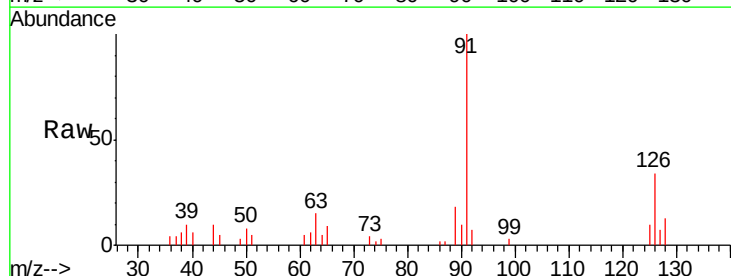
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

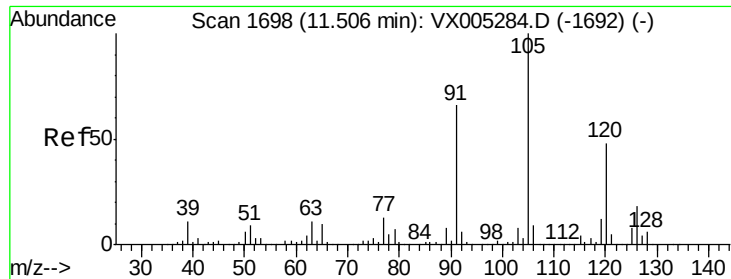
Tgt Ion: 91 Resp: 5979
Ion Ratio Lower Upper
91 100
120 25.1 11.9 35.9



#79
2-Chlorotoluene
Concen: 0.53 ug/l
RT: 11.42 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion: 91 Resp: 3851
Ion Ratio Lower Upper
91 100
126 34.3 17.9 53.7

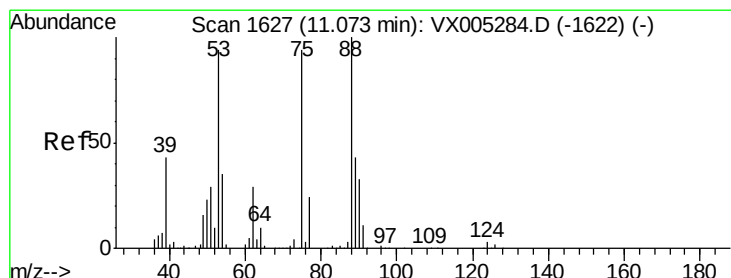
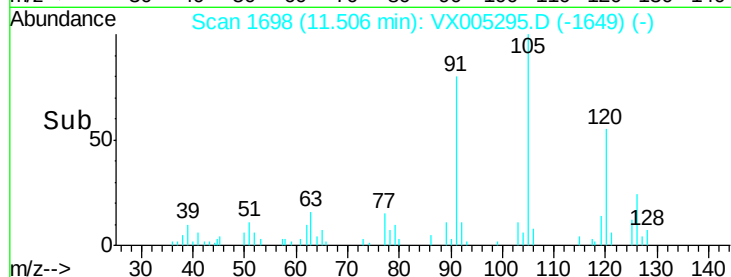
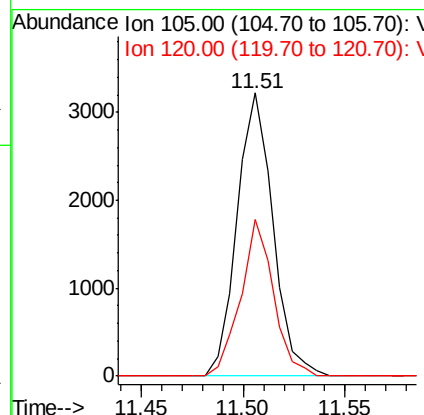
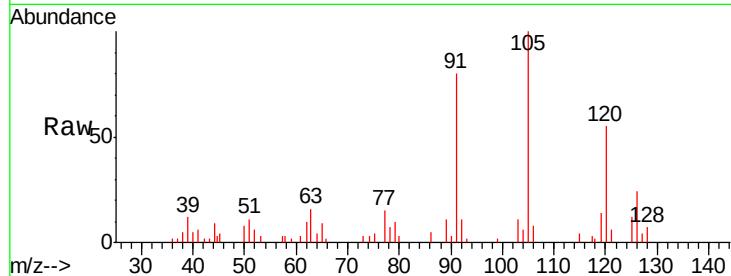




#80
 1,3,5-Trimethylbenzene
 Concen: 0.44 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

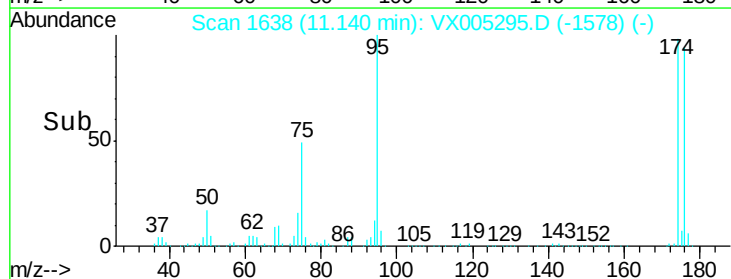
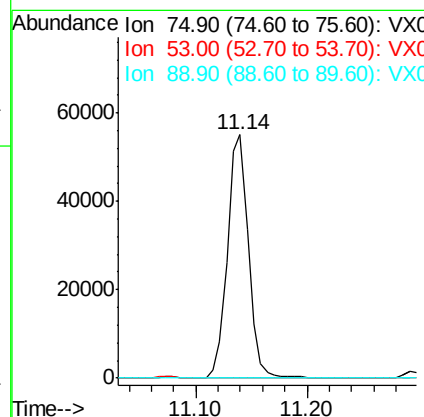
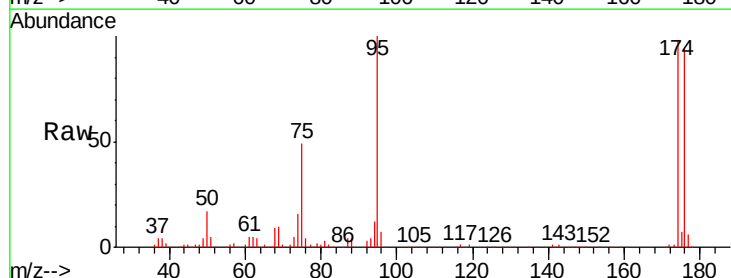
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

