

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005297.D
 Acq On : 12 Oct 2018 16:58
 Operator : JC/MD
 Sample : J5164-09 2.5ppb
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: Oct 13 02:34:54 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	258025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	375802	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	178377	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	145583	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
35) Dibromofluoromethane	5.50	113	117948	47.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.78%	
50) Toluene-d8	8.71	98	418626	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	
62) 4-Bromofluorobenzene	11.14	95	147834	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.20	85	4866	2.412	ug/l	97
3) Chloromethane	1.32	50	7315	2.502	ug/l #	86
4) Vinyl Chloride	1.40	62	7307	2.468	ug/l	99
5) Bromomethane	1.64	94	5210	3.663	ug/l	96
6) Chloroethane	1.71	64	4927	2.888	ug/l	90
7) Trichlorofluoromethane	1.92	101	10369	2.624	ug/l	98
8) Diethyl Ether	2.19	74	4578	2.713	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	6246	2.738	ug/l	97
10) Methyl Iodide	2.50	142	4594	4.234	ug/l	98
11) Tert butyl alcohol	3.08	59	11944	14.786	ug/l	98
12) 1,1-Dichloroethene	2.37	96	6204	2.745	ug/l	91
13) Acrolein	2.29	56	8268	13.998	ug/l	91
14) Allyl chloride	2.73	41	12683	2.556	ug/l	99
15) Acrylonitrile	3.15	53	23505	12.841	ug/l	95
16) Acetone	2.45	43	22159	13.383	ug/l	93
17) Carbon Disulfide	2.56	76	17625	2.575	ug/l #	93
18) Methyl Acetate	2.78	43	13674	2.903	ug/l	93
19) Methyl tert-butyl Ether	3.20	73	21459	2.696	ug/l	92
20) Methylene Chloride	2.85	84	7401	1.806	ug/l	94
21) trans-1,2-Dichloroethene	3.16	96	6868	2.742	ug/l	98
22) Diisopropyl ether	3.87	45	18693	2.243	ug/l	93
23) Vinyl Acetate	3.82	43	84057	11.540	ug/l	95
24) 1,1-Dichloroethane	3.70	63	13182	2.760	ug/l	99
25) 2-Butanone	4.71	43	31458	12.985	ug/l #	85
26) 2,2-Dichloropropane	4.59	77	8476	2.373	ug/l	100
27) cis-1,2-Dichloroethene	4.59	96	6852	2.517	ug/l	70
28) Bromochloromethane	5.01	49	5420	2.489	ug/l	92
29) Tetrahydrofuran	5.16	42	18133	11.734	ug/l	93
30) Chloroform	5.21	83	11750	2.651	ug/l	95
31) Cyclohexane	5.57	56	9872	2.508	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	10013	2.596	ug/l	97
36) 1,1-Dichloropropene	5.81	75	8654	2.378	ug/l	98
37) Ethyl Acetate	4.86	43	11164	2.385	ug/l	98
38) Carbon Tetrachloride	5.77	117	9475	2.591	ug/l	94

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	7.46	83	8433	2.141	ug/l #	89
40) Benzene	6.14	78	26466	2.424	ug/l	96
41) Methacrylonitrile	5.06	41	5931	2.364	ug/l	92
42) 1,2-Dichloroethane	6.20	62	9616	2.494	ug/l	98
43) Isopropyl Acetate	6.46	43	15028	2.410	ug/l	98
44) Trichloroethene	7.22	130	7590	2.127	ug/l	89
45) 1,2-Dichloropropane	7.51	63	6256	2.336	ug/l #	89
46) Dibromomethane	7.66	93	4348	2.460	ug/l	99
47) Bromodichloromethane	7.90	83	8116	2.482	ug/l	100
48) Methyl methacrylate	7.78	41	7493	2.317	ug/l	91
49) 1,4-Dioxane	7.76	88	3818	51.188	ug/l #	94
51) 4-Methyl-2-Pentanone	8.65	43	49788	11.532	ug/l	92
52) Toluene	8.79	92	15891	2.660	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	7988	2.258	ug/l	99
54) cis-1,3-Dichloropropene	8.44	75	8814	2.299	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	6490	2.565	ug/l	96
56) Ethyl methacrylate	9.18	69	7969	2.161	ug/l #	84
57) 1,3-Dichloropropane	9.37	76	10672	2.527	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.32	63	21882	10.579	ug/l	95
59) 2-Hexanone	9.50	43	39830	11.469	ug/l	87
60) Dibromochloromethane	9.59	129	6009	2.298	ug/l	99
61) 1,2-Dibromoethane	9.67	107	6311	2.377	ug/l	99
64) Tetrachloroethene	9.34	164	6929	2.614	ug/l	90
65) Chlorobenzene	10.14	112	17575	2.510	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.22	131	5926	2.375	ug/l	94
67) Ethyl Benzene	10.26	91	27246	2.393	ug/l	94
68) m/p-Xylenes	10.36	106	20397	4.616	ug/l	99
69) o-Xylene	10.70	106	9526	2.235	ug/l	95
70) Styrene	10.71	104	14818	2.114	ug/l	94
71) Bromoform	10.86	173	4699	2.107	ug/l #	95
73) Isopropylbenzene	11.02	105	25092	2.366	ug/l	99
74) N-amyl acetate	10.90	43	11505	2.249	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.27	83	10632	2.658	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	10891	3.148	ug/l	93
77) Bromobenzene	11.26	156	7835	2.584	ug/l	95
78) n-propylbenzene	11.36	91	29864	2.447	ug/l	99
79) 2-Chlorotoluene	11.42	91	19659	2.631	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	21997	2.422	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.08	75	2310	2.029	ug/l	89
82) 4-Chlorotoluene	11.51	91	21897	2.472	ug/l	99
83) tert-Butylbenzene	11.77	119	21845	2.376	ug/l	98
84) 1,2,4-Trimethylbenzene	11.81	105	20948	2.242	ug/l	100
85) sec-Butylbenzene	11.94	105	25553	2.348	ug/l	99
86) p-Isopropyltoluene	12.07	119	22401	2.277	ug/l	96
87) 1,3-Dichlorobenzene	12.03	146	14760	2.605	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	15548	2.683	ug/l	87
89) n-Butylbenzene	12.39	91	19820	2.219	ug/l	95
90) Hexachloroethane	12.60	117	3870	2.283	ug/l	97
91) 1,2-Dichlorobenzene	12.40	146	15102	2.612	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.00	75	2277	2.334	ug/l	96

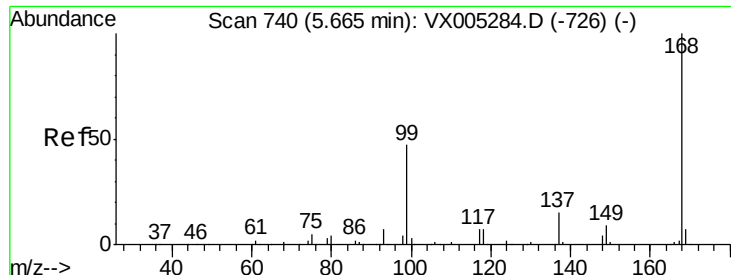
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	9920	2.339	ug/l	99
94) Hexachlorobutadiene	13.79	225	5427	2.422	ug/l	94
95) Naphthalene	13.83	128	25937	2.108	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	10394	2.395	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

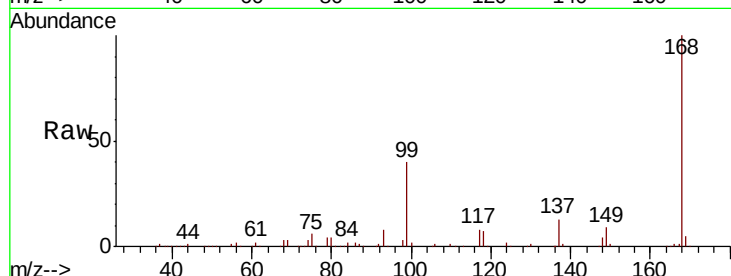
MDL-WATER-03-QT4-2018

Tot Ion:168 Resp: 258025

Ion Ratio Lower Upper

168 100

99 39.7 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

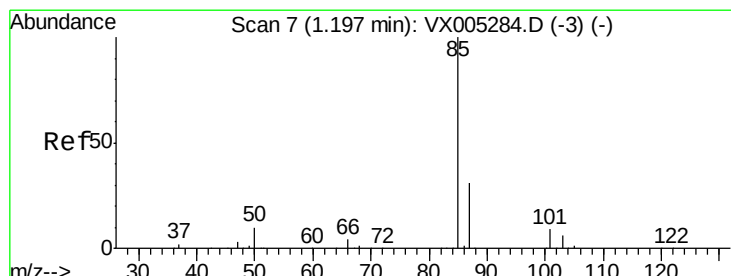
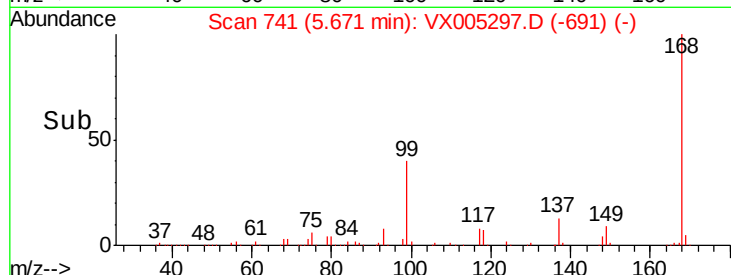
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 2.412 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX005297.D

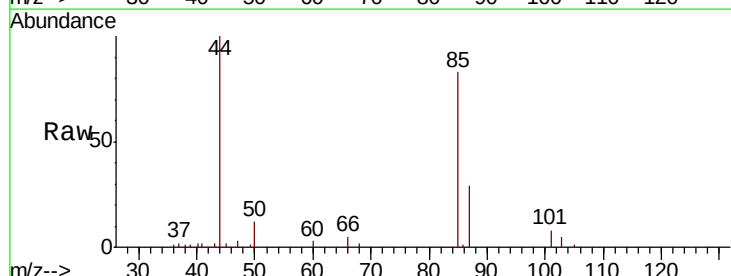
Acq: 12 Oct 2018 16:58

Tgt Ion: 85 Resp: 4866

Ion Ratio Lower Upper

85 100

87 35.4 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

5000

4000

3000

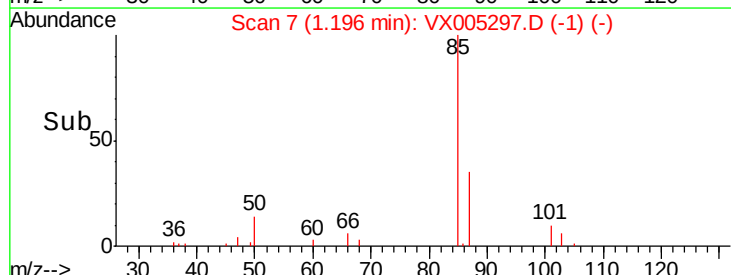
2000

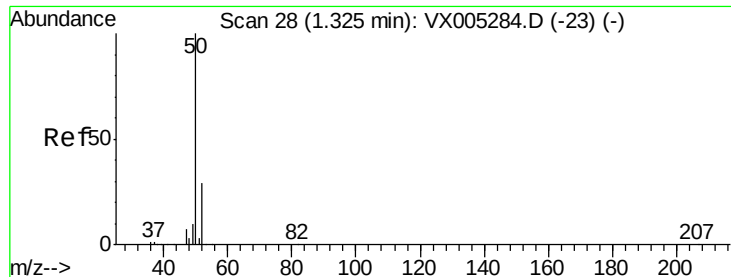
1000

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 2.502 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

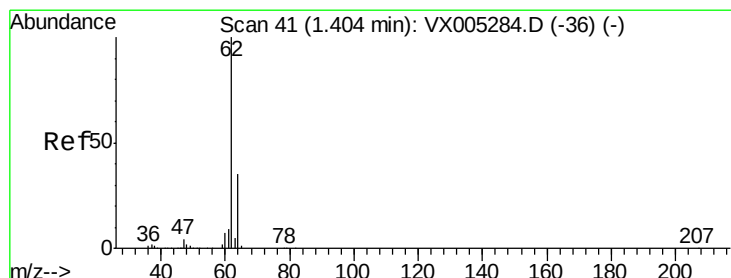
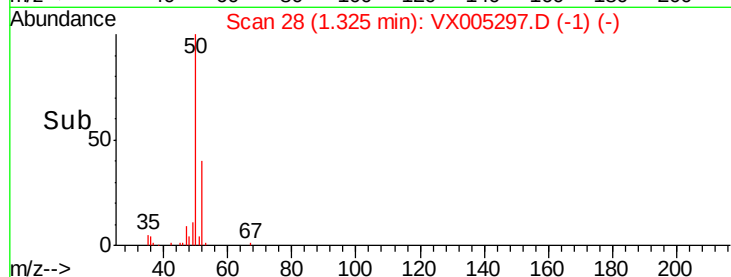
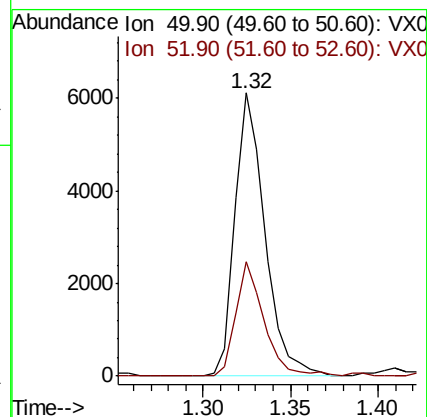
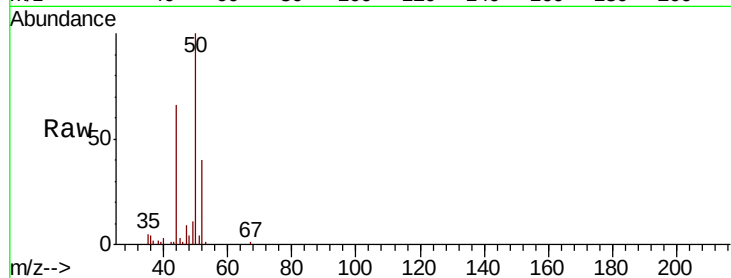
MDL-WATER-03-QT4-2018

Tot Ion: 50 Resp: 7315

Ion Ratio Lower Upper

50 100

52 40.5 26.2 39.2#



#4

Vinyl Chloride

Concen: 2.468 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.00 min

Lab File: VX005297.D

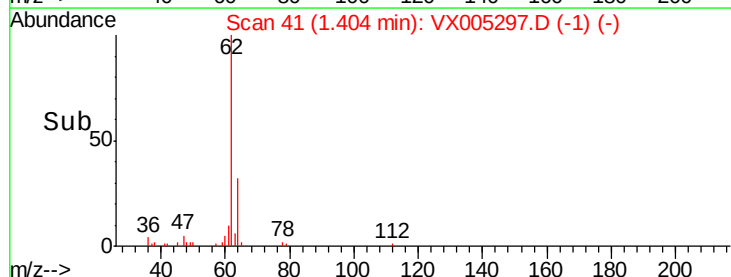
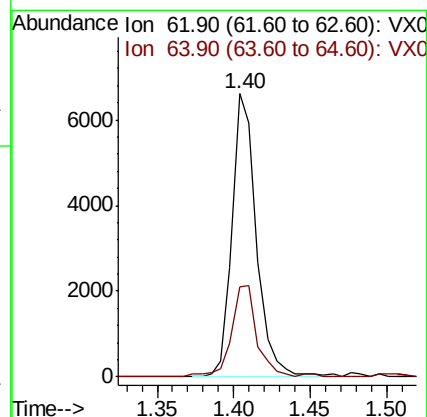
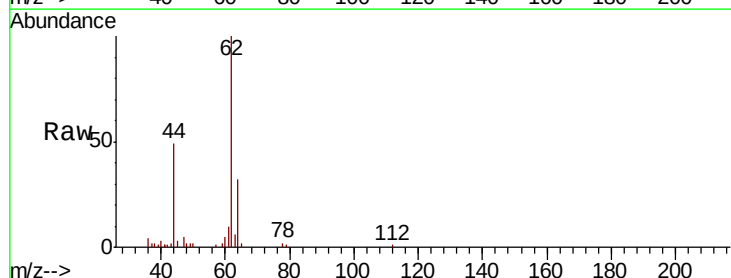
Acq: 12 Oct 2018 16:58

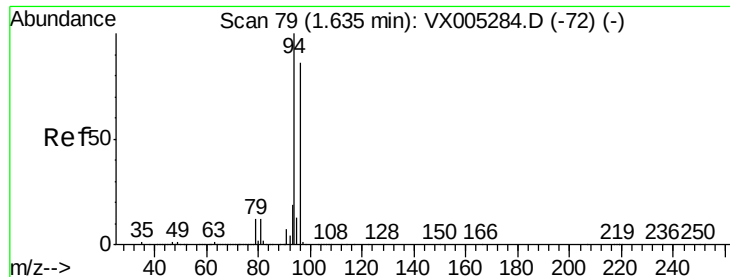
Tgt Ion: 62 Resp: 7307

Ion Ratio Lower Upper

62 100

64 31.8 25.8 38.8





#5

Bromomethane

Concen: 3.663 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

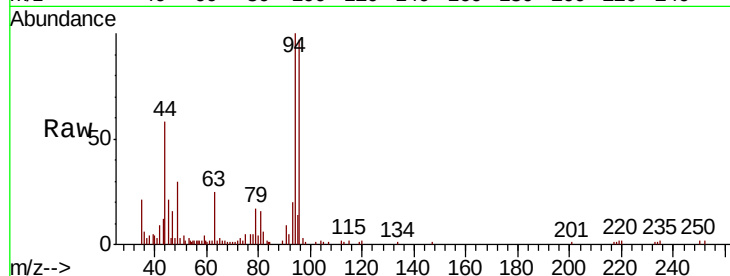
MDL-WATER-03-QT4-2018

Tot Ion: 94 Resp: 5210

Ion Ratio Lower Upper

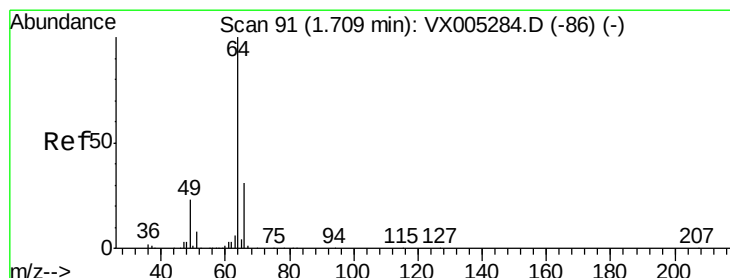
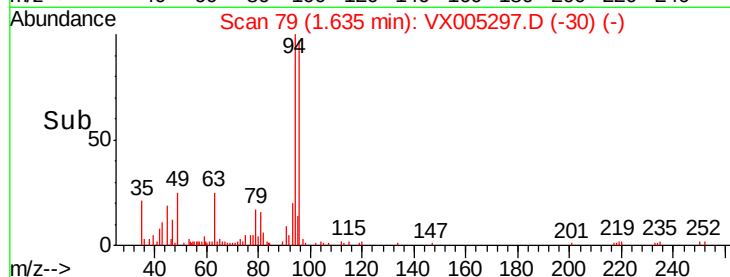
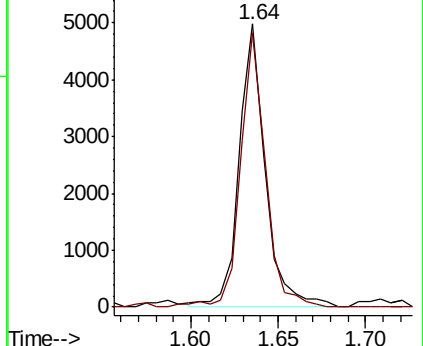
94 100

96 97.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.888 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.01 min

Lab File: VX005297.D

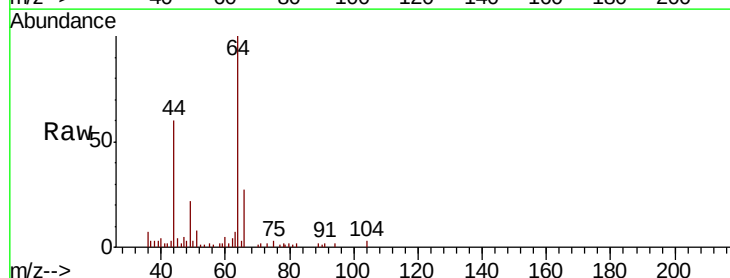
Acq: 12 Oct 2018 16:58

Tgt Ion: 64 Resp: 4927

Ion Ratio Lower Upper

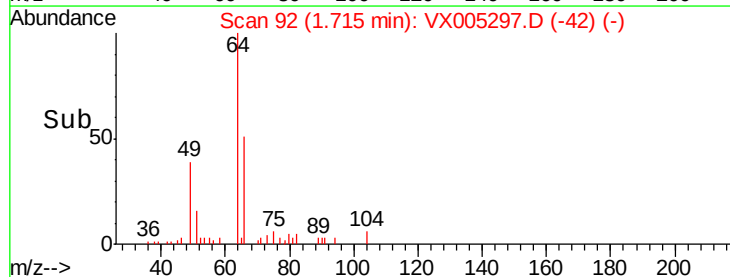
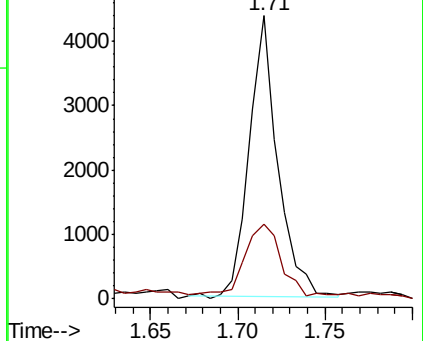
64 100

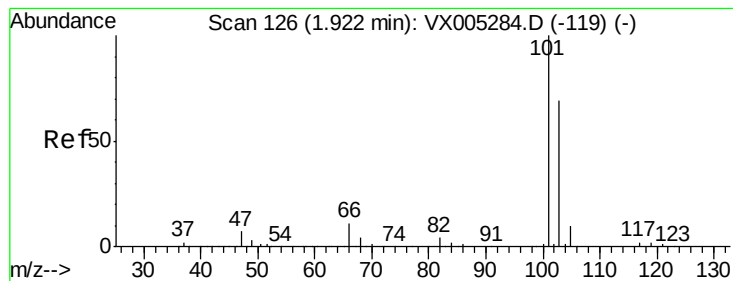
66 25.4 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



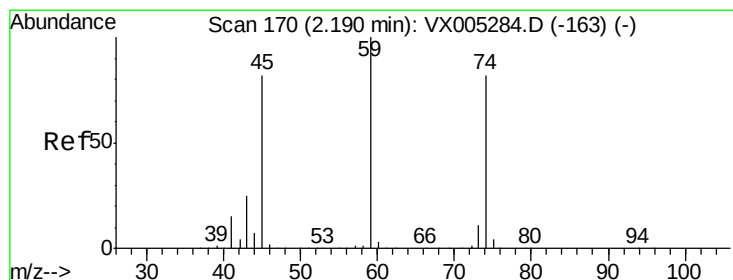
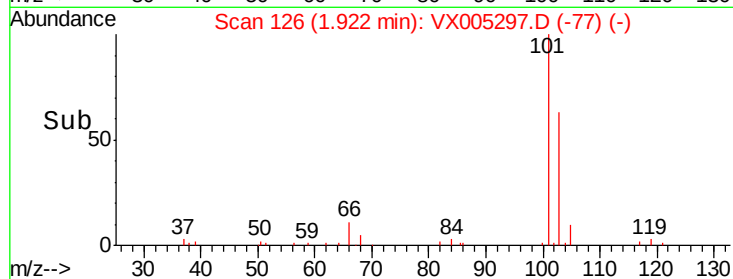
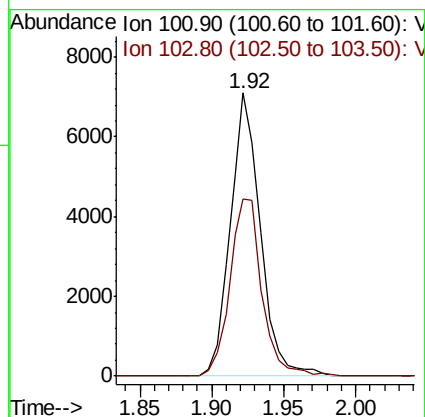
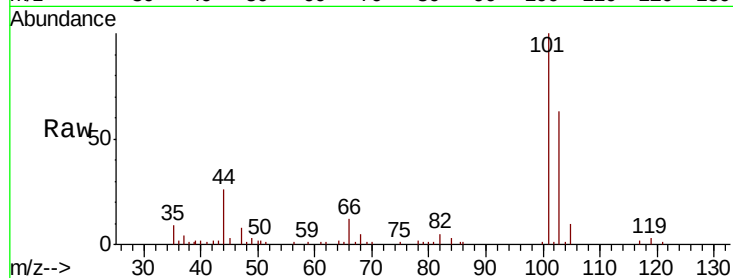


#7

Trichlorofluoromethane
Concen: 2.624 ug/l
RT: 1.92 min Scan# 126
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

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

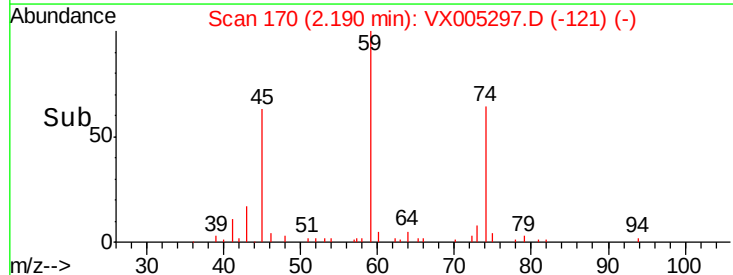
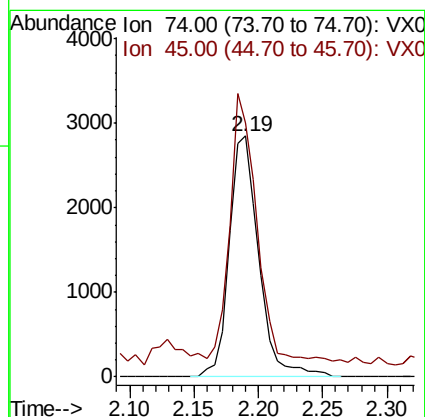
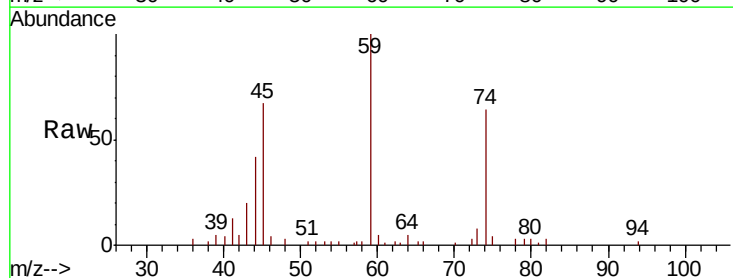
Tot Ion:101 Resp: 10369
Ion Ratio Lower Upper
101 100
103 62.8 48.9 73.3

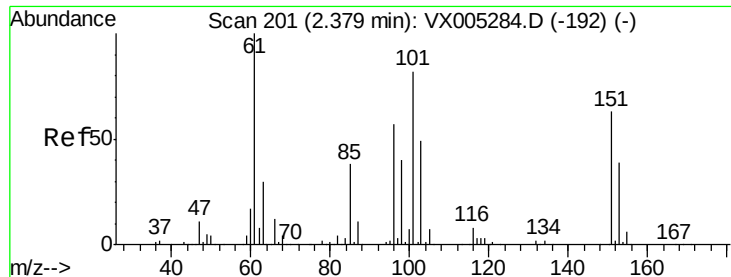


#8

Diethyl Ether
Concen: 2.713 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 74 Resp: 4578
Ion Ratio Lower Upper
74 100
45 101.0 48.3 144.8

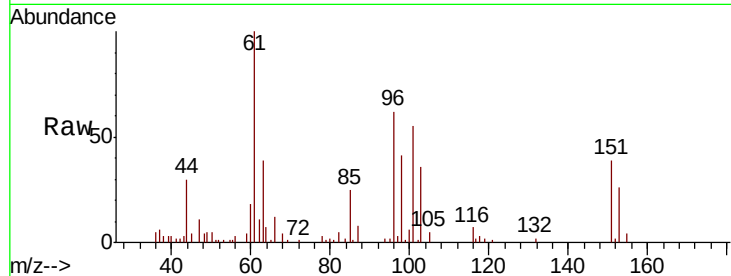




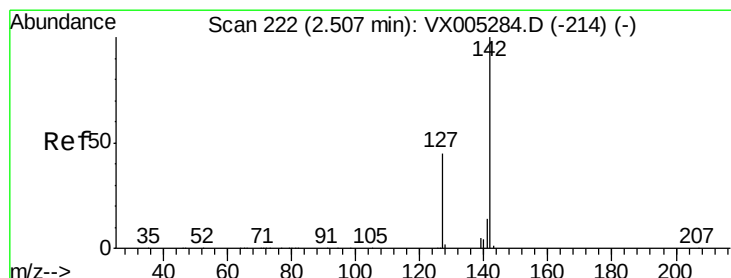
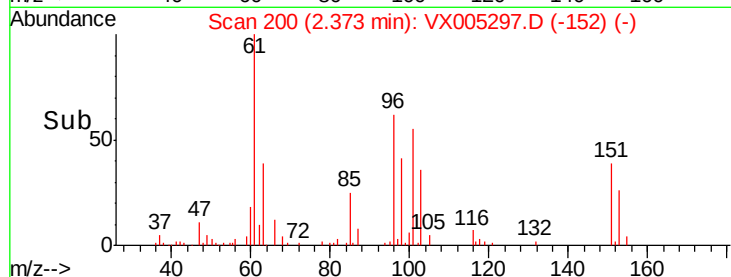
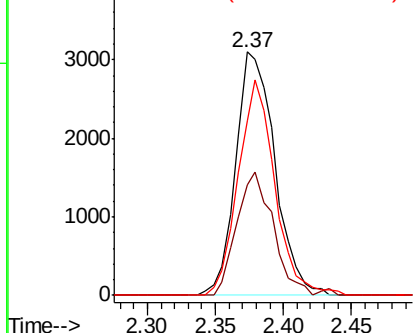
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.738 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.01 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

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

Tot Ion:101 Resp: 6246
 Ion Ratio Lower Upper
 101 100
 85 46.9 34.2 51.4
 151 82.7 65.0 97.6

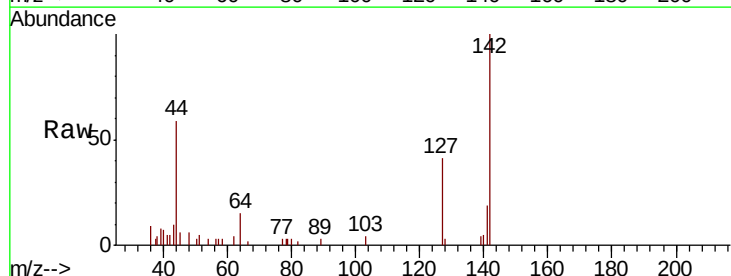


Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 150.80 (150.50 to 151.50): V

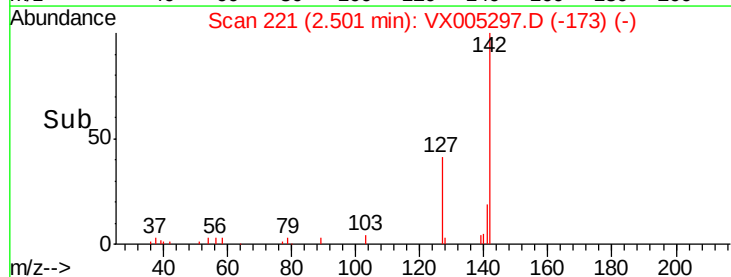
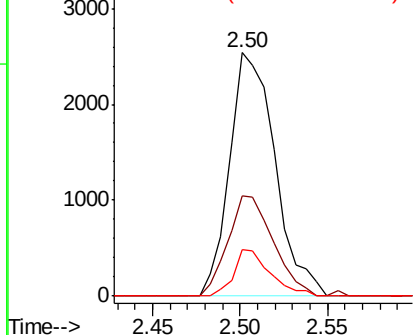


