

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102720\
 Data File : VX019140.D
 Acq On : 27 Oct 2020 16:49
 Operator : JC/MD
 Sample : L4214-09 .75PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Oct 28 03:14:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 28 03:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	279970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	462149	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	413506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	197047	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	178219	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
35) Dibromofluoromethane	5.46	113	140594	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.70	98	537512	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.12	95	195748	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	1939	0.831	ug/l	94
3) Chloromethane	1.31	50	2026	0.777	ug/l #	77
4) Vinyl Chloride	1.39	62	2165	0.716	ug/l	96
5) Bromomethane	1.64	94	2117	1.025	ug/l	100
6) Chloroethane	1.72	64	1491	0.772	ug/l	99
7) Trichlorofluoromethane	1.92	101	3550	0.747	ug/l	98
8) Diethyl Ether	2.17	74	1470	0.806	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1999	0.759	ug/l	98
10) Methyl Iodide	2.50	142	1308	0.489	ug/l	92
11) Tert butyl alcohol	3.03	59	2924	4.100	ug/l	98
12) 1,1-Dichloroethene	2.36	96	2158	0.795	ug/l	89
13) Acrolein	2.28	56	1967	5.662	ug/l	85
14) Allyl chloride	2.70	41	2989	0.727	ug/l	96
15) Acrylonitrile	3.12	53	5568	3.716	ug/l	98
16) Acetone	2.43	43	4859	3.901	ug/l	100
17) Carbon Disulfide	2.55	76	6872	0.833	ug/l	98
18) Methyl Acetate	2.75	43	2384	0.787	ug/l	99
19) Methyl tert-butyl Ether	3.17	73	6720	0.715	ug/l	95
20) Methylene Chloride	2.84	84	2590	0.828	ug/l	97
21) trans-1,2-Dichloroethene	3.14	96	2303	0.737	ug/l	93
22) Diisopropyl ether	3.82	45	5617	0.686	ug/l #	51
23) Vinyl Acetate	3.79	43	23825	3.261	ug/l	99
24) 1,1-Dichloroethane	3.67	63	3591	0.702	ug/l #	92
25) 2-Butanone	4.65	43	6603	3.364	ug/l	99
26) 2,2-Dichloropropane	4.56	77	3306	0.687	ug/l	91
27) cis-1,2-Dichloroethene	4.56	96	2555	0.732	ug/l	92
28) Bromochloromethane	4.99	49	1544	0.664	ug/l #	98
29) Tetrahydrofuran	5.10	42	4769	3.855	ug/l	95
30) Chloroform	5.18	83	3816	0.701	ug/l	98
31) Cyclohexane	5.54	56	3030	0.664	ug/l #	86
32) 1,1,1-Trichloroethane	5.46	97	3410	0.691	ug/l #	50
36) 1,1-Dichloropropene	5.78	75	3180	0.745	ug/l	97
37) Ethyl Acetate	4.79	43	3474	0.877	ug/l #	88
38) Carbon Tetrachloride	5.74	117	1251	0.288	ug/l	95

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

39) Methylcyclohexane	7.44	83	3607	0.707	ug/l	95
40) Benzene	6.12	78	8361	0.691	ug/l	98
41) Methacrylonitrile	5.00	41	867	0.406	ug/l #	19
42) 1,2-Dichloroethane	6.16	62	3429	0.769	ug/l	96
43) Isopropyl Acetate	6.41	43	4993	0.753	ug/l	96
44) Trichloroethene	7.19	130	2600	0.750	ug/l	85
45) 1,2-Dichloropropane	7.49	63	2007	0.677	ug/l #	82
46) Dibromomethane	7.64	93	1563	0.713	ug/l	98
47) Bromodichloromethane	7.87	83	2888	0.669	ug/l	94
48) Methyl methacrylate	7.75	41	2309	0.723	ug/l	94
49) 1,4-Dioxane	7.74	88	992	13.969	ug/l #	68
51) 4-Methyl-2-Pentanone	8.62	43	13315	3.492	ug/l	98
52) Toluene	8.76	92	5623	0.722	ug/l	99
53) t-1,3-Dichloropropene	9.02	75	3137	0.636	ug/l	97
54) cis-1,3-Dichloropropene	8.42	75	3521	0.679	ug/l	96
55) 1,1,2-Trichloroethane	9.20	97	2163	0.702	ug/l #	86
56) Ethyl methacrylate	9.16	69	2975	0.640	ug/l #	84
57) 1,3-Dichloropropane	9.35	76	3607	0.695	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.29	63	7409	2.848	ug/l	95
59) 2-Hexanone	9.48	43	9878	3.403	ug/l	97
60) Dibromochloromethane	9.56	129	2124	0.636	ug/l	99
61) 1,2-Dibromoethane	9.66	107	2203	0.669	ug/l	100
64) Tetrachloroethene	9.32	164	2550	0.809	ug/l	90
65) Chlorobenzene	10.12	112	5865	0.694	ug/l	94
66) 1,1,1,2-Tetrachloroethane	10.20	131	2039	0.670	ug/l #	66
67) Ethyl Benzene	10.23	91	10406	0.691	ug/l	99
68) m/p-Xylenes	10.34	106	7714	1.365	ug/l	97
69) o-Xylene	10.68	106	3952	0.737	ug/l	88
70) Styrene	10.70	104	5932	0.648	ug/l	94
71) Bromoform	10.84	173	1491	0.618	ug/l #	96
73) Isopropylbenzene	11.00	105	9701	0.696	ug/l	97
74) N-amyl acetate	10.88	43	3555	0.697	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.25	83	3188	0.731	ug/l	93
76) 1,2,3-Trichloropropane	11.28	75	3447	0.847	ug/l	97
77) Bromobenzene	11.24	156	2501	0.722	ug/l	92
78) n-propylbenzene	11.34	91	11219	0.705	ug/l	100
79) 2-Chlorotoluene	11.40	91	7172	0.765	ug/l	98
80) 1,3,5-Trimethylbenzene	11.49	105	7982	0.677	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.12	75	100080	64.767	ug/l #	12
82) 4-Chlorotoluene	11.49	91	8489	0.742	ug/l	99
83) tert-Butylbenzene	11.76	119	7803	0.692	ug/l	98
84) 1,2,4-Trimethylbenzene	11.79	105	8070	0.678	ug/l	98
85) sec-Butylbenzene	11.93	105	9107	0.673	ug/l	98
86) p-Isopropyltoluene	12.05	119	8509	0.681	ug/l	91
87) 1,3-Dichlorobenzene	12.01	146	4619	0.716	ug/l	96
88) 1,4-Dichlorobenzene	12.01	146	4619	0.688	ug/l	95
89) n-Butylbenzene	12.37	91	7862	0.670	ug/l	99
90) Hexachloroethane	12.58	117	1300	0.612	ug/l	93
91) 1,2-Dichlorobenzene	12.38	146	4612	0.745	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	12.99	75	763	0.715	ug/l	76

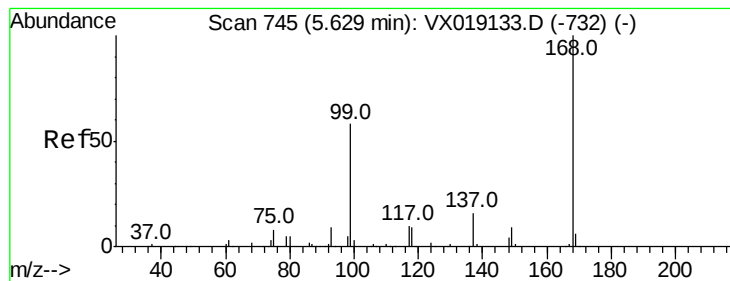
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.63	180	3360	0.723	ug/l	91
94) Hexachlorobutadiene	13.77	225	1369	0.669	ug/l	94
95) Naphthalene	13.82	128	8915	0.609	ug/l	98
96) 1,2,3-Trichlorobenzene	14.01	180	2961	0.656	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

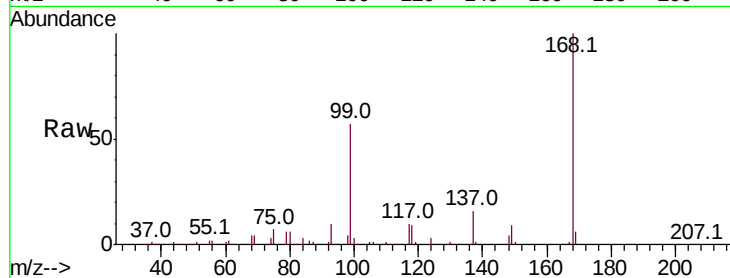
MDL-WATER-03-QT4-2020

Tot Ion:168 Resp: 279970

Ion Ratio Lower Upper

168 100

99 57.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

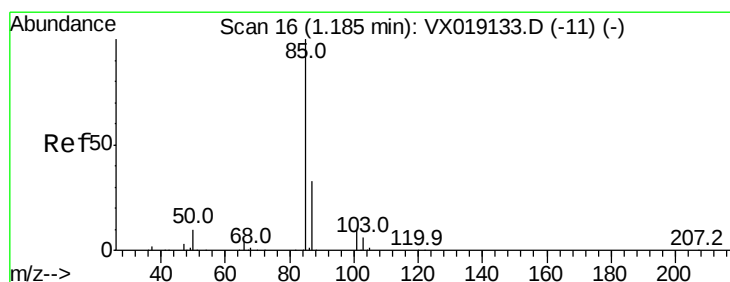
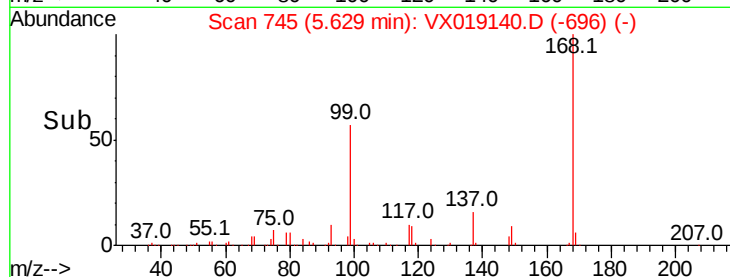
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.831 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019140.D

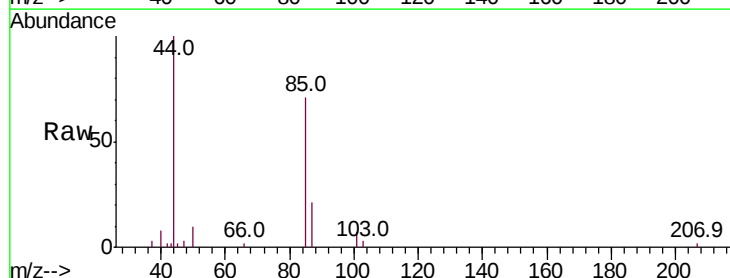
Acq: 27 Oct 2020 16:49

Tgt Ion: 85 Resp: 1939

Ion Ratio Lower Upper

85 100

87 29.7 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

2500

2000

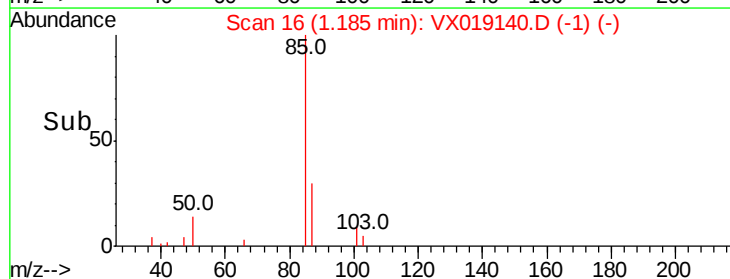
1500

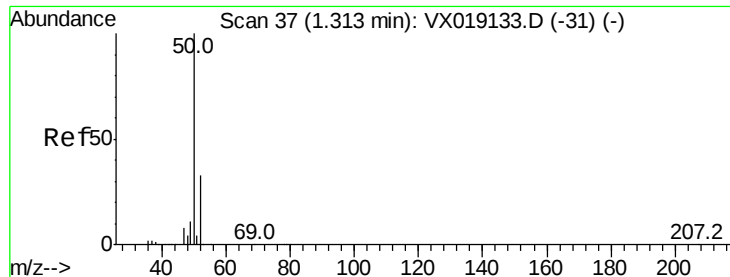
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.777 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

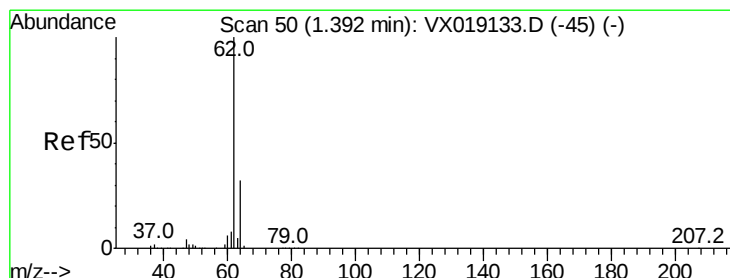
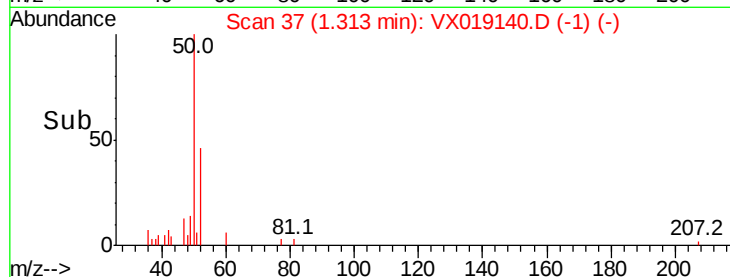
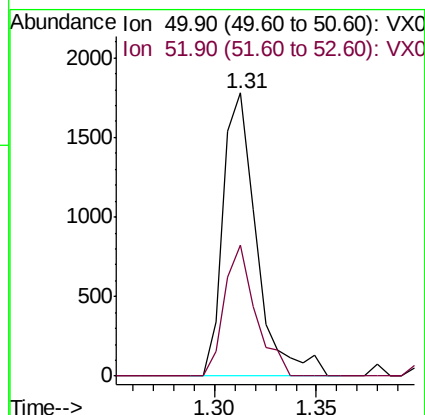
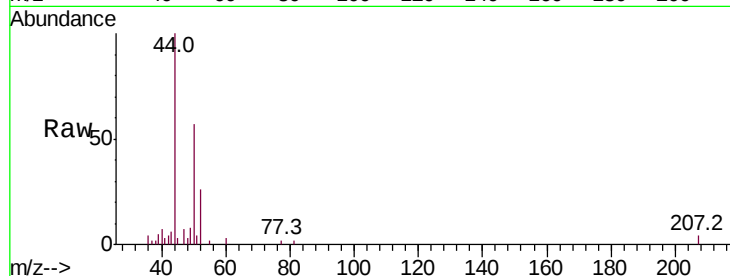
MDL-WATER-03-QT4-2020

Tot Ion: 50 Resp: 2026

Ion Ratio Lower Upper

50 100

52 46.4 26.8 40.2#



#4

Vinyl Chloride

Concen: 0.716 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019140.D

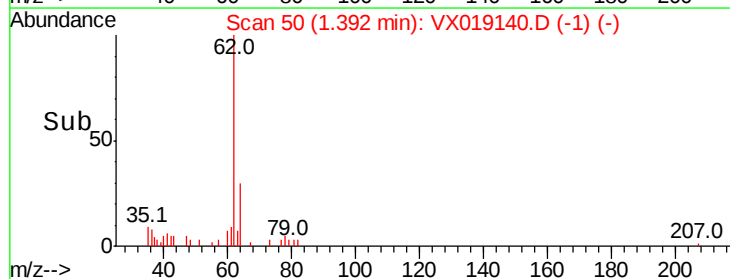
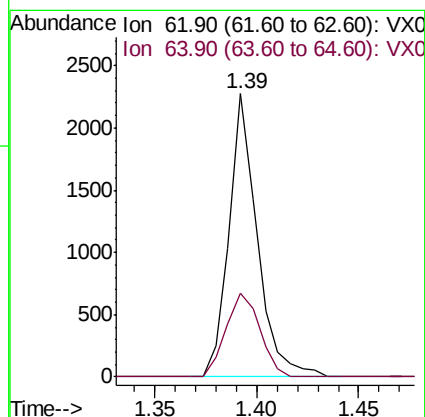
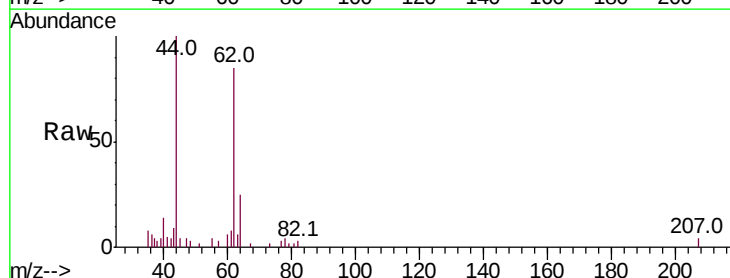
Acq: 27 Oct 2020 16:49