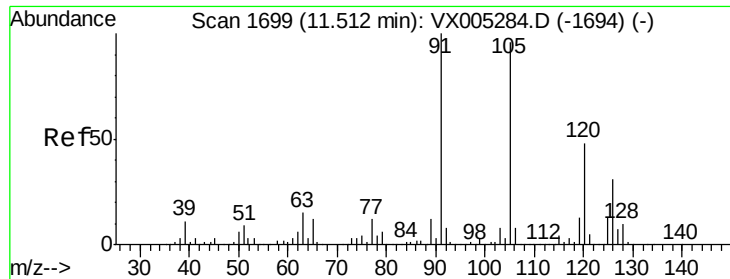
Tgt Ion: 105 Resp: 3905
 Ion Ratio Lower Upper
 105 100
 120 51.0 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.23 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Tgt Ion: 75 Resp: 71789
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#





#82

4-Chlorotoluene

Concen: 0.52 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

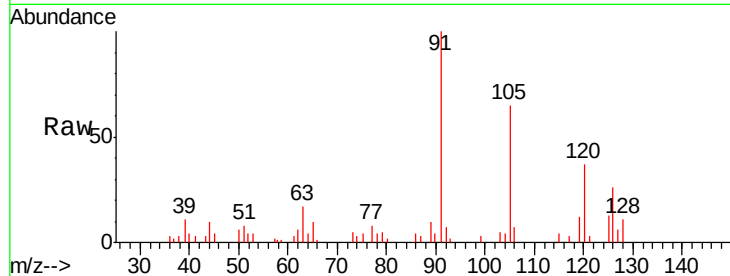
MDL-WATER-03-QT4-2018

Tgt Ion: 91 Resp: 4413

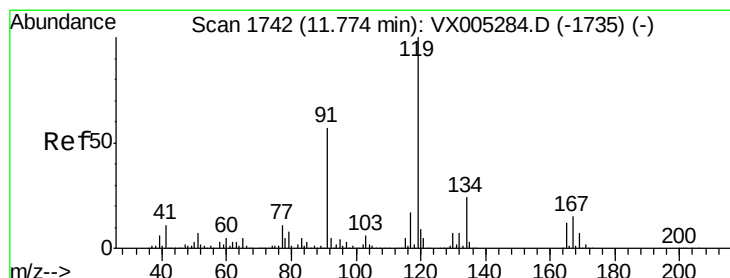
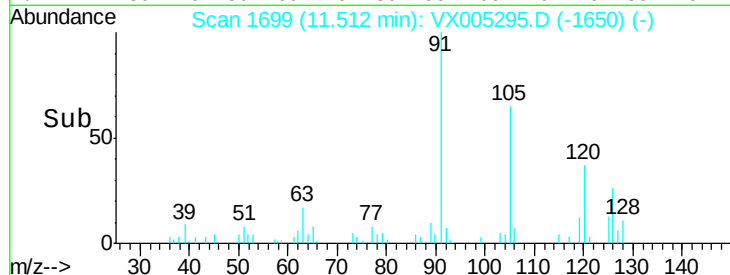
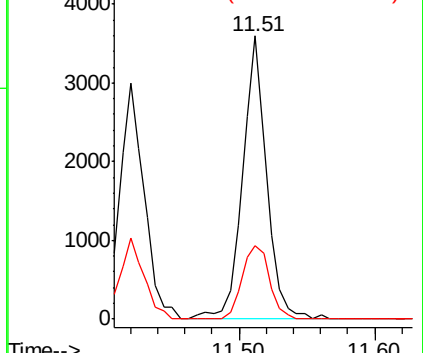
Ion Ratio Lower Upper

91 100

126 29.5 15.5 46.5



Abundance Ion 91.00 (90.70 to 91.70): VX005284.D (-1694) (-)



#83

tert-Butylbenzene

Concen: 0.46 ug/l

RT: 11.77 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

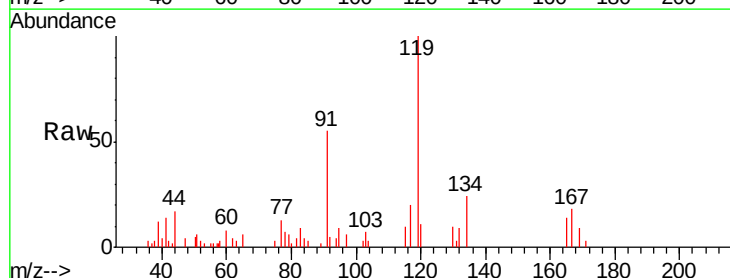
Tgt Ion: 119 Resp: 4049

Ion Ratio Lower Upper

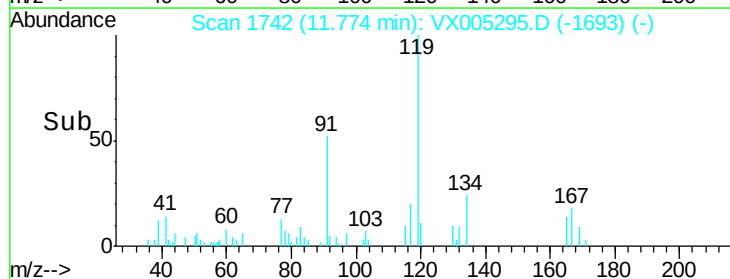
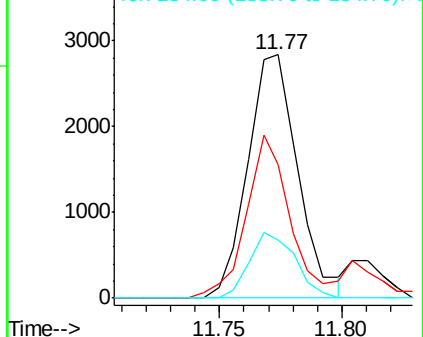
119 100