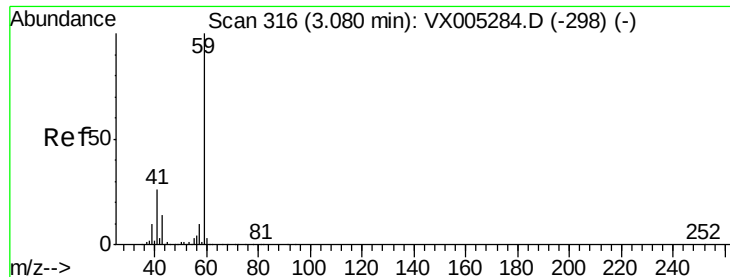
#10
 Methyl Iodide
 Concen: 4.234 ug/l
 RT: 2.50 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

Tgt Ion:142 Resp: 4594
 Ion Ratio Lower Upper
 142 100
 127 41.1 33.8 50.6
 141 15.3 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



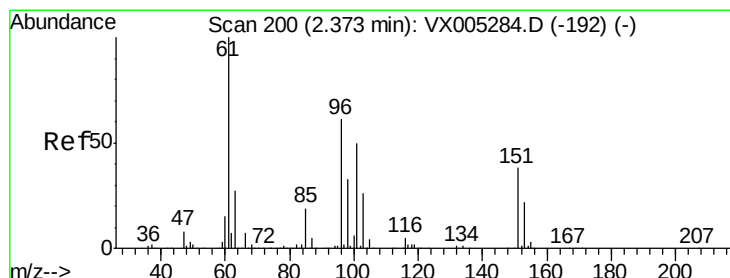
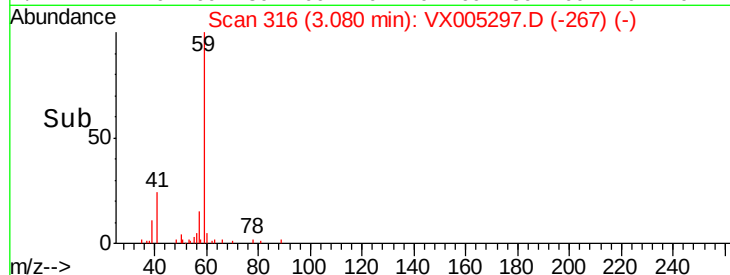
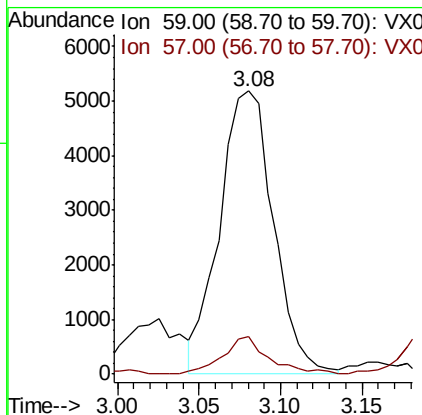
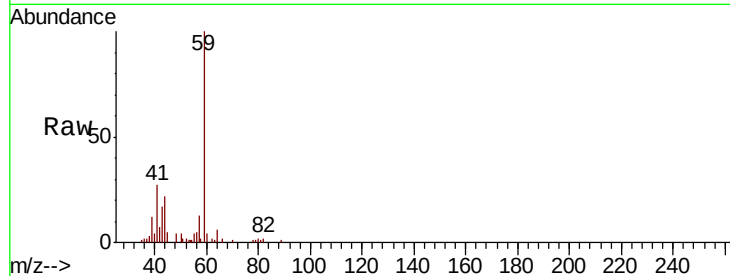


#11

Tert butyl alcohol
 Concen: 14.786 ug/l
 RT: 3.08 min Scan# 316
 Delta R.T. -0.00 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

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

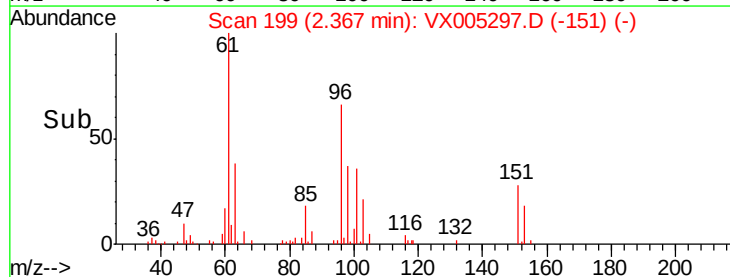
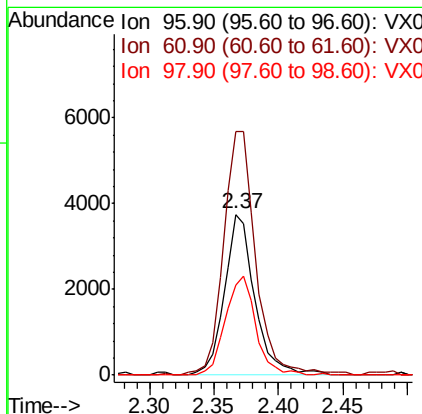
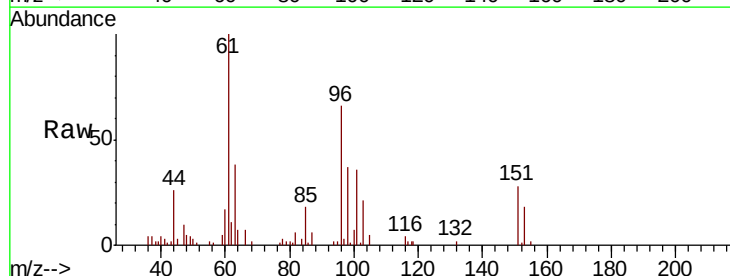
Tot Ion: 59 Resp: 11944
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.2 12.4

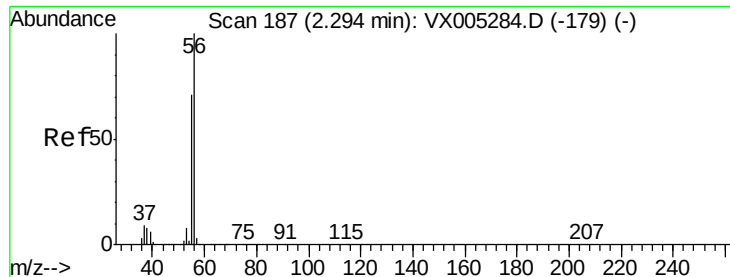


#12

1,1-Dichloroethene
 Concen: 2.745 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.01 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

Tgt Ion: 96 Resp: 6204
 Ion Ratio Lower Upper
 96 100
 61 149.9 128.8 193.2
 98 55.8 52.2 78.2





#13

Acrolein

Concen: 13.998 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

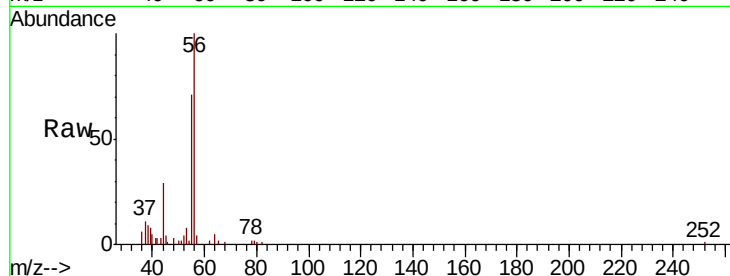
MDL-WATER-03-QT4-2018

Tot Ion: 56 Resp: 8268

Ion Ratio Lower Upper

56 100

55 76.0 54.7 82.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

6000

5000

4000

3000

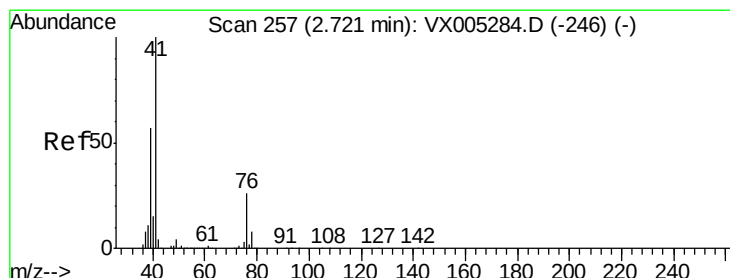
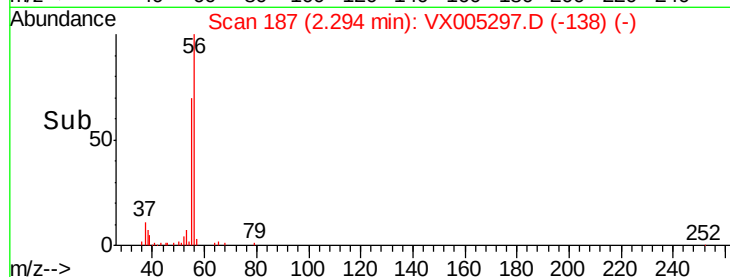
2000

1000

0

Time-->

2.25 2.30 2.35



#14

Allyl chloride

Concen: 2.556 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

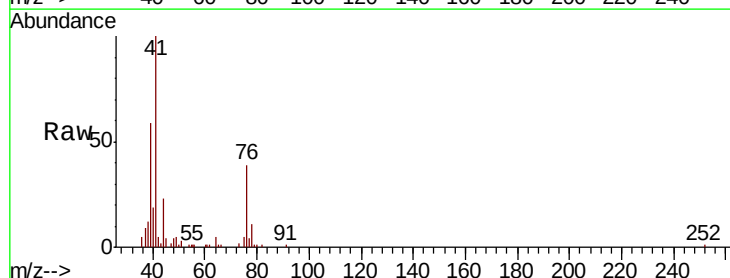
Tgt Ion: 41 Resp: 12683

Ion Ratio Lower Upper

41 100

39 62.2 48.9 73.3

76 34.3 26.7 40.1



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

8000

6000

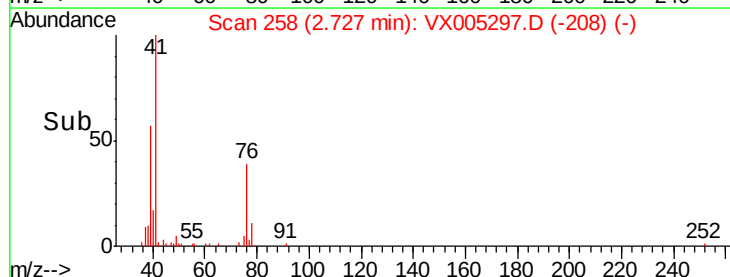
4000

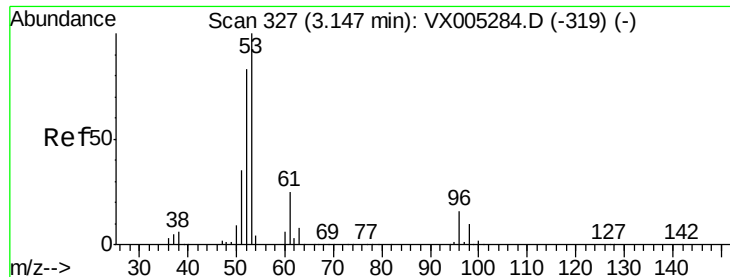
2000

0

Time-->

2.60 2.65 2.70 2.75 2.80





#15

Acrylonitrile

Concen: 12.841 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

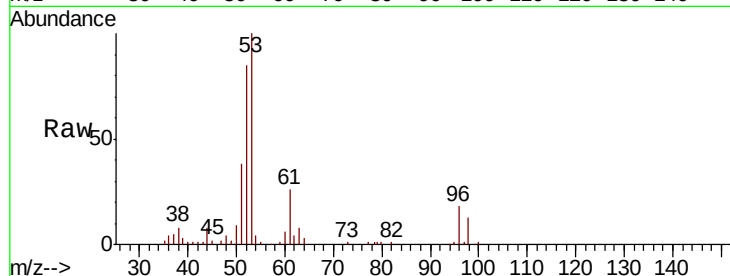
Tot Ion: 53 Resp: 23505

Ion Ratio Lower Upper

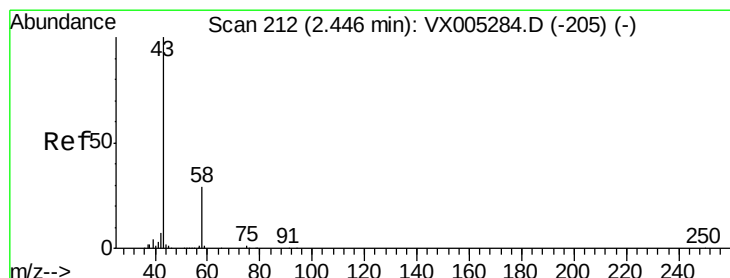
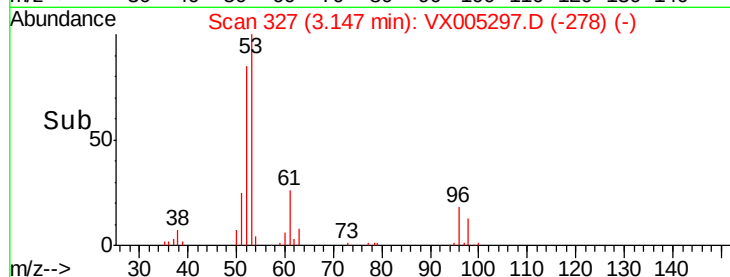
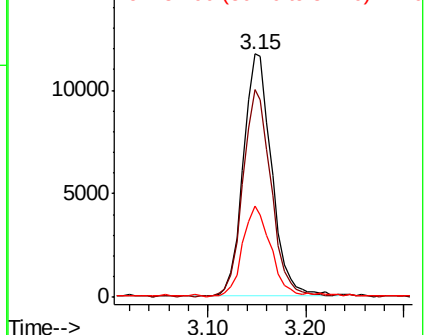
53 100

52 86.6 65.2 97.8

51 37.9 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: 13.383 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005297.D

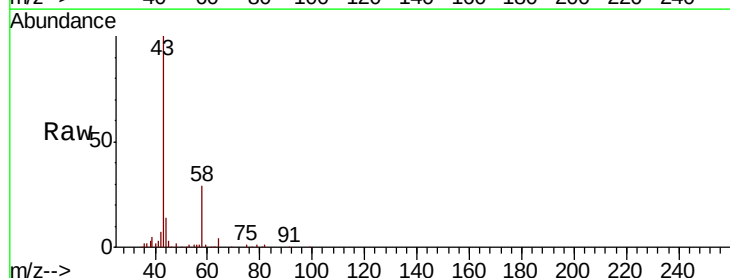
Acq: 12 Oct 2018 16:58

Tgt Ion: 43 Resp: 22159

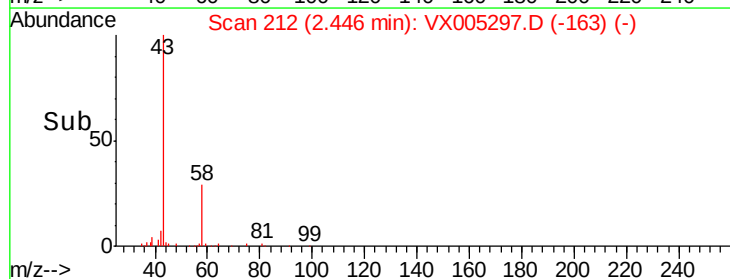
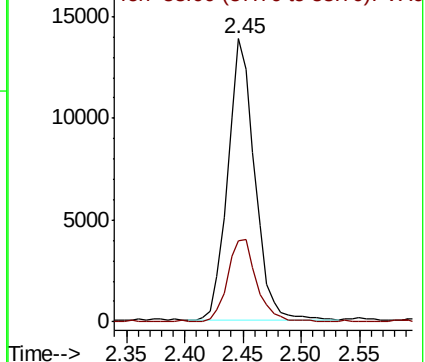
Ion Ratio Lower Upper

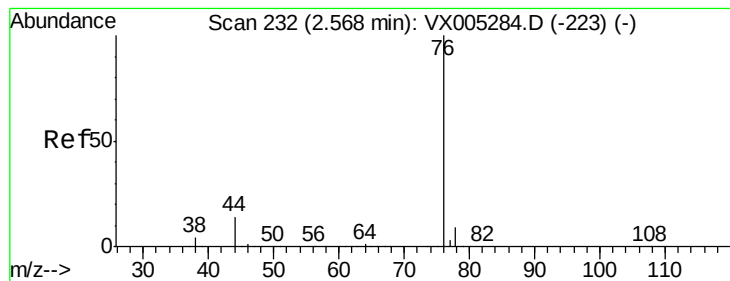
43 100

58 29.0 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: 2.575 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

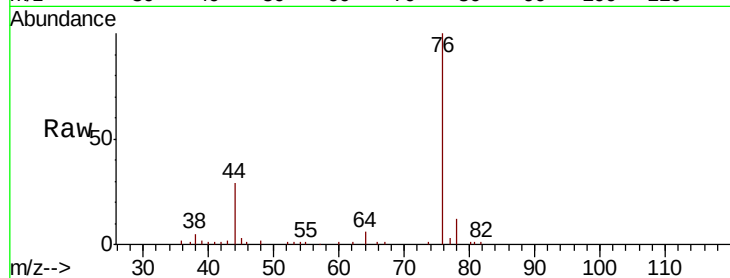
MDL-WATER-03-QT4-2018

Tot Ion: 76 Resp: 17625

Ion Ratio Lower Upper

76 100

78 11.3 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

12000

10000

8000

6000

4000

2000

0

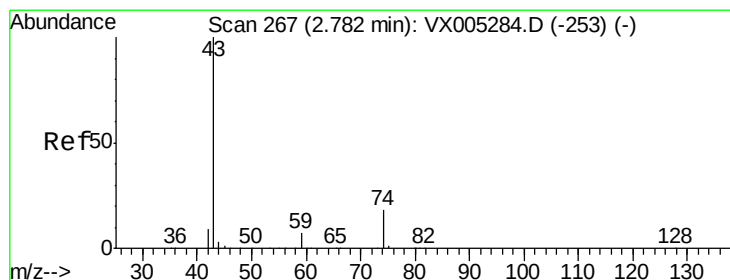
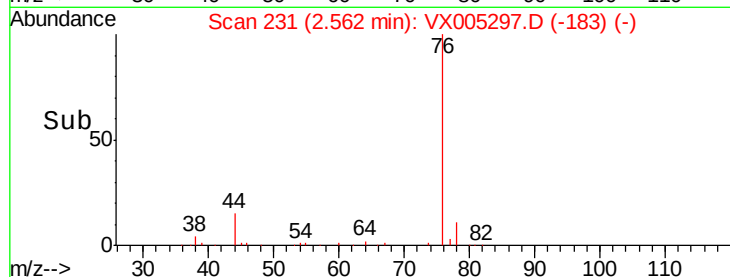
2.56

2.55

2.60

2.65

Time-->



#18

Methyl Acetate

Concen: 2.903 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005297.D

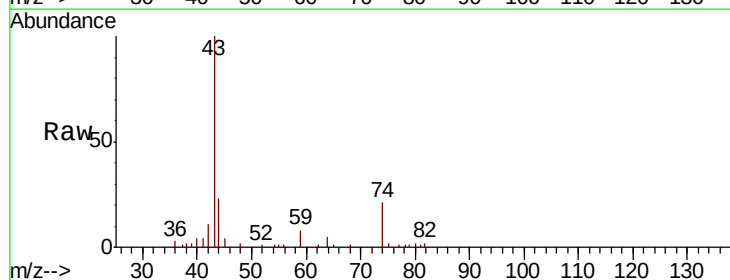
Acq: 12 Oct 2018 16:58

Tgt Ion: 43 Resp: 13674

Ion Ratio Lower Upper

43 100

74 20.7 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

8000

6000

4000

2000

0

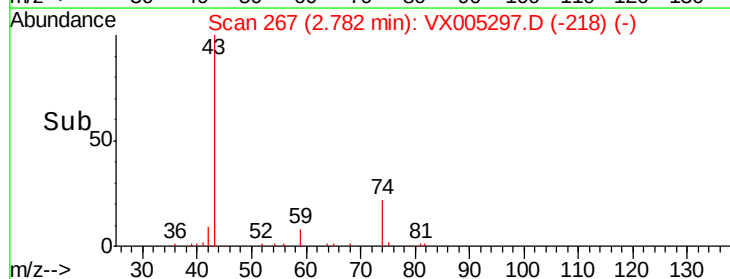
2.78

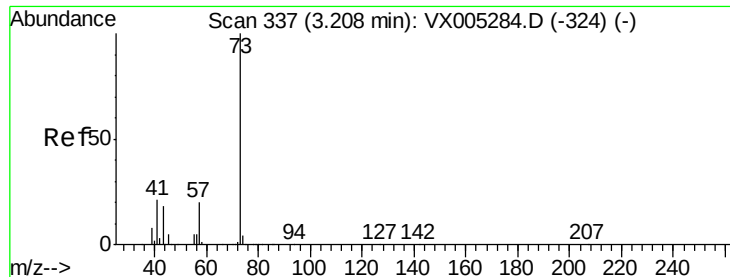
2.75

2.80

2.85

Time-->

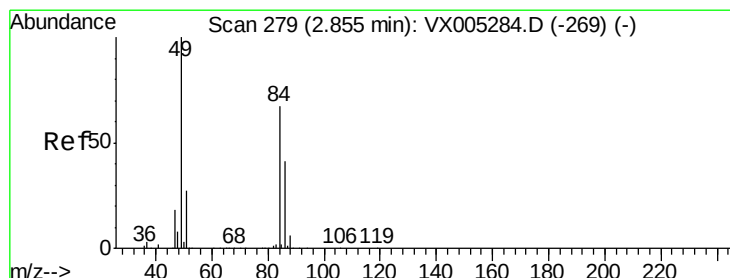
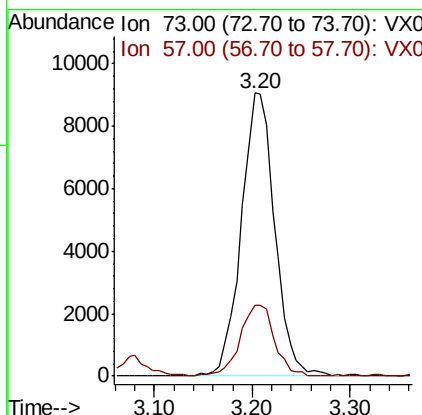
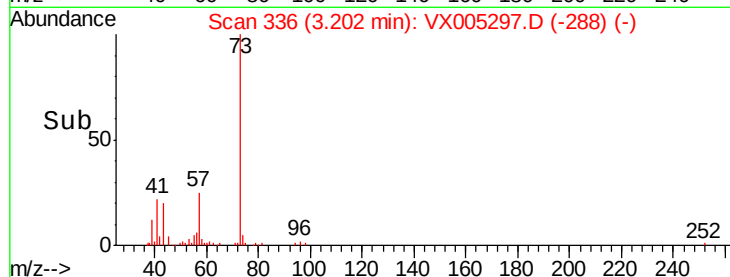
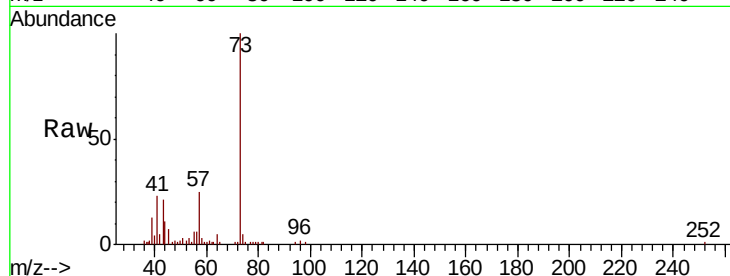




#19
Methyl tert-butyl Ether
Concen: 2.696 ug/l
RT: 3.20 min Scan# 336
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

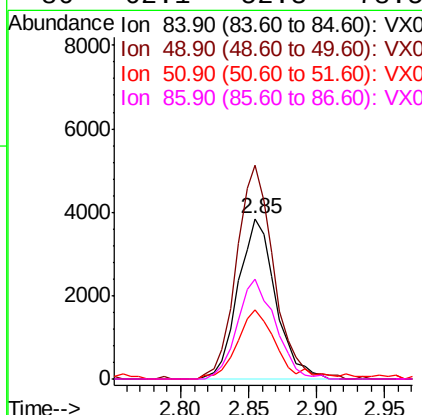
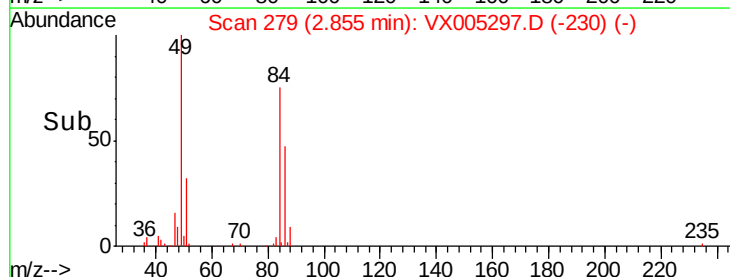
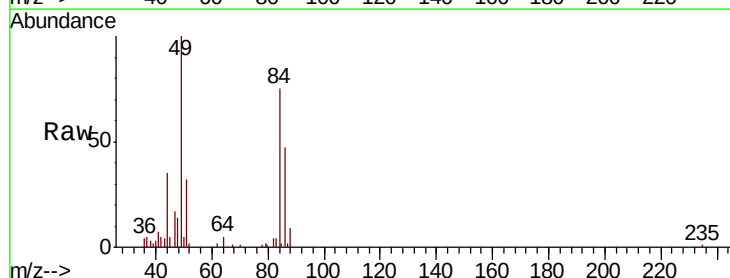
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

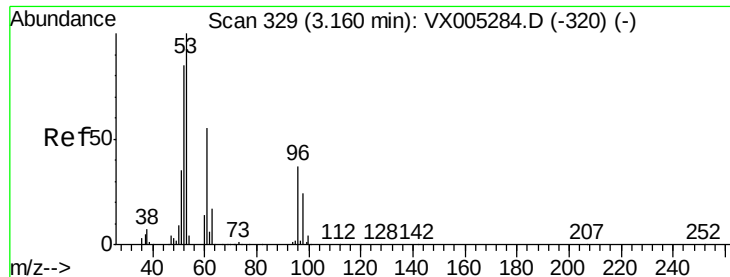
Tot Ion: 73 Resp: 21459
Ion Ratio Lower Upper
73 100
57 25.2 17.1 25.7



#20
Methylene Chloride
Concen: 1.806 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 84 Resp: 7401
Ion Ratio Lower Upper
84 100
49 133.3 101.2 151.8
51 42.9 29.5 44.3
86 62.1 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 2.742 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

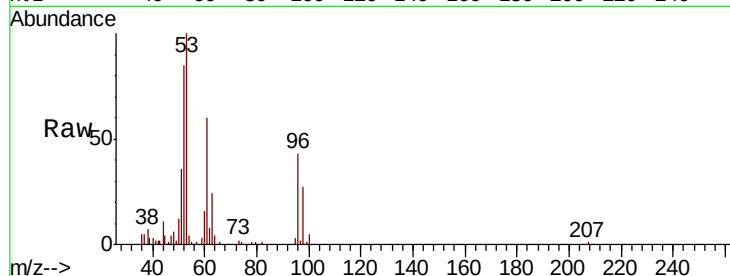
Tot Ion: 96 Resp: 6868

Ion Ratio Lower Upper

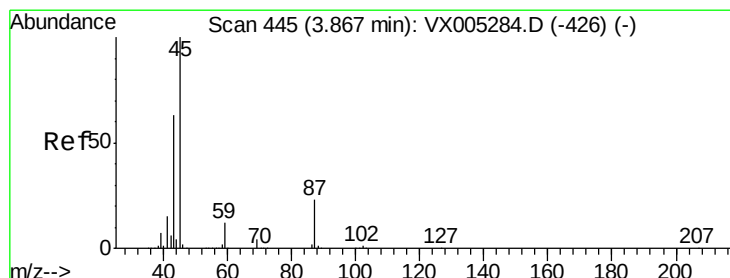
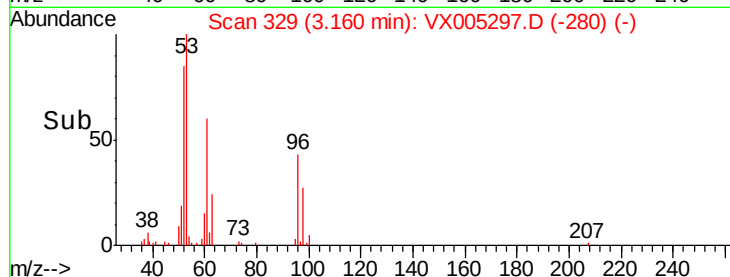
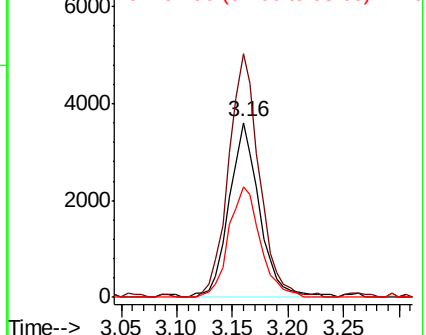
96 100

61 139.2 113.8 170.6

98 63.3 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: 2.243 ug/l

RT: 3.87 min Scan# 446

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Tgt Ion: 45 Resp: 18693

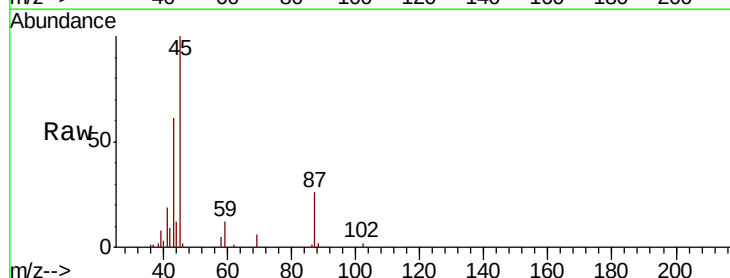
Ion Ratio Lower Upper

45 100

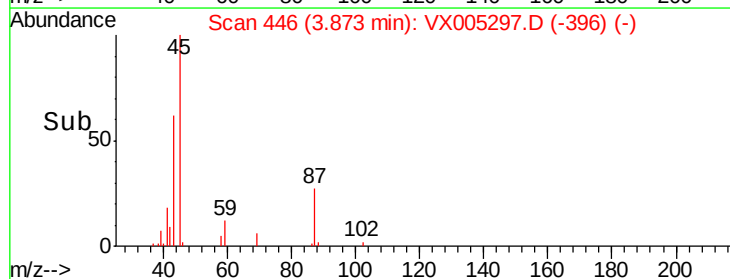
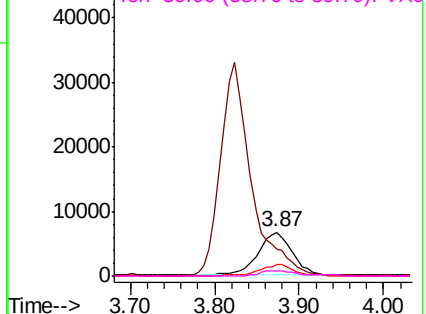
43 60.5 42.8 64.2

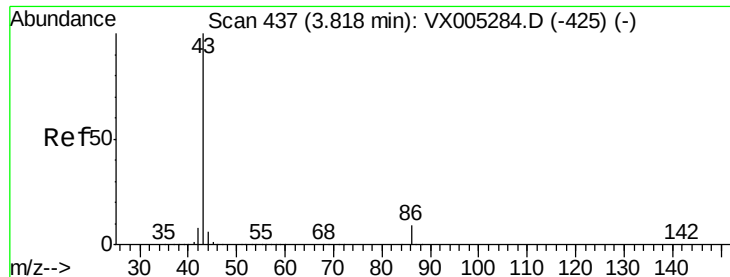
87 26.5 22.6 34.0

59 12.2 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: 11.540 ug/l

RT: 3.82 min Scan# 438

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

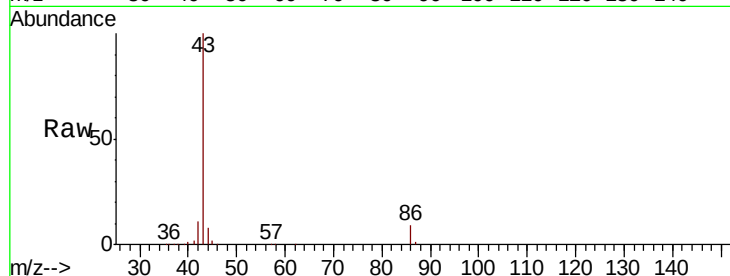
MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 84057