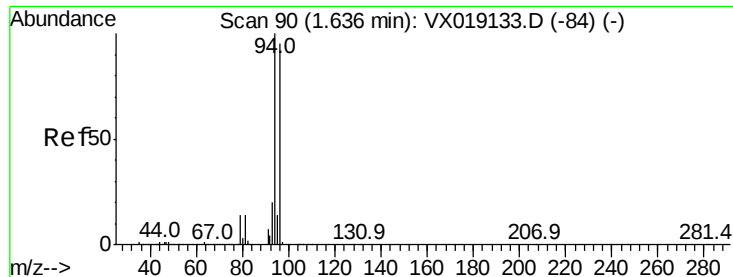
Tgt Ion: 62 Resp: 2165

Ion Ratio Lower Upper

62 100

64 29.6 25.4 38.0





#5

Bromomethane

Concen: 1.025 ug/l

RT: 1.64 min Scan# 90

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

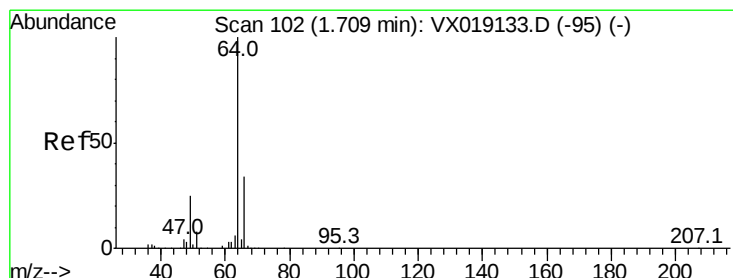
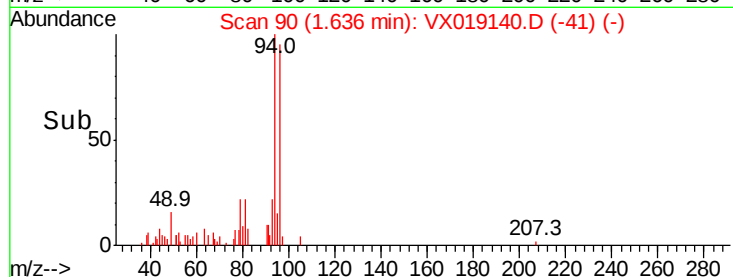
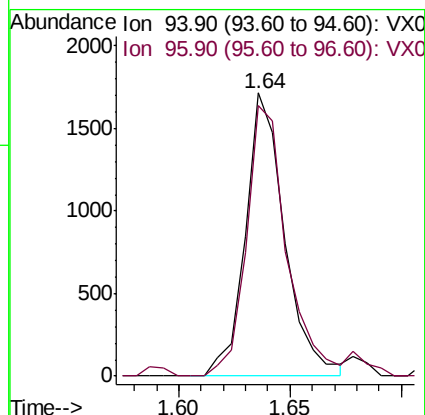
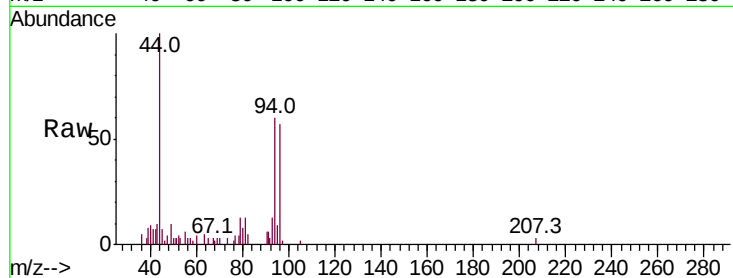
MDL-WATER-03-QT4-2020

Tot Ion: 94 Resp: 2117

Ion Ratio Lower Upper

94 100

96 95.4 76.0 114.0



#6

Chloroethane

Concen: 0.772 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX019140.D

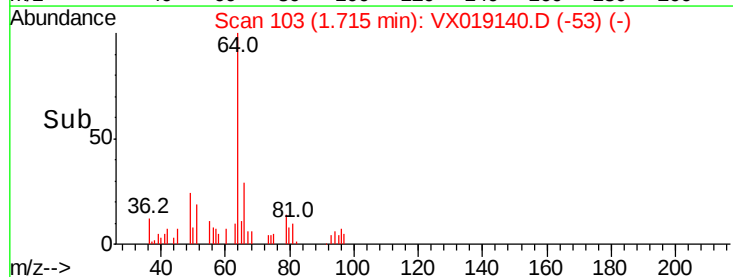
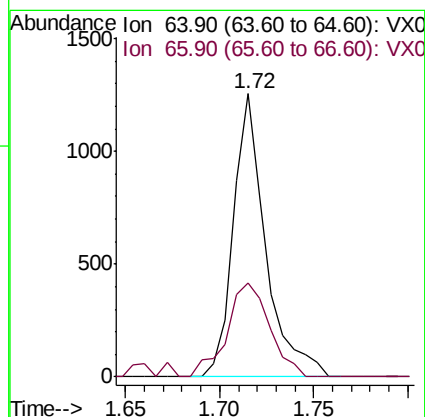
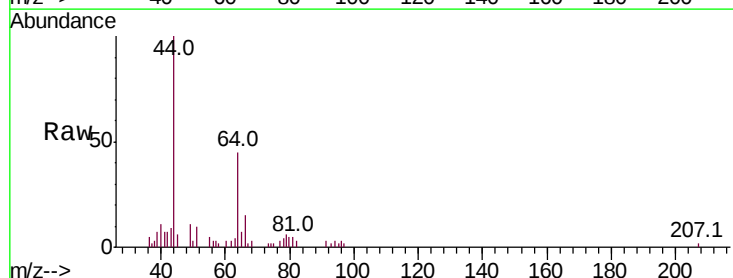
Acq: 27 Oct 2020 16:49

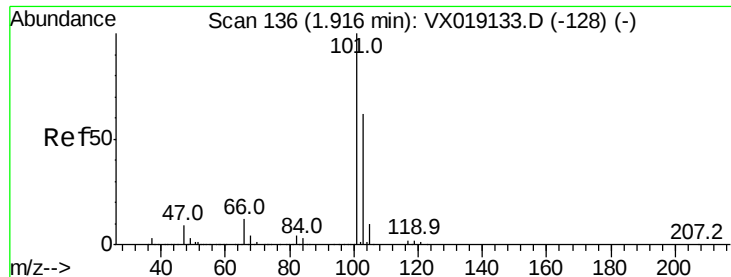
Tgt Ion: 64 Resp: 1491

Ion Ratio Lower Upper

64 100

66 33.1 27.1 40.7



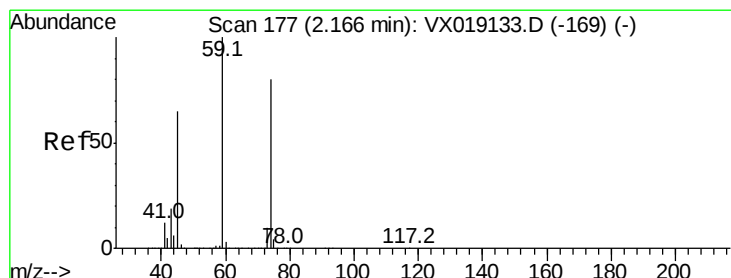
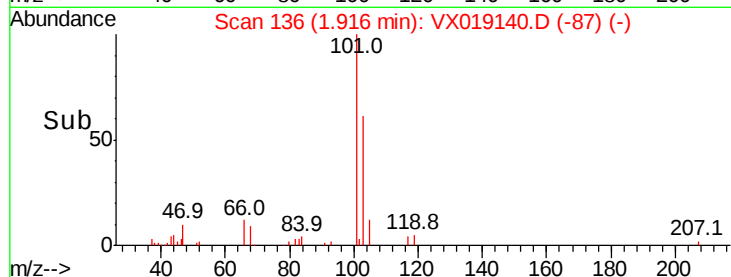
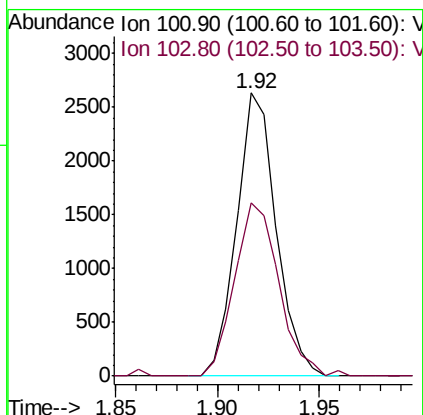
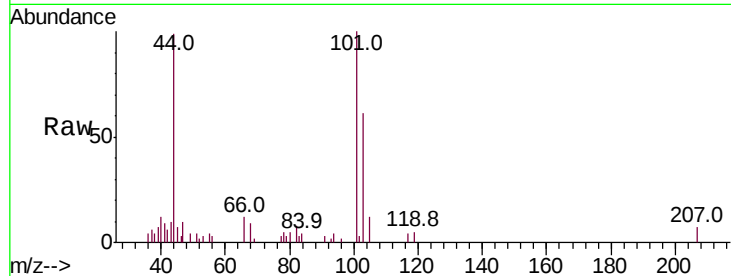


#7

Trichlorofluoromethane
Concen: 0.747 ug/l
RT: 1.92 min Scan# 136
Delta R.T. -0.00 min
Lab File: VX019140.D
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MSVOA_X
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MDL-WATER-03-QT4-2020

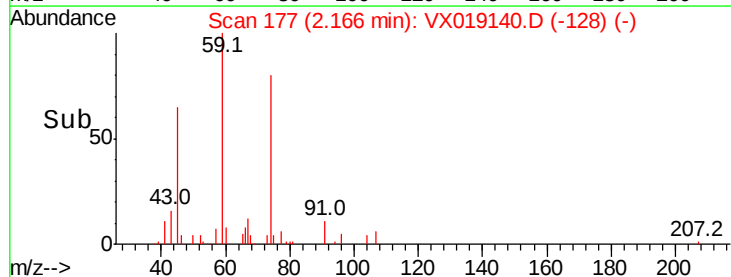
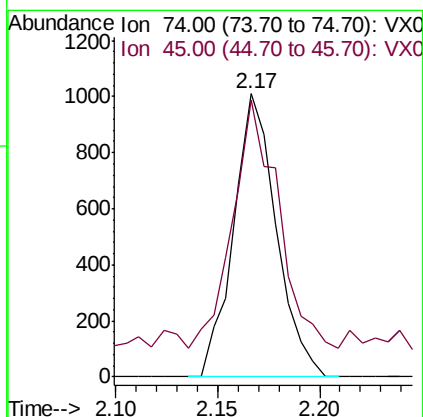
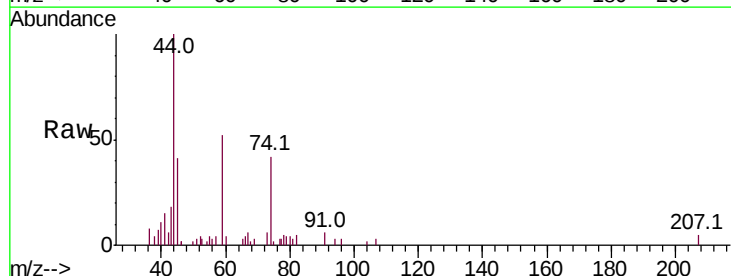
Tot Ion:101 Resp: 3550
Ion Ratio Lower Upper
101 100
103 61.1 50.0 75.0

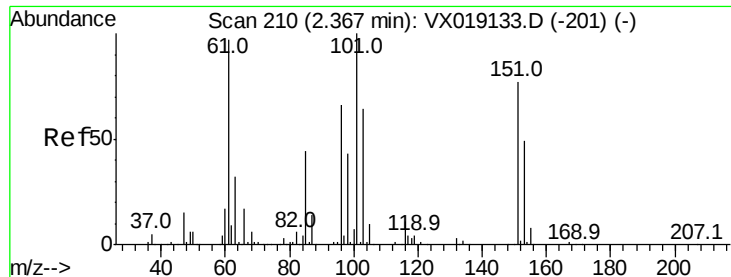


#8

Diethyl Ether
Concen: 0.806 ug/l
RT: 2.17 min Scan# 177
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 74 Resp: 1470
Ion Ratio Lower Upper
74 100
45 93.0 41.0 123.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.759 ug/l

RT: 2.37 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

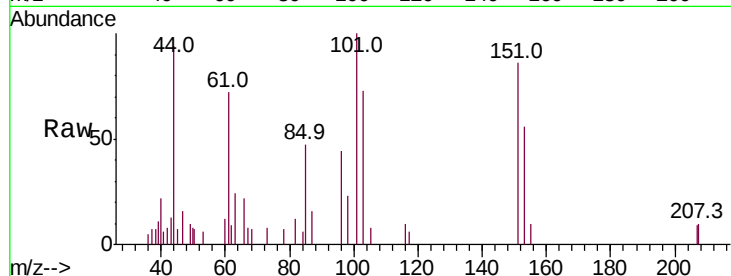
Tot Ion:101 Resp: 1999

Ion Ratio Lower Upper

101 100

85 44.4 35.0 52.4

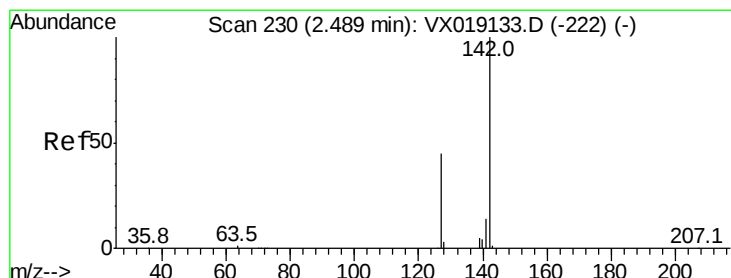
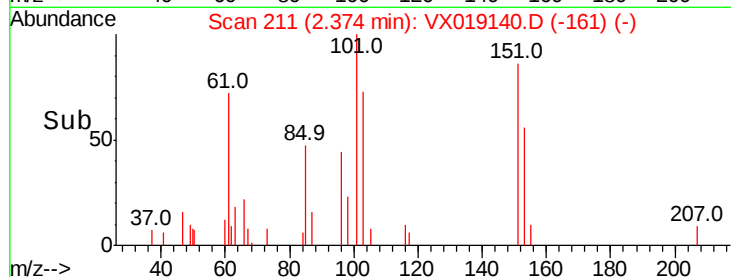
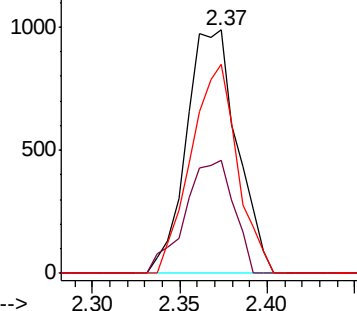
151 78.4 61.4 92.2



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: 0.489 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

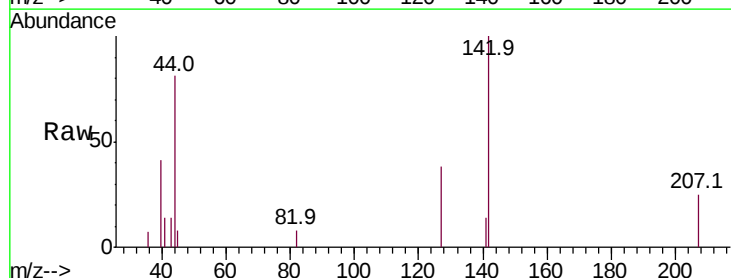
Tgt Ion:142 Resp: 1308

Ion Ratio Lower Upper

142 100

127 38.6 36.1 54.1

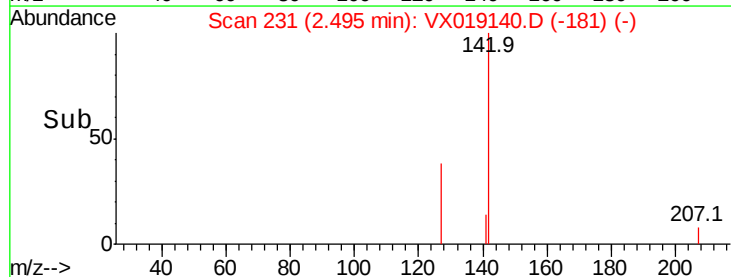
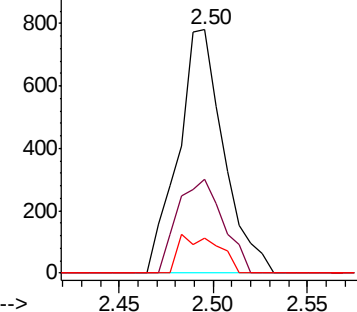
141 13.5 11.3 16.9