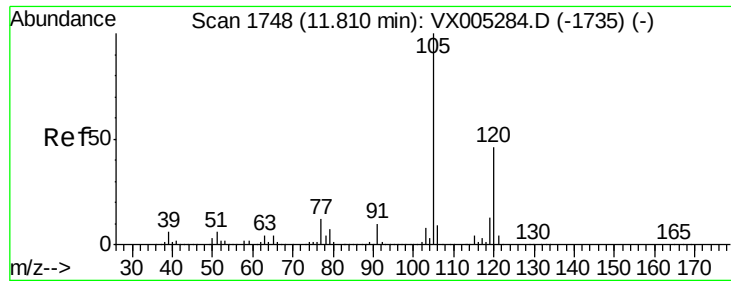
91 57.5 27.0 81.0

134 24.6 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): VX005284.D (-1735) (-)

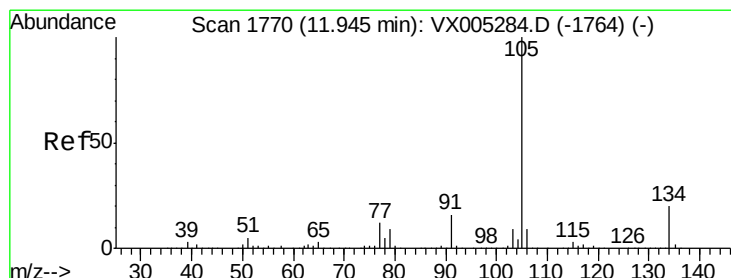
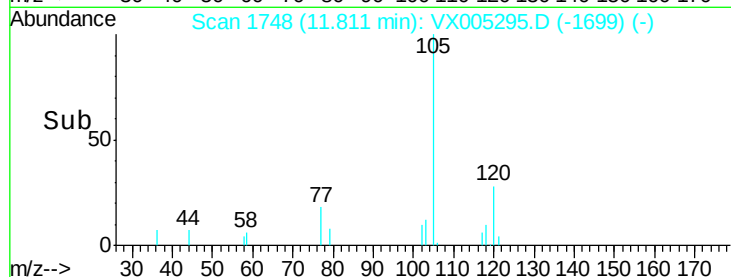
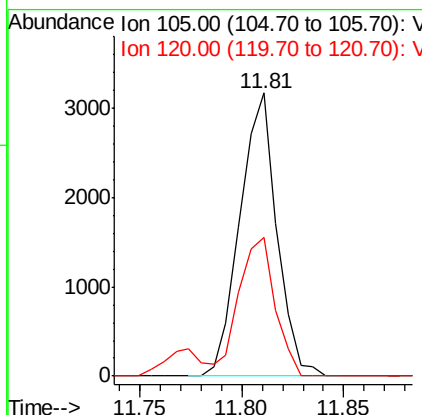
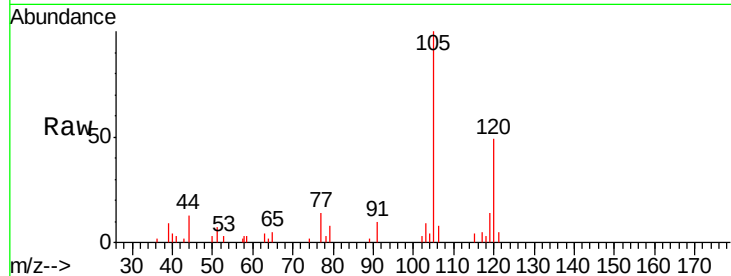




#84
 1,2,4-Trimethylbenzene
 Concen: 0.44 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

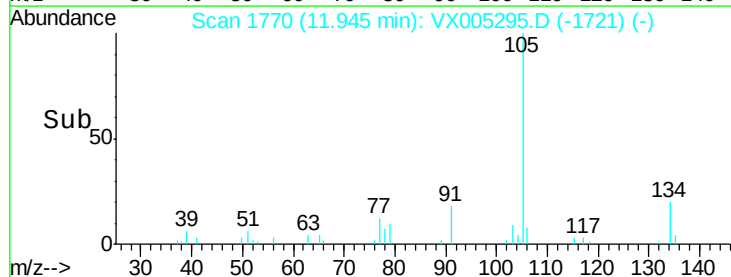
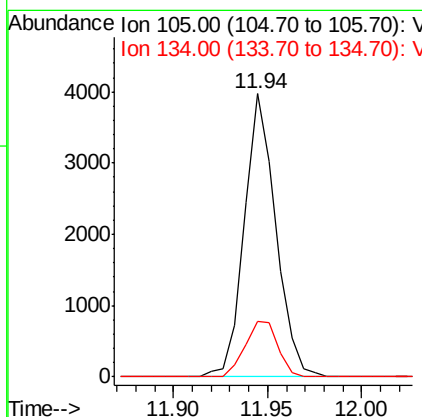
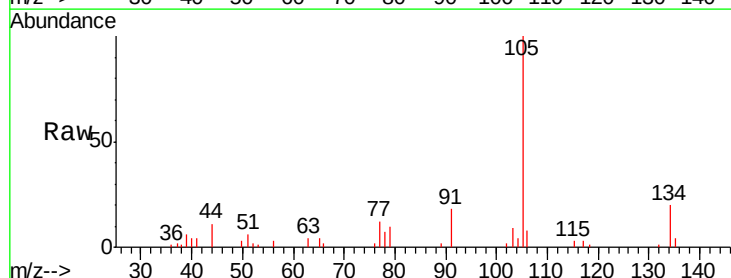
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