Ion Ratio Lower Upper

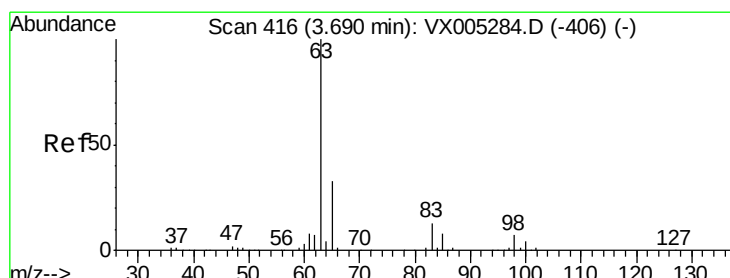
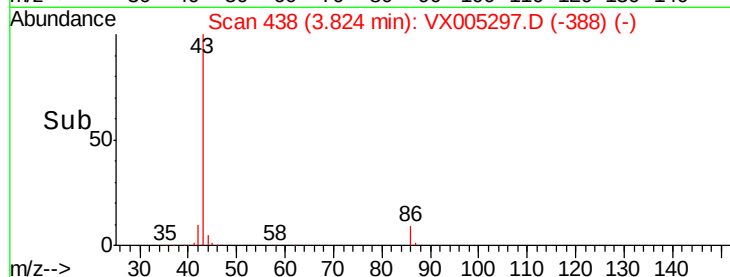
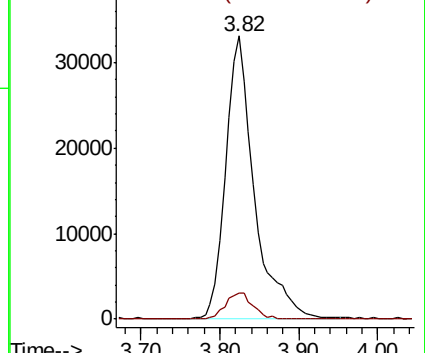
43 100

86 9.4 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 2.760 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

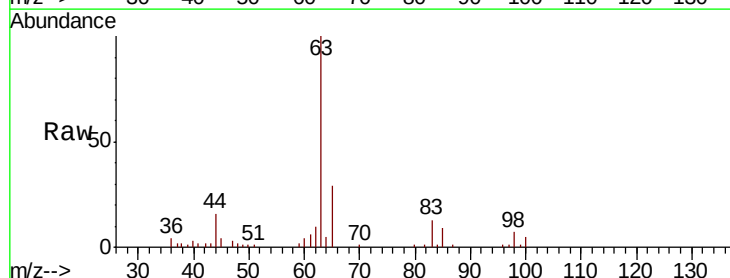
Tgt Ion: 63 Resp: 13182

Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.4

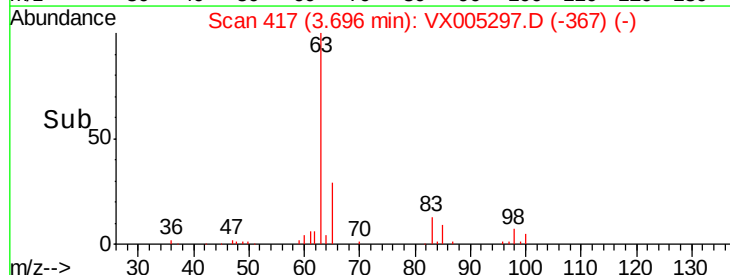
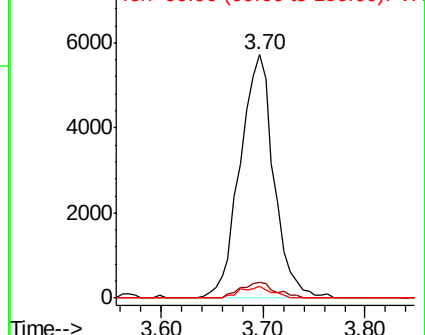
100 4.9 2.4 7.1

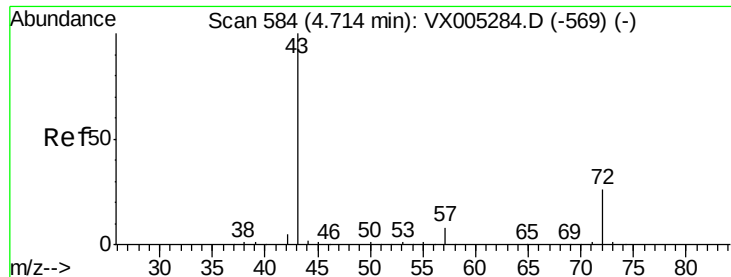


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 12.985 ug/l

RT: 4.71 min Scan# 584

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

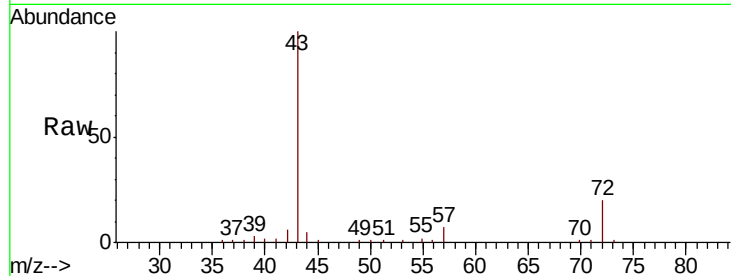
MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 31458

Ion Ratio Lower Upper

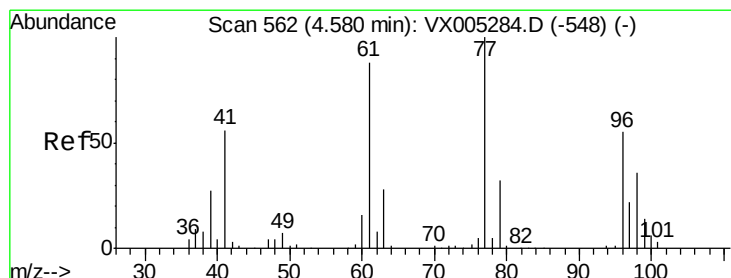
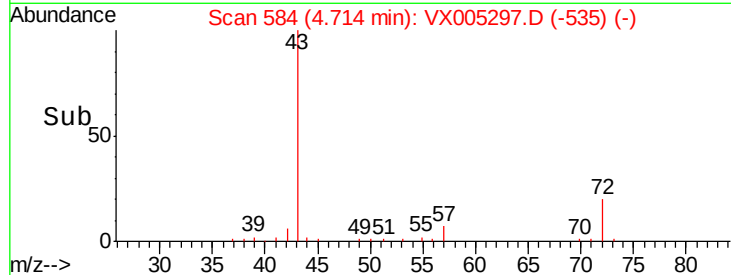
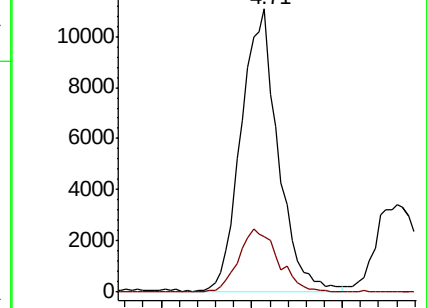
43 100

72 19.7 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 2.373 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.01 min

Lab File: VX005297.D

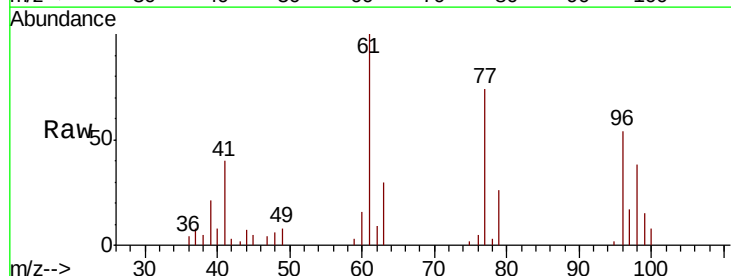
Acq: 12 Oct 2018 16:58

Tgt Ion: 77 Resp: 8476

Ion Ratio Lower Upper

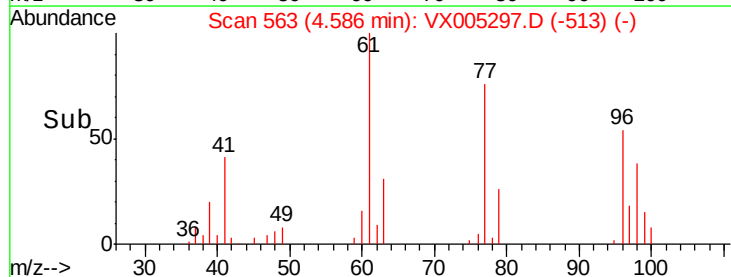
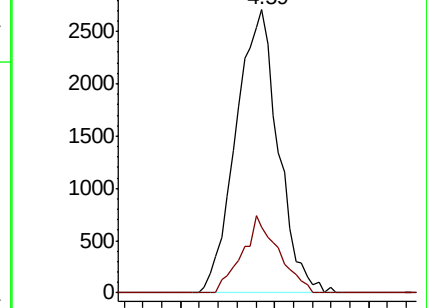
77 100

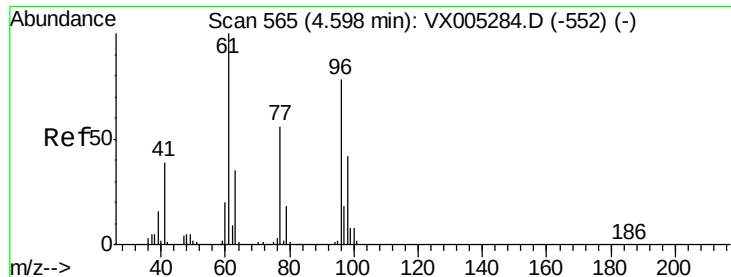
97 23.4 11.7 35.0



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



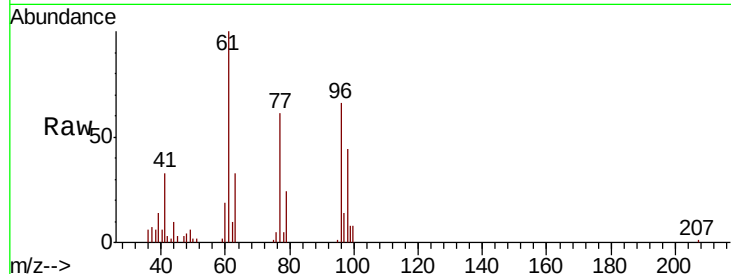


#27

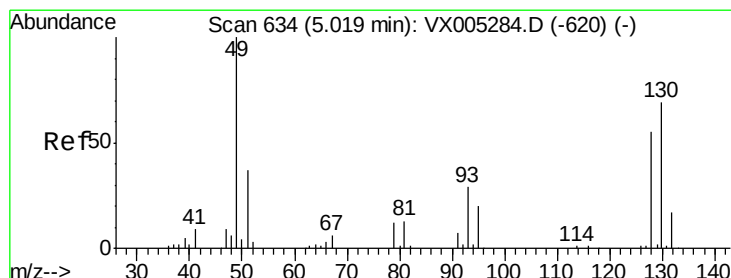
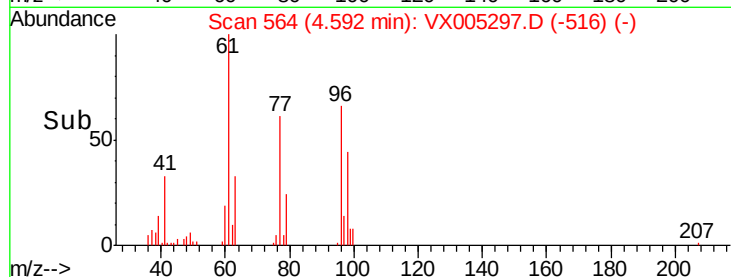
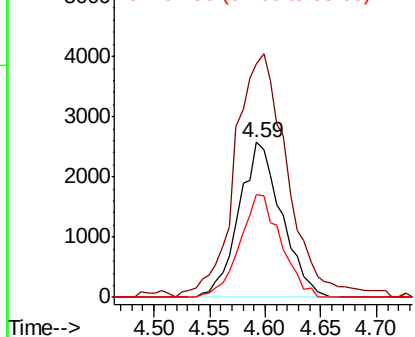
cis-1,2-Dichloroethene
Concen: 2.517 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

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

Tot Ion: 96 Resp: 6852
Ion Ratio Lower Upper
96 100
61 195.0 0.0 282.6
98 63.9 0.0 130.2



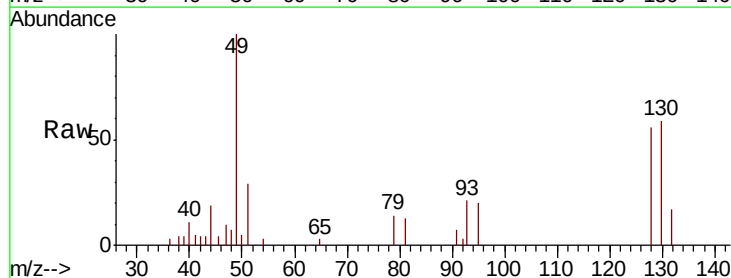
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



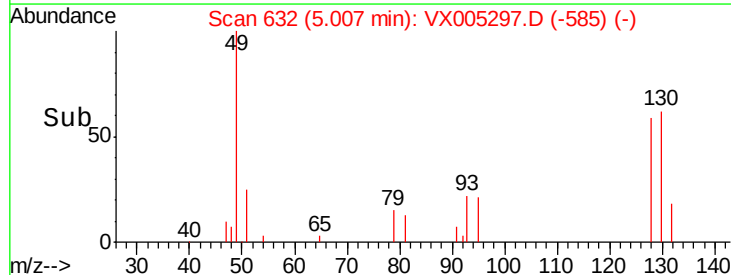
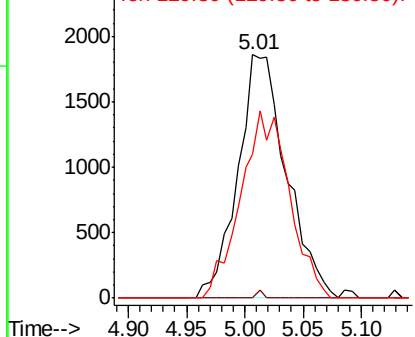
#28

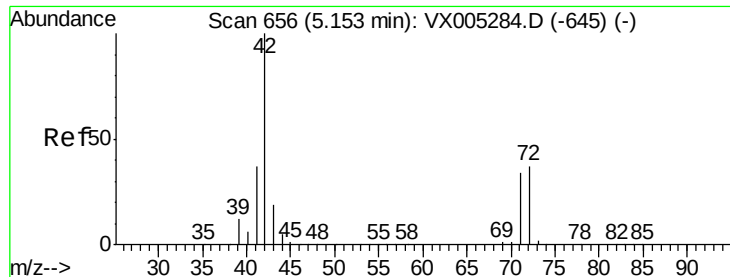
Bromochloromethane
Concen: 2.489 ug/l
RT: 5.01 min Scan# 632
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 49 Resp: 5420
Ion Ratio Lower Upper
49 100
129 0.4 0.0 4.2
130 76.9 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: 11.734 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

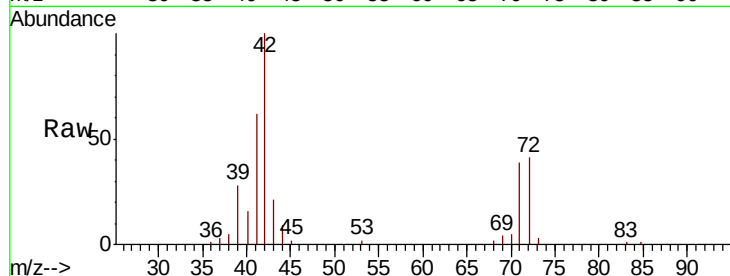
Tot Ion: 42 Resp: 18133

Ion Ratio Lower Upper

42 100

72 41.2 37.4 56.0

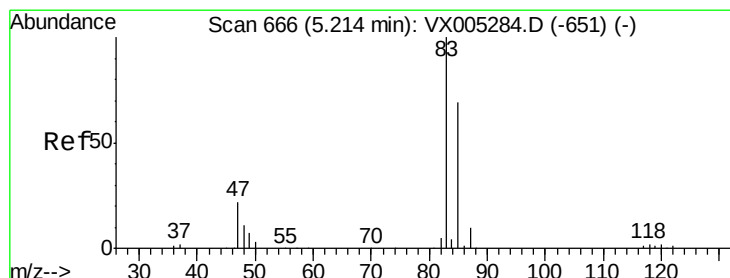
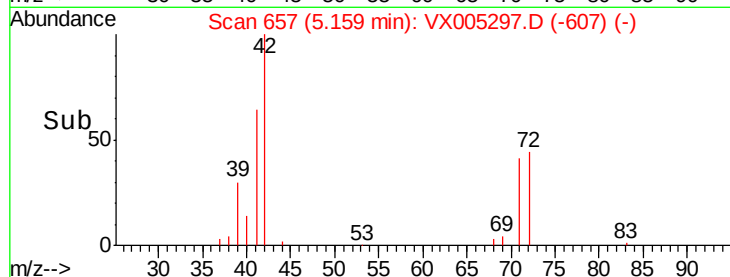
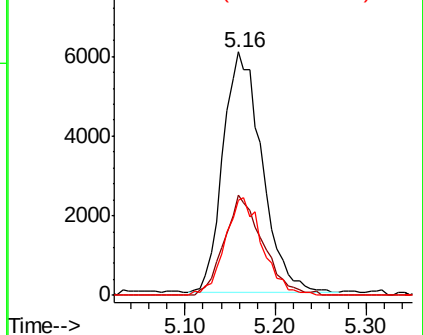
71 38.9 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 2.651 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX005297.D

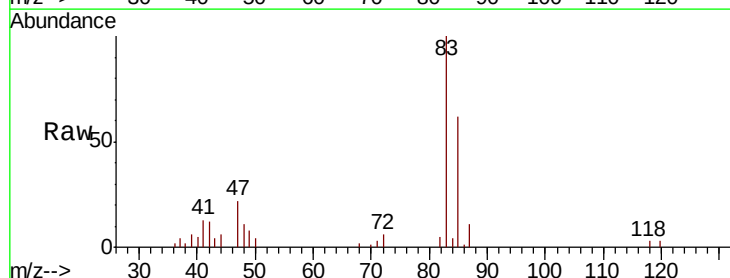
Acq: 12 Oct 2018 16:58

Tgt Ion: 83 Resp: 11750

Ion Ratio Lower Upper

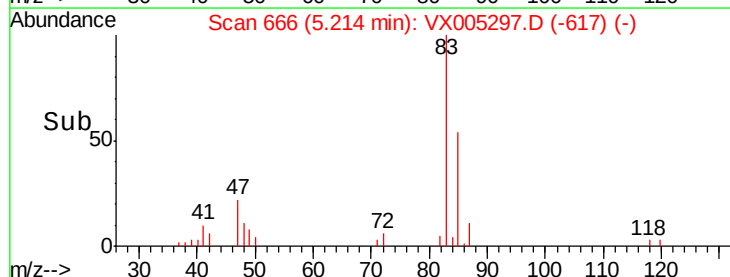
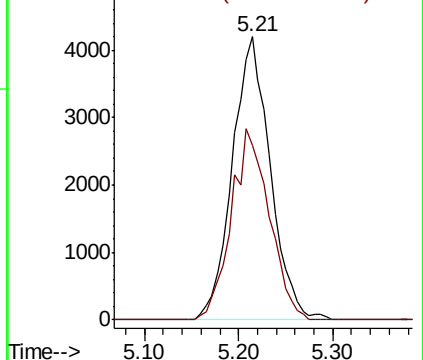
83 100

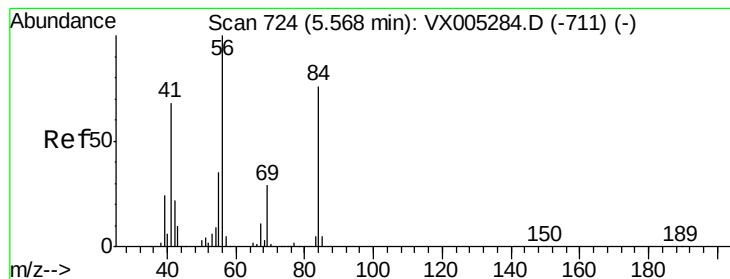
85 61.5 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 2.508 ug/l

RT: 5.57 min Scan# 724

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

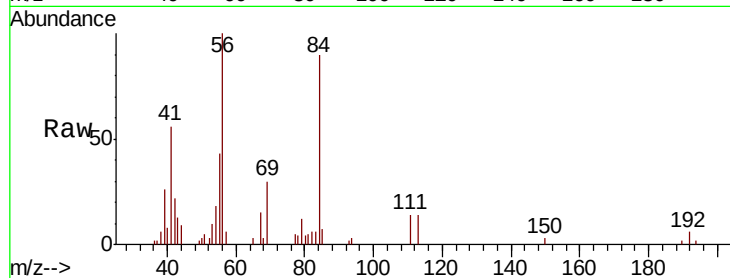
Tot Ion: 56 Resp: 9872

Ion Ratio Lower Upper

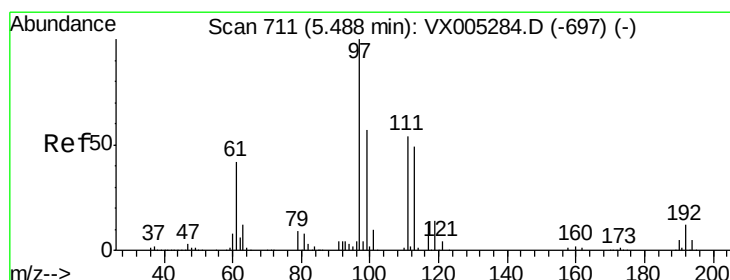
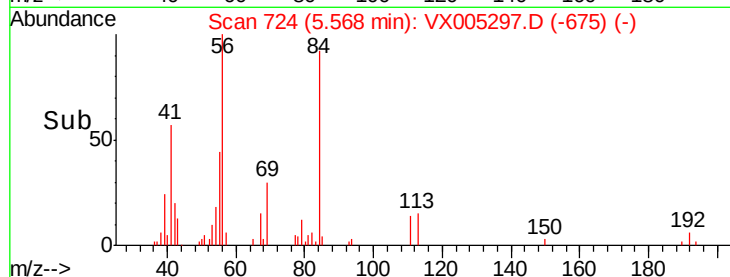
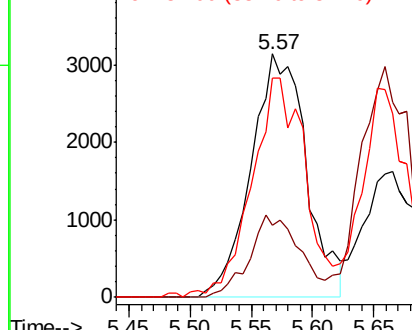
56 100

69 29.6 25.4 38.2

84 87.7 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: 2.596 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

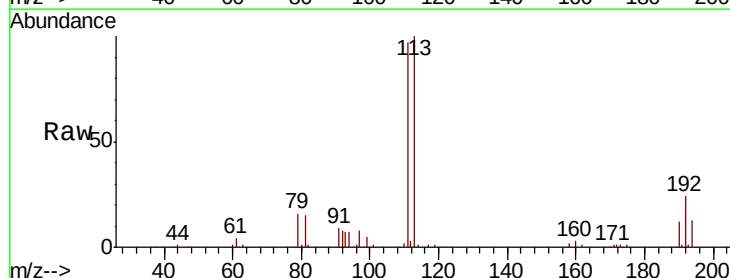
Tgt Ion: 97 Resp: 10013

Ion Ratio Lower Upper

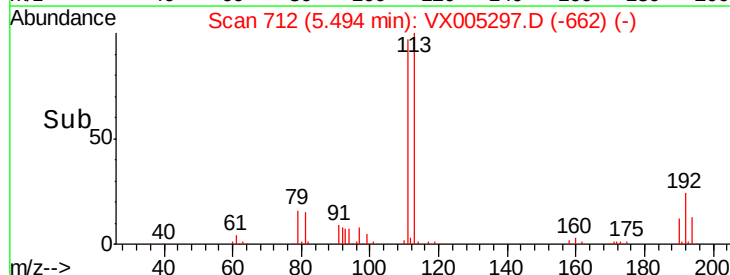
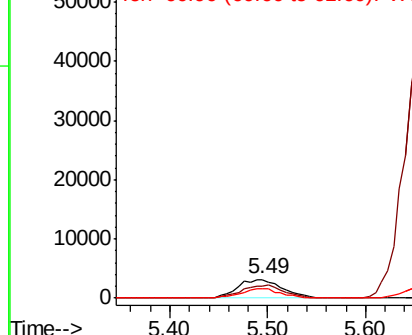
97 100

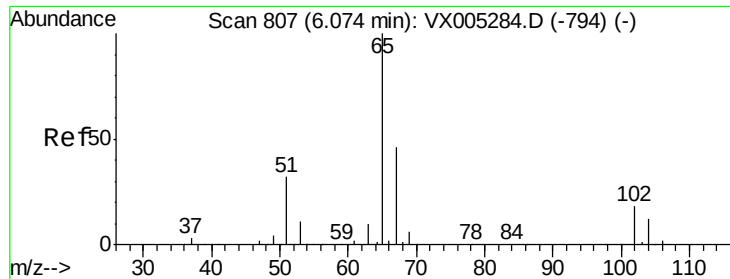
99 65.7 52.0 78.0

61 46.9 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

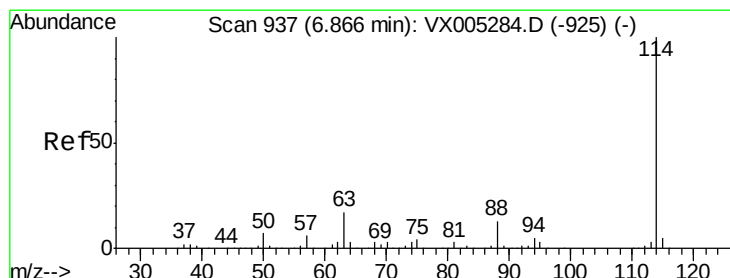
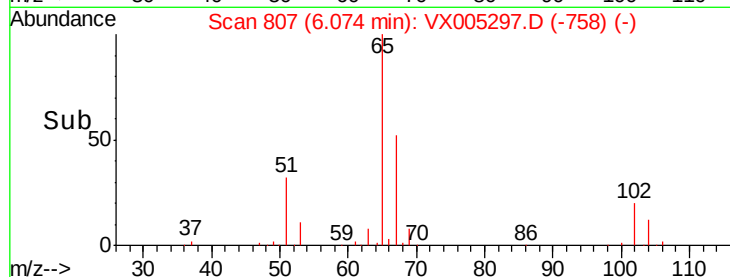
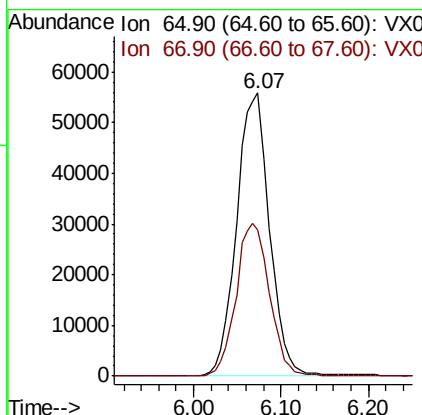
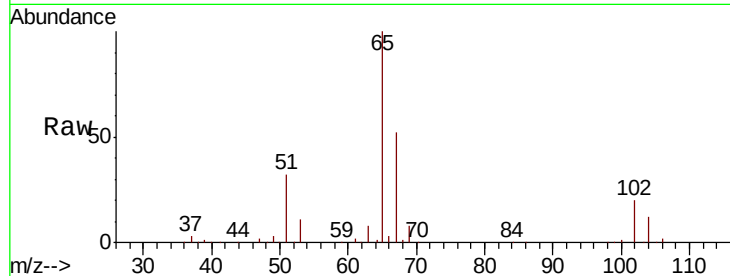




#33
 1,2-Dichloroethane-d4
 Concen: 50.838 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

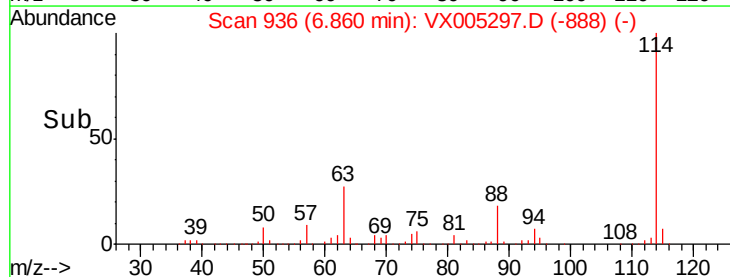
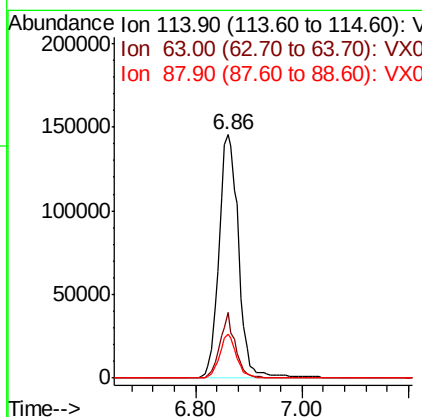
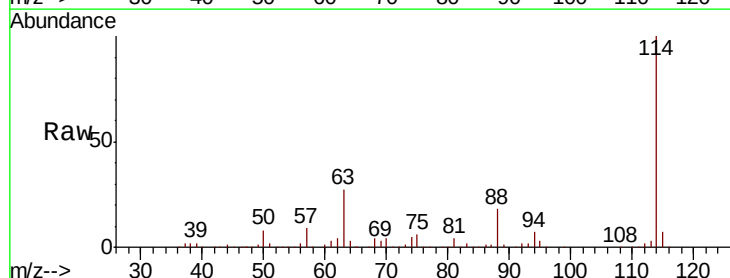
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

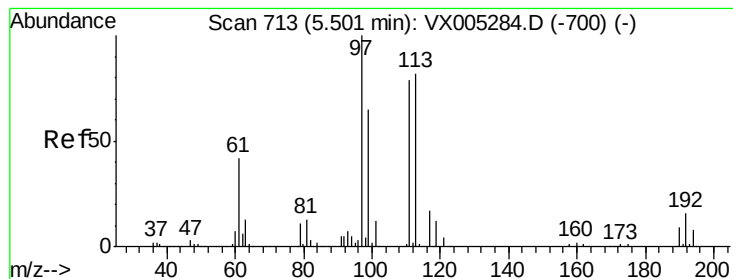
Tot Ion: 65 Resp: 145583
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

Tgt Ion: 114 Resp: 375802
 Ion Ratio Lower Upper
 114 100
 63 26.7 0.0 39.0
 88 18.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 47.387 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

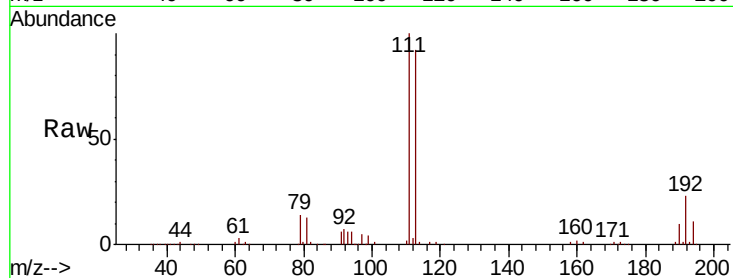
Tot Ion:113 Resp: 117948

Ion Ratio Lower Upper

113 100

111 106.3 82.4 123.6

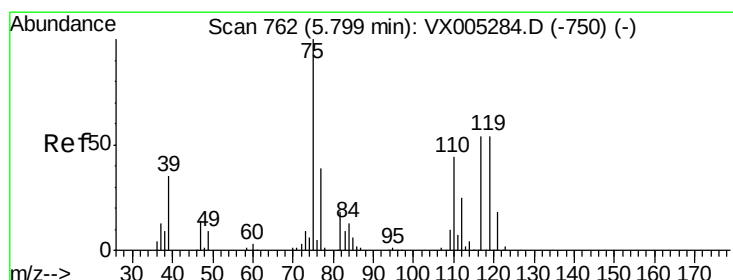
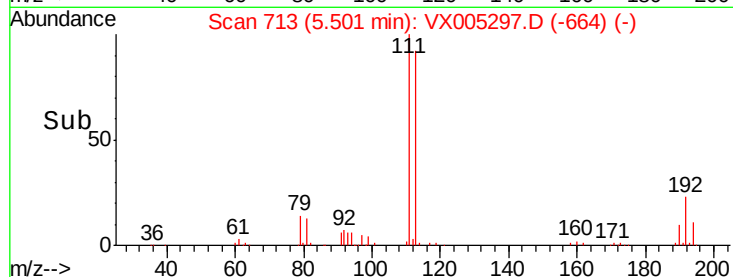
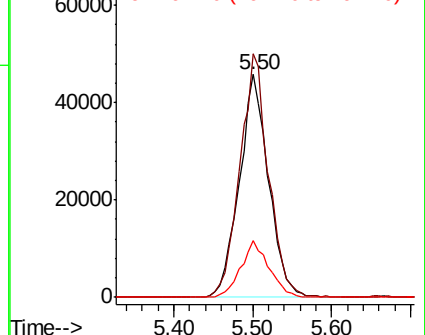
192 24.7 19.4 29.2