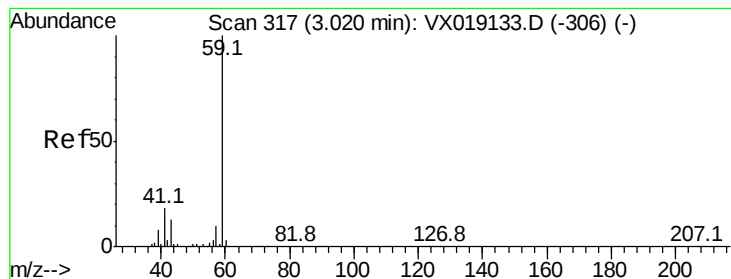


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



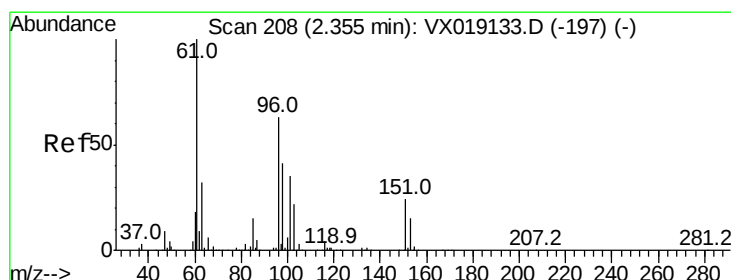
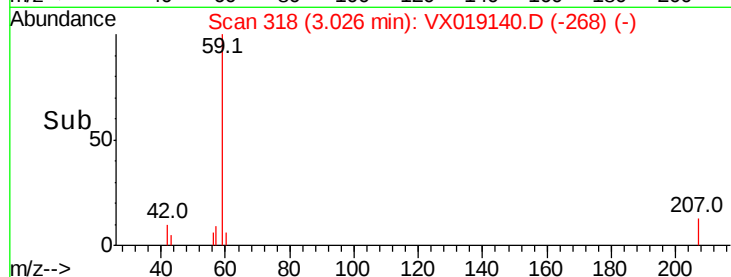
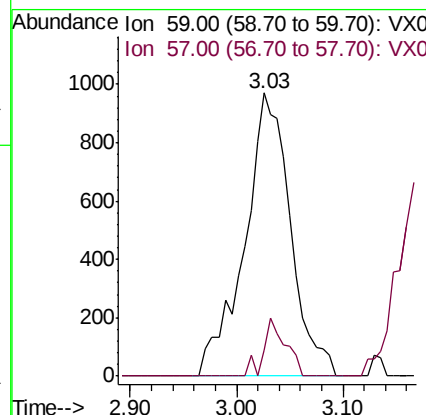
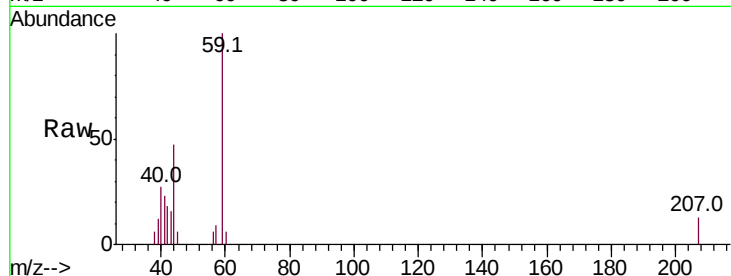


#11

Tert butyl alcohol
Concen: 4.100 ug/l
RT: 3.03 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

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

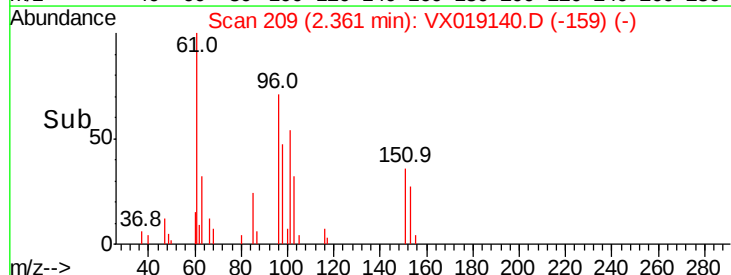
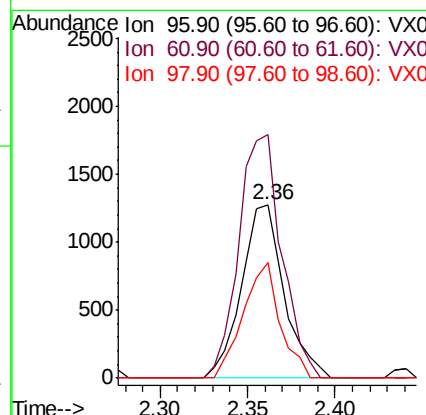
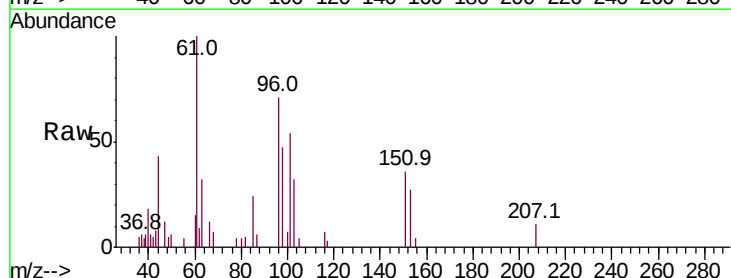
Tot Ion: 59 Resp: 2924
Ion Ratio Lower Upper
59 100
57 9.8 8.4 12.6

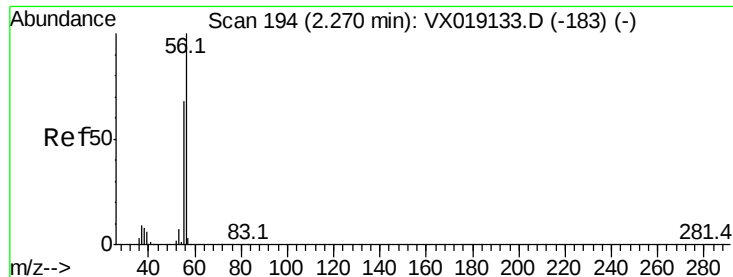


#12

1,1-Dichloroethene
Concen: 0.795 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 96 Resp: 2158
Ion Ratio Lower Upper
96 100
61 140.3 127.7 191.5
98 66.5 52.1 78.1





#13

Acrolein

Concen: 5.662 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

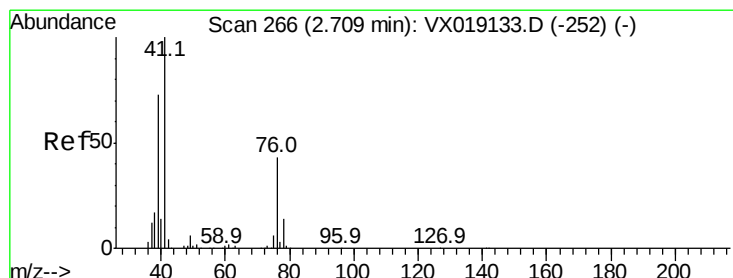
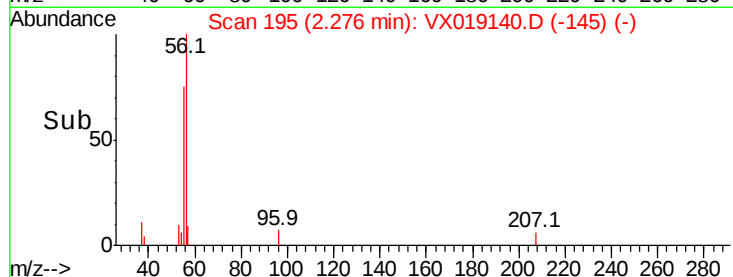
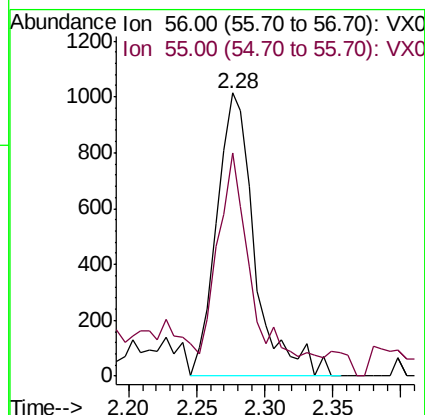
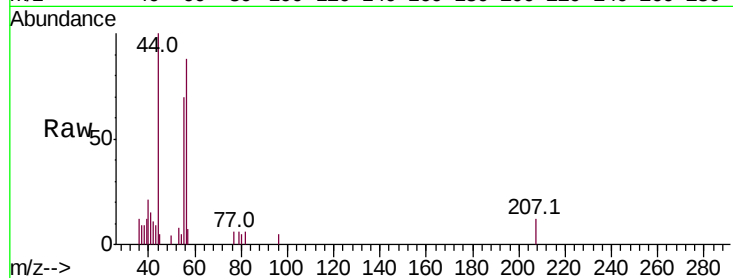
MDL-WATER-03-QT4-2020

Tot Ion: 56 Resp: 1967

Ion Ratio Lower Upper

56 100

55 56.5 54.7 82.1



#14

Allyl chloride

Concen: 0.727 ug/l

RT: 2.70 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

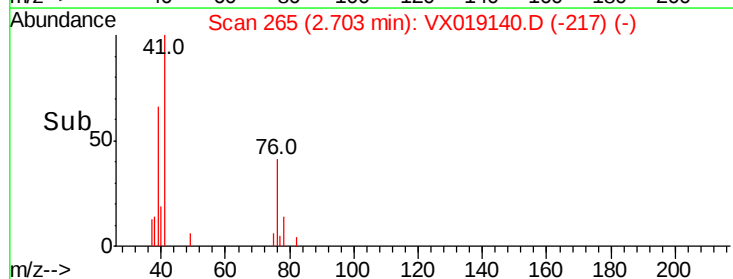
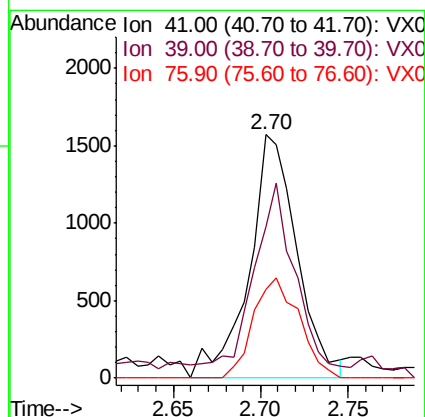
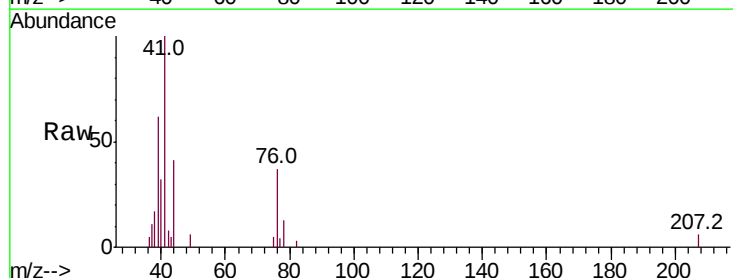
Tgt Ion: 41 Resp: 2989

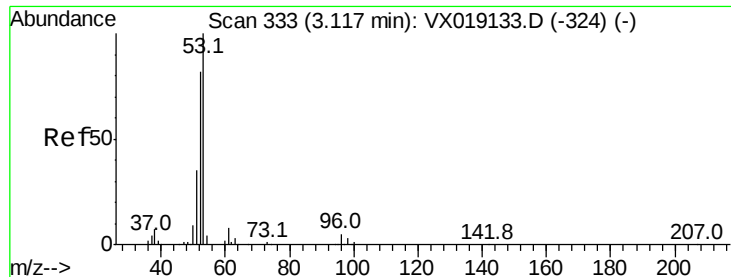
Ion Ratio Lower Upper

41 100

39 74.4 55.2 82.8

76 39.5 31.5 47.3





#15

Acrylonitrile

Concen: 3.716 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

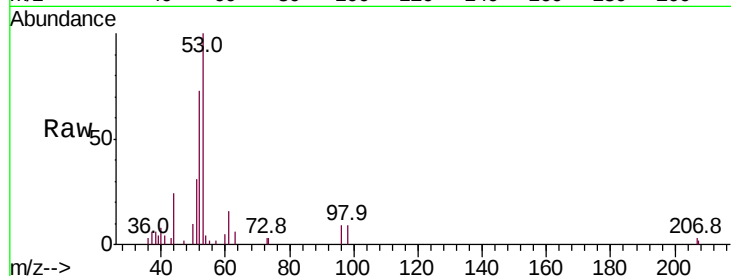
Tot Ion: 53 Resp: 5568

Ion Ratio Lower Upper

53 100

52 82.9 65.7 98.5

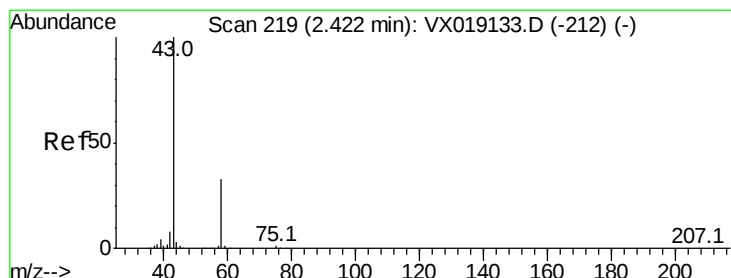
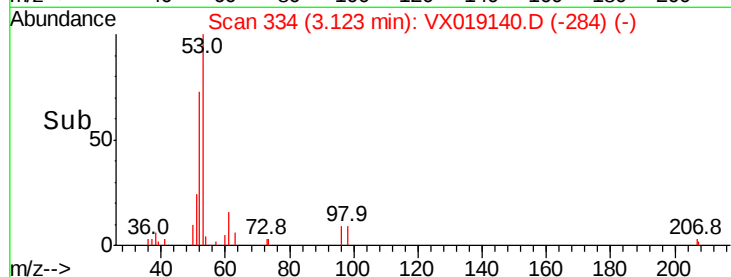
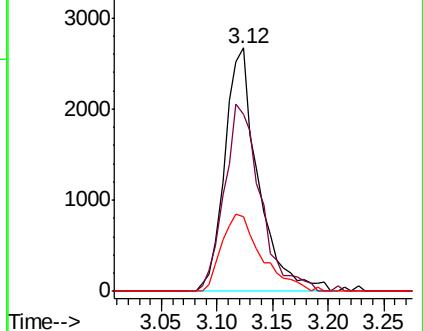
51 37.8 28.4 42.6



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 3.901 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019140.D