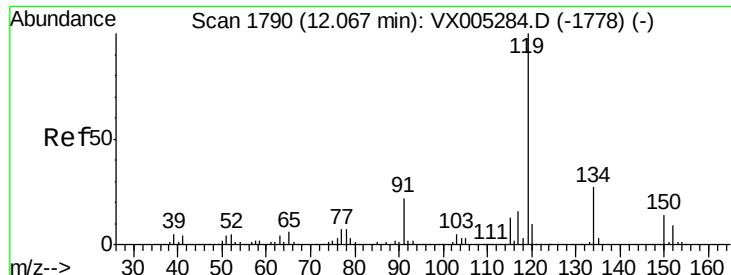
Tgt Ion:105 Resp: 3986
 Ion Ratio Lower Upper
 105 100
 120 47.7 23.2 69.6



#85
 sec-Butylbenzene
 Concen: 0.44 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Tgt Ion:105 Resp: 4600
 Ion Ratio Lower Upper
 105 100
 134 20.3 10.5 31.5

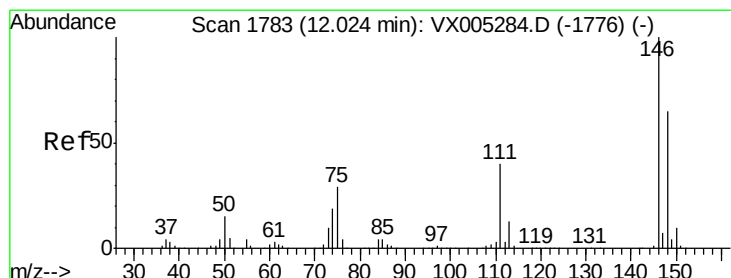
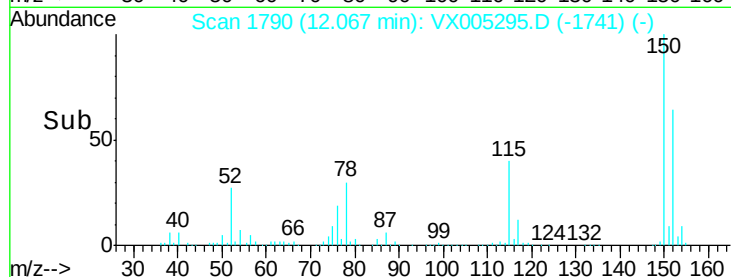
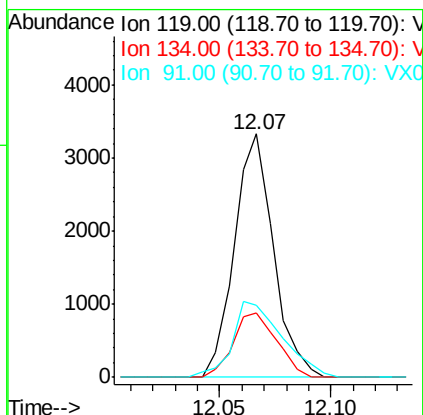
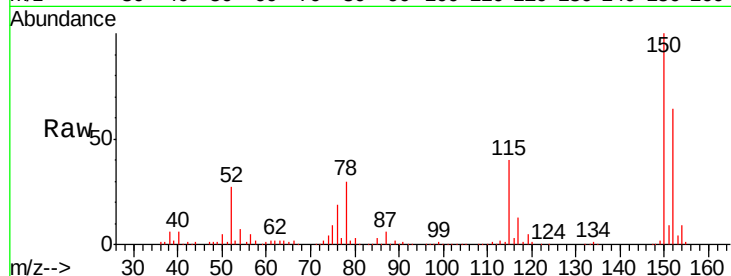




#86
p-Isopropyltoluene
Concen: 0.43 ug/l
RT: 12.07 min Scan# 1790
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

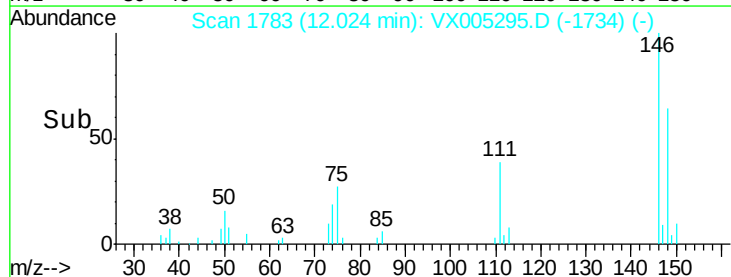
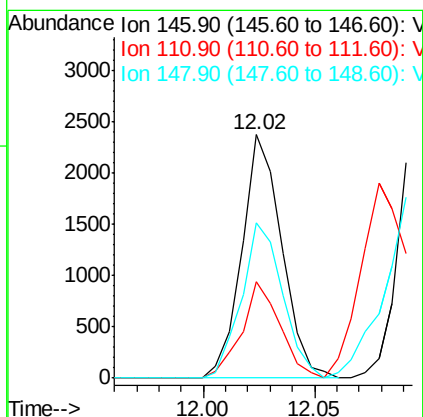
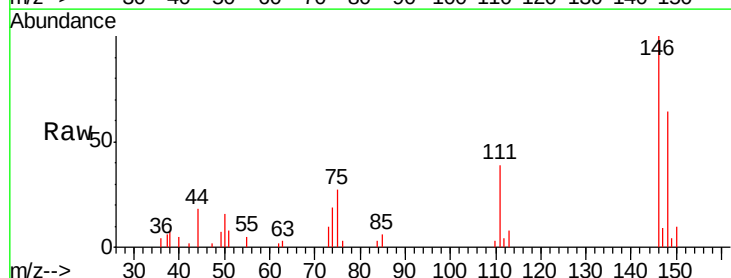
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