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: 2.378 ug/l

RT: 5.81 min Scan# 763

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

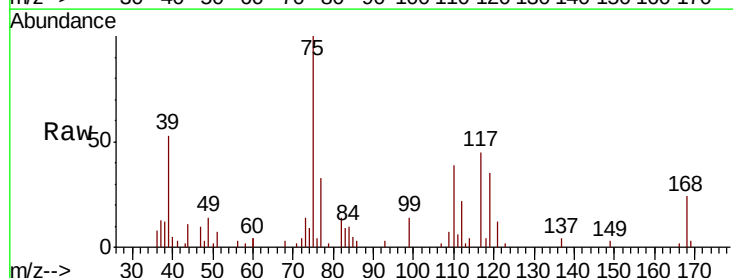
Tgt Ion: 75 Resp: 8654

Ion Ratio Lower Upper

75 100

110 38.0 18.0 54.0

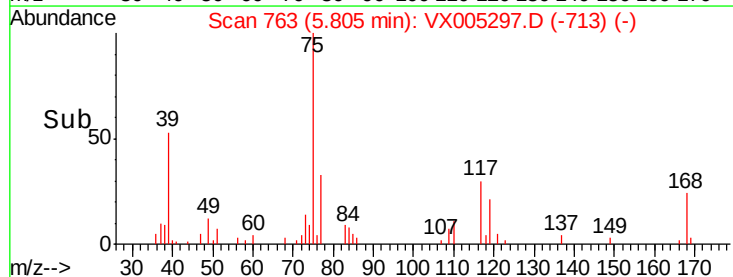
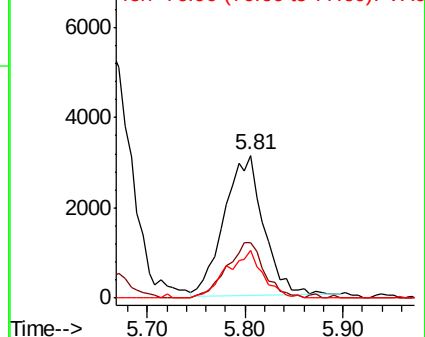
77 31.4 24.6 36.8

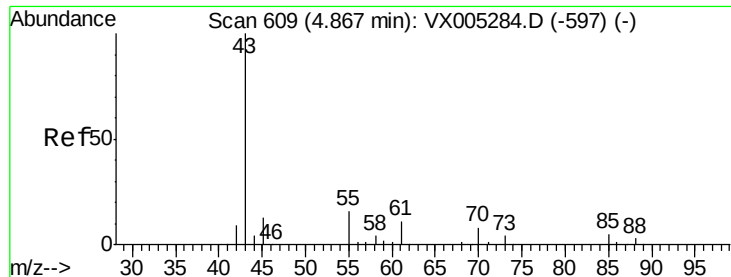


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

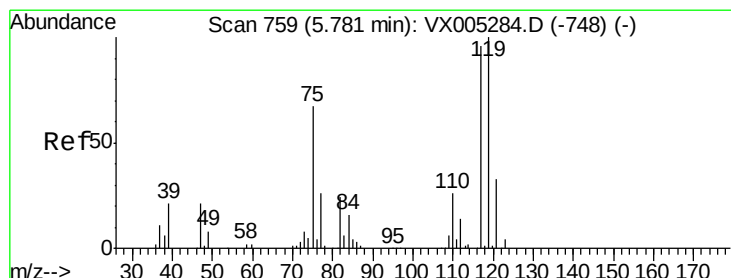
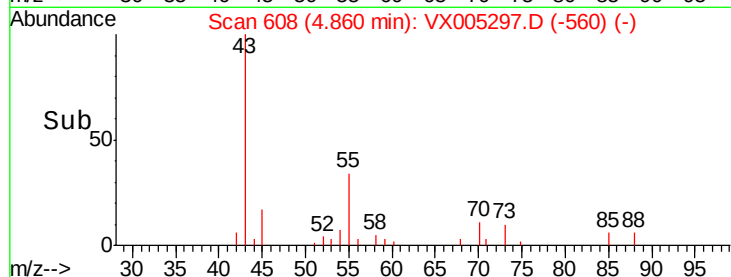
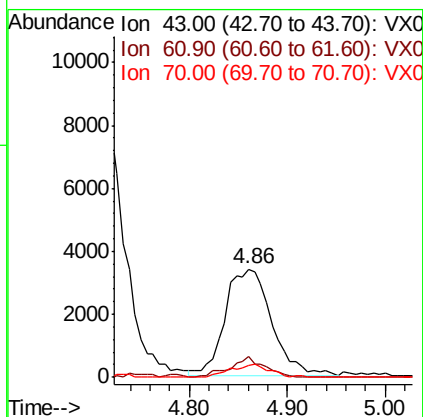
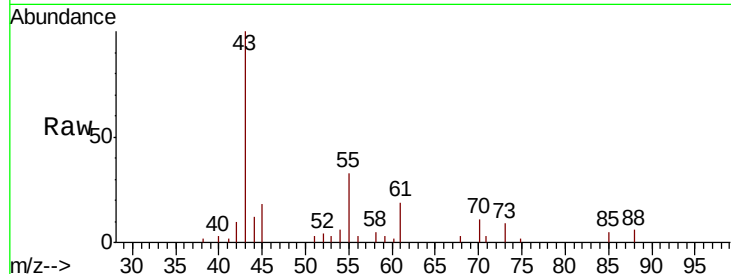




#37
Ethyl Acetate
Concen: 2.385 ug/l
RT: 4.86 min Scan# 608
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

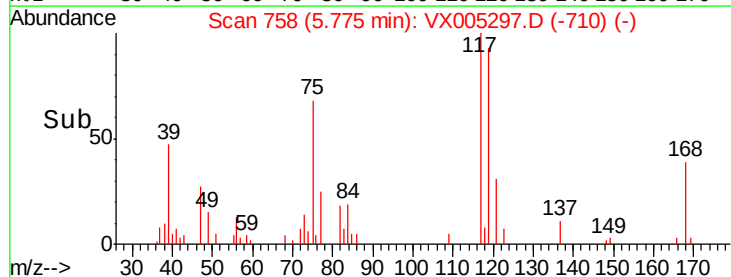
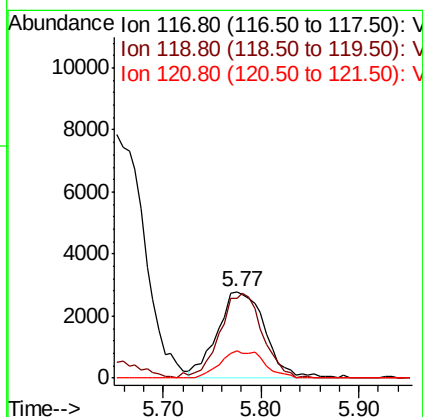
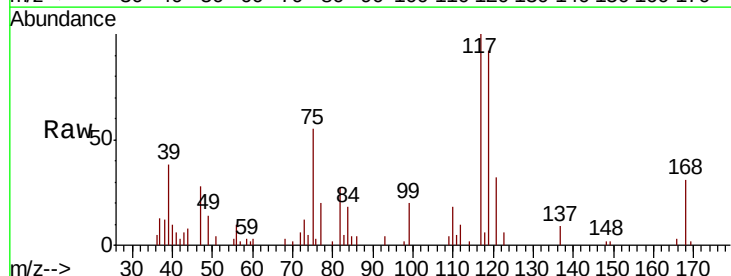
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

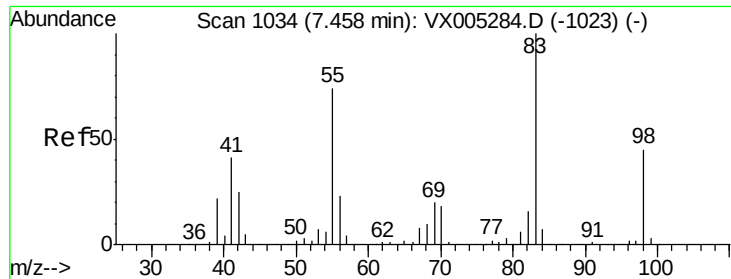
Tot Ion: 43 Resp: 11164
Ion Ratio Lower Upper
43 100
61 14.5 11.5 17.3
70 10.0 9.0 13.6



#38
Carbon Tetrachloride
Concen: 2.591 ug/l
RT: 5.77 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 117 Resp: 9475
Ion Ratio Lower Upper
117 100
119 91.6 78.8 118.2
121 32.2 24.9 37.3

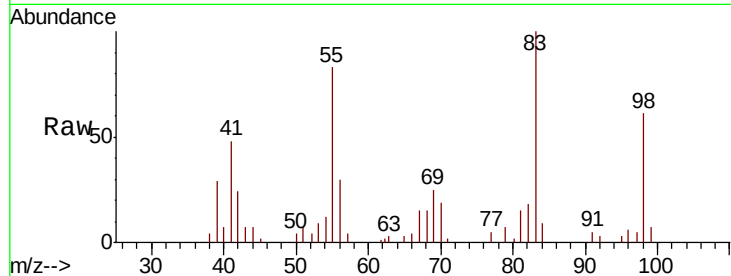




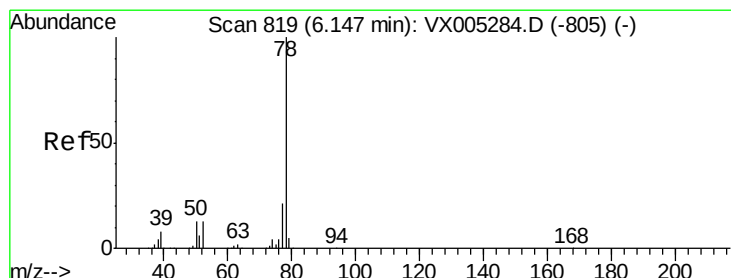
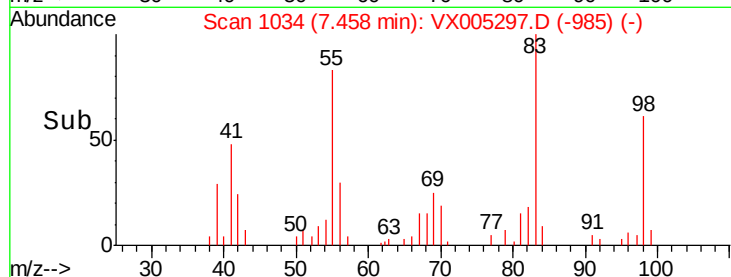
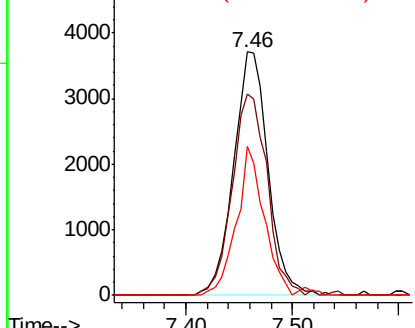
#39
Methylvlcyclohexane
Concen: 2.141 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

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

Tot Ion: 83 Resp: 8433
Ion Ratio Lower Upper
83 100
55 82.7 61.0 91.4
98 61.4 39.6 59.4#

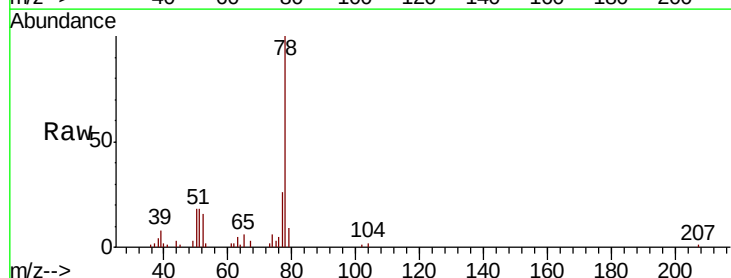


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

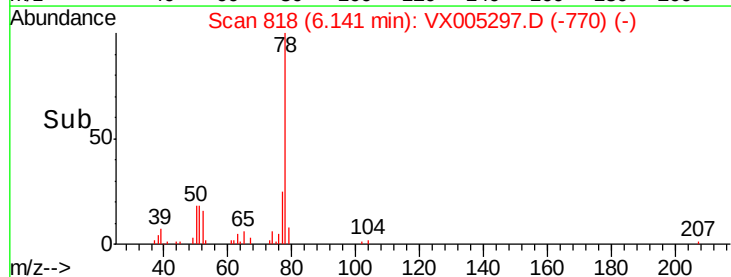
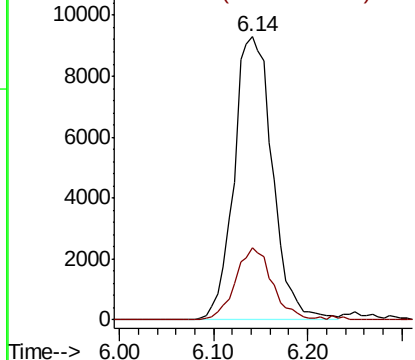


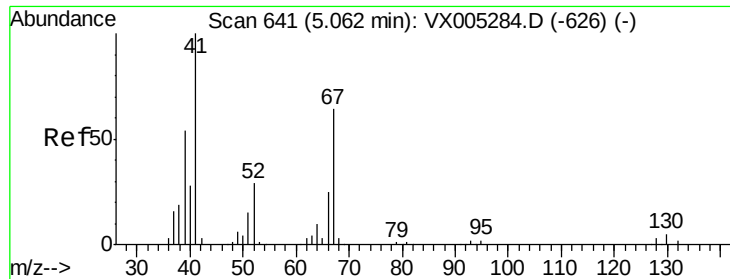
#40
Benzene
Concen: 2.424 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 78 Resp: 26466
Ion Ratio Lower Upper
78 100
77 25.6 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0

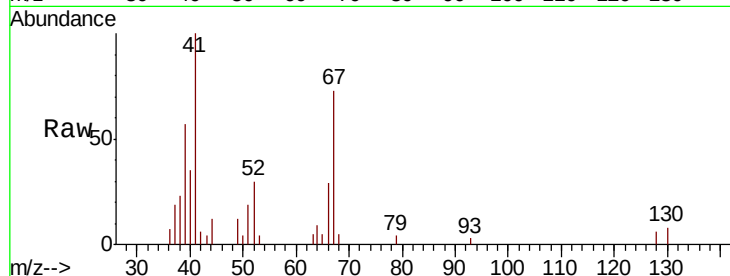




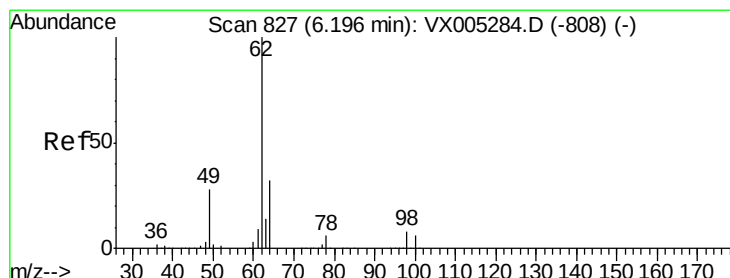
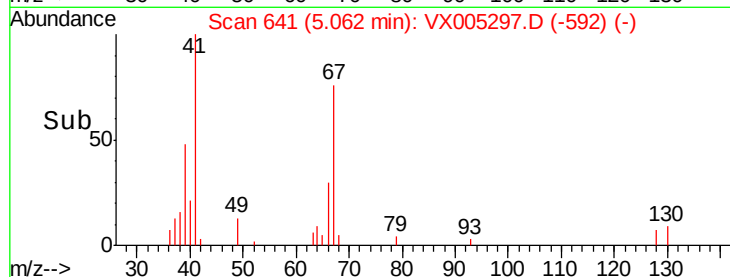
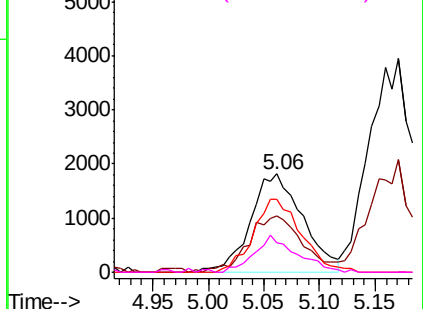
#41
Methacrylonitrile
Concen: 2.364 ug/l
RT: 5.06 min Scan# 641
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

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

Tot Ion:	41	Resp:	5931
Ion	Ratio	Lower	Upper
41	100		
39	60.0	42.4	63.6
67	67.9	59.2	88.8
52	30.7	23.0	34.4

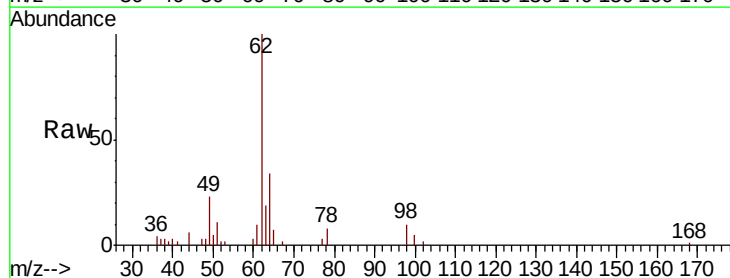


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

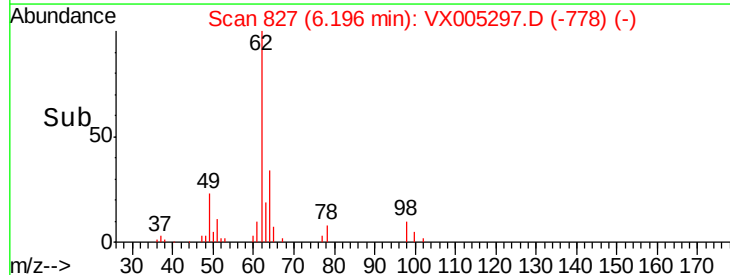
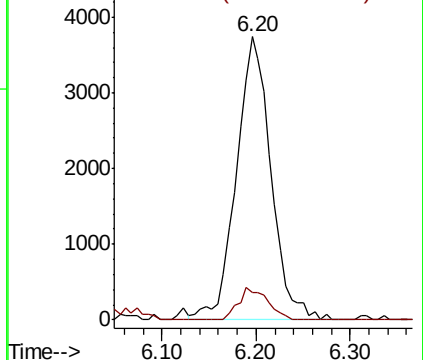


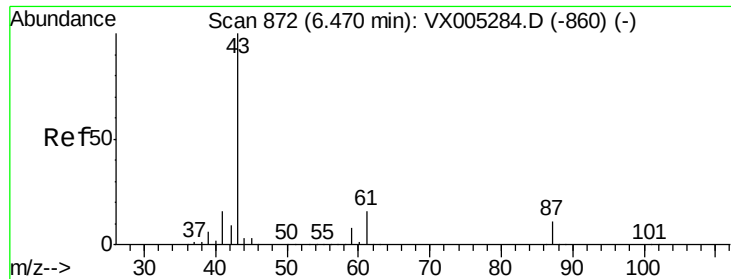
#42
1,2-Dichloroethane
Concen: 2.494 ug/l
RT: 6.20 min Scan# 827
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion:	62	Resp:	9616
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 2.410 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

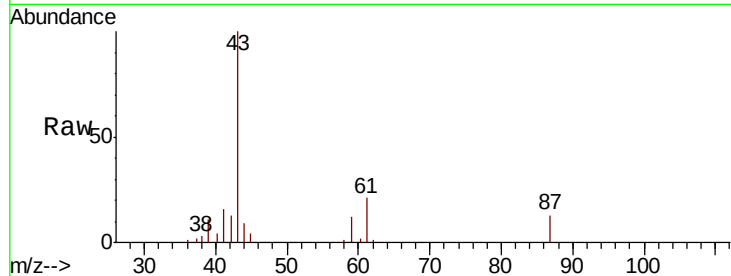
Tot Ion: 43 Resp: 15028

Ion Ratio Lower Upper

43 100

61 20.3 17.0 25.4

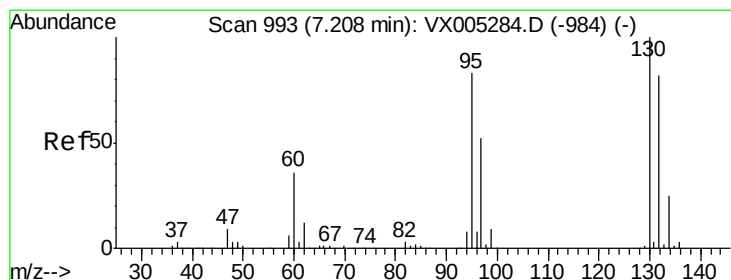
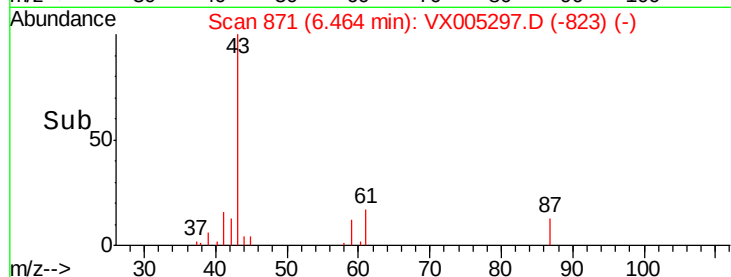
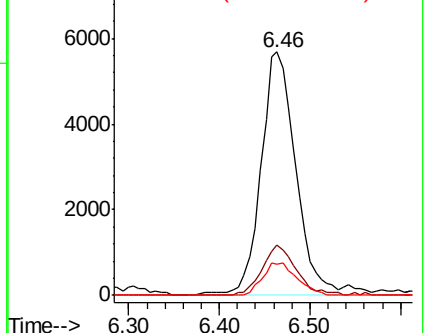
87 13.1 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX005284.D (-860) (-)

Ion 61.00 (60.70 to 61.70): VX005284.D (-860) (-)

Ion 87.00 (86.70 to 87.70): VX005284.D (-860) (-)



#44

Trichloroethene

Concen: 2.127 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005297.D

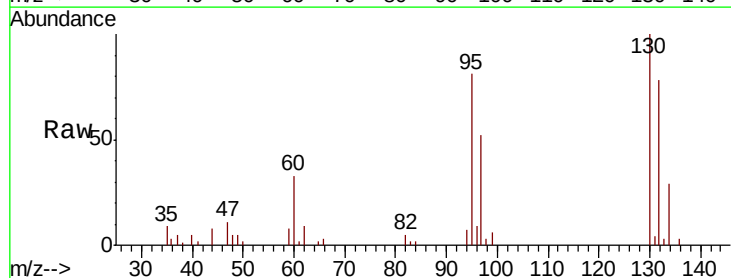
Acq: 12 Oct 2018 16:58

Tgt Ion: 130 Resp: 7590

Ion Ratio Lower Upper

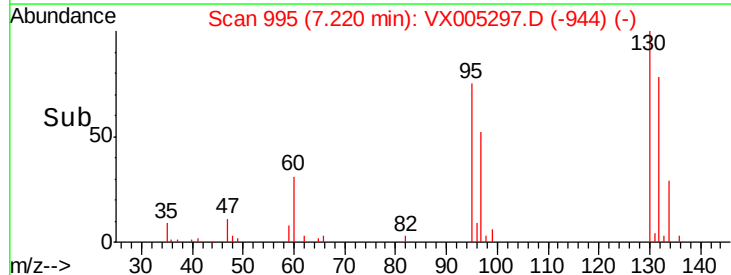
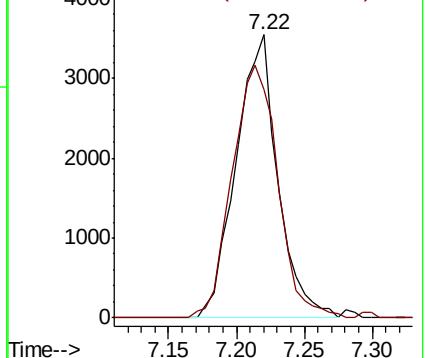
130 100

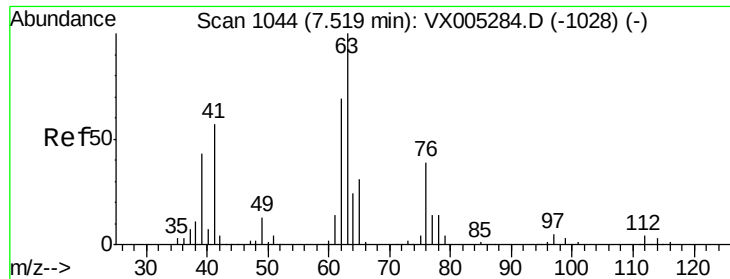
95 80.8 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): VX005284.D (-984) (-)

Ion 94.90 (94.60 to 95.60): VX005284.D (-984) (-)

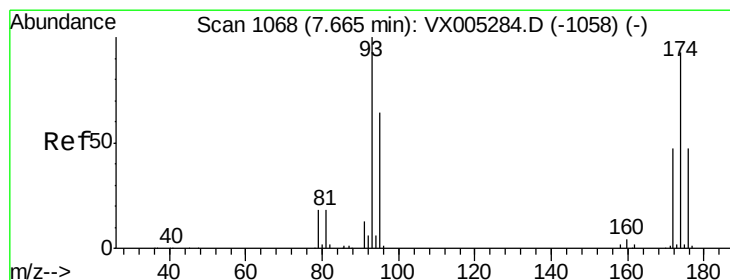
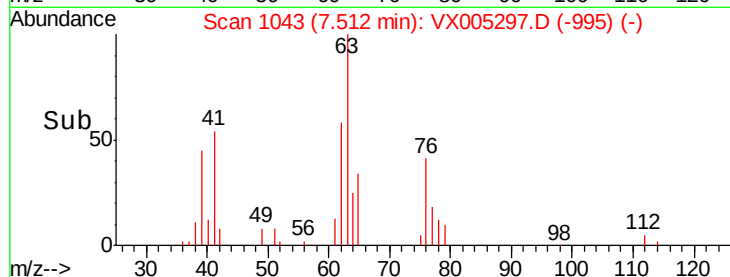
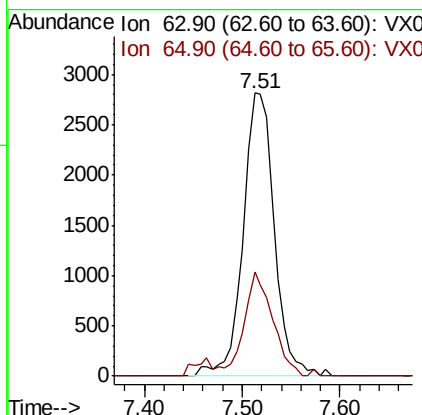
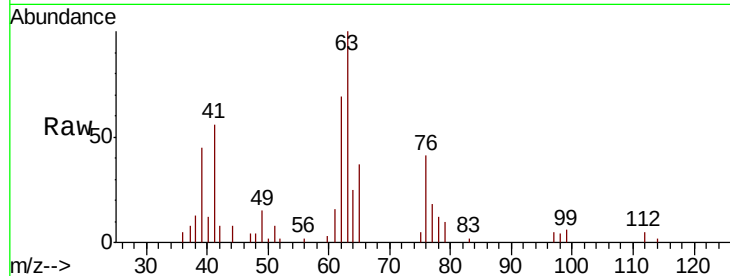




#45
 1,2-Dichloropropane
 Concen: 2.336 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

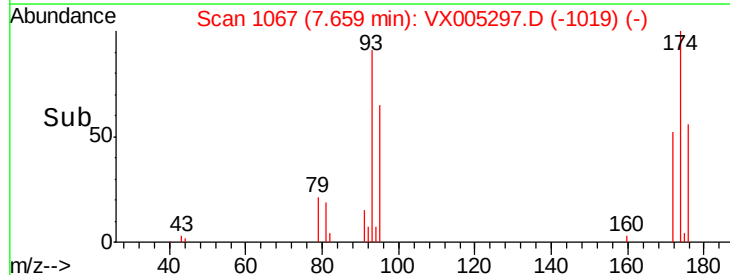
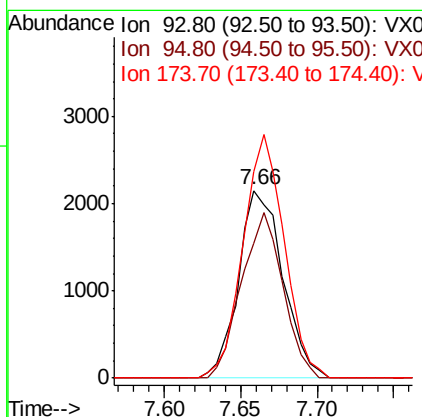
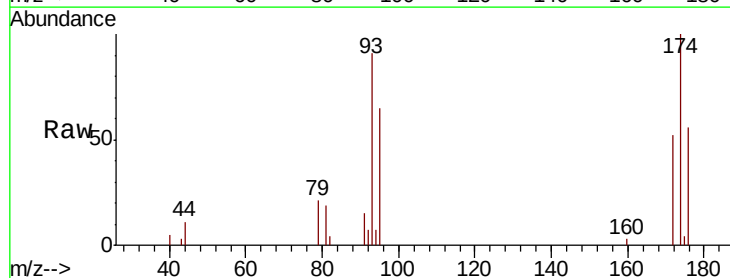
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

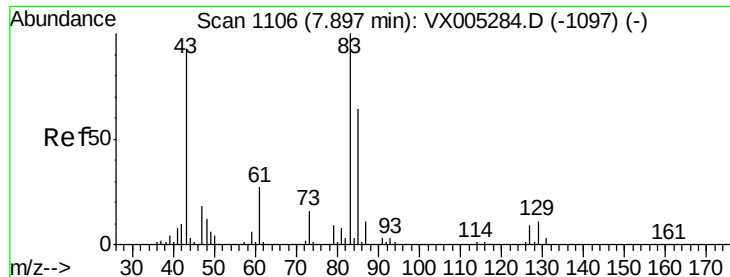
Tot Ion: 63 Resp: 6256
 Ion Ratio Lower Upper
 63 100
 65 36.7 24.3 36.5#



#46
 Dibromomethane
 Concen: 2.460 ug/l
 RT: 7.66 min Scan# 1067
 Delta R.T. -0.01 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

Tgt Ion: 93 Resp: 4348
 Ion Ratio Lower Upper
 93 100
 95 82.0 65.5 98.3
 174 120.2 94.2 141.4





#47

Bromodichloromethane

Concen: 2.482 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

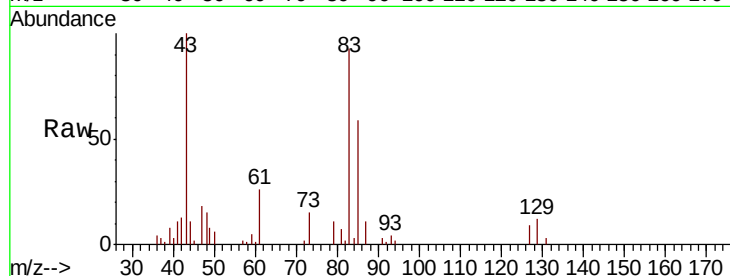
Tot Ion: 83 Resp: 8116

Ion Ratio Lower Upper

83 100

85 63.8 50.9 76.3

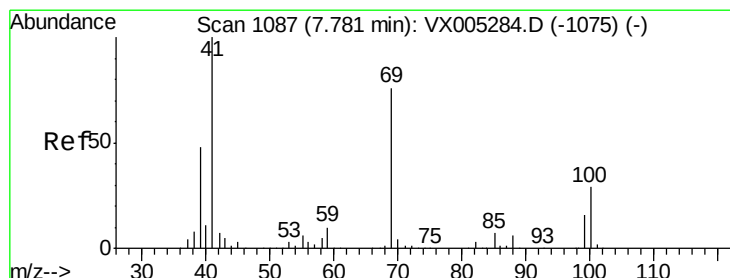
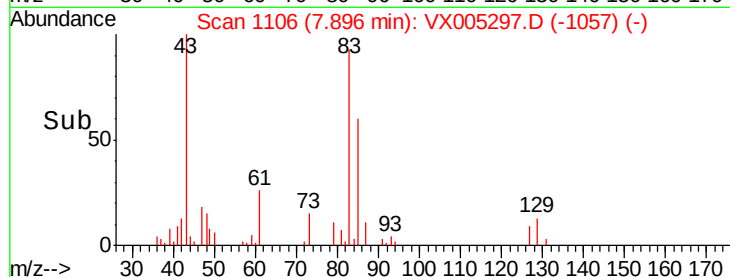
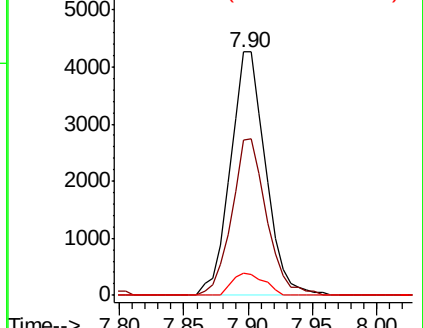
127 9.2 7.3 10.9