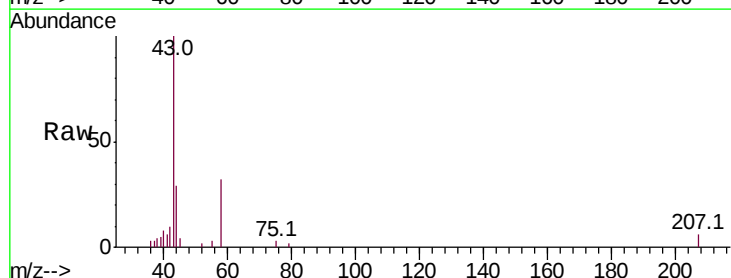
Acq: 27 Oct 2020 16:49

Tgt Ion: 43 Resp: 4859

Ion Ratio Lower Upper

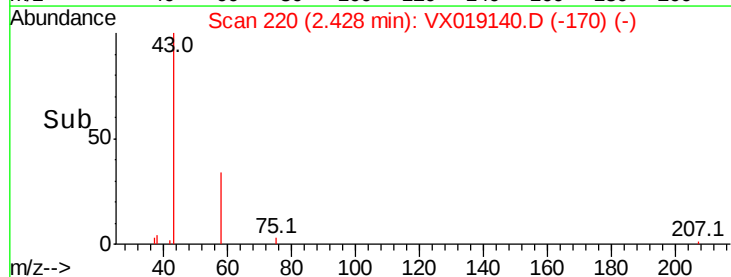
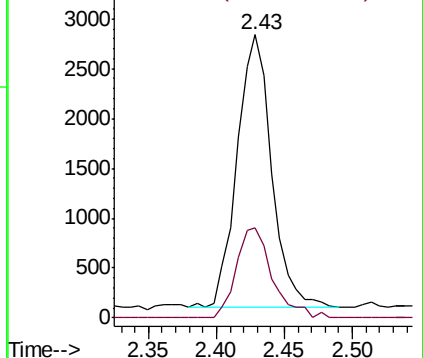
43 100

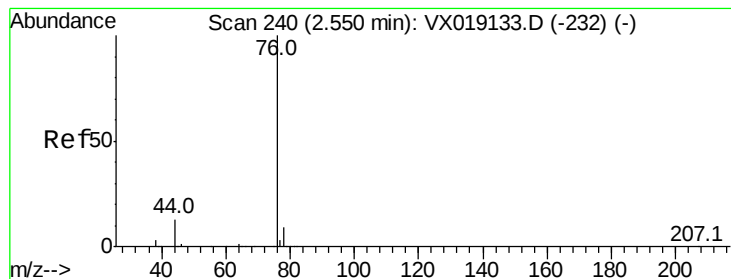
58 33.0 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.833 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

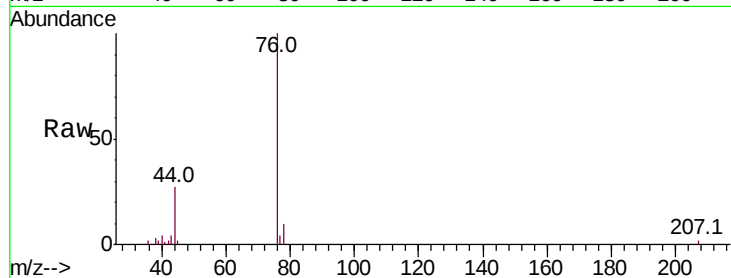
MDL-WATER-03-QT4-2020

Tot Ion: 76 Resp: 6872

Ion Ratio Lower Upper

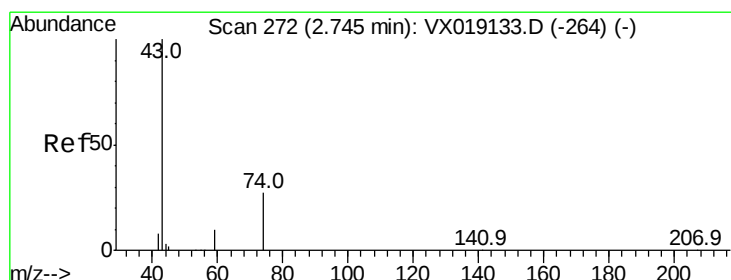
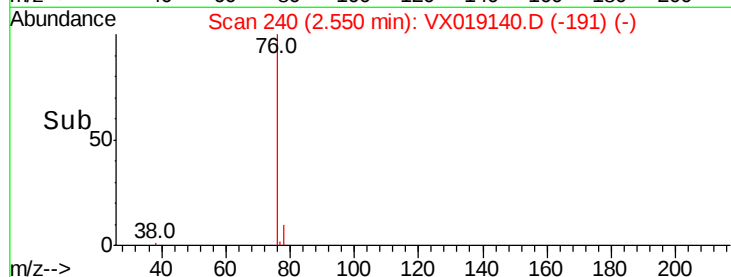
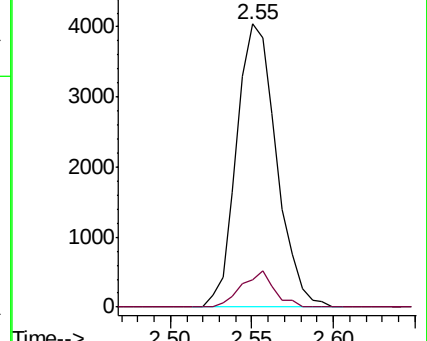
76 100

78 9.9 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.787 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019140.D

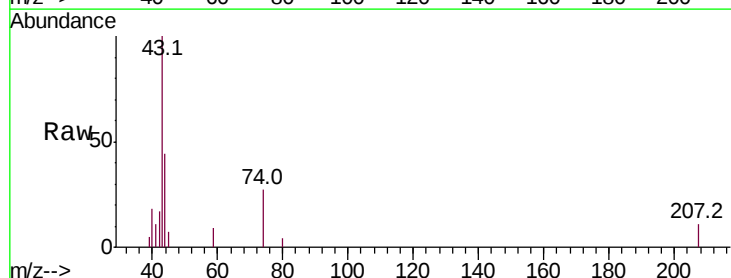
Acq: 27 Oct 2020 16:49

Tgt Ion: 43 Resp: 2384

Ion Ratio Lower Upper

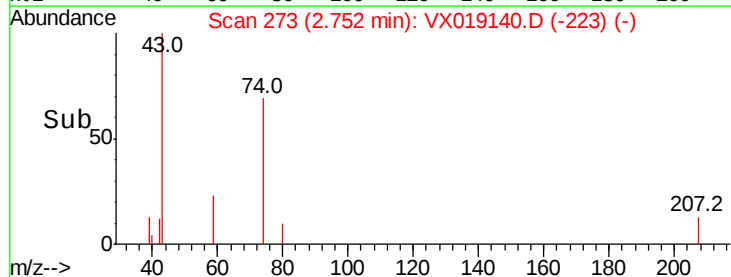
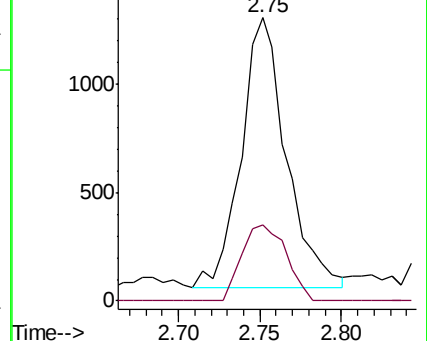
43 100

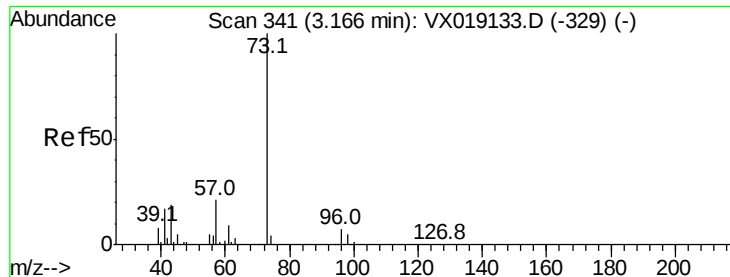
74 27.7 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

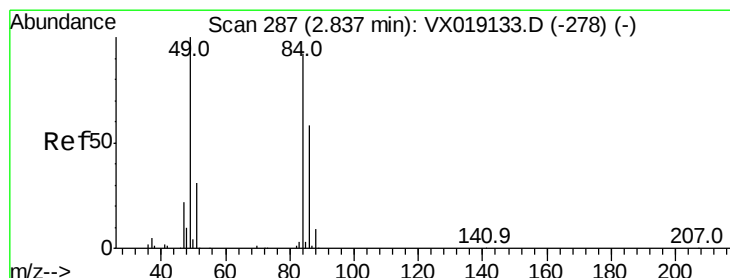
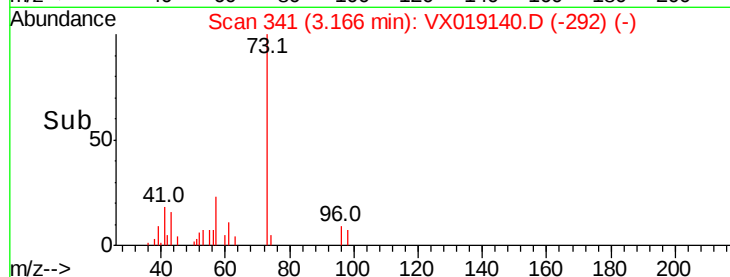
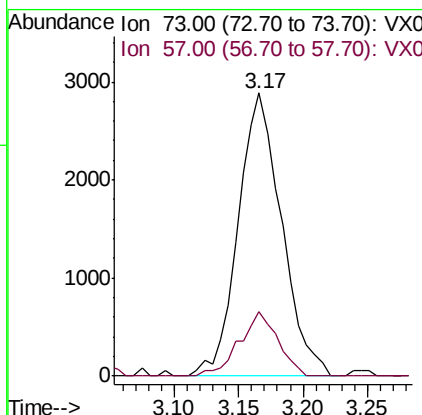
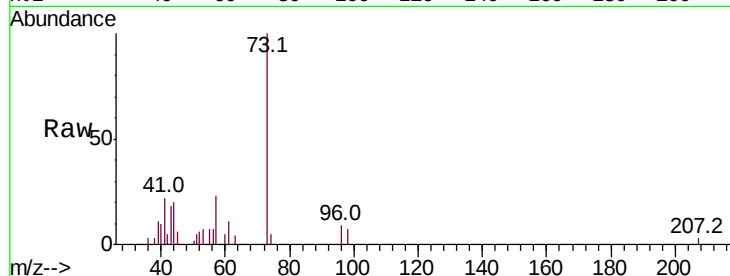




#19
Methvl tert-butvl Ether
Concen: 0.715 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

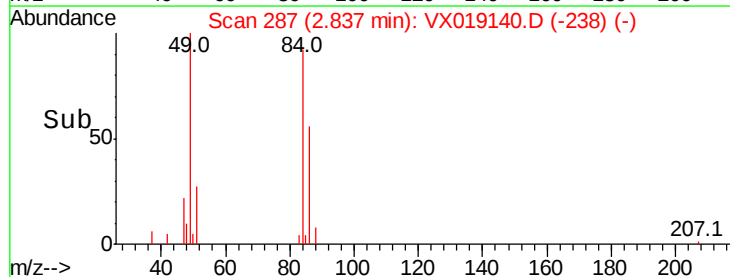
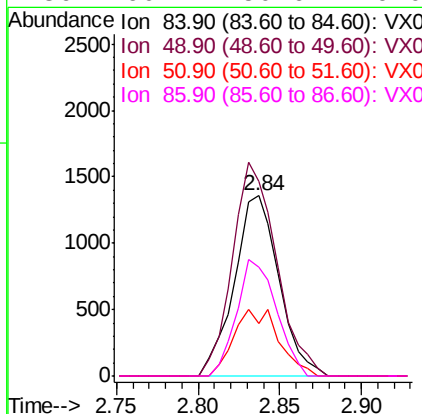
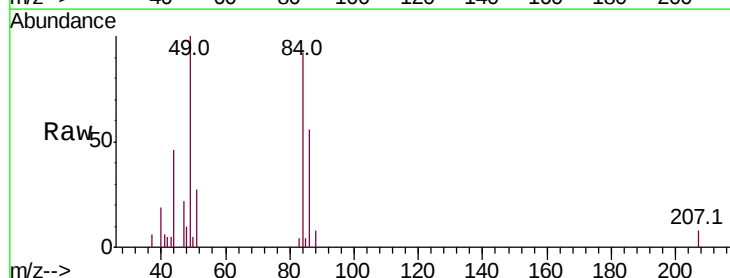
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

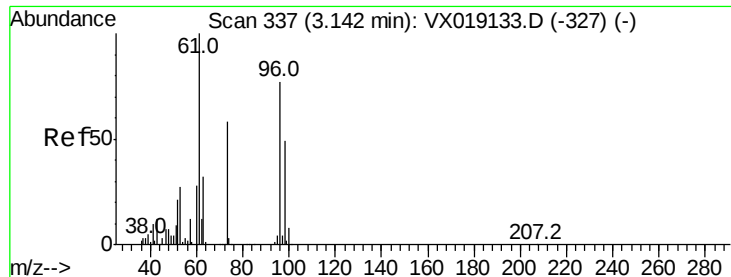
Tot Ion: 73 Resp: 6720
Ion Ratio Lower Upper
73 100
57 22.9 16.6 25.0



#20
Methylene Chloride
Concen: 0.828 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 84 Resp: 2590
Ion Ratio Lower Upper
84 100
49 108.5 86.8 130.2
51 29.4 27.3 40.9
86 60.4 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 0.737 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

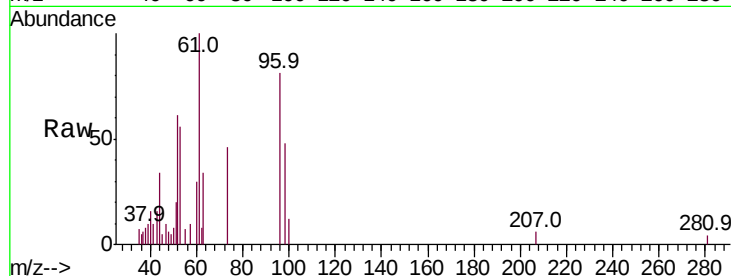
Tot Ion: 96 Resp: 2303

Ion Ratio Lower Upper

96 100

61 122.8 104.2 156.4

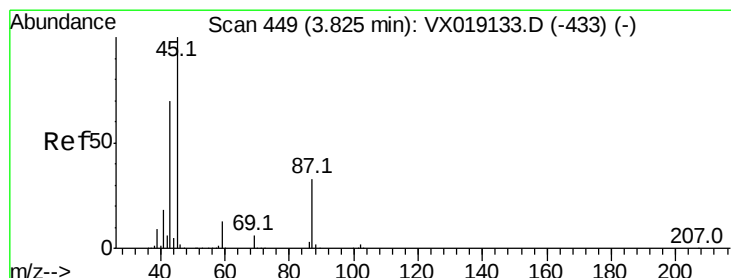
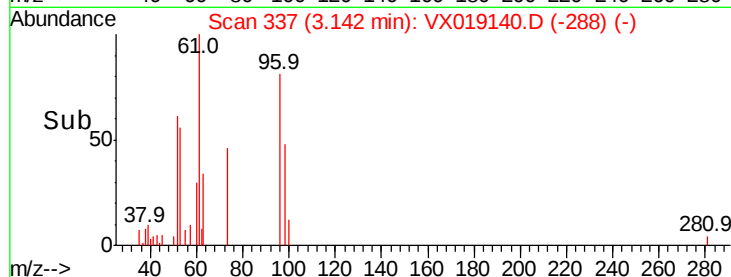
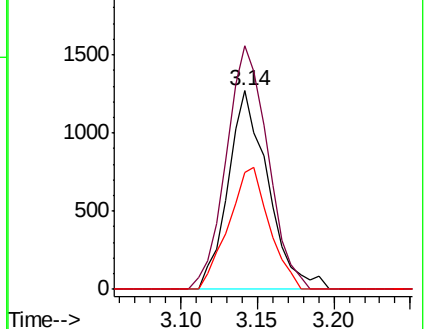
98 58.8 51.3 76.9



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 0.686 ug/l

RT: 3.82 min Scan# 448

Delta R.T. -0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Tgt Ion: 45 Resp: 5617

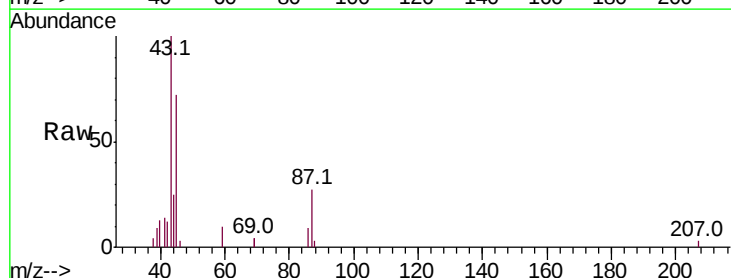
Ion Ratio Lower Upper

45 100

43 132.8 56.2 84.4#

87 37.5 26.2 39.2

59 14.4 10.1 15.1

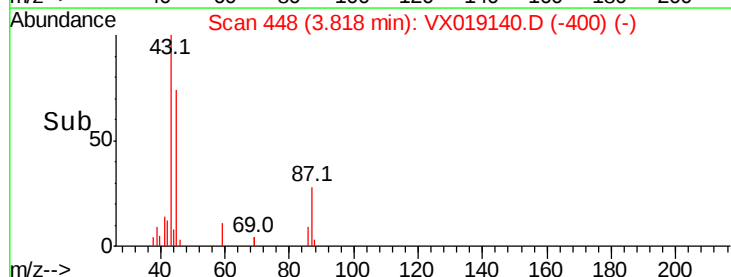
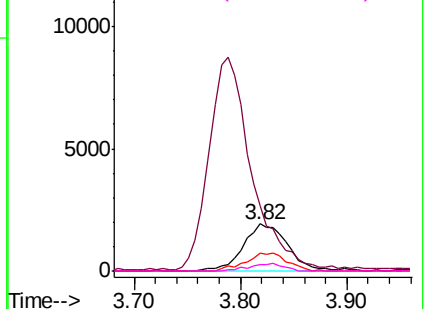