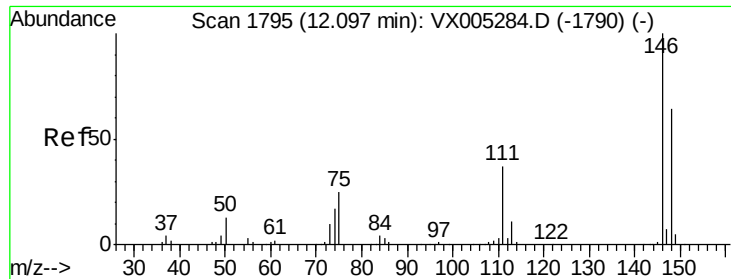
Tgt Ion:119 Resp: 4066
Ion Ratio Lower Upper
119 100
134 29.3 13.4 40.2
91 39.3 10.9 32.7#



#87
1,3-Dichlorobenzene
Concen: 0.54 ug/l
RT: 12.02 min Scan# 1783
Delta R.T. 0.00 min
Lab File: VX005295.D
Acq: 12 Oct 2018 16:05

Tgt Ion:146 Resp: 2974
Ion Ratio Lower Upper
146 100
111 38.1 18.7 56.1
148 65.2 32.1 96.5

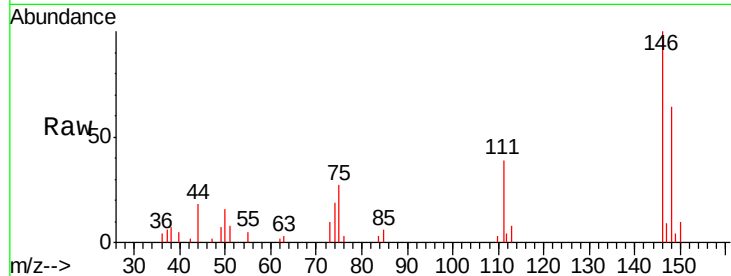




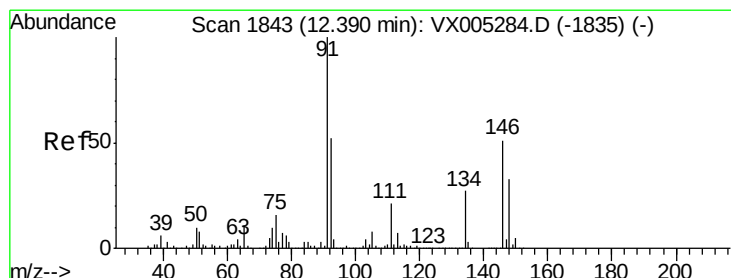
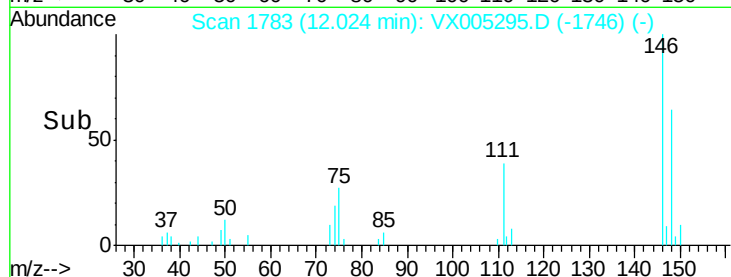
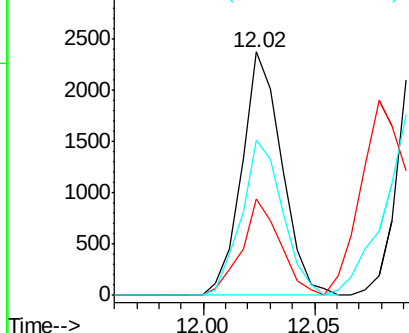
#88
 1,4-Dichlorobenzene
 Concen: 0.53 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.07 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion: 146 Resp: 2974
 Ion Ratio Lower Upper
 146 100
 111 38.1 18.1 54.1
 148 65.2 32.0 96.0

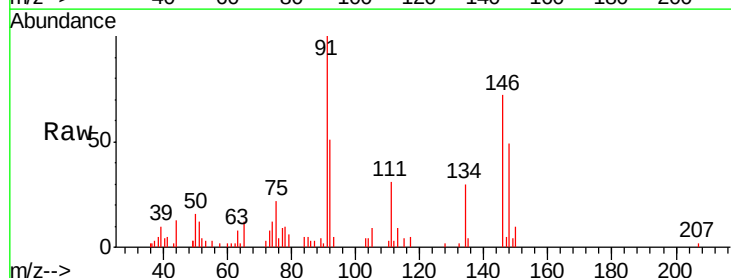


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

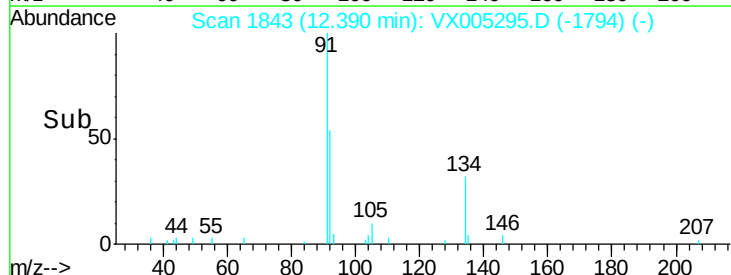
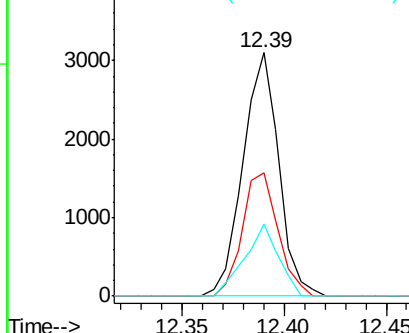