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: 2.317 ug/l

RT: 7.78 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

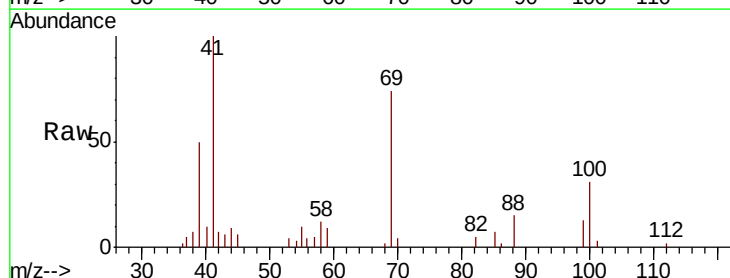
Tgt Ion: 41 Resp: 7493

Ion Ratio Lower Upper

41 100

69 74.9 70.2 105.4

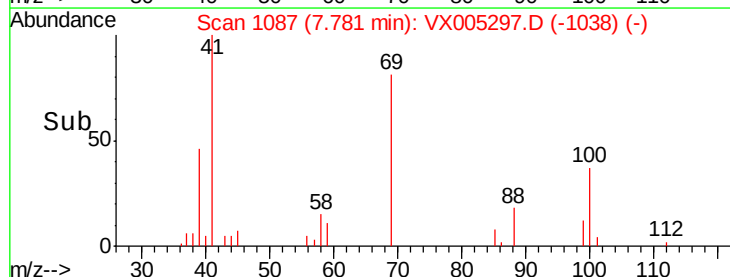
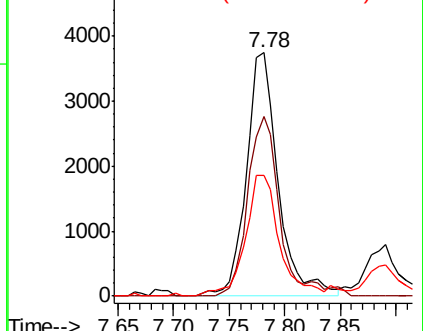
39 52.9 42.7 64.1

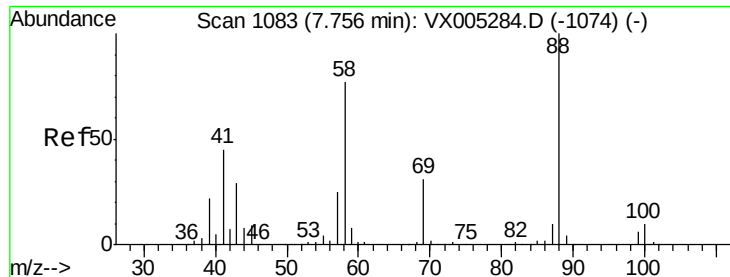


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

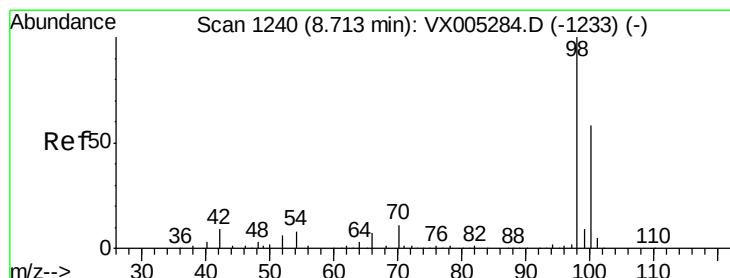
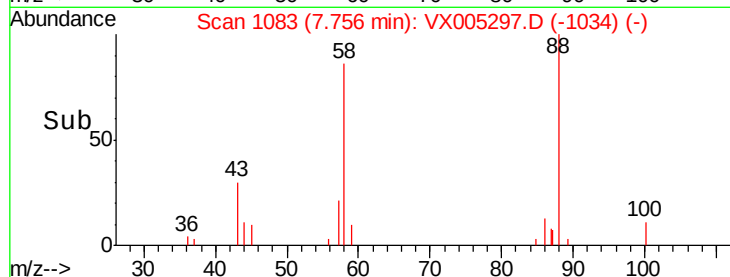
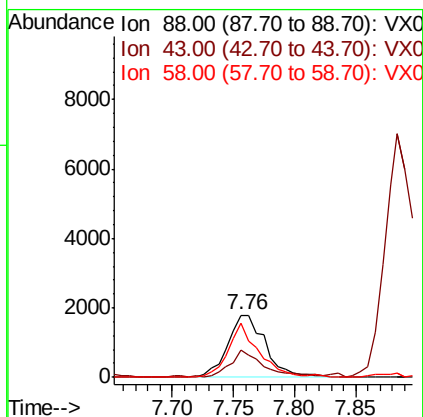
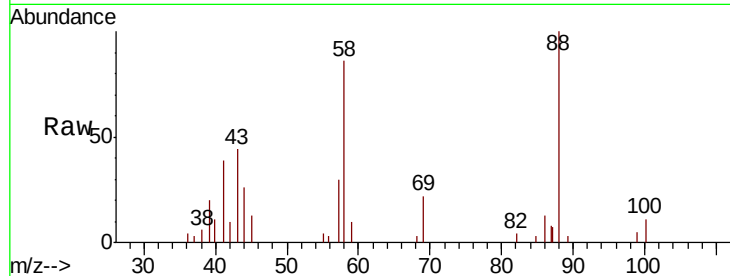




#49
1,4-Dioxane
Concen: 51.188 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

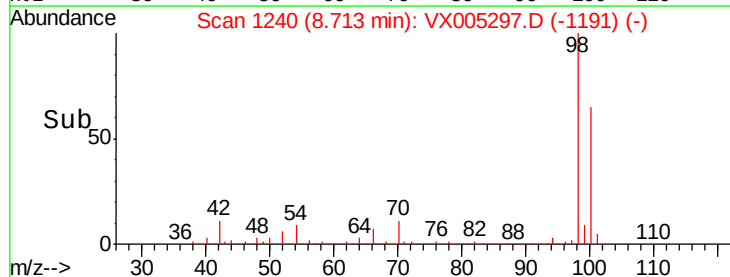
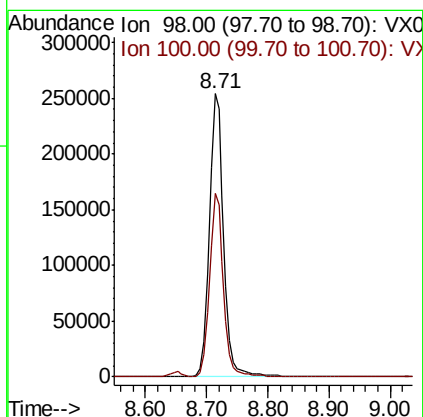
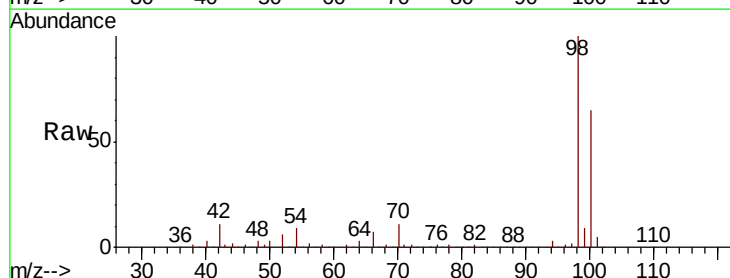
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

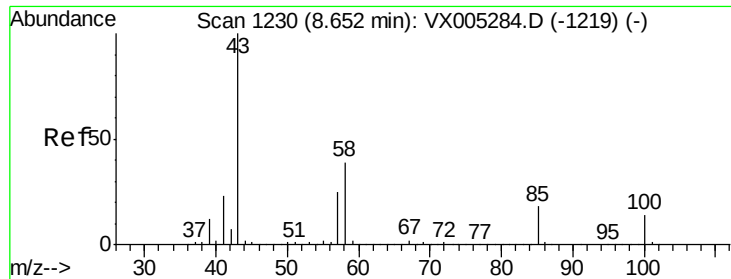
Tot Ion: 88 Resp: 3818
Ion Ratio Lower Upper
88 100
43 39.1 24.7 37.1#
58 71.2 55.3 82.9



#50
Toluene-d8
Concen: 48.991 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 98 Resp: 418626
Ion Ratio Lower Upper
98 100
100 64.0 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 11.532 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

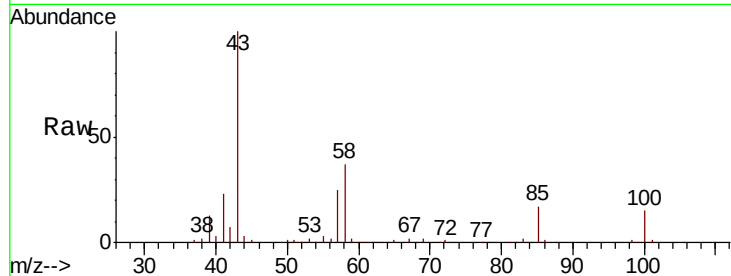
MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 49788

Ion Ratio Lower Upper

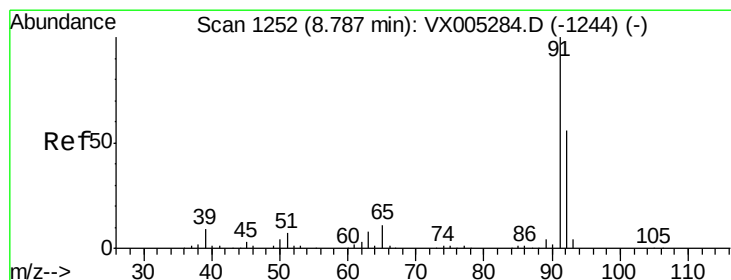
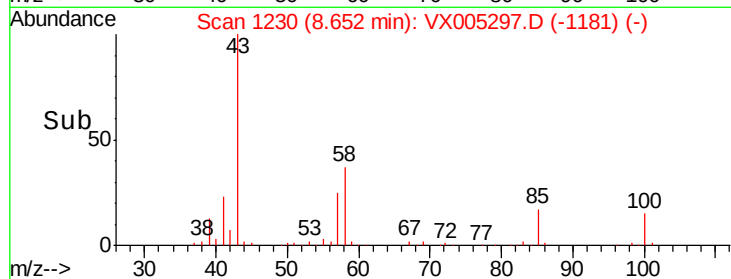
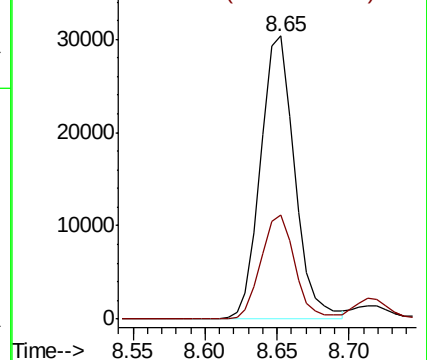
43 100

58 36.2 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 2.660 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005297.D

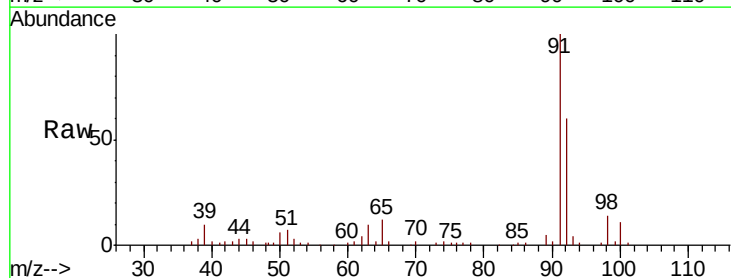
Acq: 12 Oct 2018 16:58

Tgt Ion: 92 Resp: 15891

Ion Ratio Lower Upper

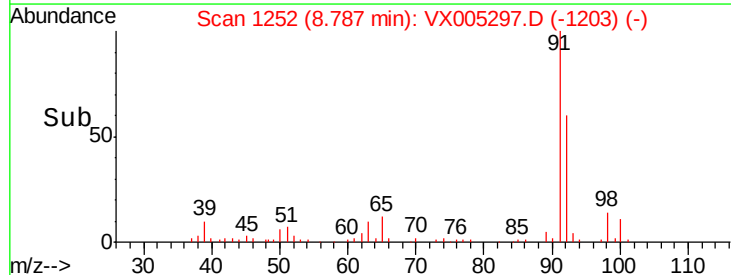
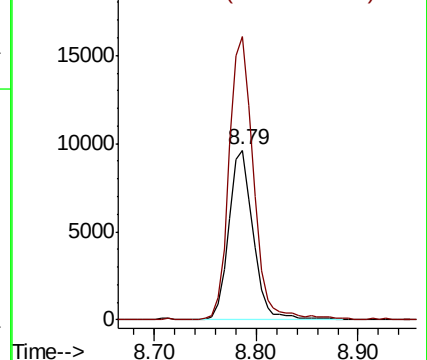
92 100

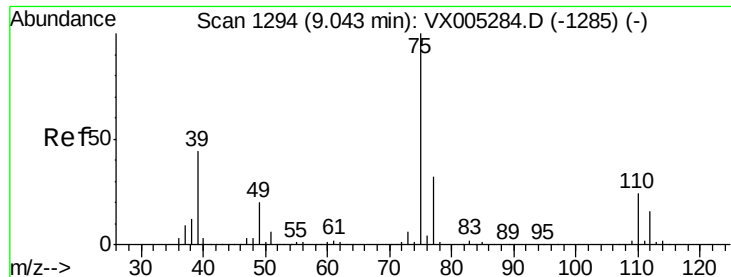
91 168.7 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

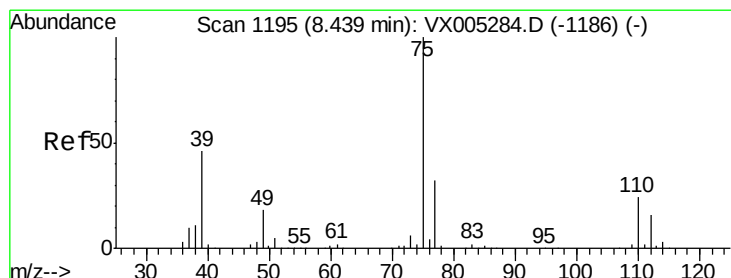
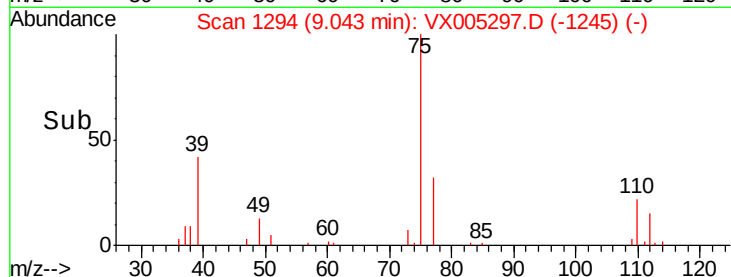
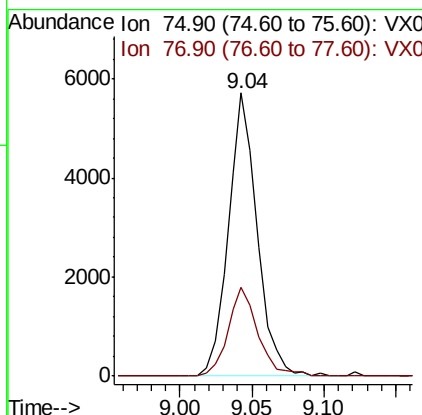
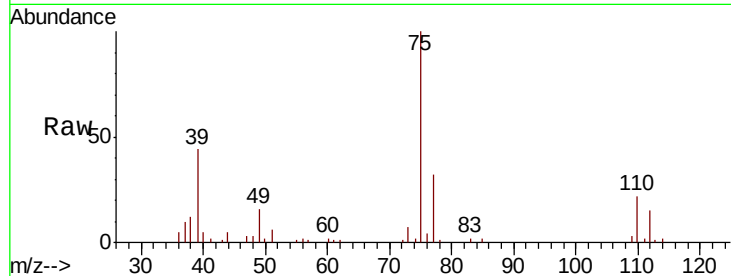




#53
 t-1,3-Dichloropropene
 Concen: 2.258 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. -0.00 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

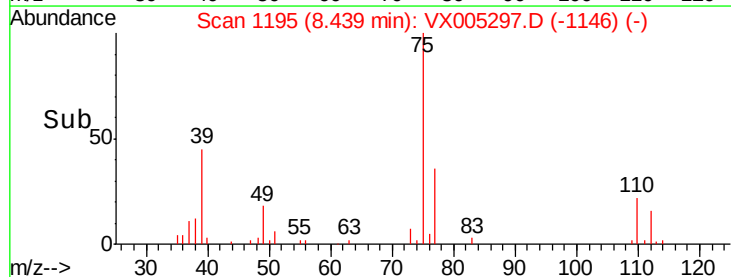
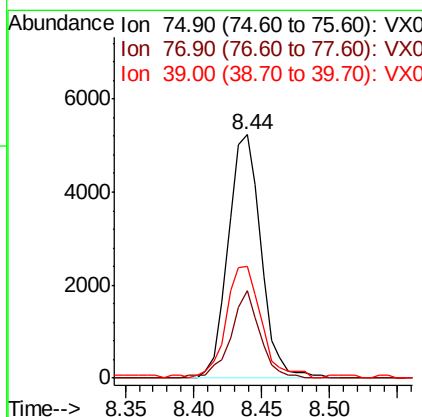
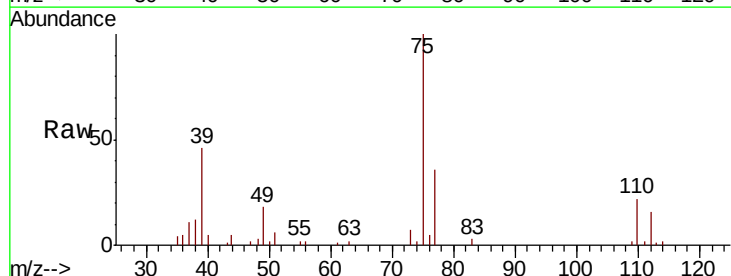
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

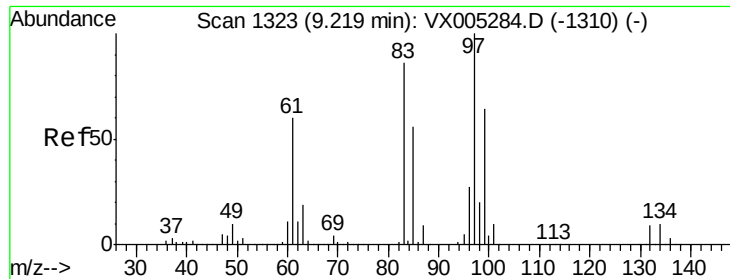
Tot Ion: 75 Resp: 7988
 Ion Ratio Lower Upper
 75 100
 77 31.6 24.6 37.0



#54
 cis-1,3-Dichloropropene
 Concen: 2.299 ug/l
 RT: 8.44 min Scan# 1195
 Delta R.T. -0.00 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

Tgt Ion: 75 Resp: 8814
 Ion Ratio Lower Upper
 75 100
 77 36.2 26.2 39.2
 39 45.8 36.4 54.6

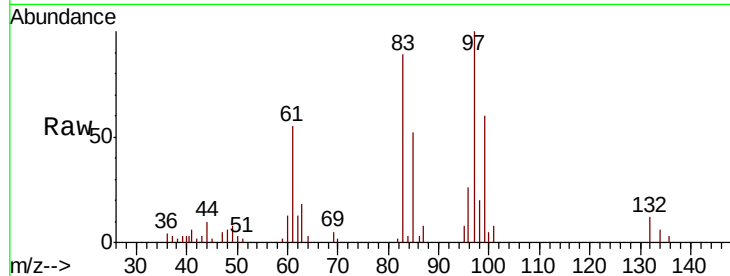




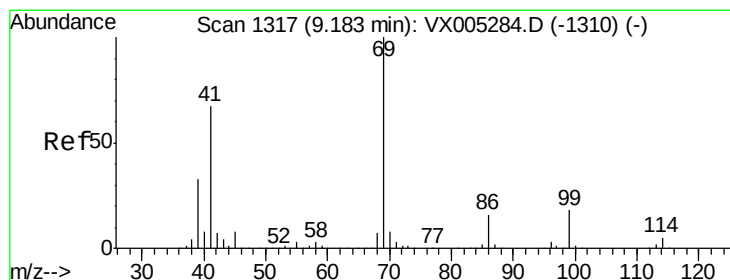
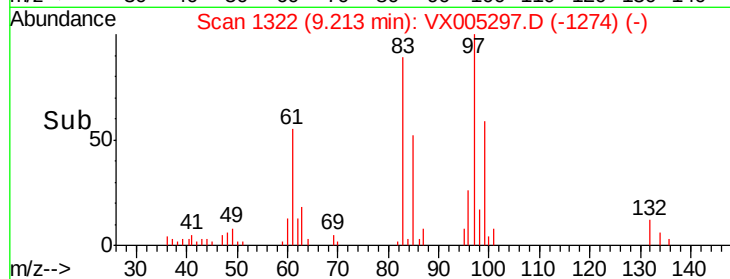
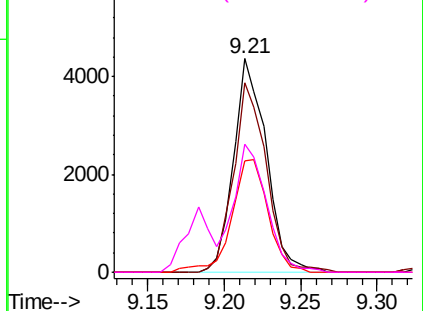
#55
1,1,2-Trichloroethane
Concen: 2.565 ug/l
RT: 9.21 min Scan# 1322
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

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

Tot Ion:	97	Resp:	6490
Ion	Ratio	Lower	Upper
97	100		
83	88.7	66.4	99.6
85	51.9	43.3	64.9
99	60.1	49.0	73.4

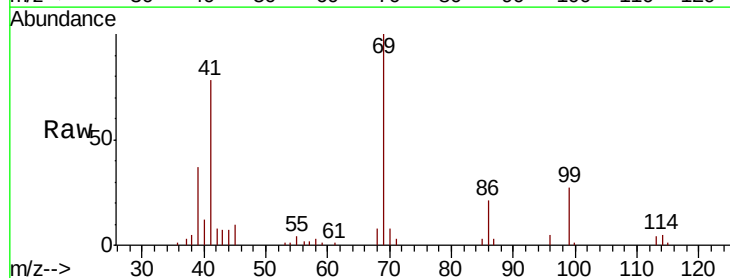


Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 98.90 (98.60 to 99.60): VX0

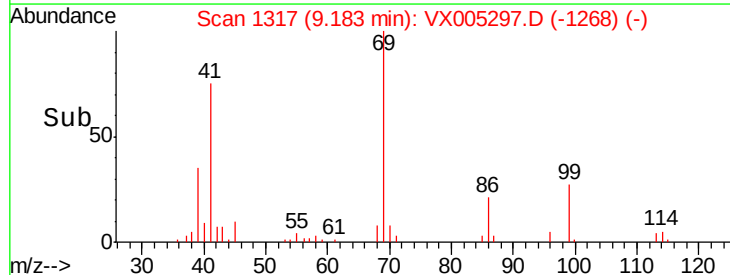
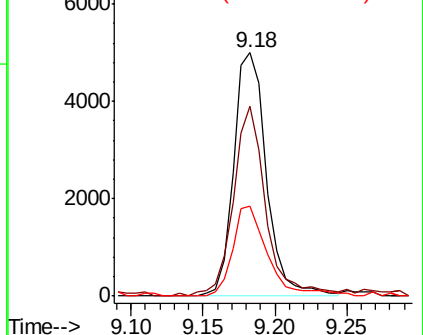


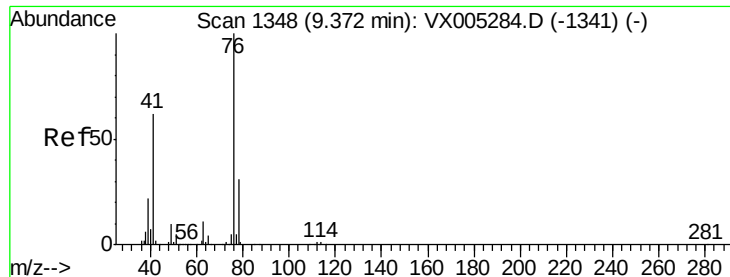
#56
Ethyl methacrylate
Concen: 2.161 ug/l
RT: 9.18 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion:	69	Resp:	7969
Ion	Ratio	Lower	Upper
69	100		
41	77.4	51.0	76.4#
39	39.5	26.1	39.1#



Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 2.527 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

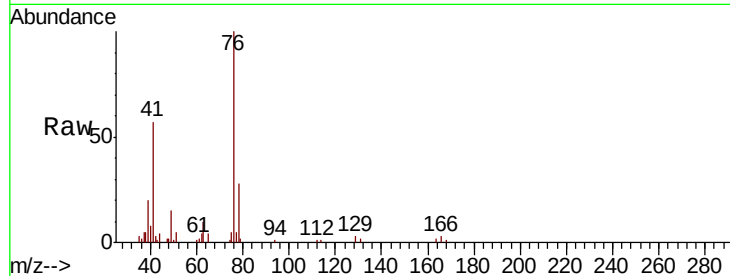
MDL-WATER-03-QT4-2018

Tot Ion: 76 Resp: 10672

Ion Ratio Lower Upper

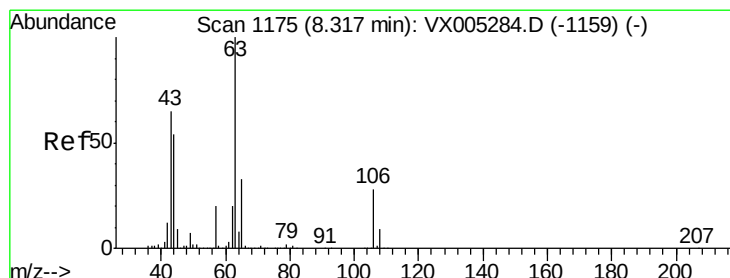
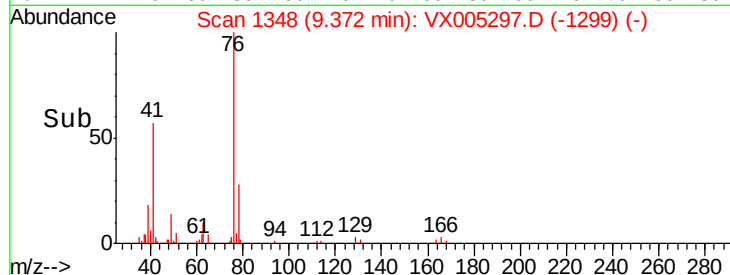
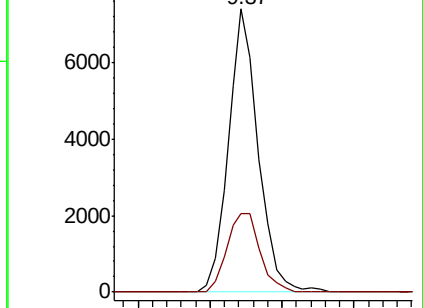
76 100

78 30.8 25.5 38.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 10.579 ug/l

RT: 8.32 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VX005297.D

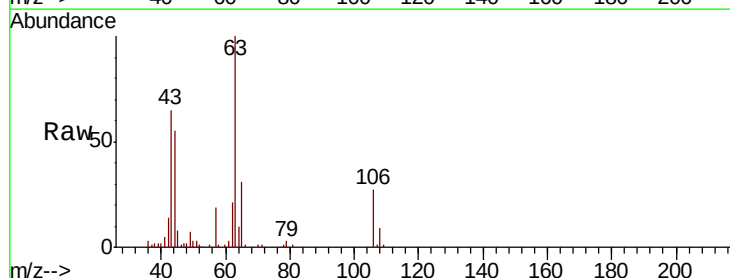
Acq: 12 Oct 2018 16:58

Tgt Ion: 63 Resp: 21882

Ion Ratio Lower Upper

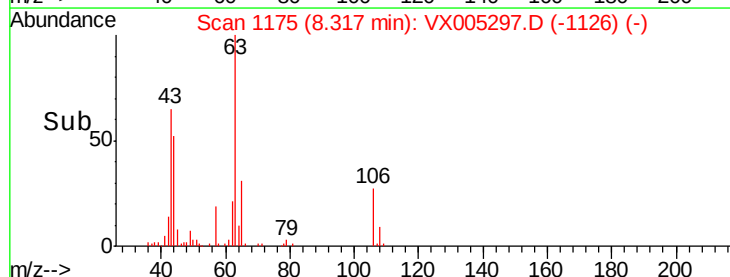
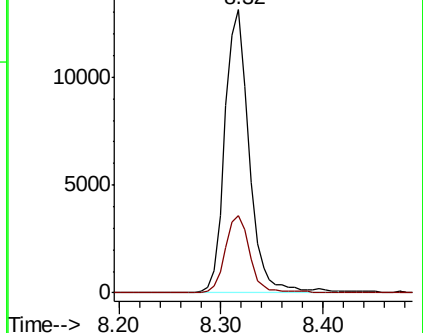
63 100

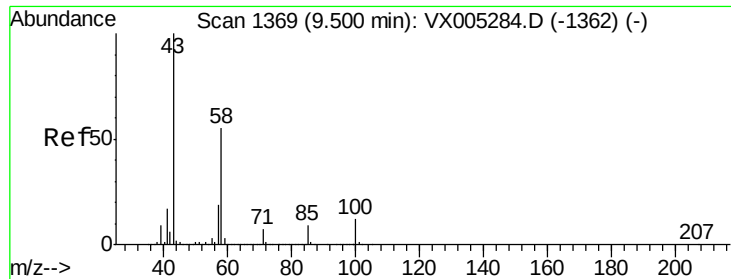
106 27.4 23.9 35.9



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

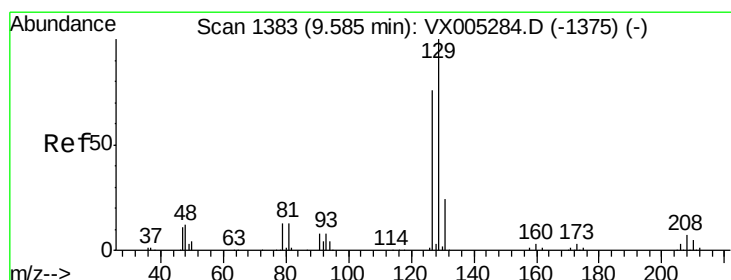
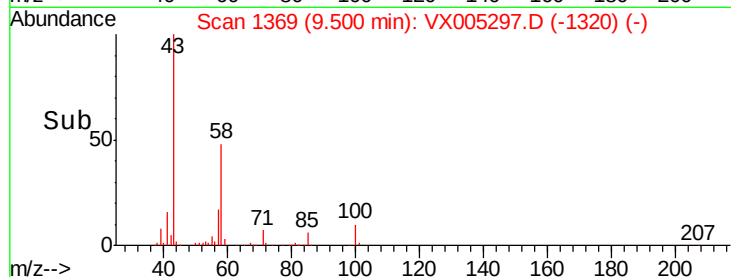
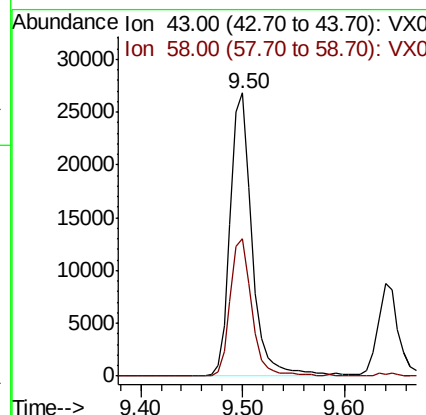
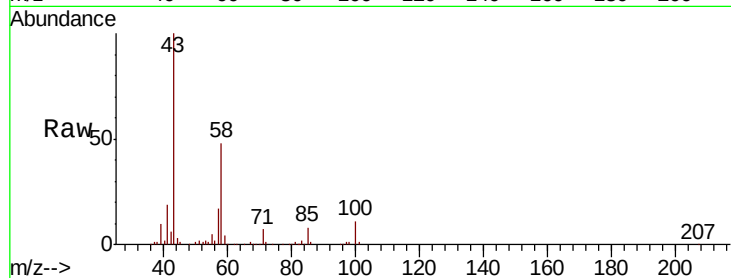