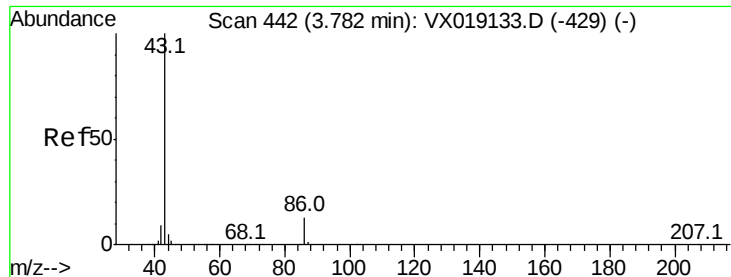
Abundance Ion 45.00 (44.70 to 45.70): VX0

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: 3.261 ug/l

RT: 3.79 min Scan# 443

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

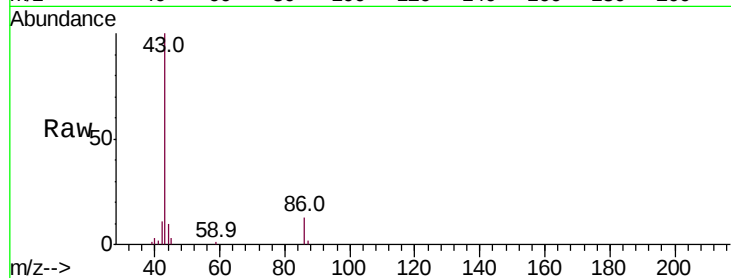
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 23825

Ion Ratio Lower Upper

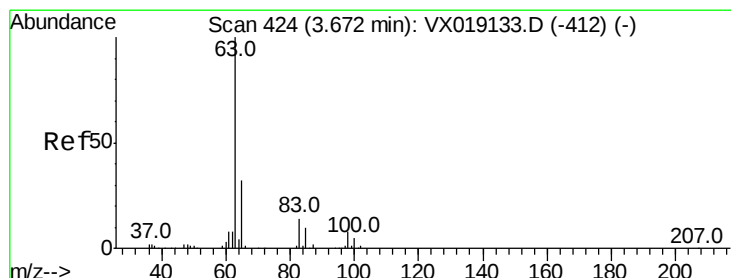
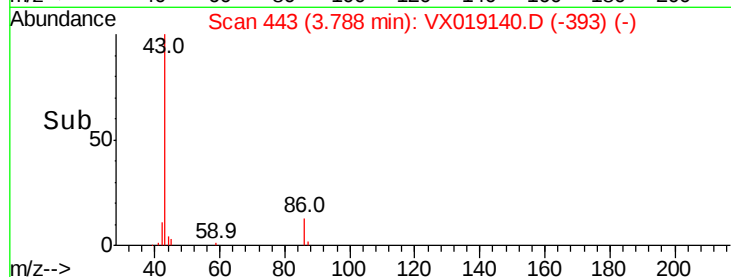
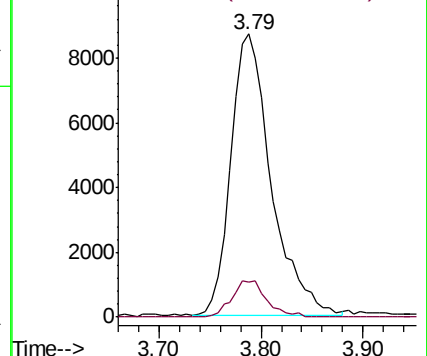
43 100

86 12.7 10.4 15.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 0.702 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

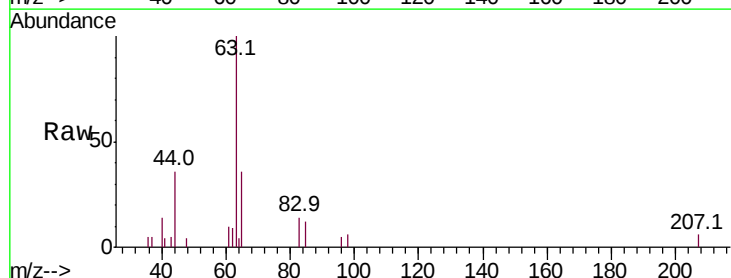
Tgt Ion: 63 Resp: 3591

Ion Ratio Lower Upper

63 100

98 6.4 3.8 11.4

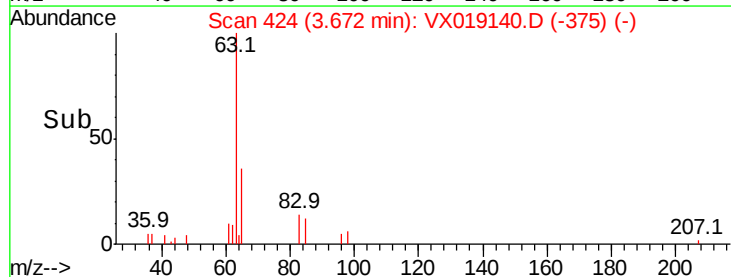
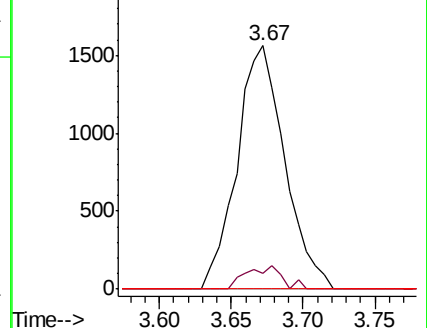
100 0.0 2.4 7.2#

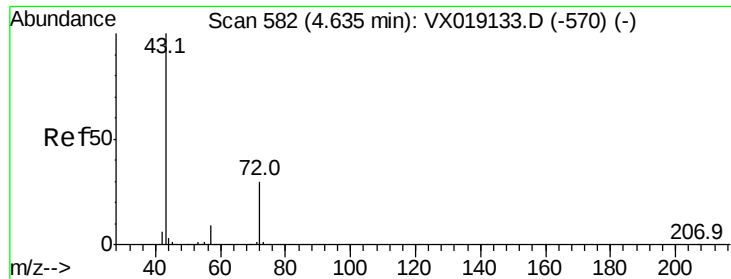


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 3.364 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

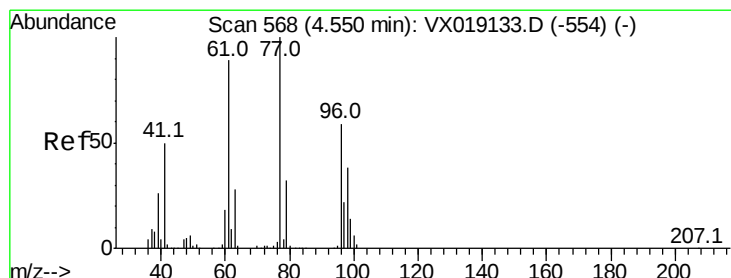
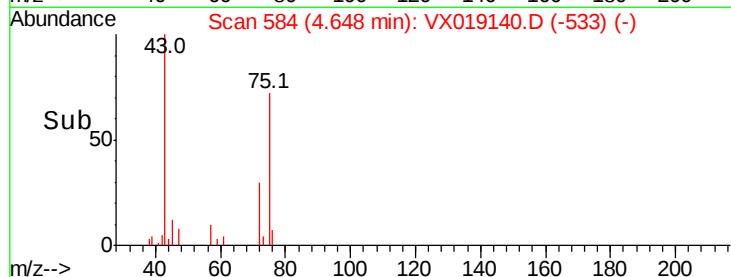
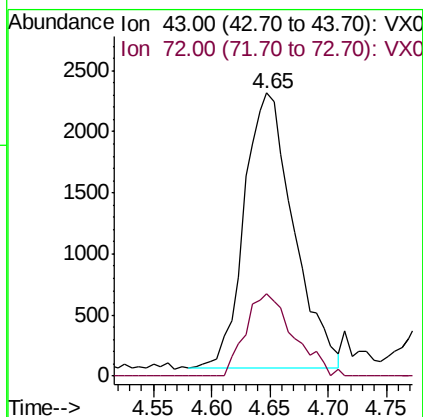
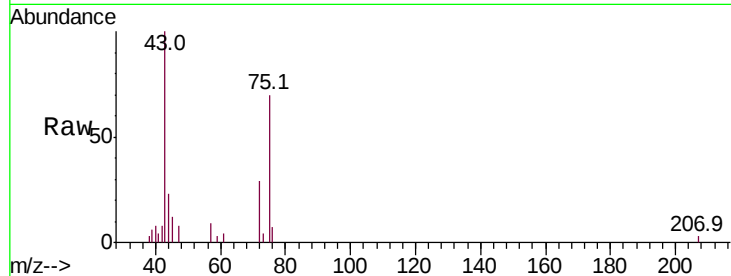
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 6603

Ion Ratio Lower Upper

43 100

72 29.9 24.6 36.8



#26

2,2-Dichloropropane

Concen: 0.687 ug/l

RT: 4.56 min Scan# 569

Delta R.T. 0.01 min

Lab File: VX019140.D

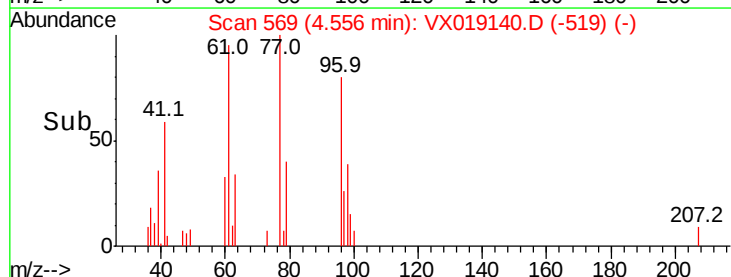
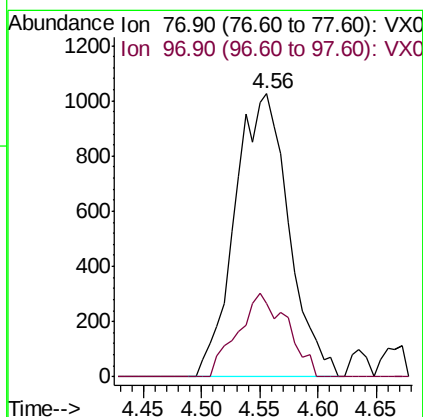
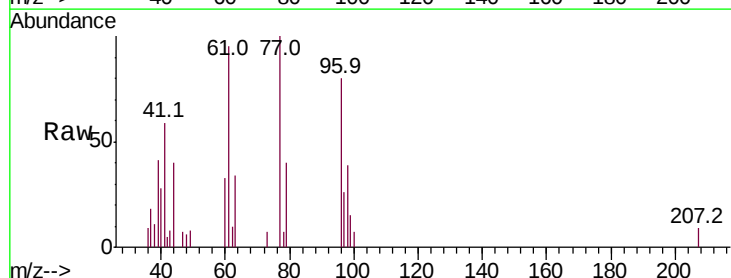
Acq: 27 Oct 2020 16:49

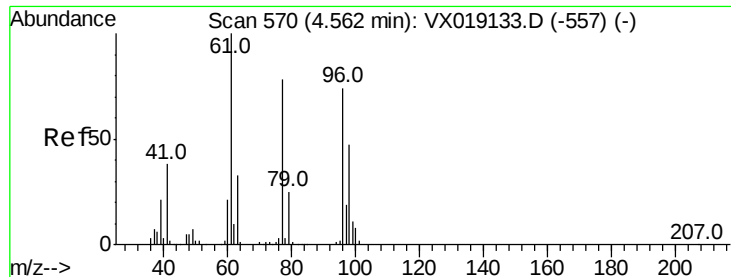
Tgt Ion: 77 Resp: 3306

Ion Ratio Lower Upper

77 100

97 27.0 11.4 34.1



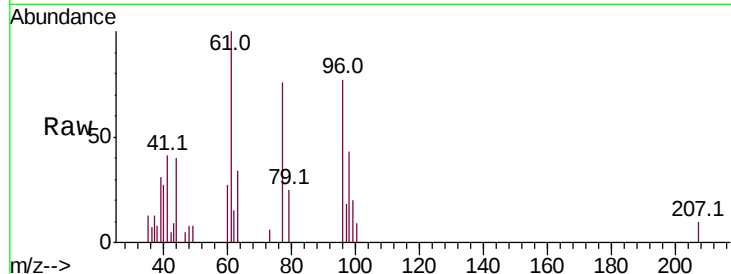


#27

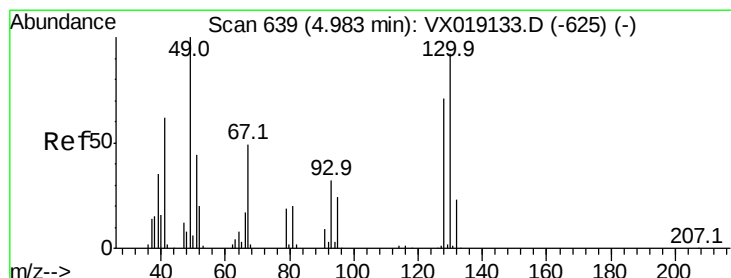
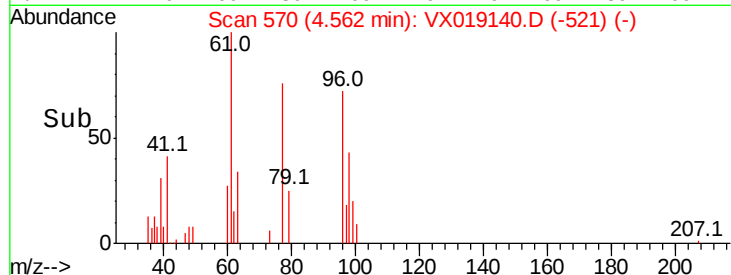
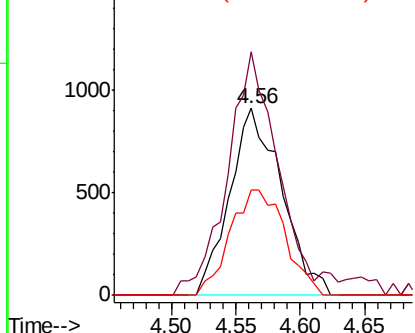
cis-1,2-Dichloroethene
Concen: 0.732 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

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

Tot Ion: 96 Resp: 2555
Ion Ratio Lower Upper
96 100
61 128.9 0.0 278.8
98 59.5 0.0 130.2



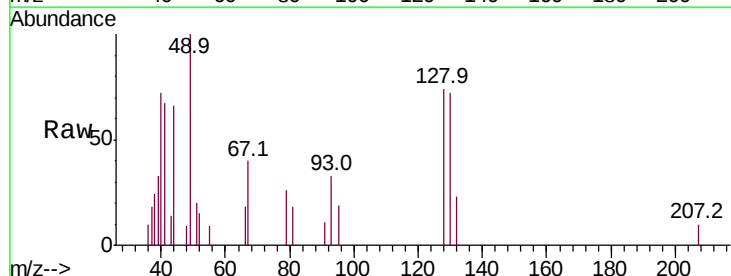
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