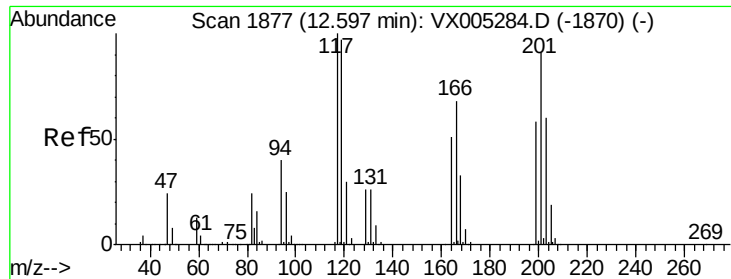
#89
 n-Butylbenzene
 Concen: 0.44 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Tgt Ion: 91 Resp: 3765
 Ion Ratio Lower Upper
 91 100
 92 50.8 27.3 81.9
 134 28.2 13.6 40.7



Abundance Ion 91.00 (90.70 to 91.70): VX0
 Ion 92.00 (91.70 to 92.70): VX0
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.47 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

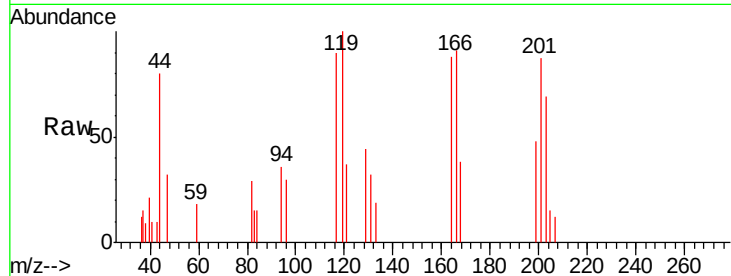
MDL-WATER-03-QT4-2018

Tgt Ion:117 Resp: 776

Ion Ratio Lower Upper

117 100

201 87.0 46.9 140.6



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.60

500

400

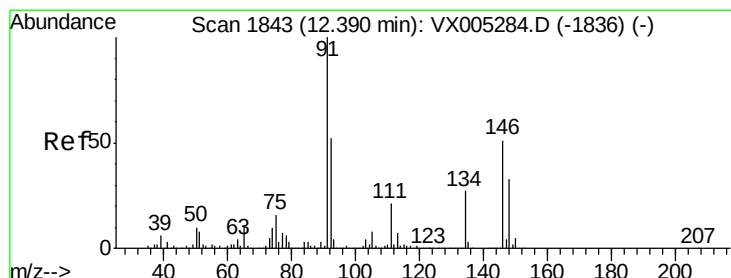
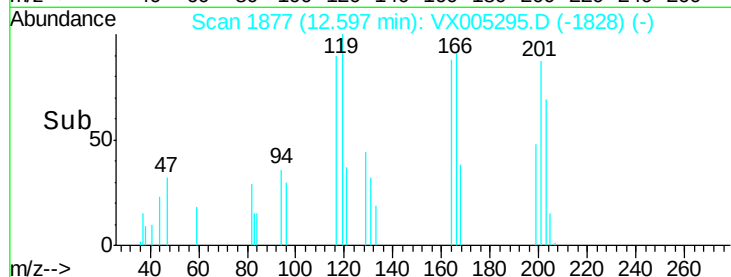
300

200

100

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.53 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