#59
2-Hexanone
Concen: 11.469 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

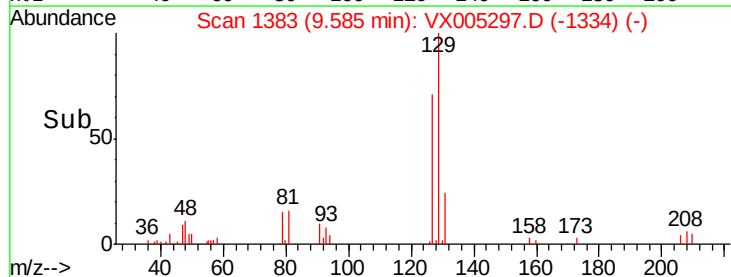
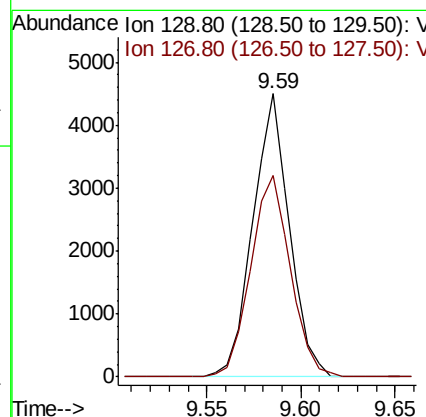
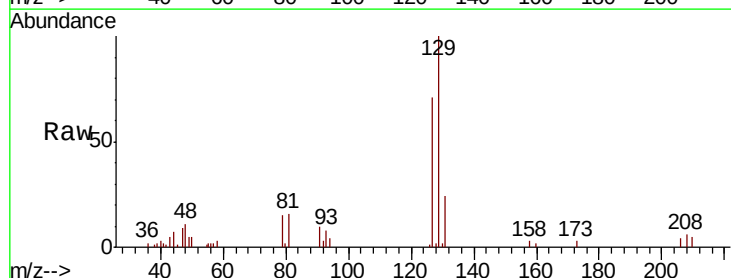
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

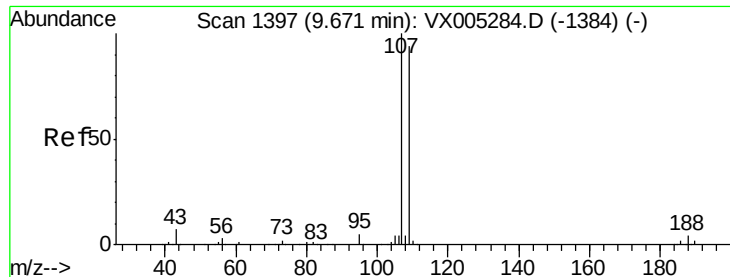
Tot Ion: 43 Resp: 39830
Ion Ratio Lower Upper
43 100
58 48.5 29.0 87.0



#60
Dibromochloromethane
Concen: 2.298 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 129 Resp: 6009
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.5





#61

1,2-Dibromoethane

Concen: 2.377 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

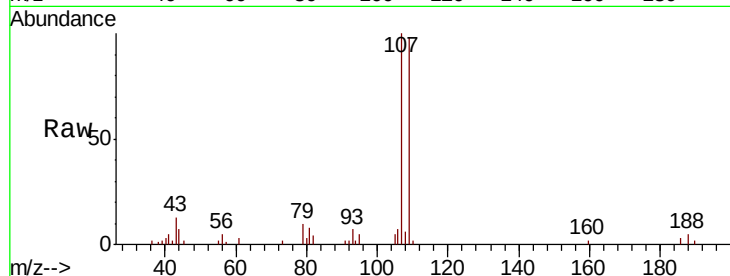
MDL-WATER-03-QT4-2018

Tot Ion:107 Resp: 6311

Ion Ratio Lower Upper

107 100

109 96.4 76.0 114.0

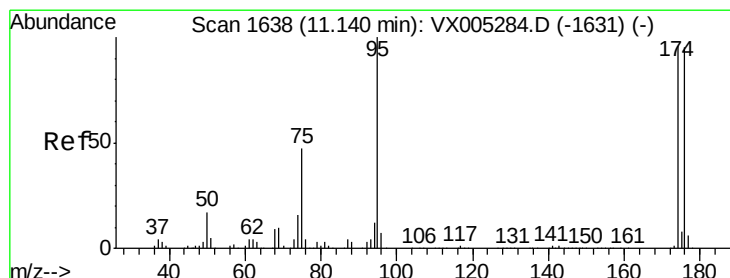
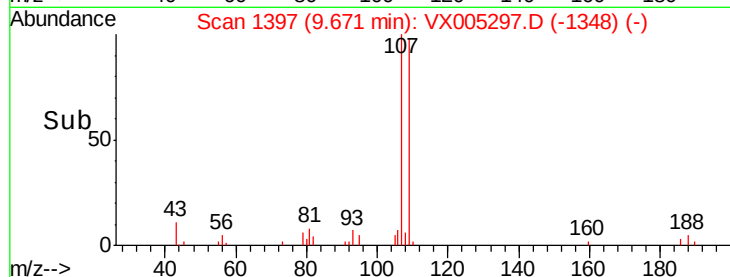


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

Time-->



#62

4-Bromofluorobenzene

Concen: 46.053 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

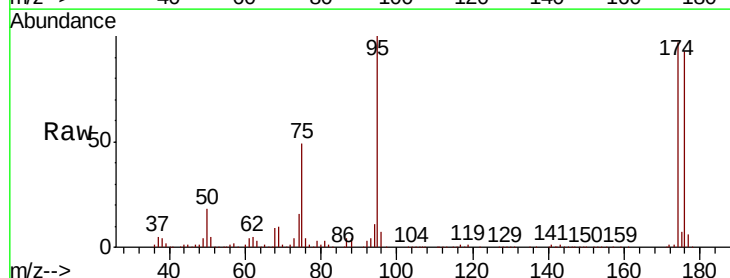
Tgt Ion: 95 Resp: 147834

Ion Ratio Lower Upper

95 100

174 95.2 0.0 185.2

176 90.9 0.0 178.6



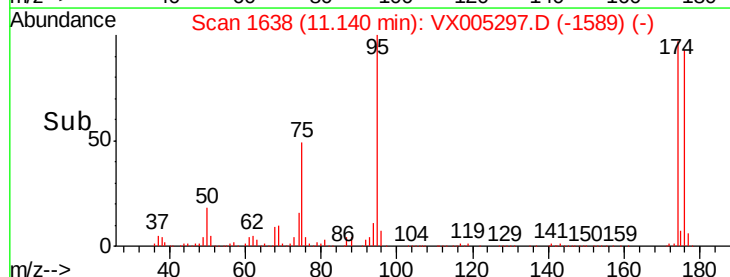
Abundance Ion 94.90 (94.60 to 95.60): VX0

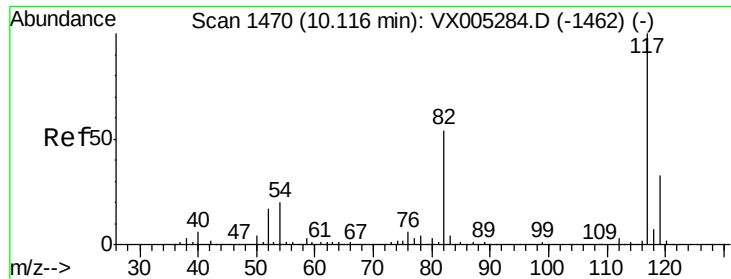
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

Time-->

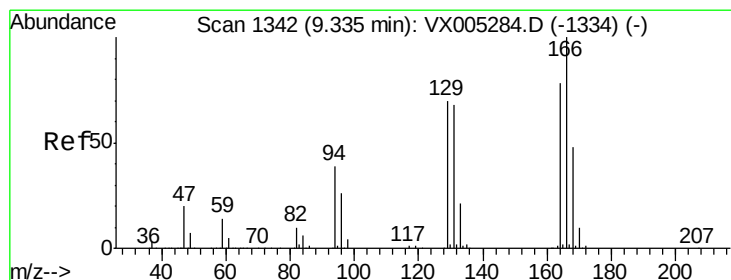
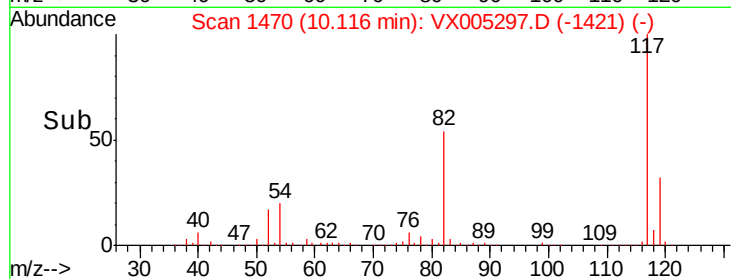
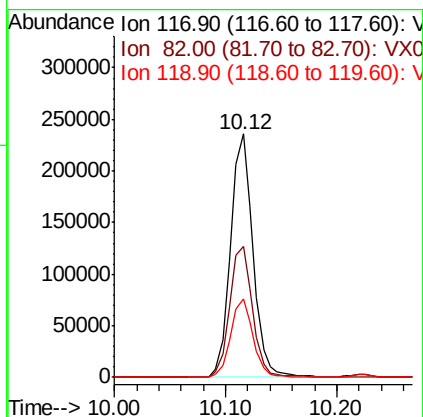
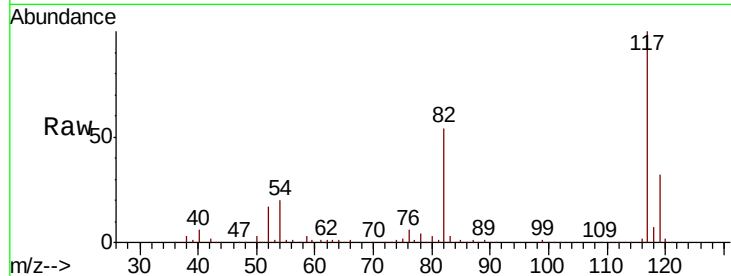




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

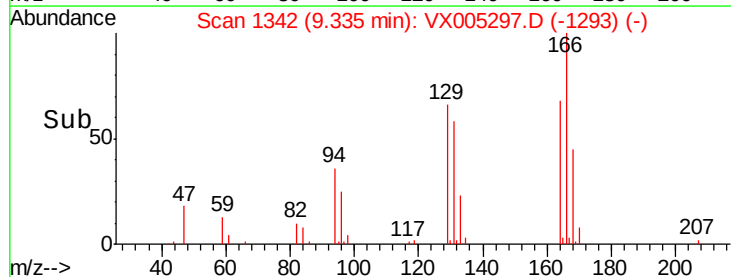
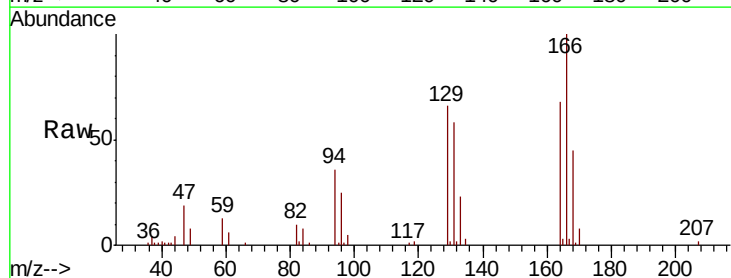
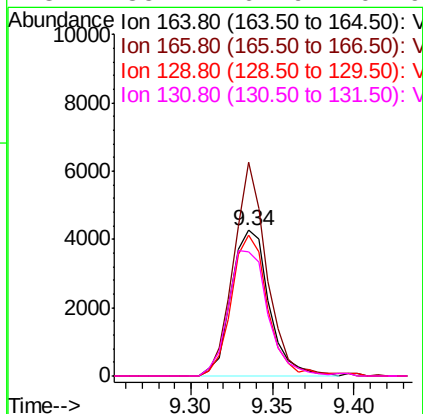
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

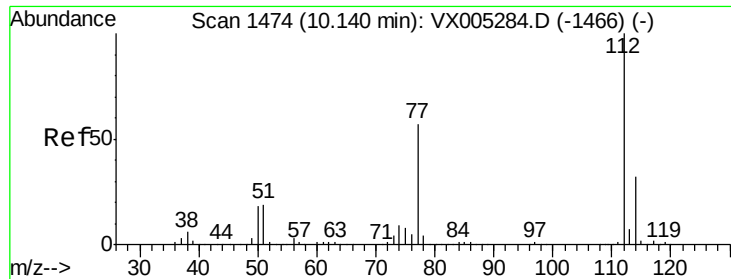
Tot Ion:117 Resp: 329201
Ion Ratio Lower Upper
117 100
82 53.9 47.8 71.6
119 32.1 29.3 43.9



#64
Tetrachloroethene
Concen: 2.614 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion:164 Resp: 6929
Ion Ratio Lower Upper
164 100
166 146.6 102.8 154.2
129 96.3 69.4 104.0
131 85.2 67.9 101.9

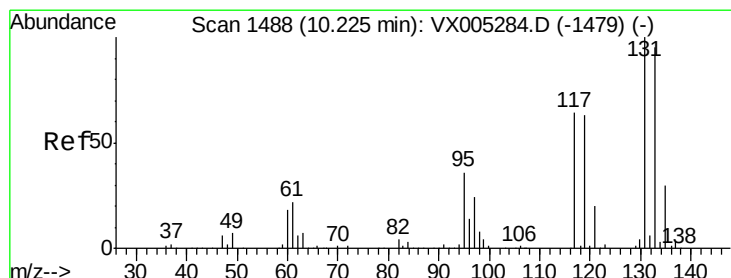
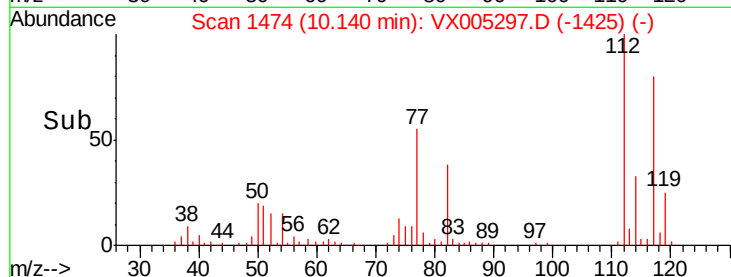
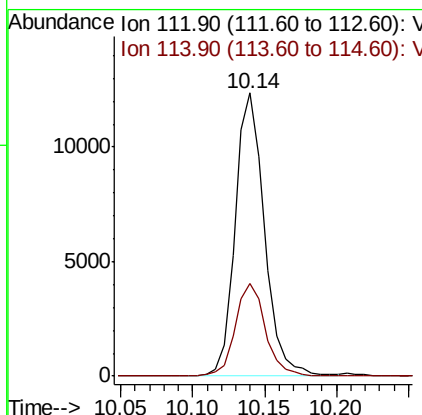
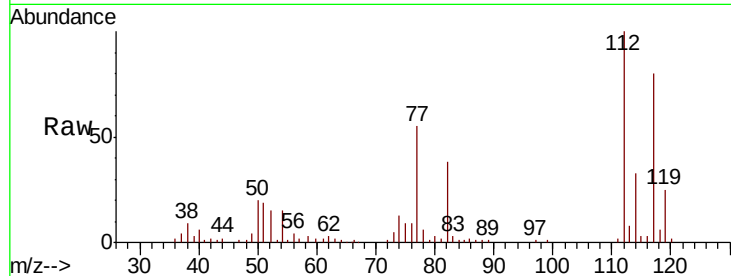




#65
Chlorobenzene
Concen: 2.510 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

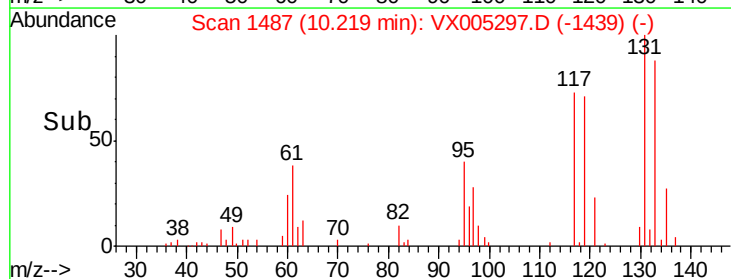
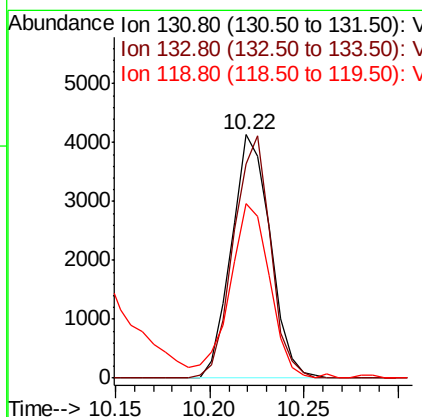
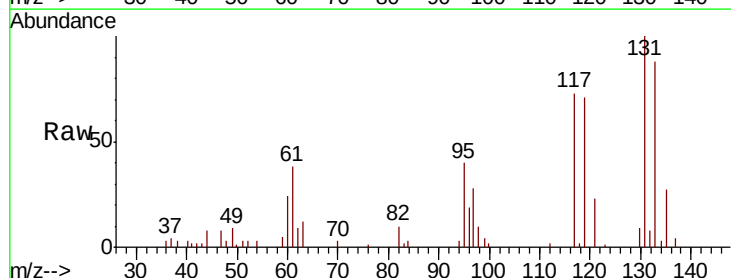
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

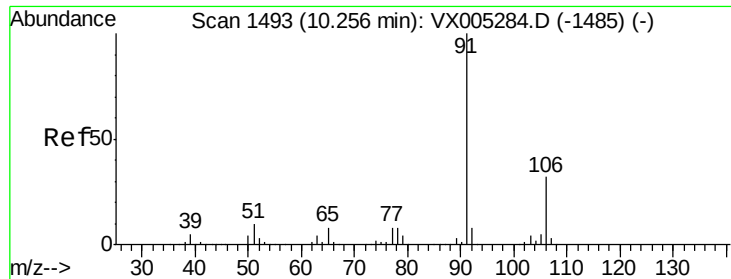
Tot Ion:112 Resp: 17575
Ion Ratio Lower Upper
112 100
114 32.9 27.8 41.8



#66
1,1,1,2-Tetrachloroethane
Concen: 2.375 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.01 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion:131 Resp: 5926
Ion Ratio Lower Upper
131 100
133 94.1 48.1 144.4
119 74.1 32.9 98.6

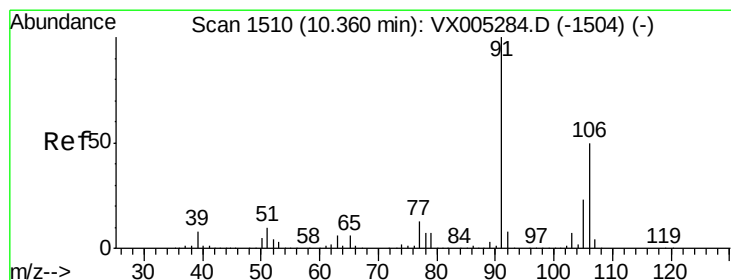
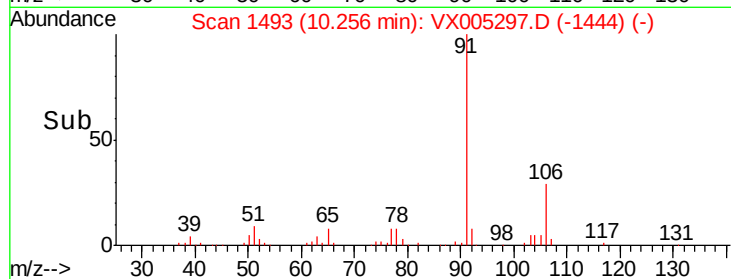
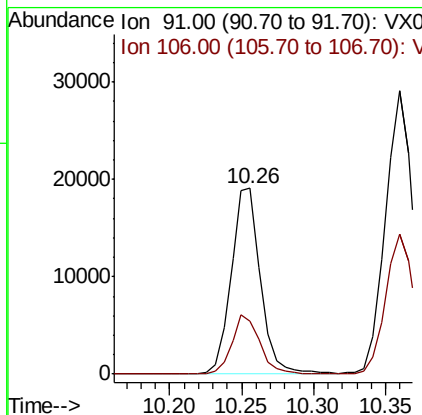
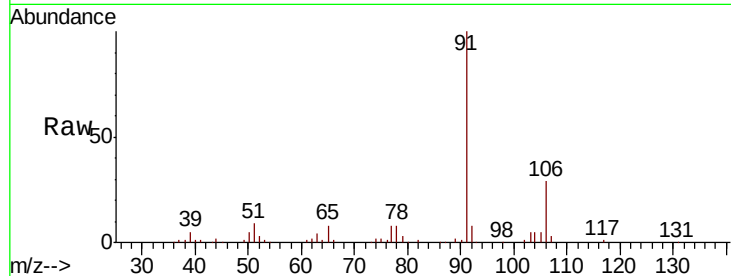




#67
Ethyl Benzene
Concen: 2.393 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

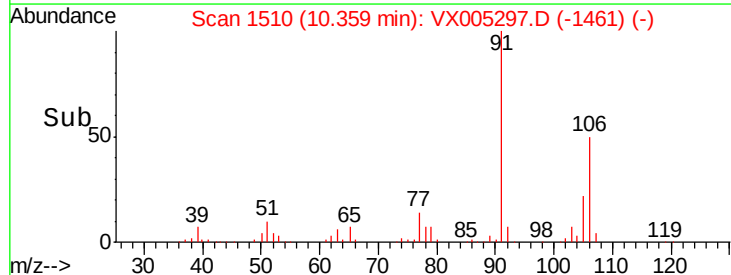
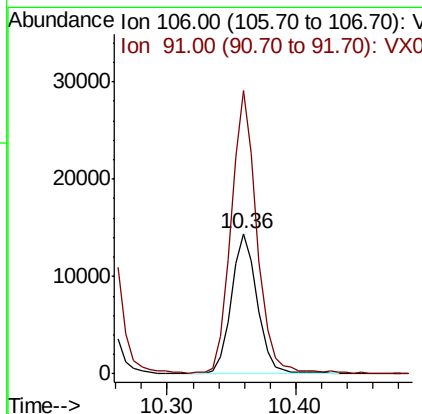
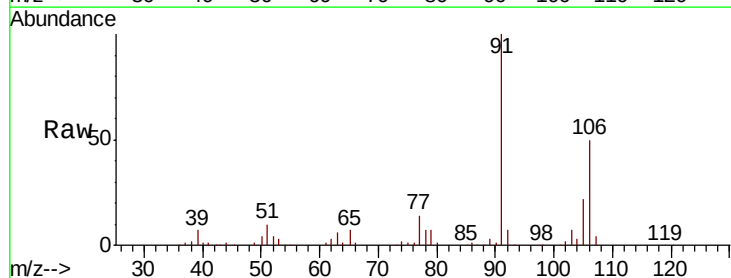
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

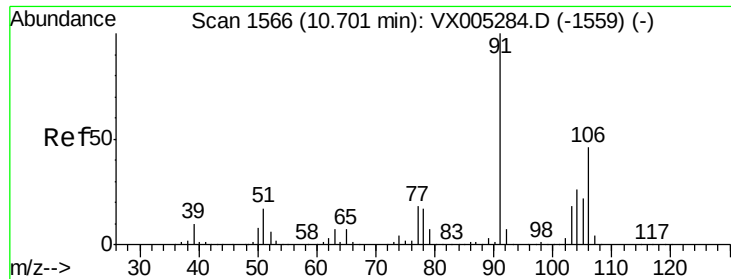
Tot Ion: 91 Resp: 27246
Ion Ratio Lower Upper
91 100
106 28.8 25.9 38.9



#68
m/p-Xylenes
Concen: 4.616 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 106 Resp: 20397
Ion Ratio Lower Upper
106 100
91 197.2 157.1 235.7

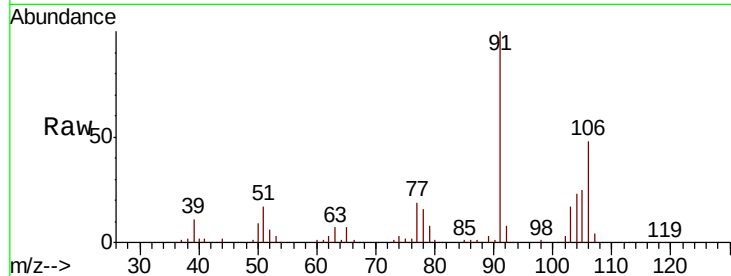




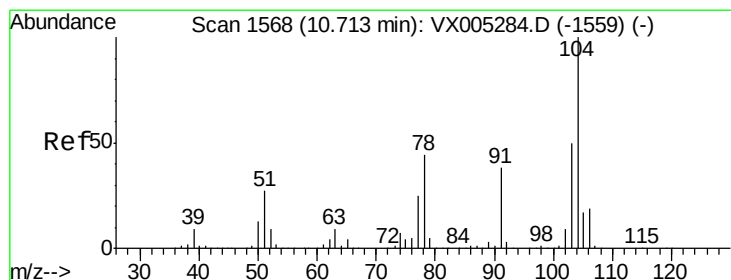
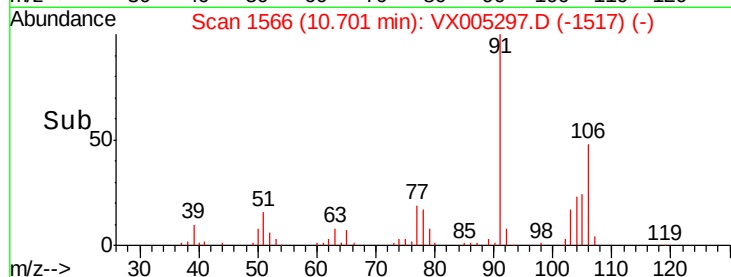
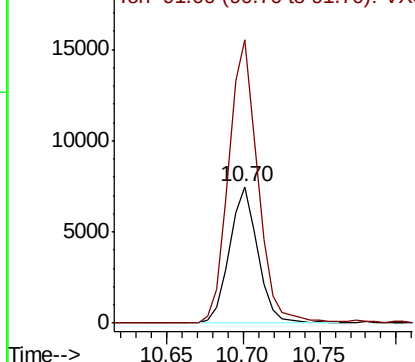
#69
o-Xylene
Concen: 2.235 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

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

Tot Ion:106 Resp: 9526
Ion Ratio Lower Upper
106 100
91 217.2 105.1 315.1

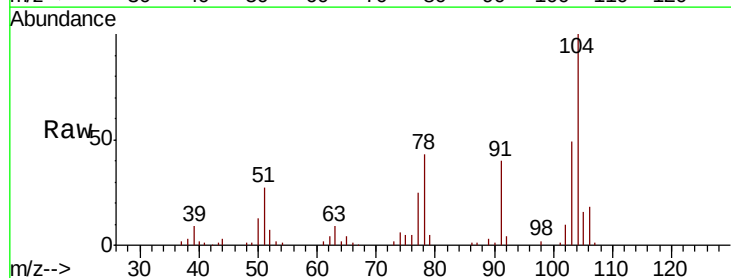


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

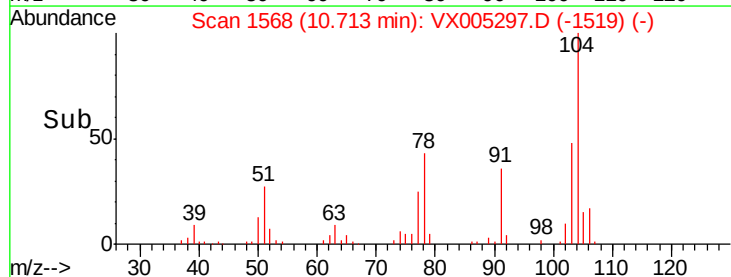
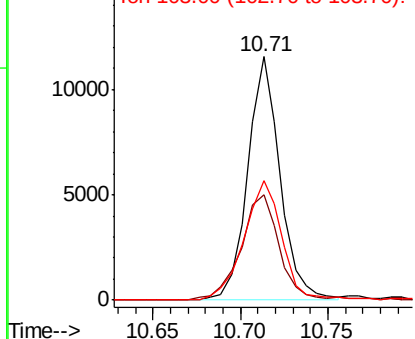


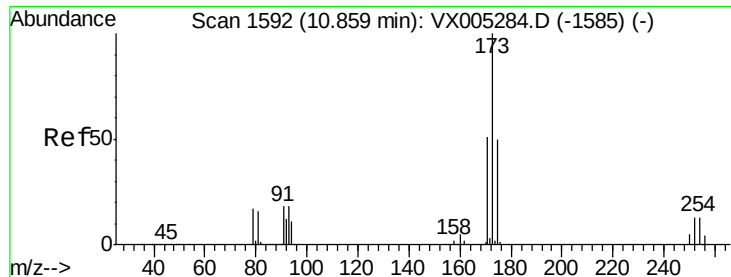
#70
Styrene
Concen: 2.114 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion:104 Resp: 14818
Ion Ratio Lower Upper
104 100
78 51.8 37.4 56.0
103 57.9 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: 2.107 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

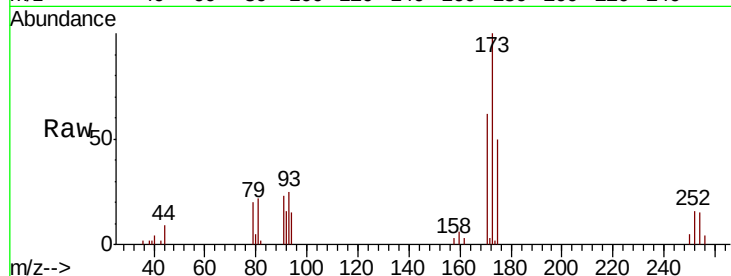
Tot Ion:173 Resp: 4699

Ion Ratio Lower Upper

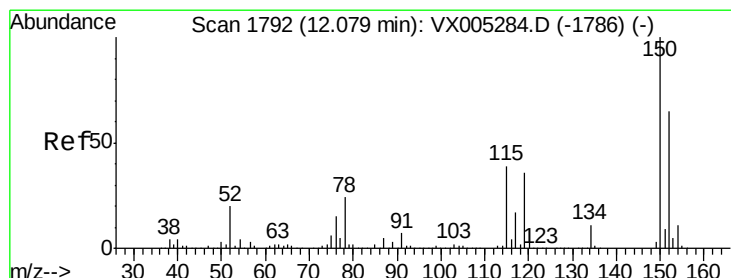
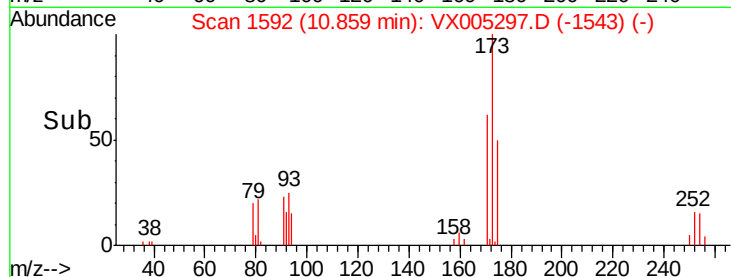
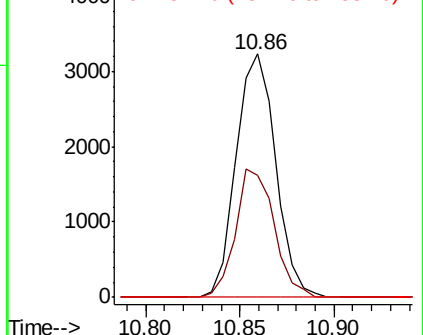
173 100