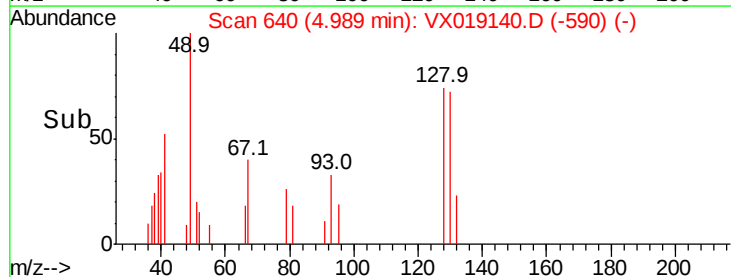
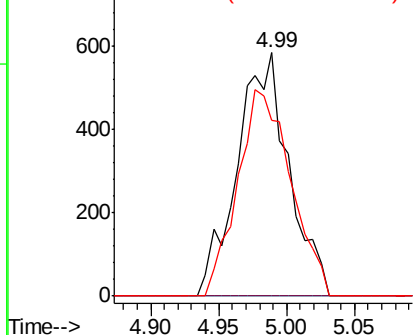
#28

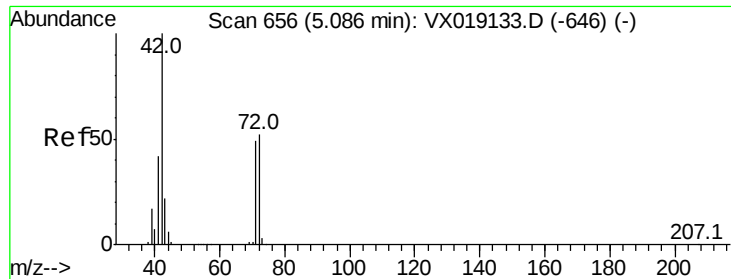
Bromochloromethane
Concen: 0.664 ug/l
RT: 4.99 min Scan# 640
Delta R.T. 0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 49 Resp: 1544
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 87.6 71.3 106.9



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

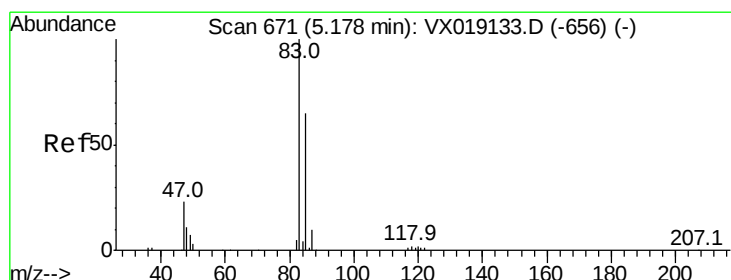
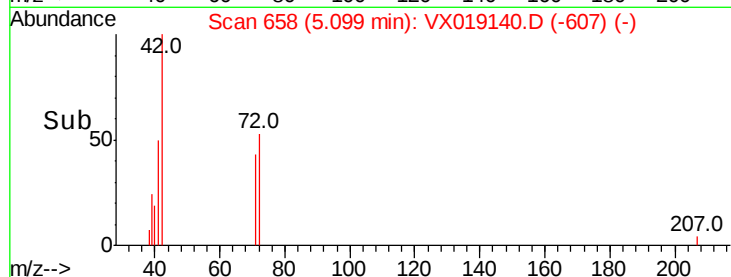
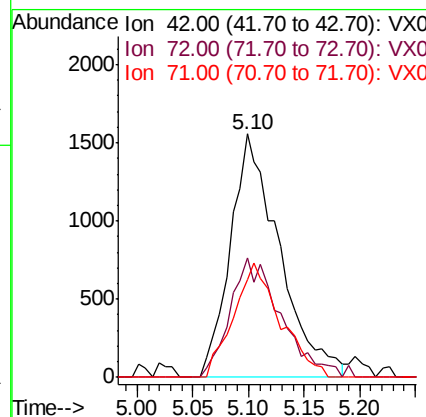
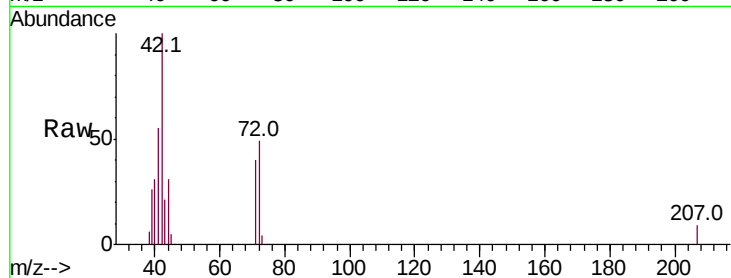




#29
Tetrahydrofuran
Concen: 3.855 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

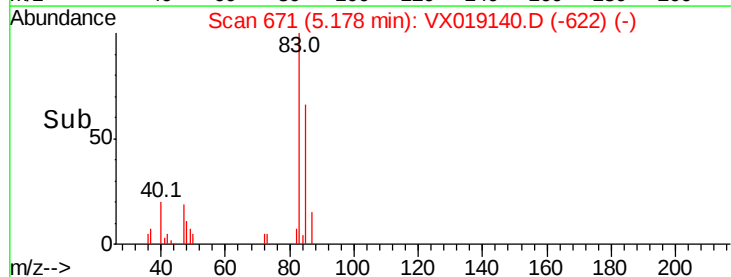
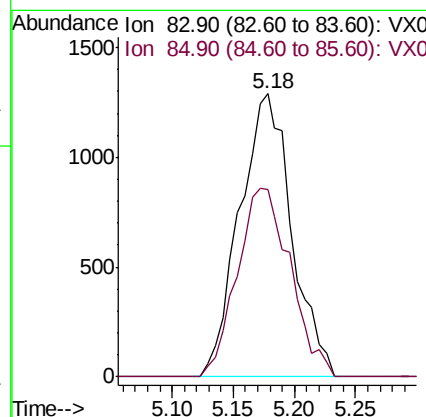
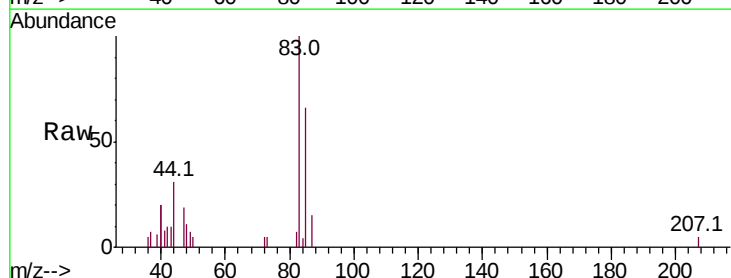
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

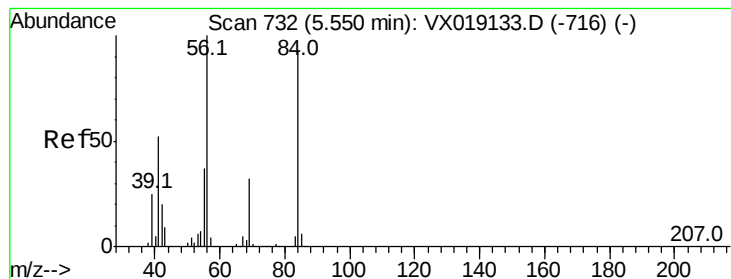
Tot Ion: 42 Resp: 4769
Ion Ratio Lower Upper
42 100
72 50.9 42.6 63.8
71 44.6 39.7 59.5



#30
Chloroform
Concen: 0.701 ug/l
RT: 5.18 min Scan# 671
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 83 Resp: 3816
Ion Ratio Lower Upper
83 100
85 66.4 51.9 77.9





#31

Cvclohexane

Concen: 0.664 ug/l

RT: 5.54 min Scan# 731

Delta R.T. -0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

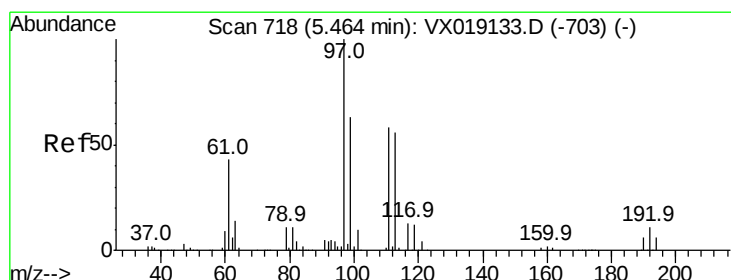
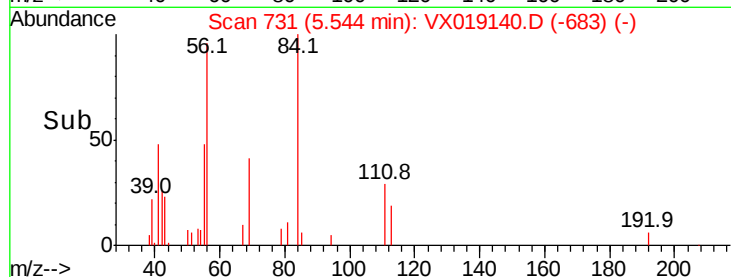
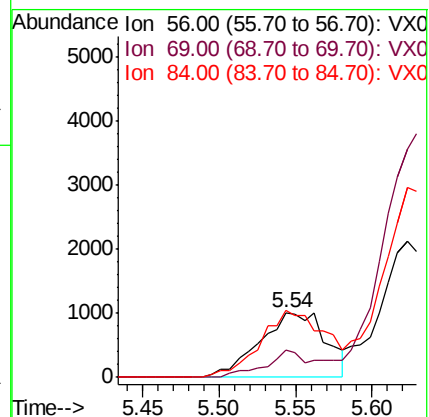
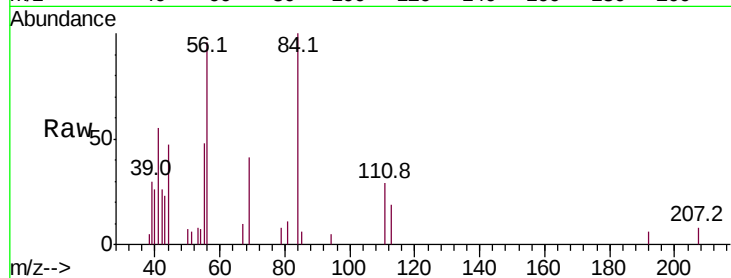
Tot Ion: 56 Resp: 3030

Ion Ratio Lower Upper

56 100

69 42.8 25.9 38.9#

84 104.1 73.4 110.2



#32

1,1,1-Trichloroethane

Concen: 0.691 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

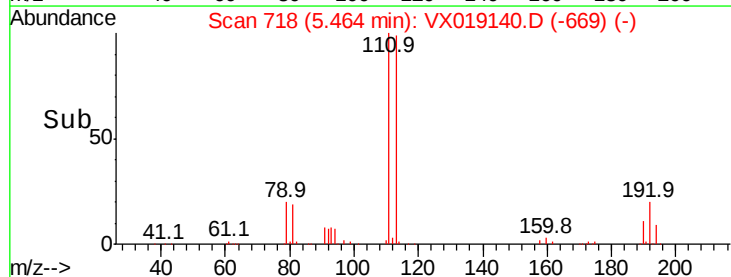
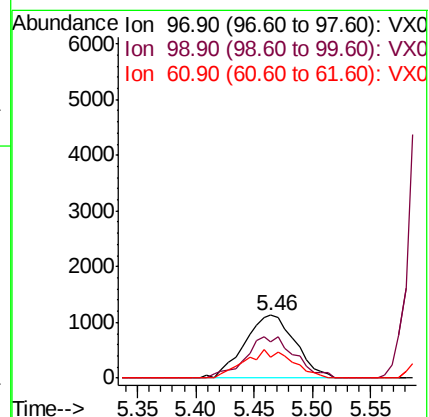
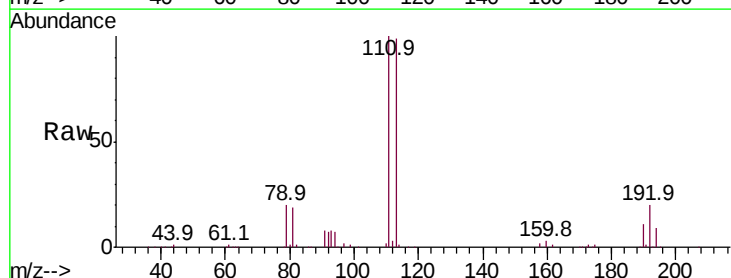
Tgt Ion: 97 Resp: 3410

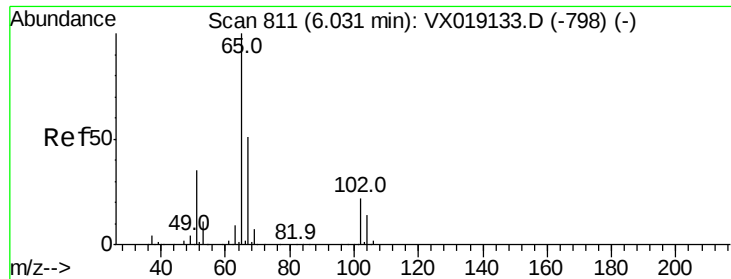
Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5#

61 42.6 34.2 51.2





#33

1,2-Dichloroethane-d4

Concen: 49.361 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

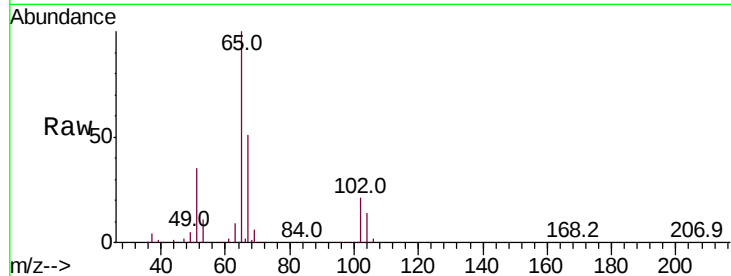
MDL-WATER-03-QT4-2020

Tot Ion: 65 Resp: 178219

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

60000

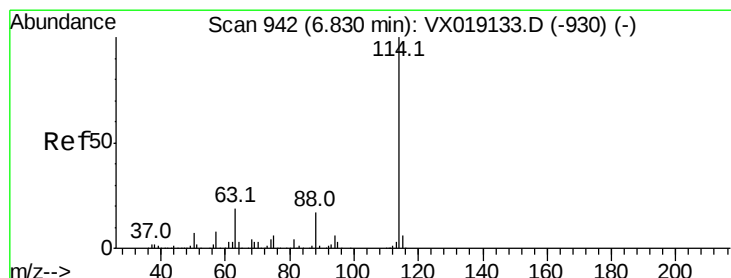
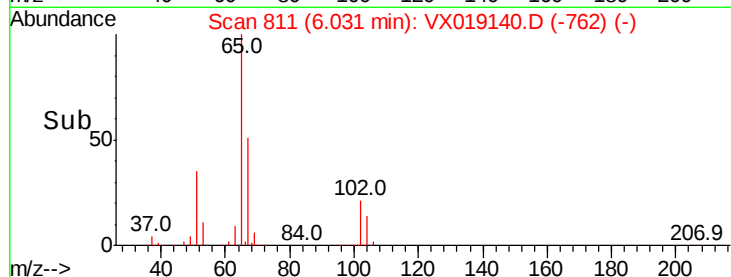
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

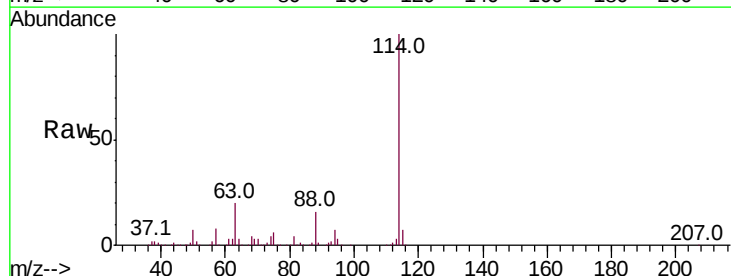
Tgt Ion:114 Resp: 462149

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.8

88 15.5 0.0 34.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

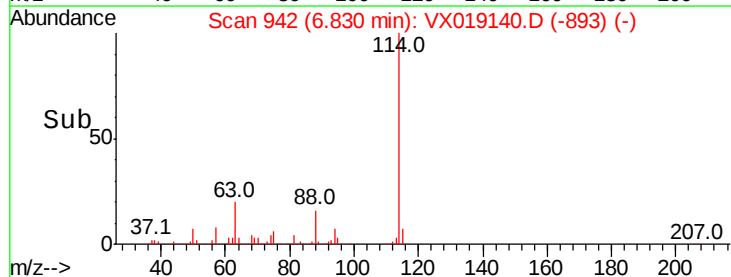
100000

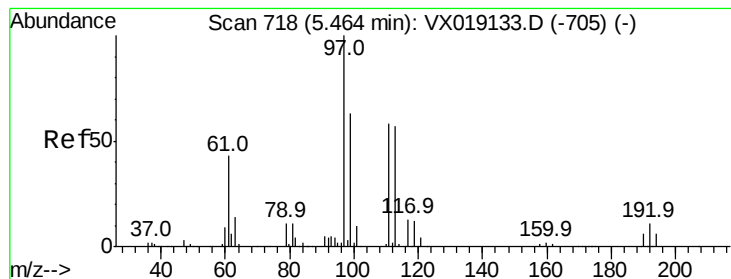
50000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 48.432 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