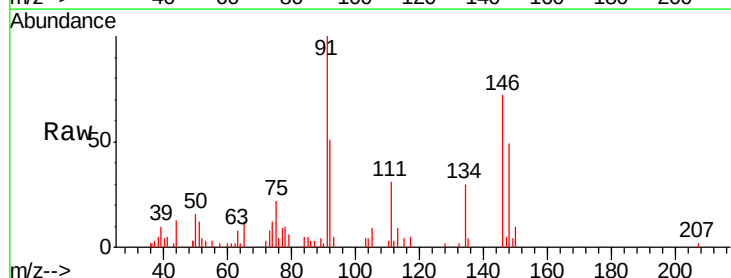
Tgt Ion:146 Resp: 2978

Ion Ratio Lower Upper

146 100

111 40.3 19.4 58.1

148 66.9 32.8 98.3



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

12.39

3000

2500

2000

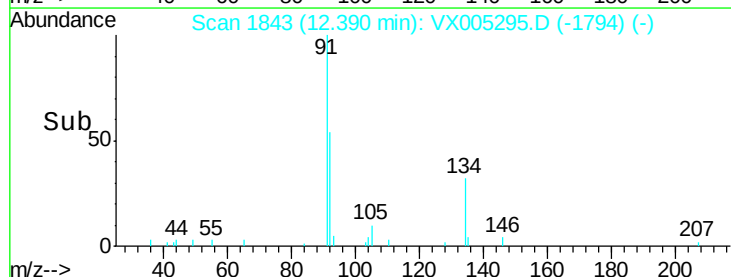
1500

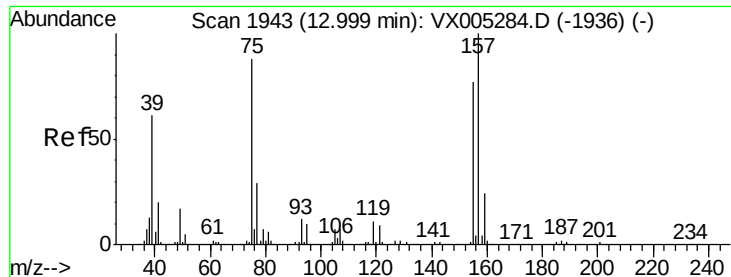
1000

500

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.54 ug/l

RT: 13.01 min Scan# 1944

Delta R.T. 0.01 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

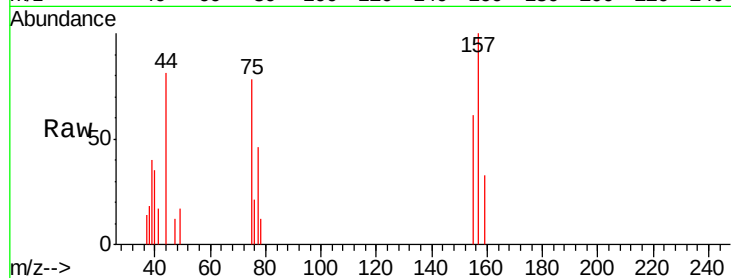
Tgt Ion: 75 Resp: 512

Ion Ratio Lower Upper

75 100

155 84.8 48.0 144.2

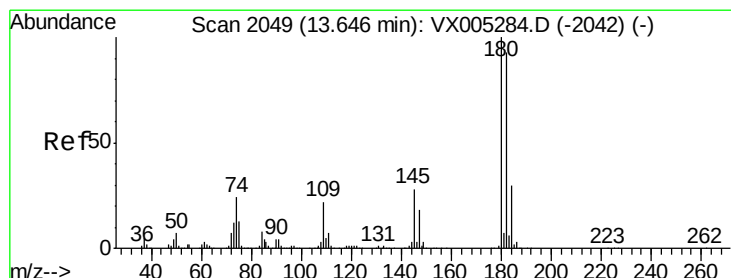
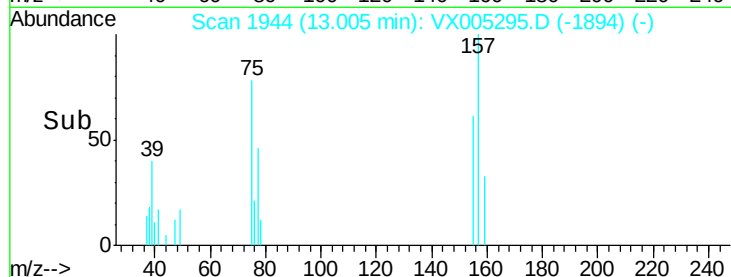
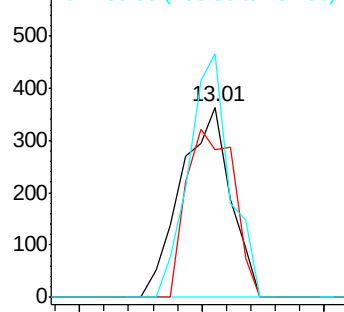
157 106.6 61.4 184.1



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.54 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

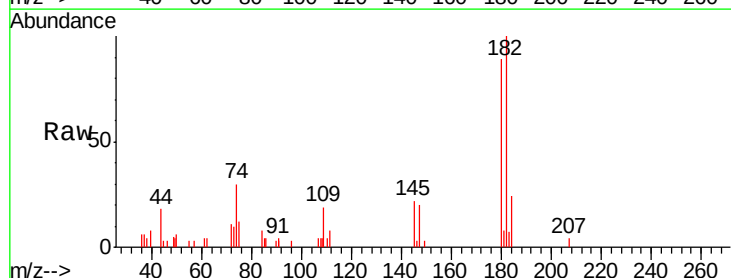
Tgt Ion: 180 Resp: 2194

Ion Ratio Lower Upper

180 100

182 96.4 48.4 145.0

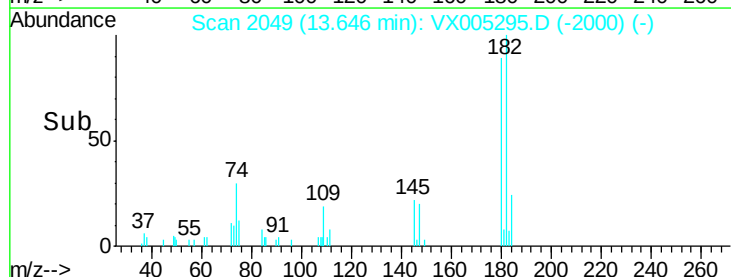
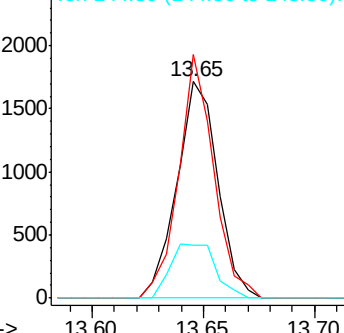
145 27.5 14.3 42.9