175 51.6 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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

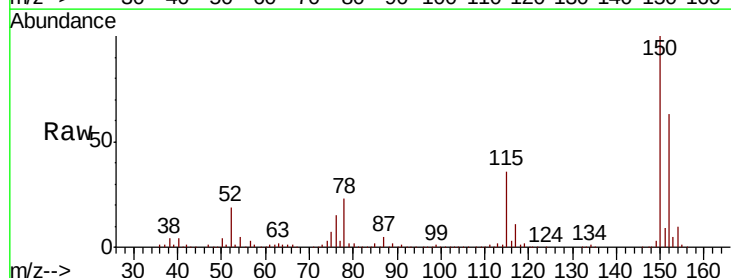
Tgt Ion:152 Resp: 178377

Ion Ratio Lower Upper

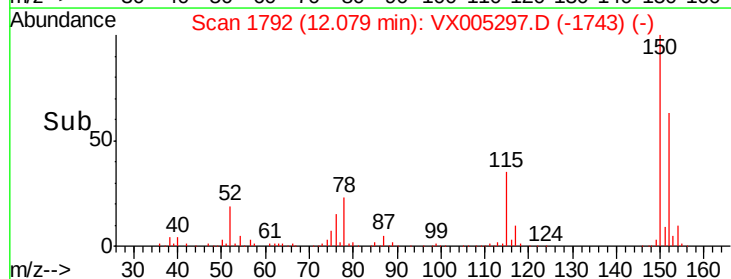
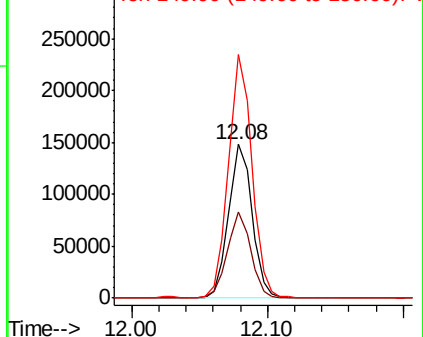
152 100

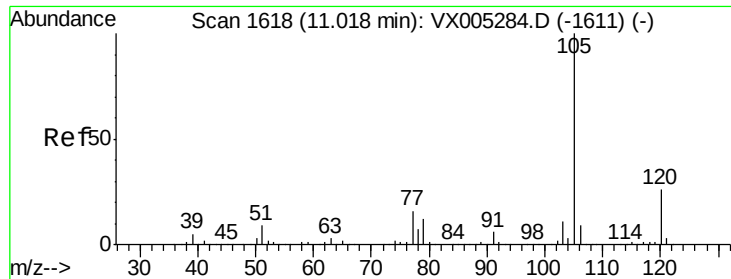
115 55.8 39.0 117.0

150 158.2 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: 2.366 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

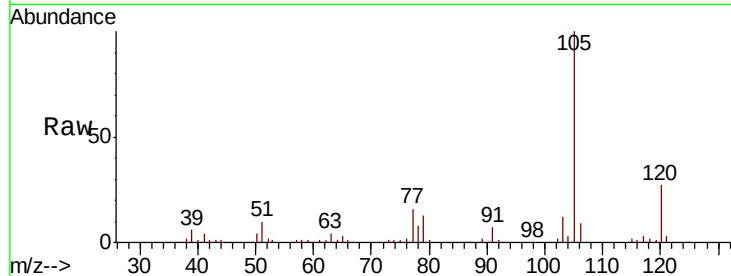
MDL-WATER-03-QT4-2018

Tot Ion:105 Resp: 25092

Ion Ratio Lower Upper

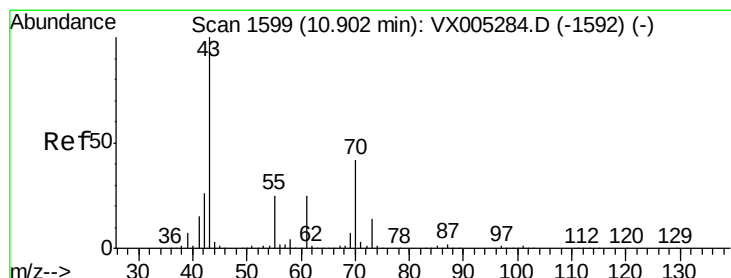
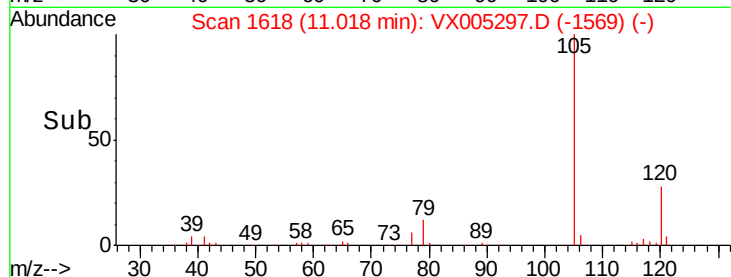
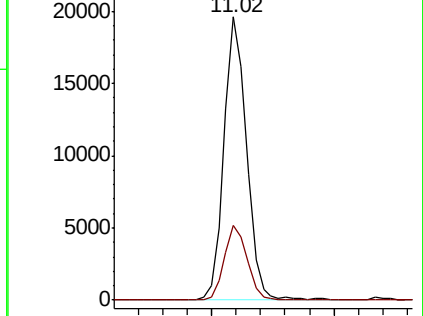
105 100

120 26.4 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: 2.249 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Tgt Ion: 43 Resp: 11505

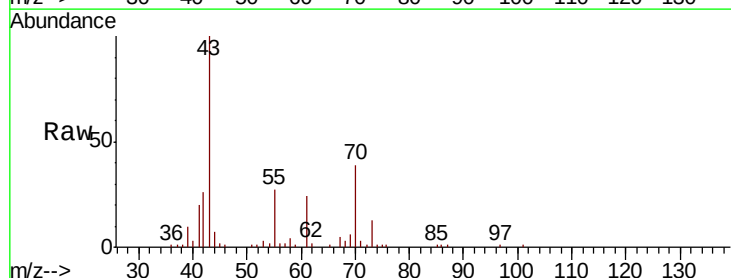
Ion Ratio Lower Upper

43 100

70 38.9 37.4 56.0

55 26.7 21.8 32.8

61 24.0 20.6 30.8

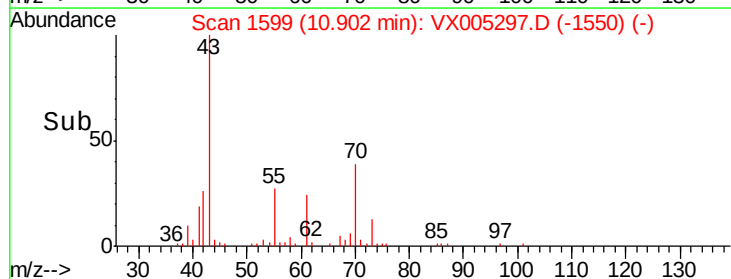
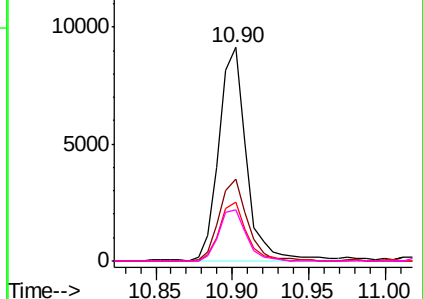


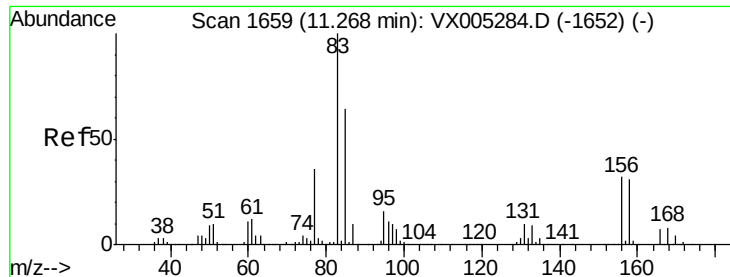
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.658 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

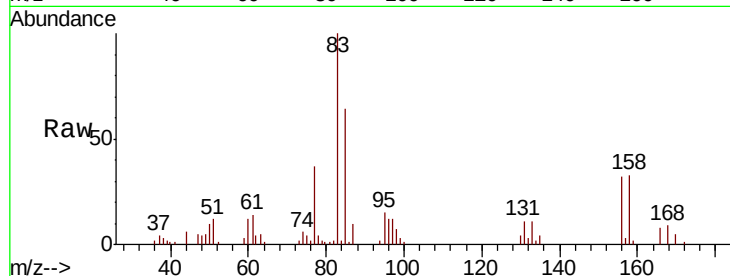
Tot Ion: 83 Resp: 10632

Ion Ratio Lower Upper

83 100

131 10.6 5.2 15.6

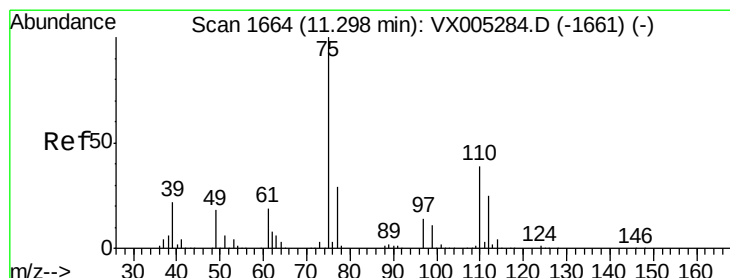
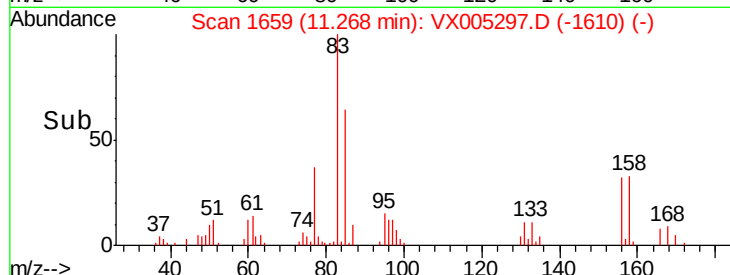
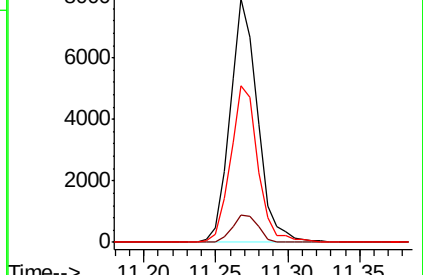
85 63.9 32.3 96.8



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 3.148 ug/l

RT: 11.30 min Scan# 1664

Delta R.T. -0.00 min

Lab File: VX005297.D

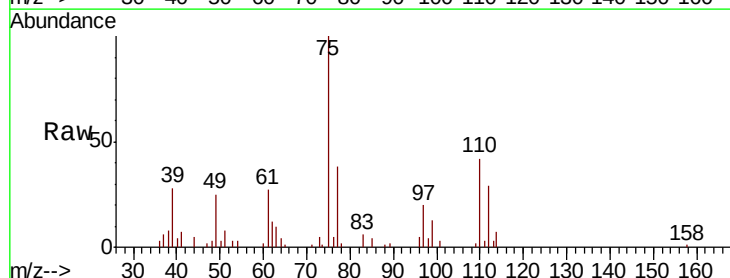
Acq: 12 Oct 2018 16:58

Tgt Ion: 75 Resp: 10891

Ion Ratio Lower Upper

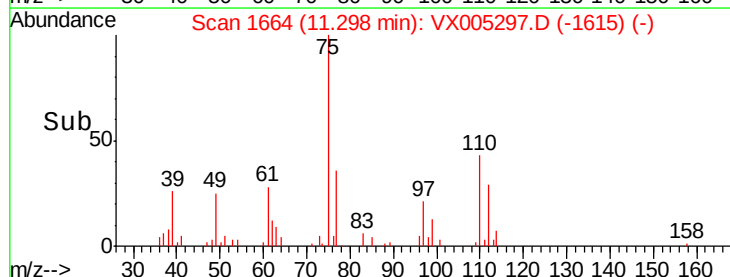
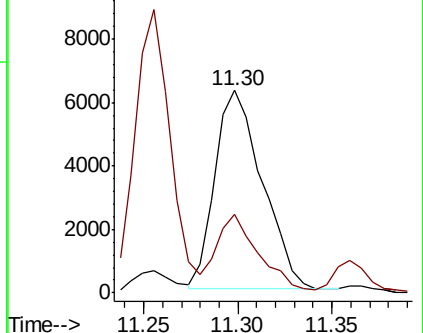
75 100

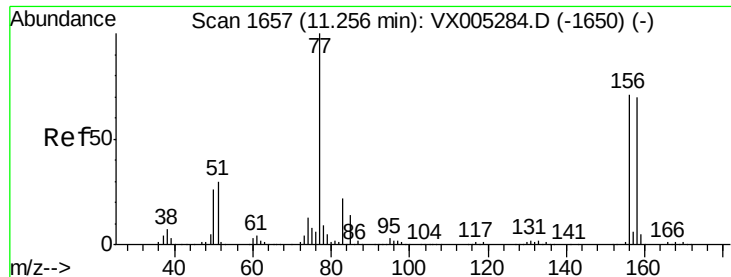
77 35.8 20.2 60.6



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 2.584 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

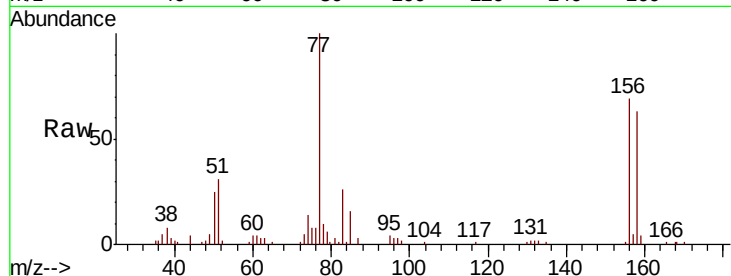
Tot Ion:156 Resp: 7835

Ion Ratio Lower Upper

156 100

77 151.5 71.5 214.3

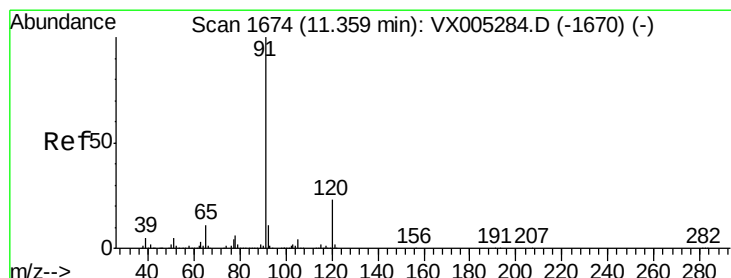
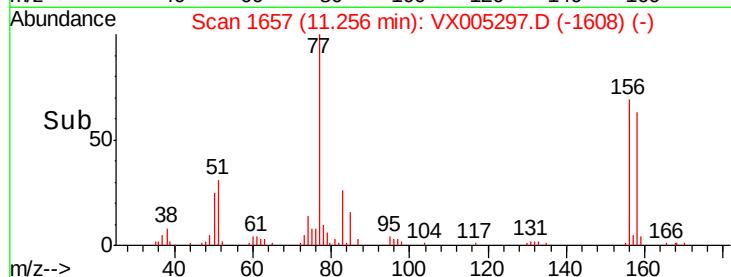
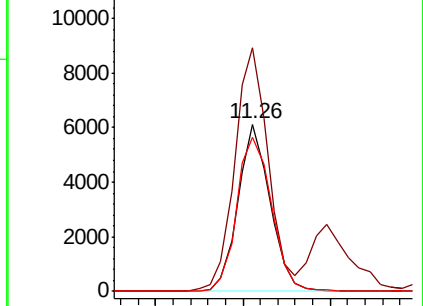
158 100.4 48.9 146.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.447 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX005297.D

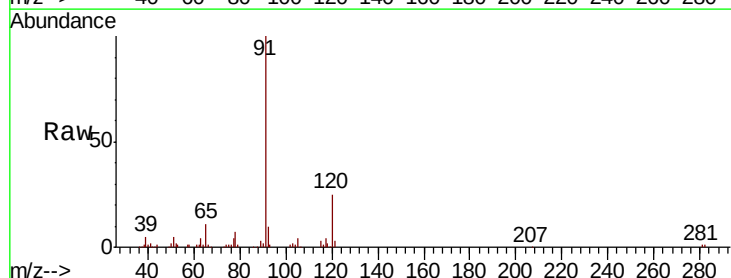
Acq: 12 Oct 2018 16:58

Tgt Ion: 91 Resp: 29864

Ion Ratio Lower Upper

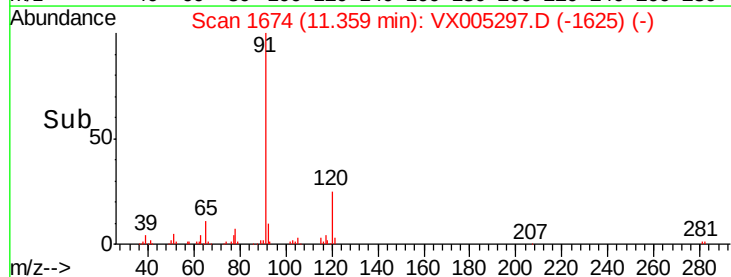
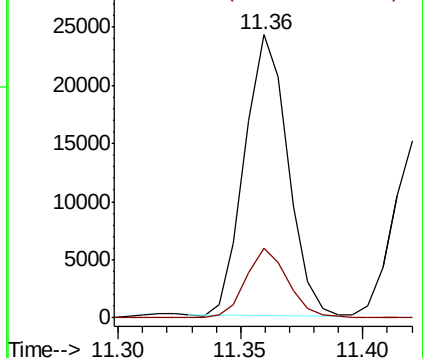
91 100

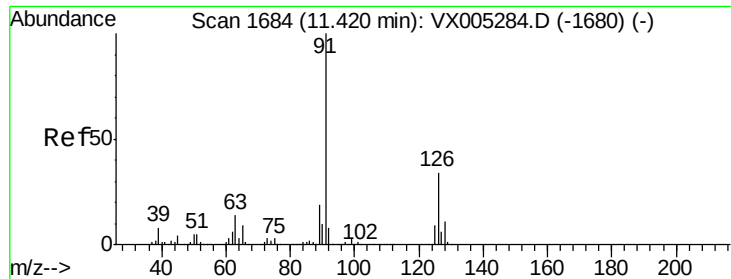
120 24.2 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.631 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

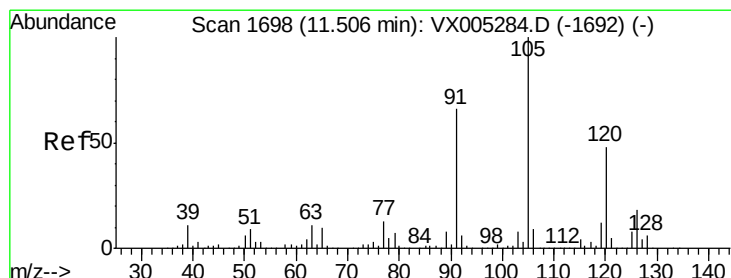
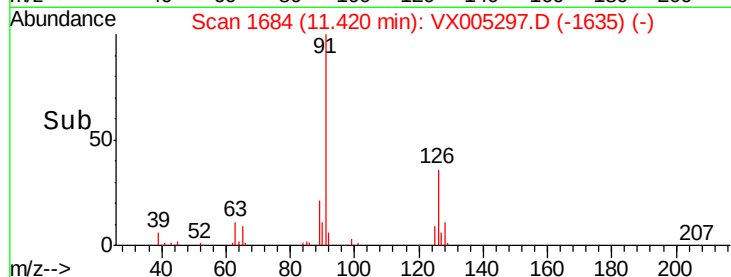
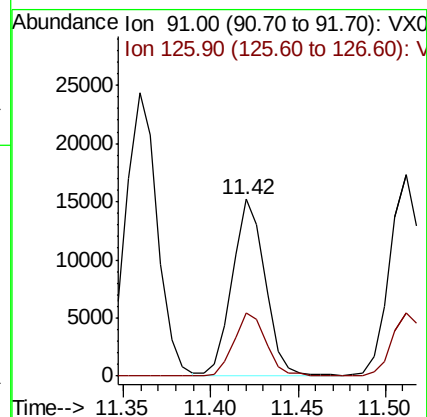
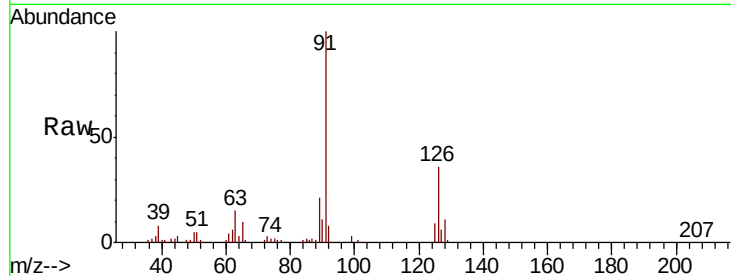
MDL-WATER-03-QT4-2018

Tot Ion: 91 Resp: 19659

Ion Ratio Lower Upper

91 100

126 35.6 17.9 53.7



#80

1,3,5-Trimethylbenzene

Concen: 2.422 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX005297.D

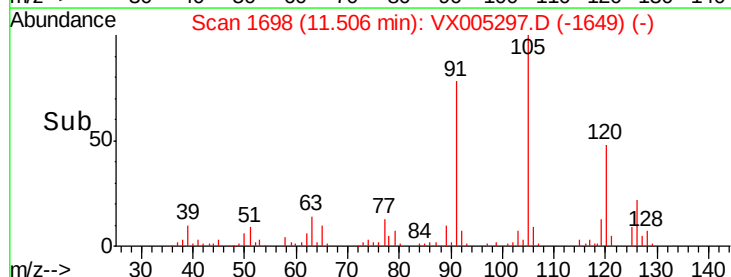
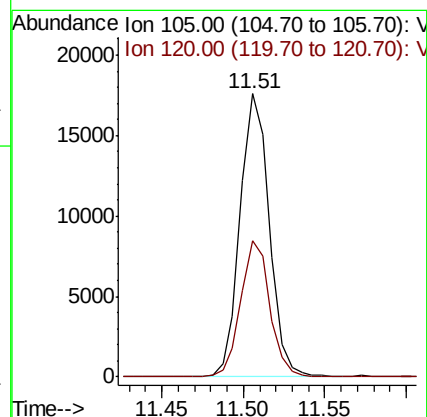
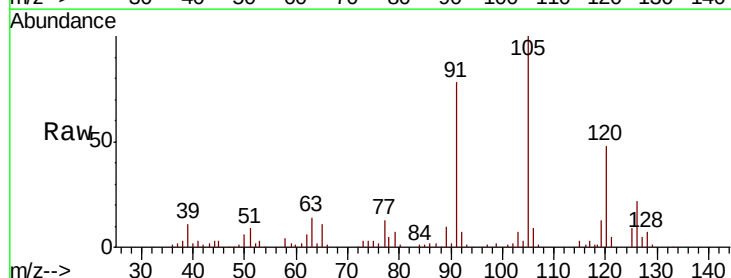
Acq: 12 Oct 2018 16:58

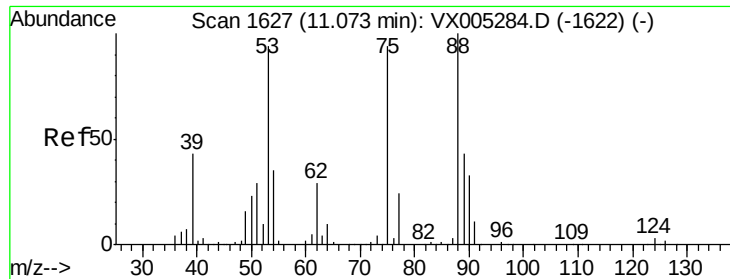
Tgt Ion: 105 Resp: 21997

Ion Ratio Lower Upper

105 100

120 47.7 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.029 ug/l

RT: 11.08 min Scan# 1628

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

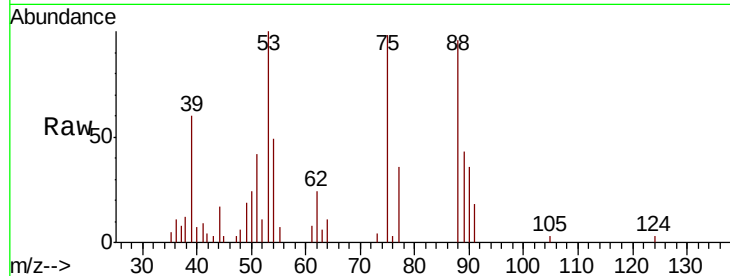
Tot Ion: 75 Resp: 2310

Ion Ratio Lower Upper

75 100

53 113.9 80.1 120.1

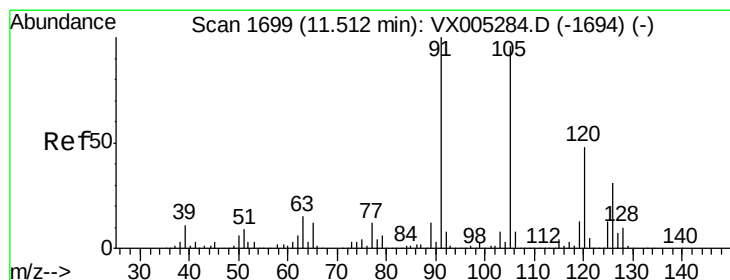
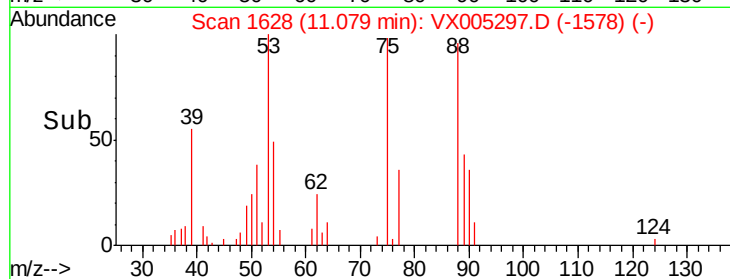
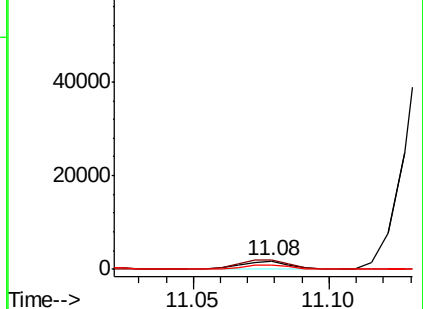
89 49.6 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 2.472 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VX005297.D

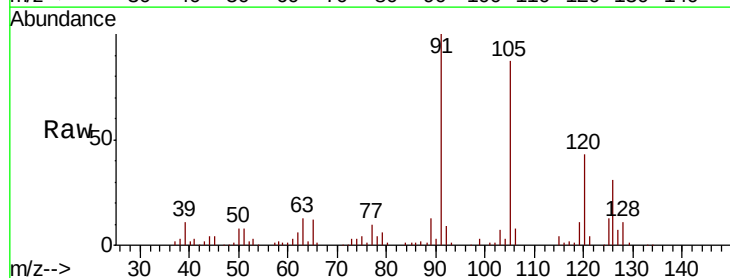
Acq: 12 Oct 2018 16:58

Tgt Ion: 91 Resp: 21897

Ion Ratio Lower Upper

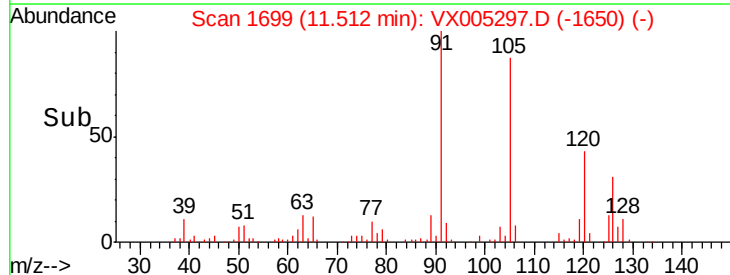
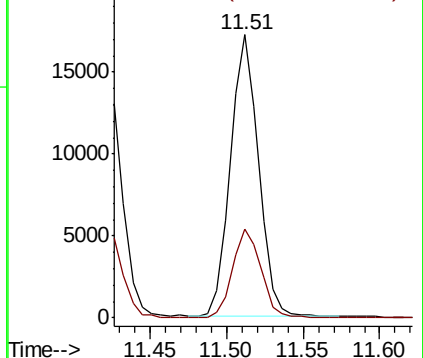
91 100

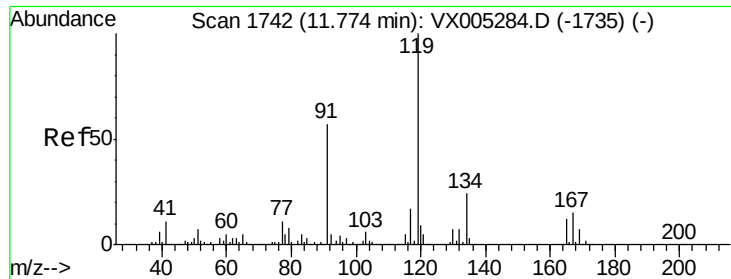
126 31.6 15.5 46.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.376 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

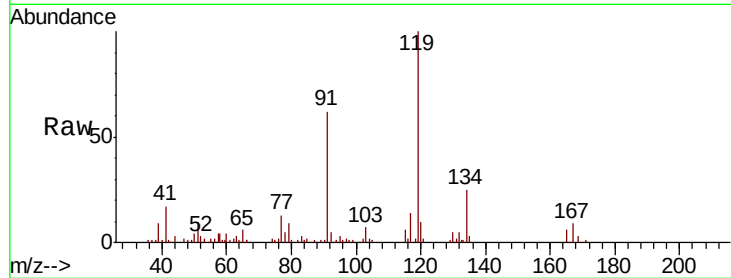
Tot Ion:119 Resp: 21845

Ion Ratio Lower Upper

119 100

91 55.2 27.0 81.0

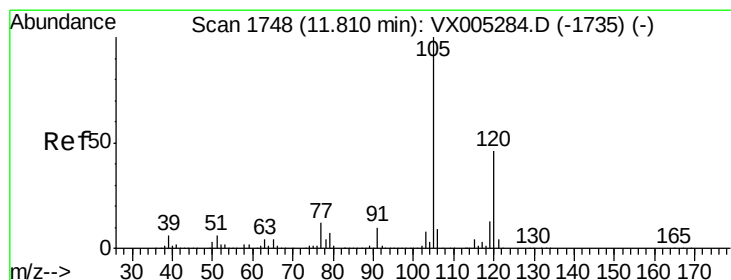
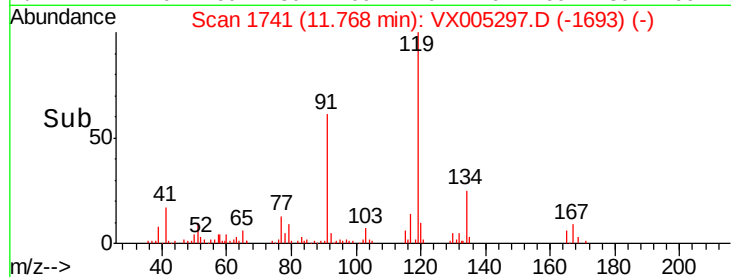
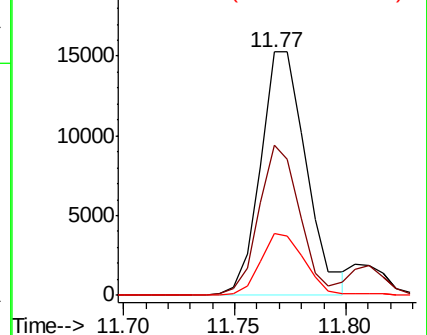
134 24.2 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.242 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VX005297.D