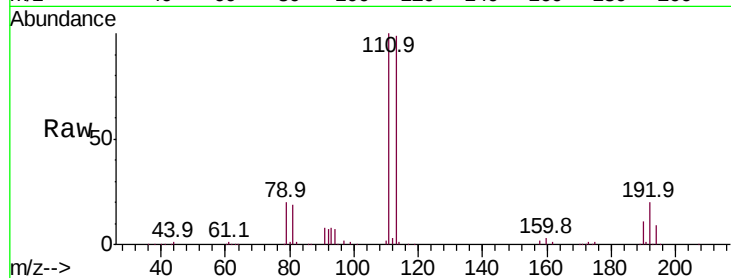
Tot Ion:113 Resp: 140594

Ion Ratio Lower Upper

113 100

111 102.2 82.3 123.5

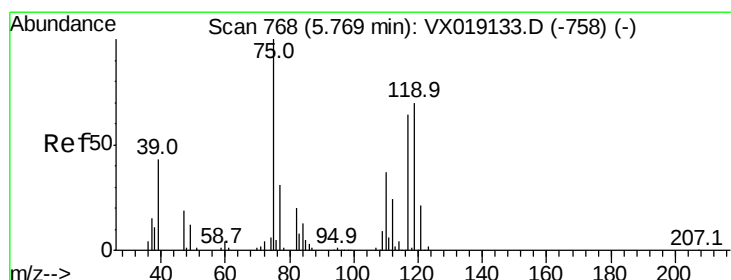
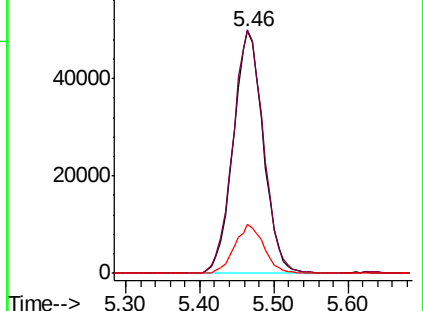
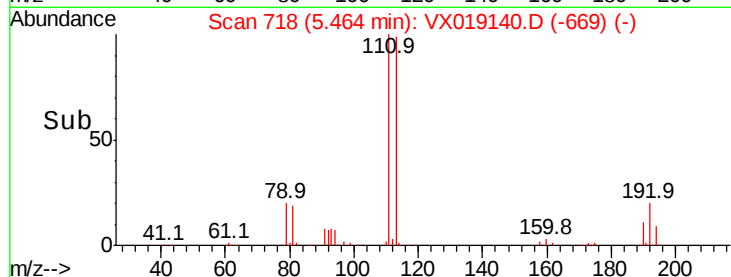
192 19.6 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 0.745 ug/l

RT: 5.78 min Scan# 769

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

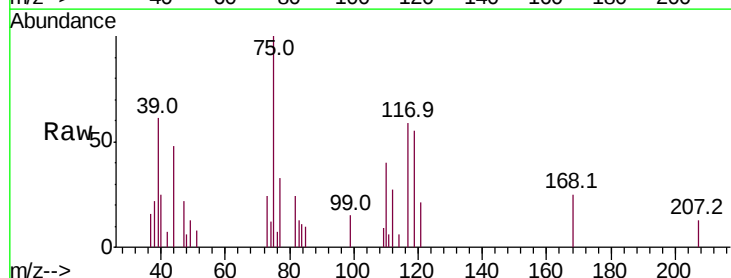
Tgt Ion: 75 Resp: 3180

Ion Ratio Lower Upper

75 100

110 37.5 18.3 54.9

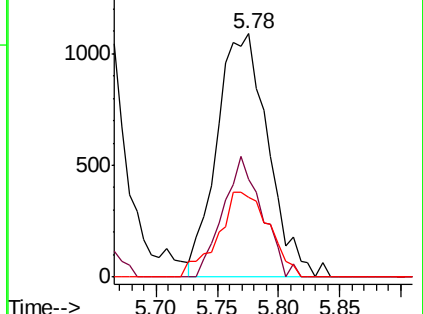
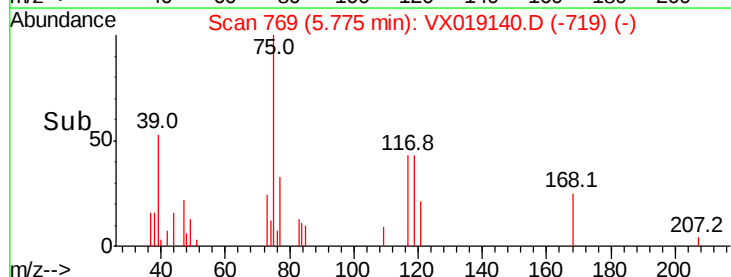
77 34.2 24.9 37.3

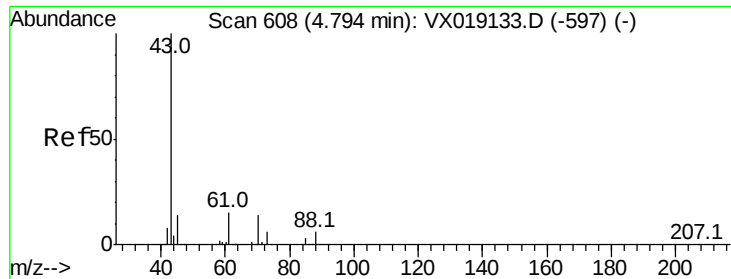


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

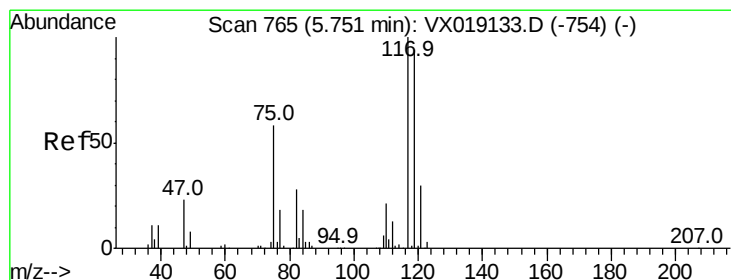
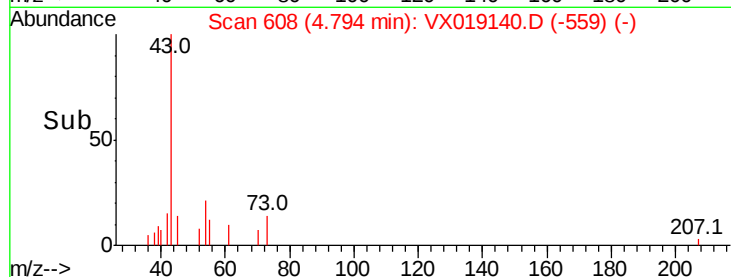
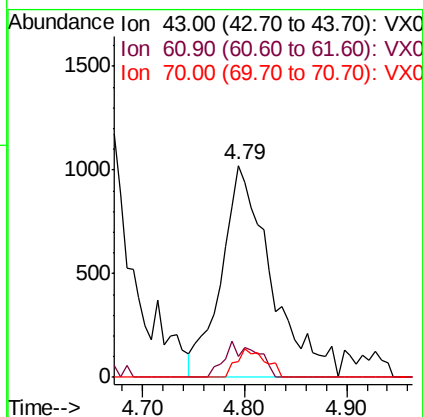
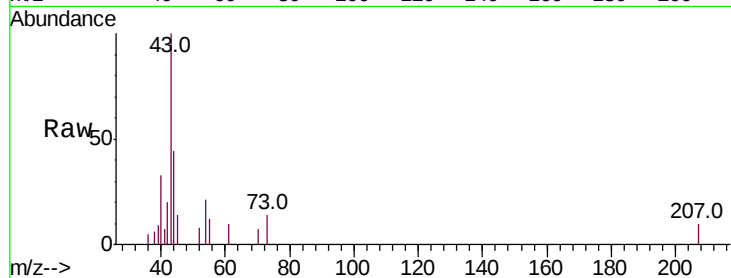




#37
Ethyl Acetate
Concen: 0.877 ug/l
RT: 4.79 min Scan# 608
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

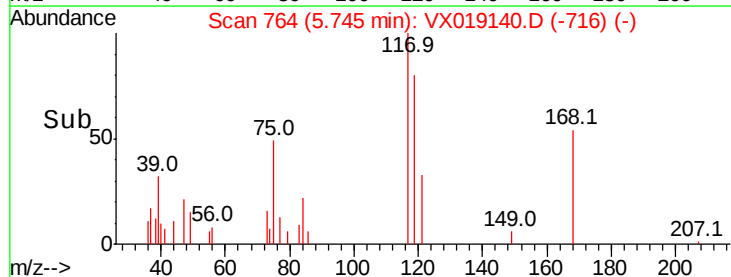
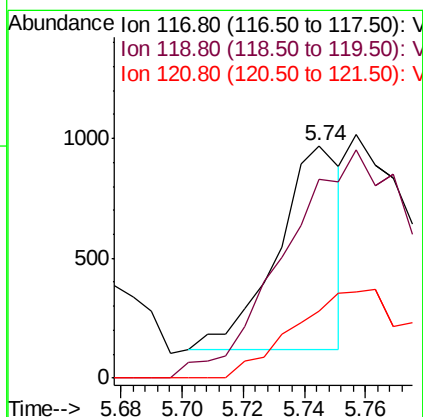
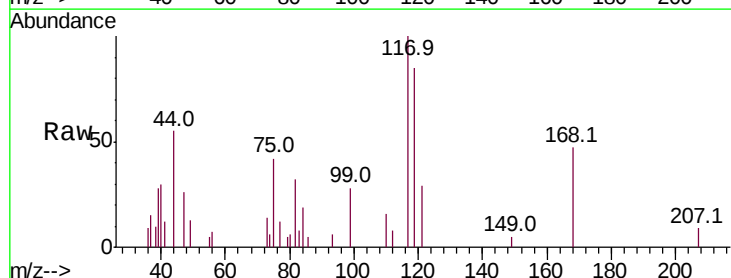
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

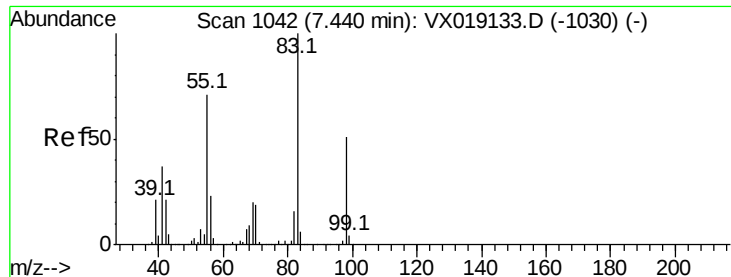
Tot Ion: 43 Resp: 3474
Ion Ratio Lower Upper
43 100
61 11.0 12.5 18.7#
70 7.7 10.5 15.7#



#38
Carbon Tetrachloride
Concen: 0.288 ug/l
RT: 5.74 min Scan# 764
Delta R.T. -0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 117 Resp: 1251
Ion Ratio Lower Upper
117 100
119 89.4 75.0 112.6
121 33.1 23.9 35.9

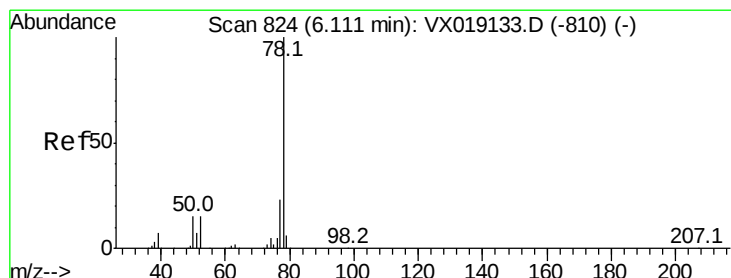
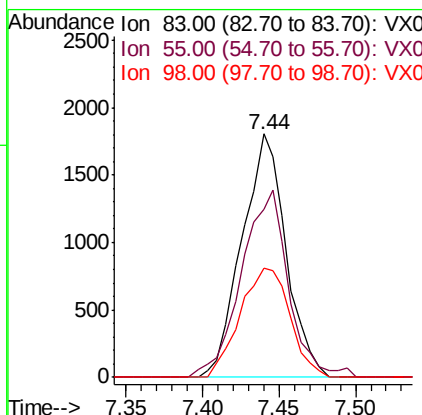
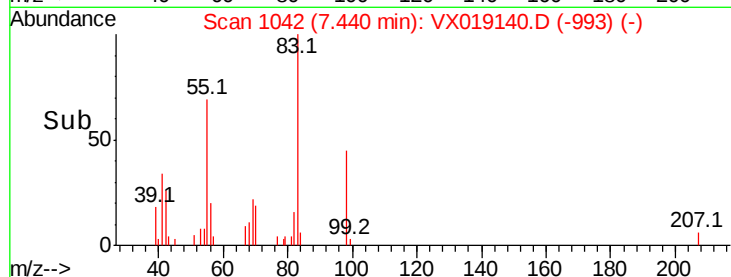
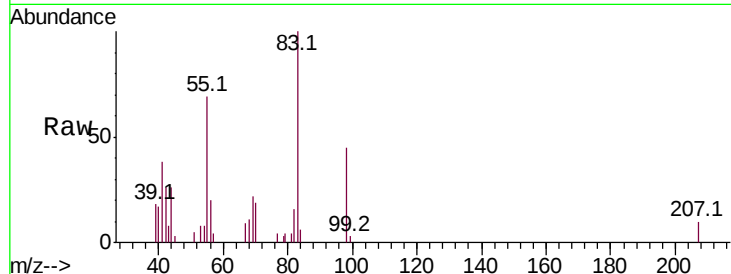




#39
Methvlcvclohexane
Concen: 0.707 ug/l
RT: 7.44 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

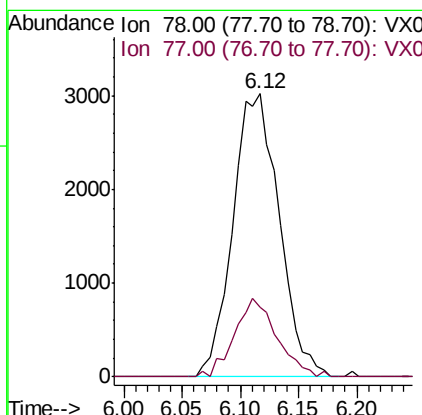
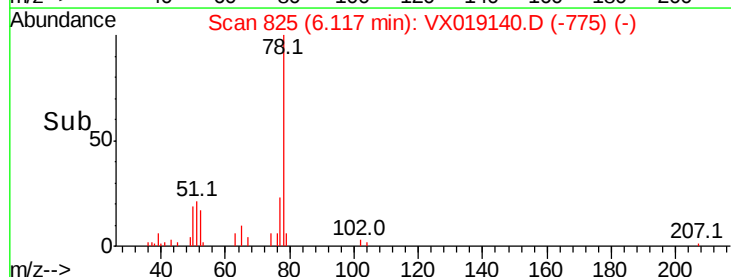
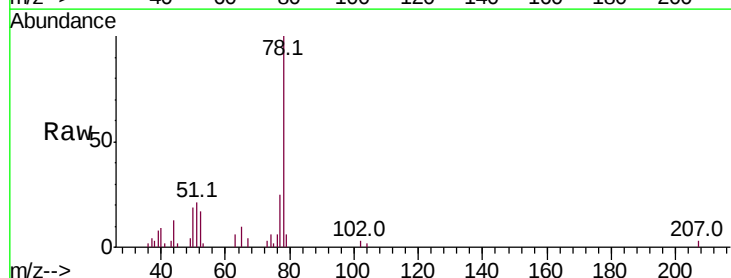
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