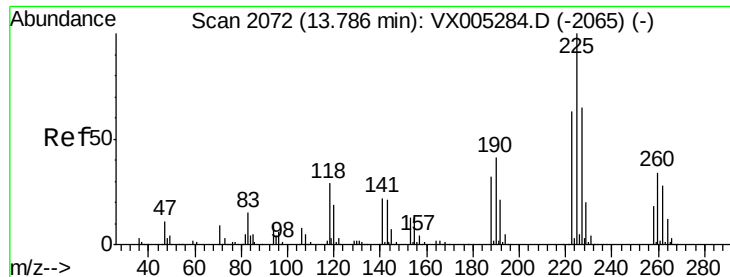


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.55 ug/l

RT: 13.79 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

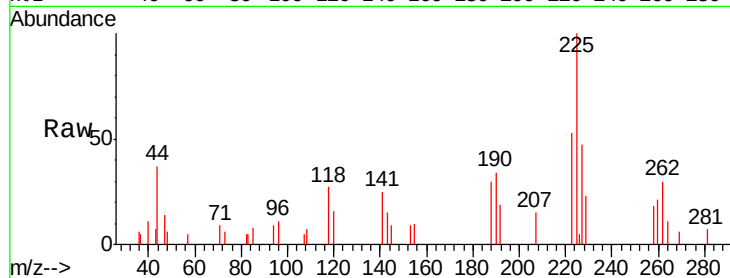
Tgt Ion:225 Resp: 1200

Ion Ratio Lower Upper

225 100

223 62.2 30.1 90.5

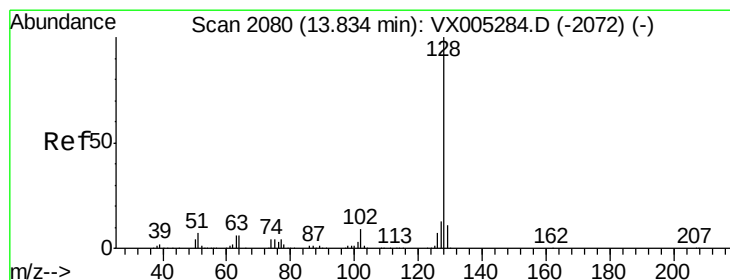
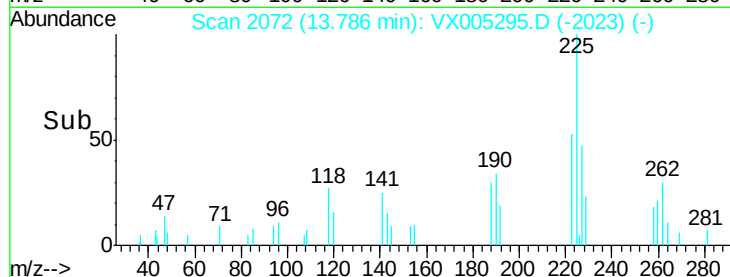
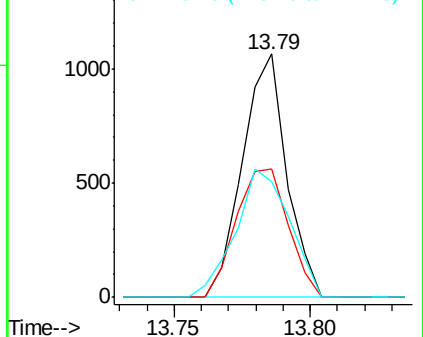
227 64.6 30.8 92.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.42 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005295.D

Acq: 12 Oct 2018 16:05

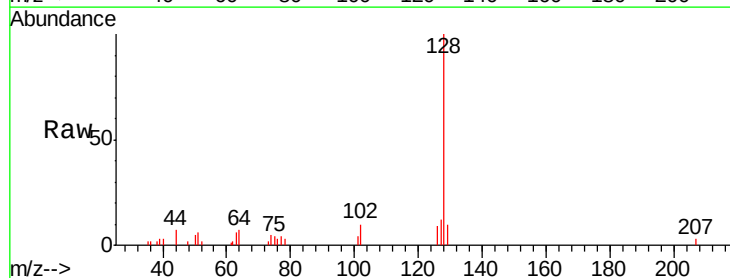
Tgt Ion:128 Resp: 4953

Ion Ratio Lower Upper

128 100

127 13.4 10.2 15.2

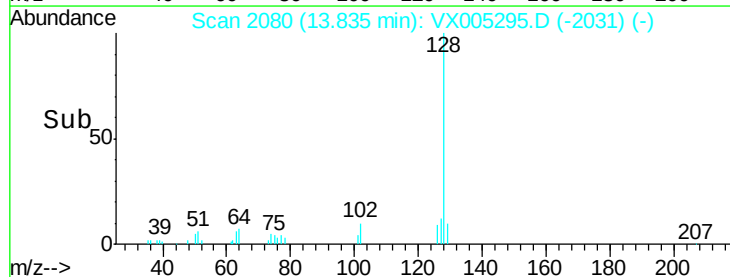
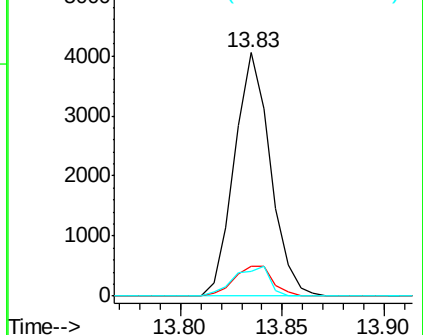
129 12.0 8.6 12.8

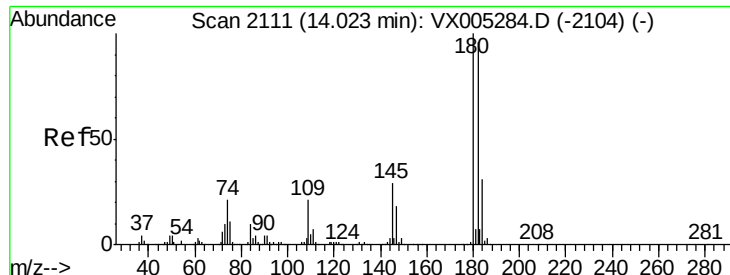


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

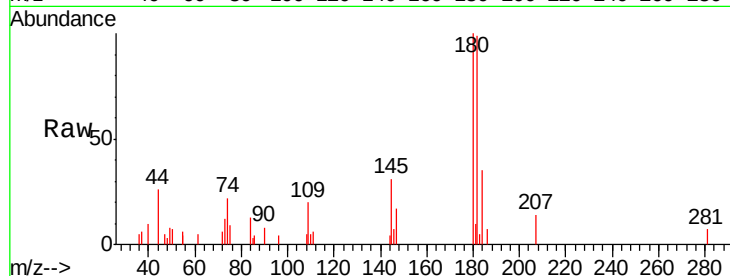




#96
 1,2,3-Trichlorobenzene
 Concen: 0.47 ug/l
 RT: 14.02 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VX005295.D
 Acq: 12 Oct 2018 16:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.5	145.6
145	31.8	14.9	44.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