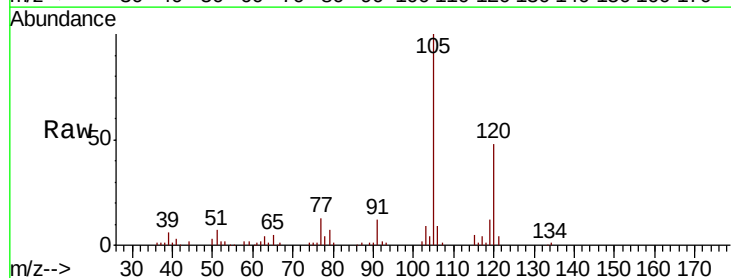
Acq: 12 Oct 2018 16:58

Tgt Ion:105 Resp: 20948

Ion Ratio Lower Upper

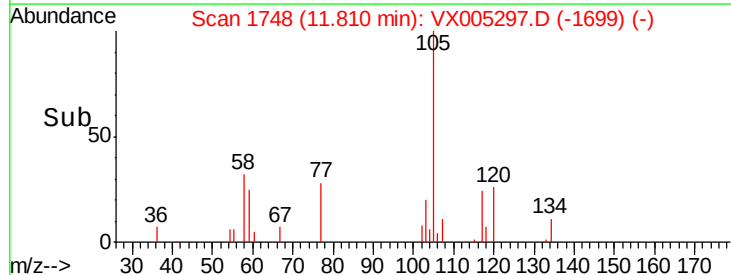
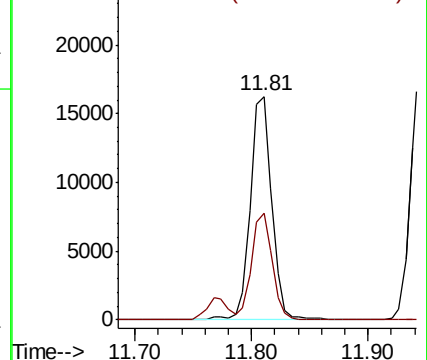
105 100

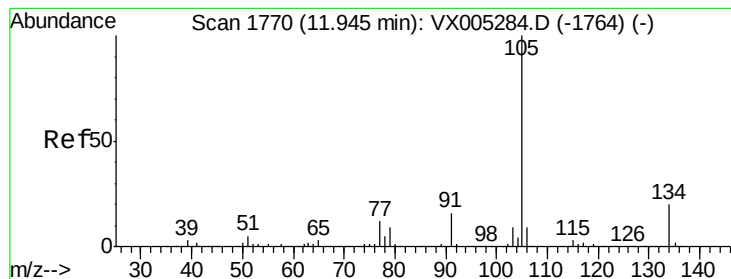
120 46.2 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.348 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

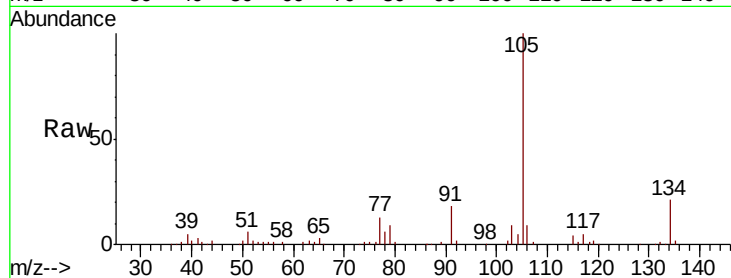
MDL-WATER-03-QT4-2018

Tot Ion:105 Resp: 25553

Ion Ratio Lower Upper

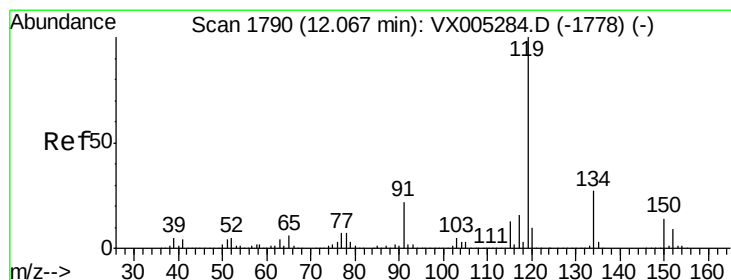
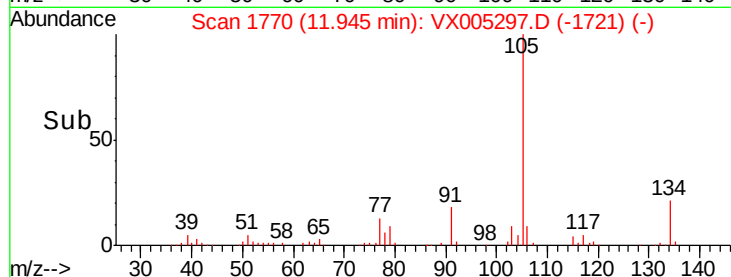
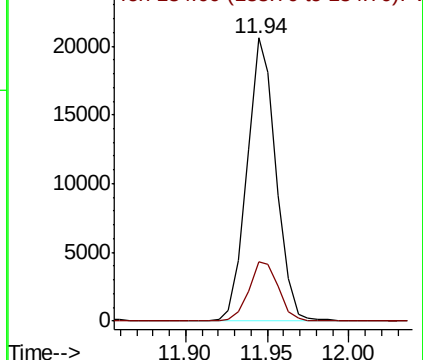
105 100

134 21.2 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.277 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

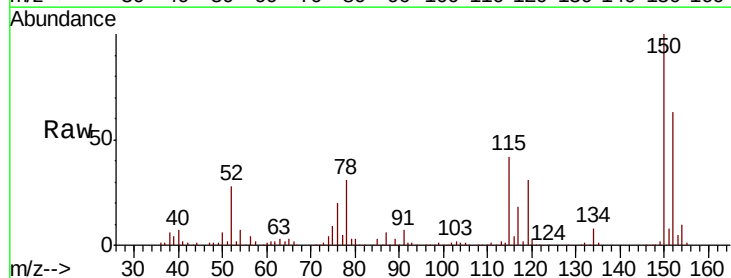
Tgt Ion:119 Resp: 22401

Ion Ratio Lower Upper

119 100

134 26.0 13.4 40.2

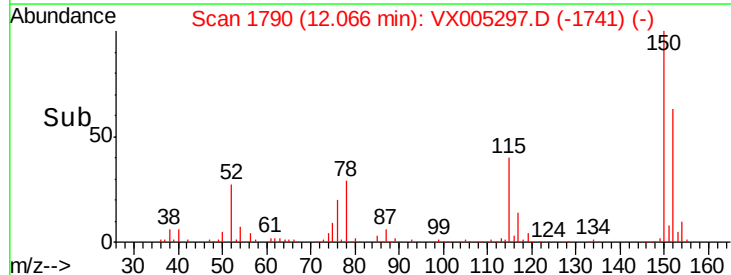
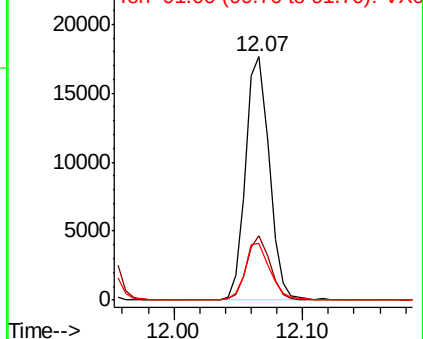
91 25.1 10.9 32.7

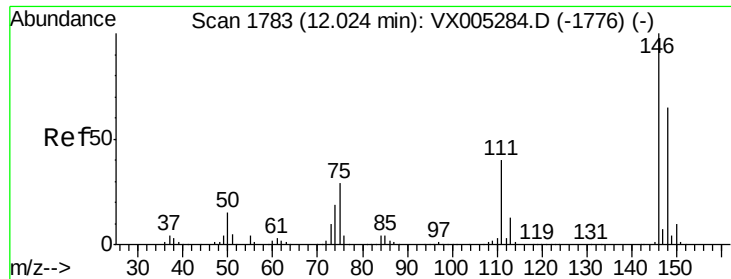


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

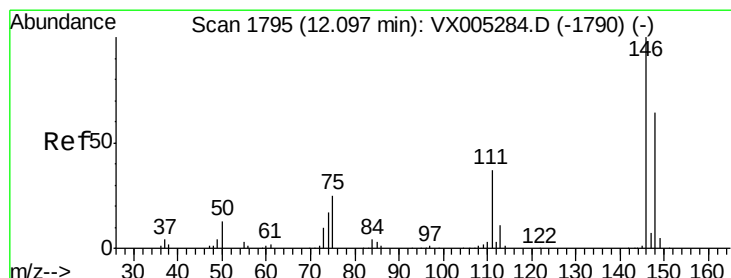
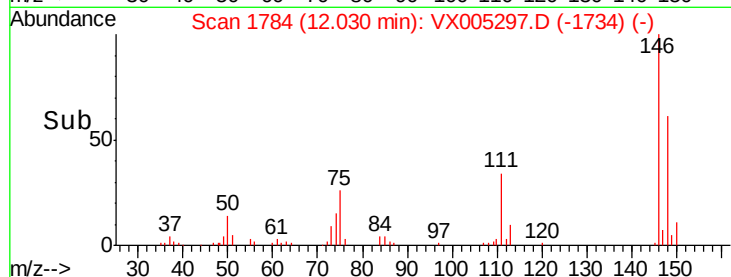
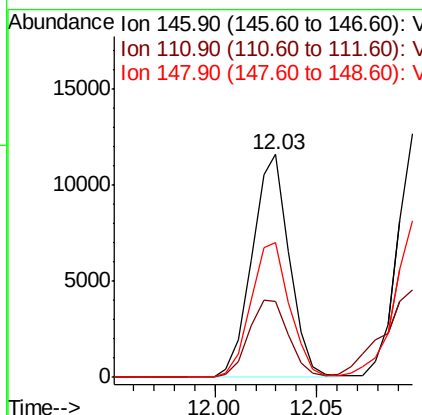
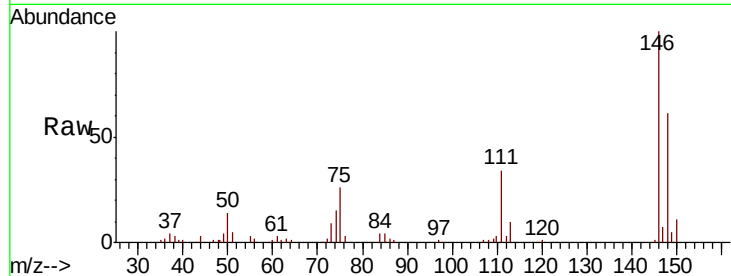




#87
 1,3-Dichlorobenzene
 Concen: 2.605 ug/l
 RT: 12.03 min Scan# 1784
 Delta R.T. 0.01 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

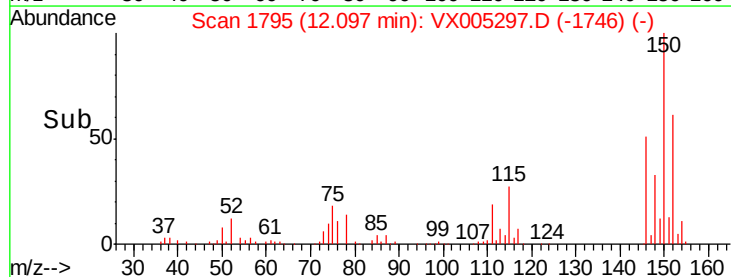
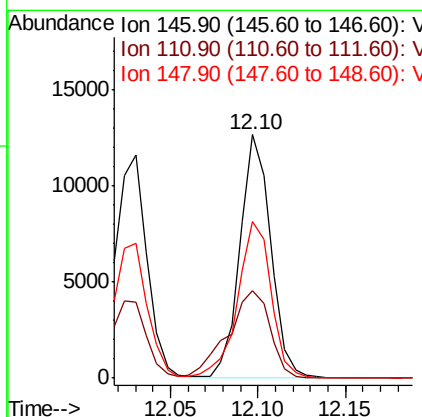
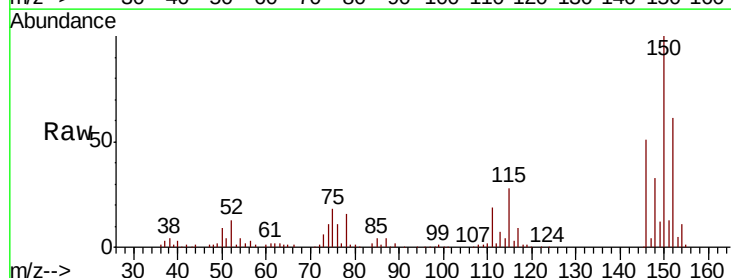
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2018

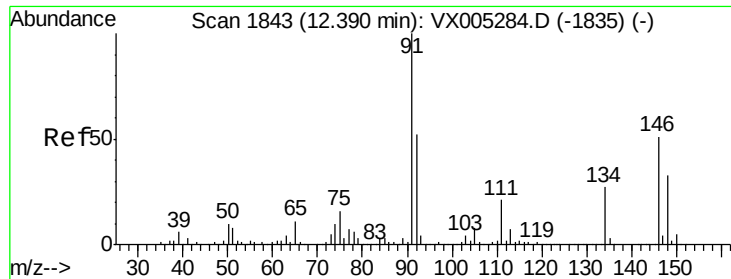
Tot Ion:146 Resp: 14760
 Ion Ratio Lower Upper
 146 100
 111 37.0 18.7 56.1
 148 63.2 32.1 96.5



#88
 1,4-Dichlorobenzene
 Concen: 2.683 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

Tgt Ion:146 Resp: 15548
 Ion Ratio Lower Upper
 146 100
 111 49.4 18.1 54.1
 148 69.9 32.0 96.0

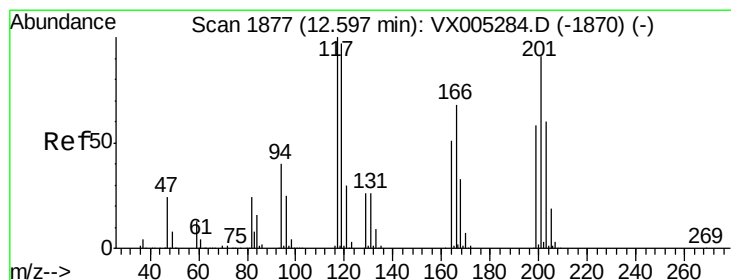
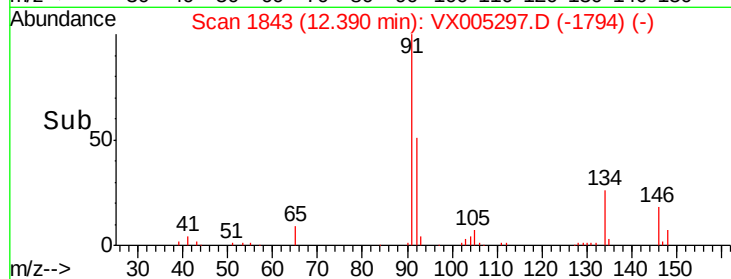
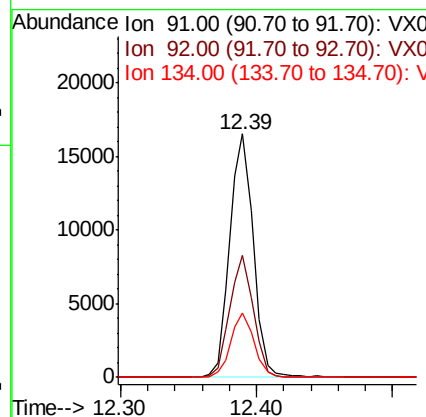
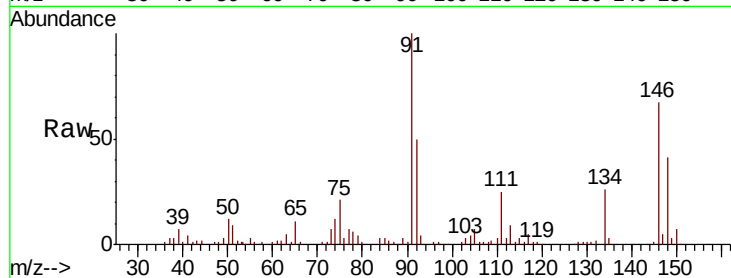




#89
n-Butylbenzene
Concen: 2.219 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

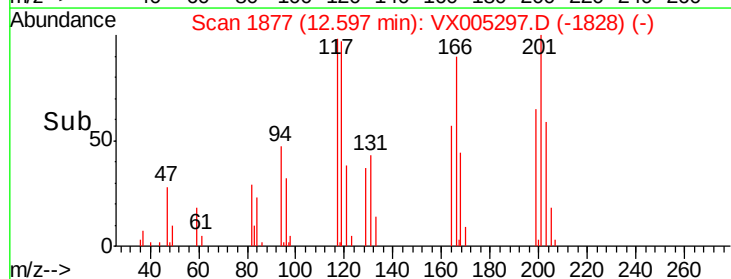
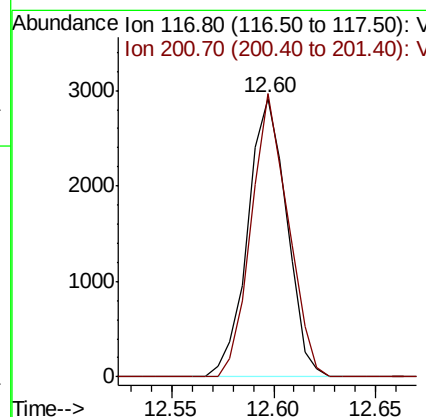
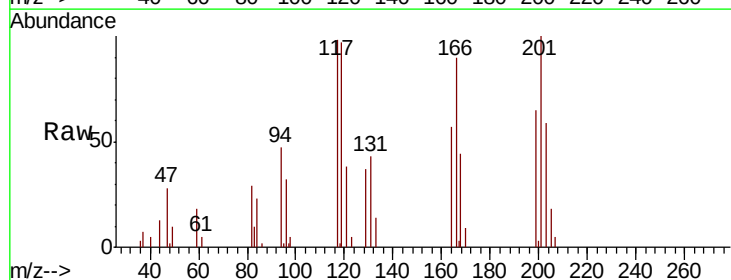
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2018

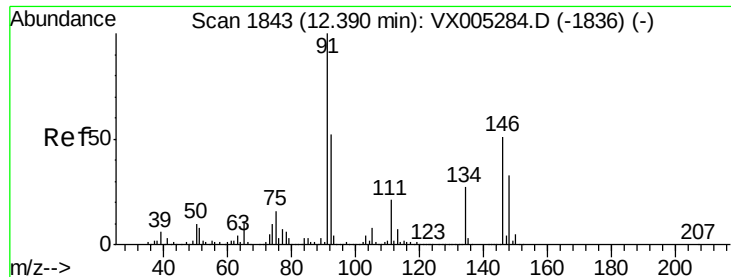
Tot Ion: 91 Resp: 19820
Ion Ratio Lower Upper
91 100
92 50.3 27.3 81.9
134 26.0 13.6 40.7



#90
Hexachloroethane
Concen: 2.283 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion: 117 Resp: 3870
Ion Ratio Lower Upper
117 100
201 96.5 46.9 140.6





#91

1,2-Dichlorobenzene

Concen: 2.612 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2018

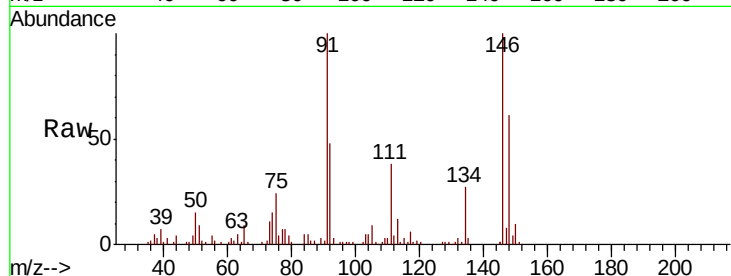
Tot Ion:146 Resp: 15102

Ion Ratio Lower Upper

146 100

111 38.4 19.4 58.1

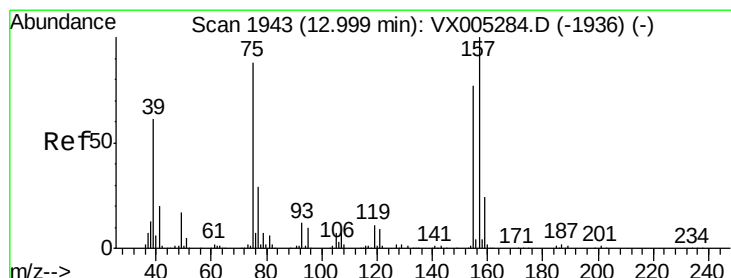
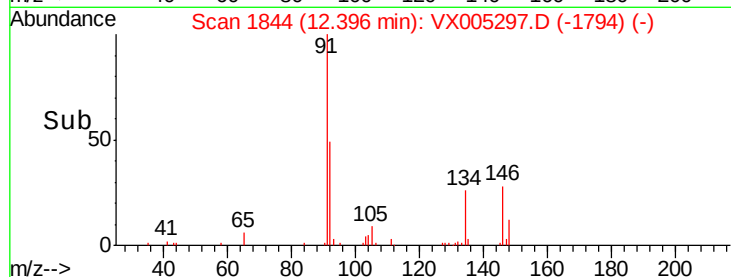
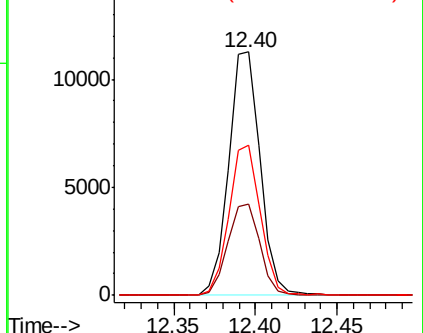
148 61.5 32.8 98.3



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.334 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

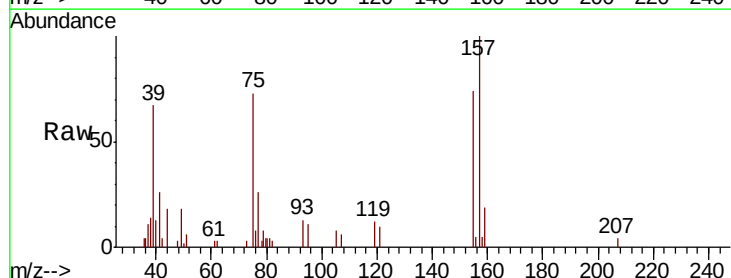
Tgt Ion: 75 Resp: 2277

Ion Ratio Lower Upper

75 100

155 93.2 48.0 144.2

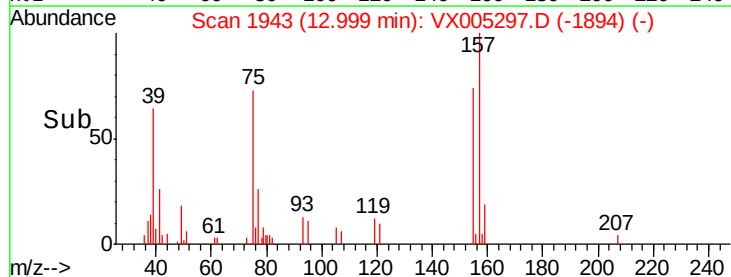
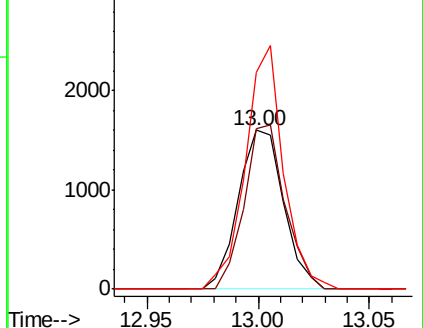
157 128.9 61.4 184.1

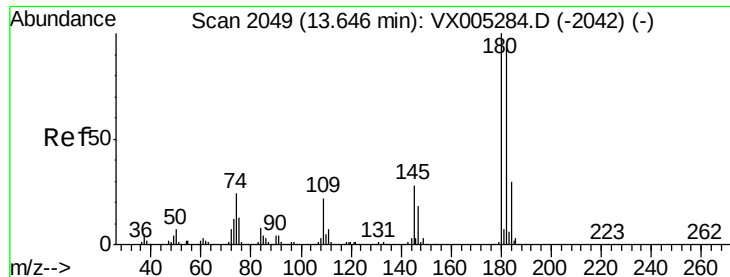


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

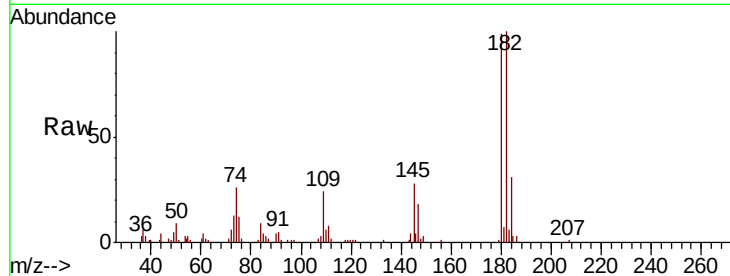




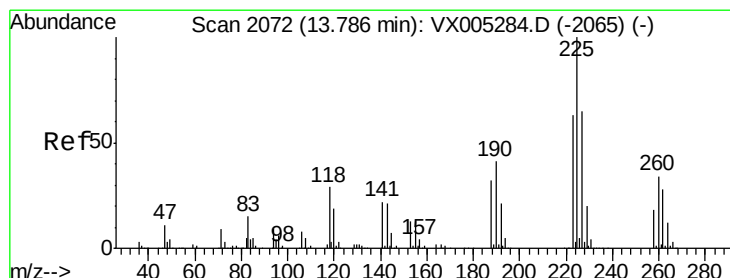
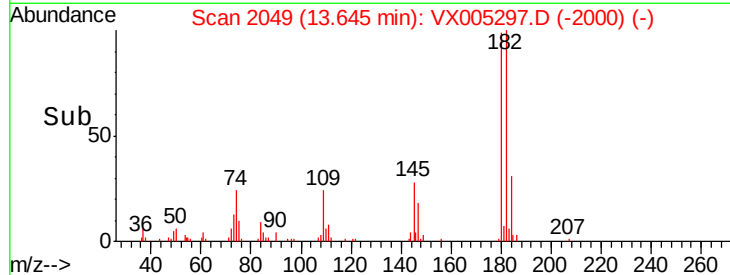
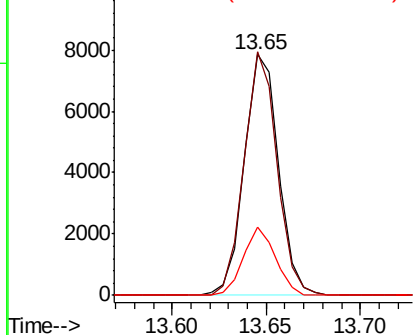
#93
 1,2,4-Trichlorobenzene
 Concen: 2.339 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

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

Tot Ion:180 Resp: 9920
 Ion Ratio Lower Upper
 180 100
 182 96.6 48.4 145.0
 145 26.5 14.3 42.9

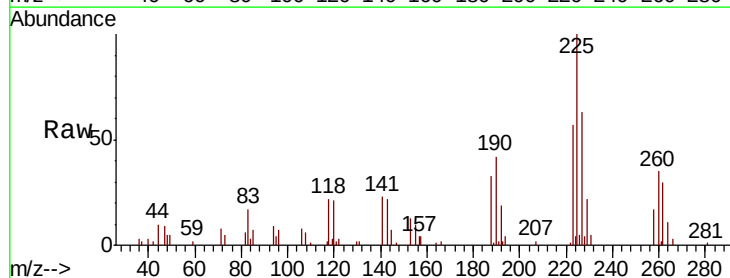


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

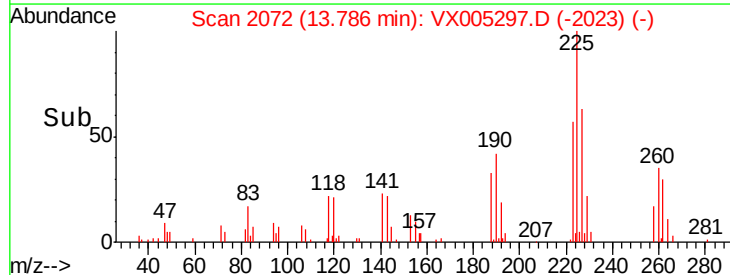
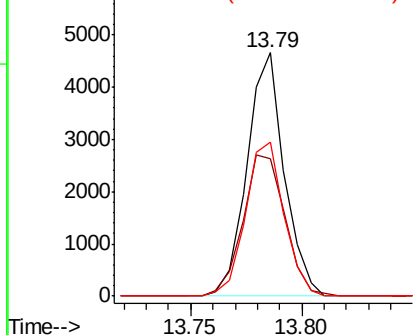


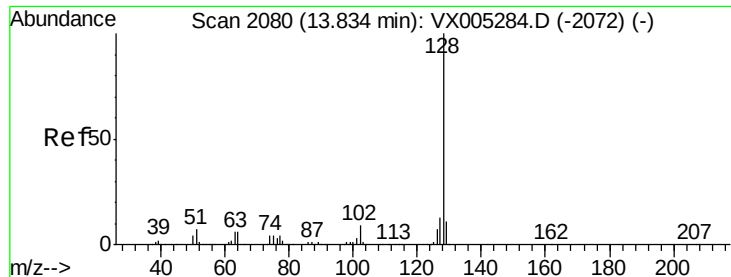
#94
 Hexachlorobutadiene
 Concen: 2.422 ug/l
 RT: 13.79 min Scan# 2072
 Delta R.T. -0.00 min
 Lab File: VX005297.D
 Acq: 12 Oct 2018 16:58

Tgt Ion:225 Resp: 5427
 Ion Ratio Lower Upper
 225 100
 223 66.1 30.1 90.5
 227 65.5 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

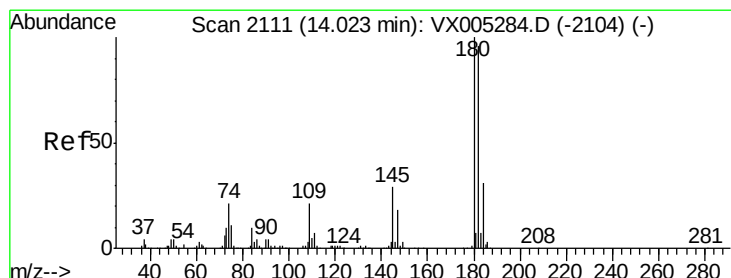
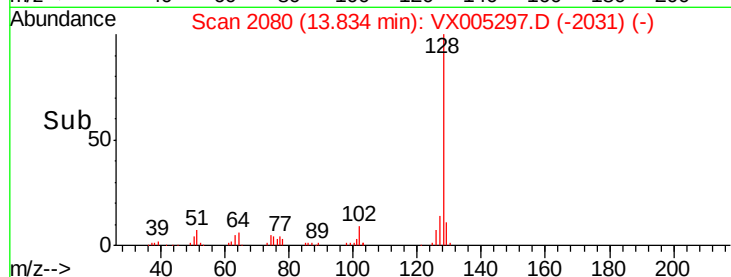
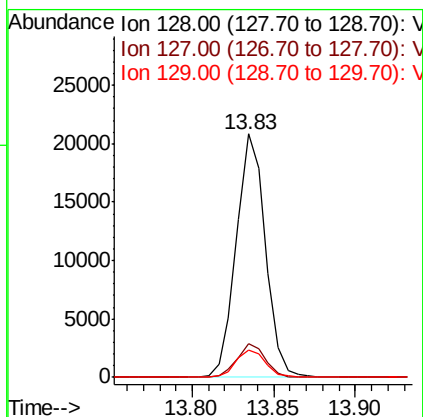
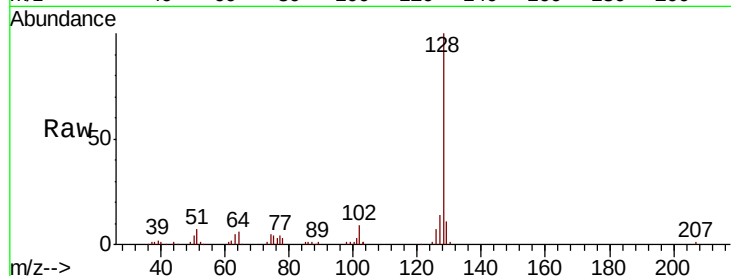




#95
Naphthalene
Concen: 2.108 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

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

Tot Ion:128 Resp: 25937
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.2
129 11.4 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 2.395 ug/l
RT: 14.02 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VX005297.D
Acq: 12 Oct 2018 16:58

Tgt Ion:180 Resp: 10394
Ion Ratio Lower Upper
180 100
182 91.8 48.5 145.6
145 29.3 14.9 44.9