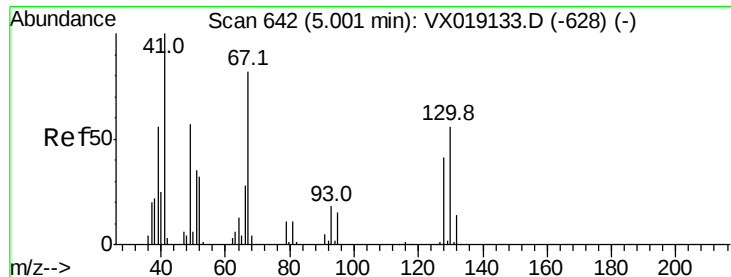
Tot Ion: 83 Resp: 3607
Ion Ratio Lower Upper
83 100
55 68.8 57.0 85.6
98 44.8 40.5 60.7



#40
Benzene
Concen: 0.691 ug/l
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 78 Resp: 8361
Ion Ratio Lower Upper
78 100
77 24.6 18.7 28.1

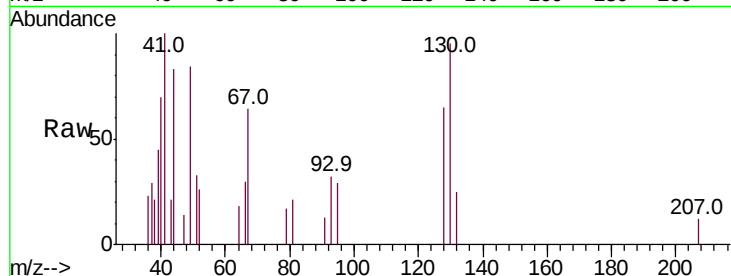




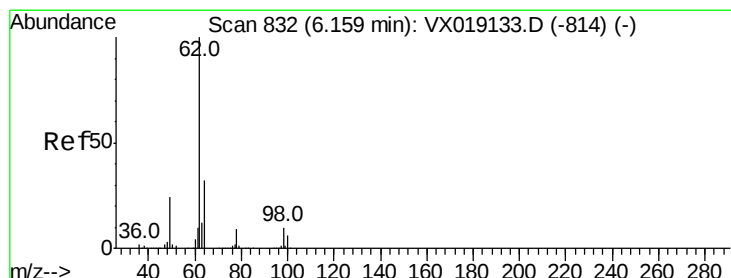
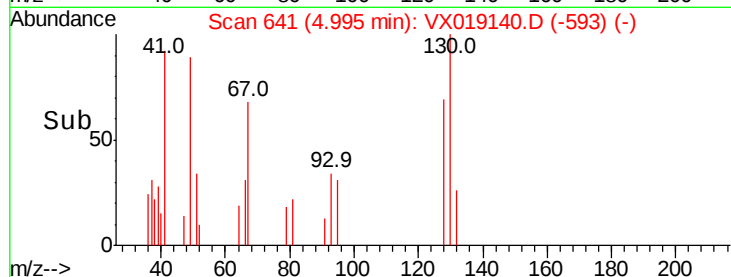
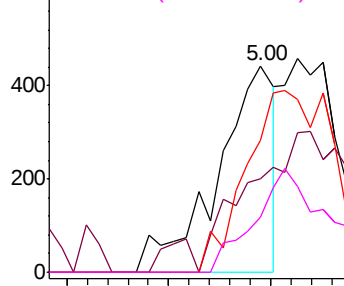
#41
Methacrylonitrile
Concen: 0.406 ug/l
RT: 5.00 min Scan# 641
Delta R.T. -0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

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

Tot Ion: 41 Resp: 867
Ion Ratio Lower Upper
41 100
39 0.0 44.4 66.6#
67 0.0 66.4 99.6#
52 0.0 26.2 39.4#

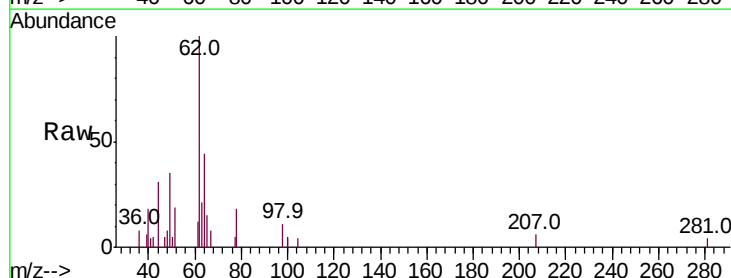


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

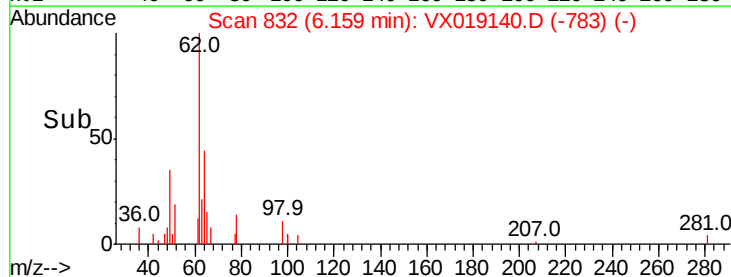
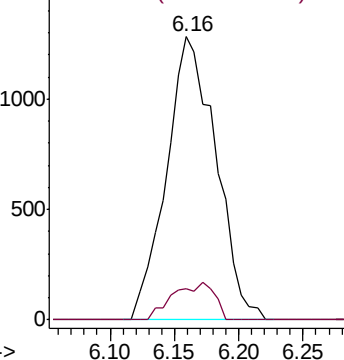


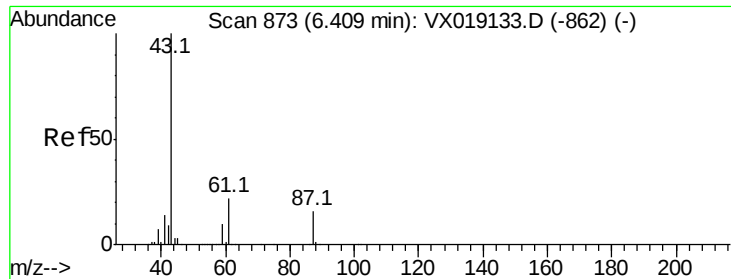
#42
1,2-Dichloroethane
Concen: 0.769 ug/l
RT: 6.16 min Scan# 832
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 62 Resp: 3429
Ion Ratio Lower Upper
62 100
98 11.0 0.0 19.0



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





#43

Isopropyl Acetate

Concen: 0.753 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

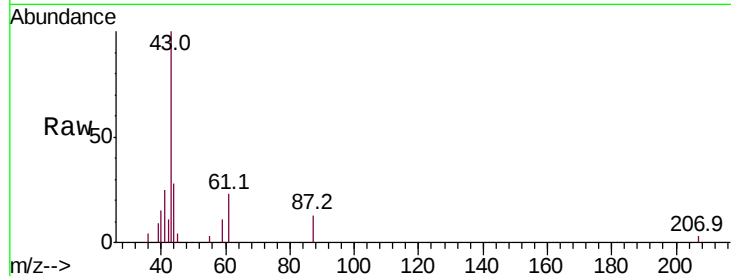
Tot Ion: 43 Resp: 4993

Ion Ratio Lower Upper

43 100

61 20.7 17.8 26.6

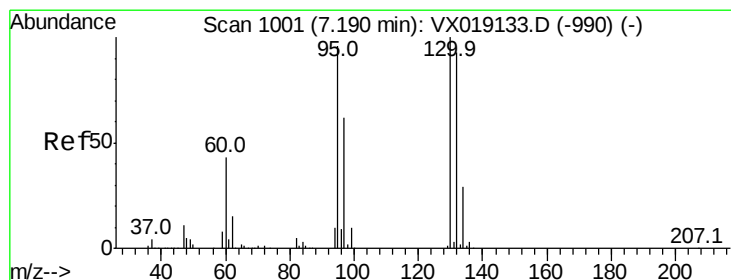
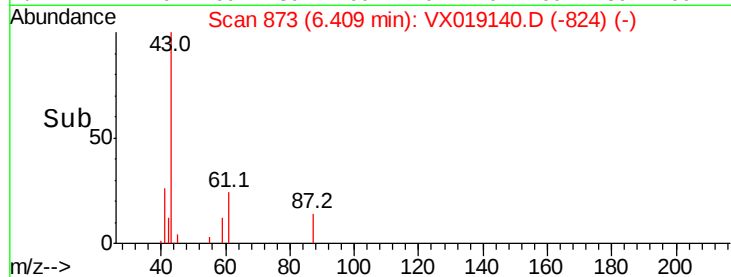
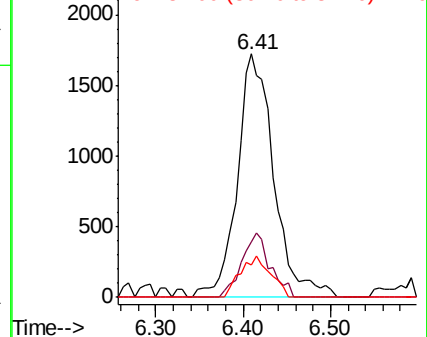
87 14.1 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#44

Trichloroethene

Concen: 0.750 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX019140.D

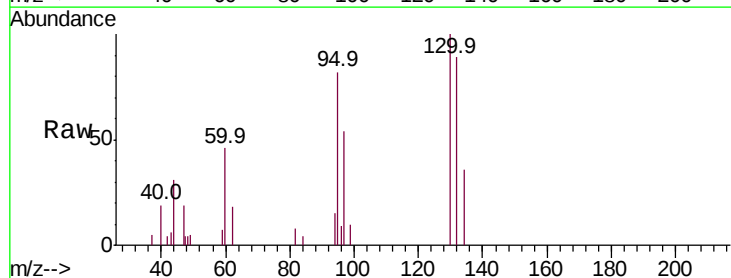
Acq: 27 Oct 2020 16:49

Tgt Ion: 130 Resp: 2600

Ion Ratio Lower Upper

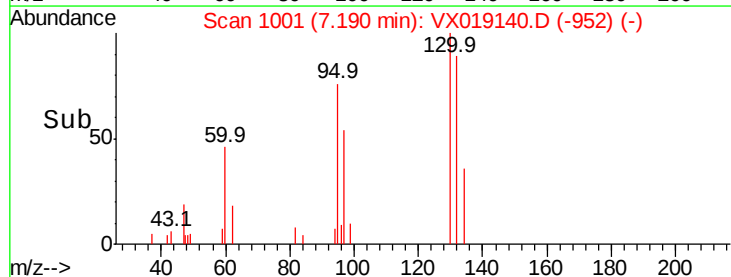
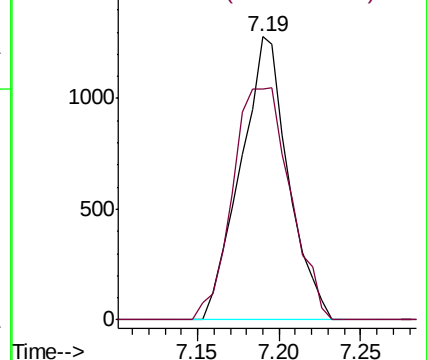
130 100

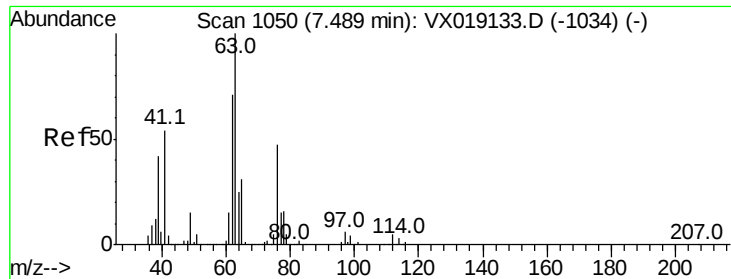
95 81.7 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#45

1,2-Dichloropropane

Concen: 0.677 ug/l

RT: 7.49 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

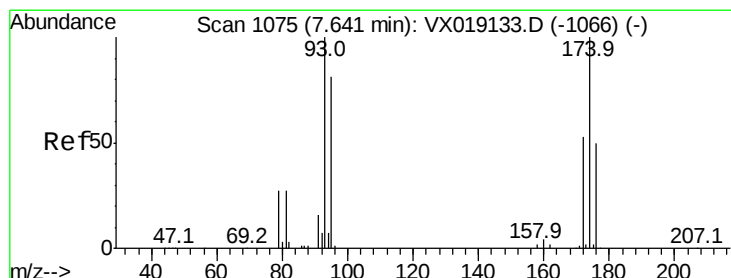
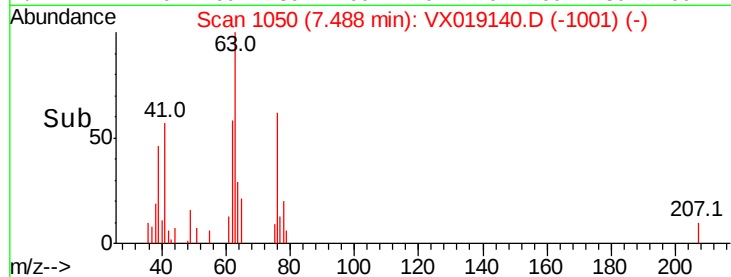
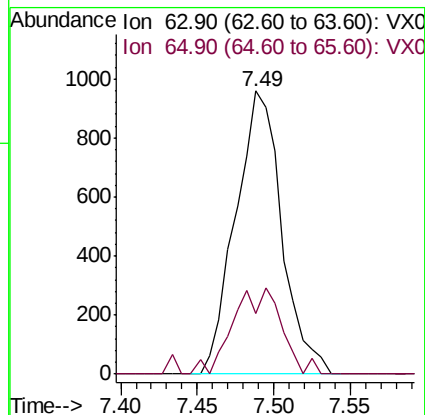
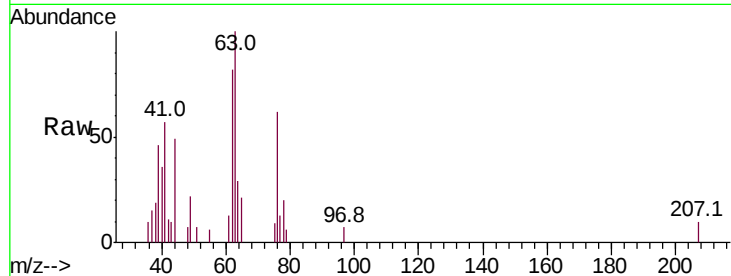
MDL-WATER-03-QT4-2020

Tot Ion: 63 Resp: 2007

Ion Ratio Lower Upper

63 100

65 21.3 25.2 37.8#



#46

Dibromomethane

Concen: 0.713 ug/l

RT: 7.64 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

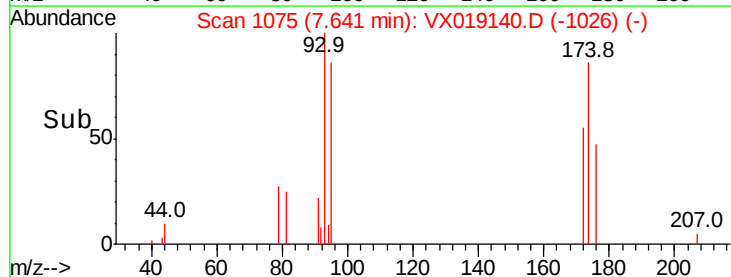
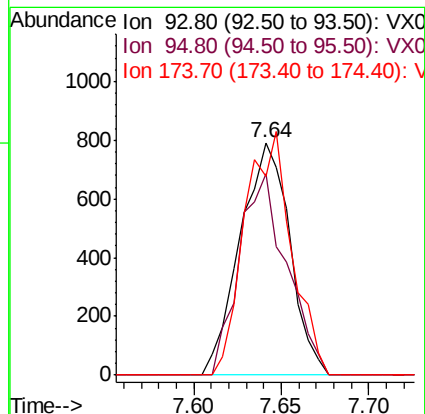
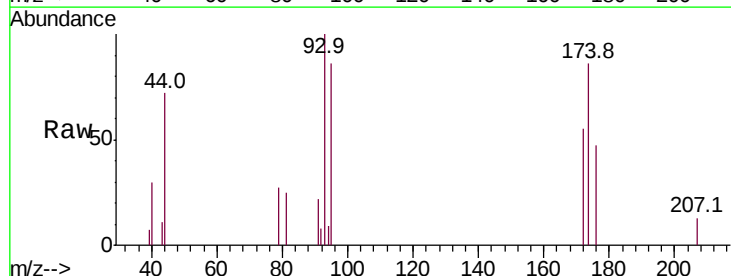
Tgt Ion: 93 Resp: 1563

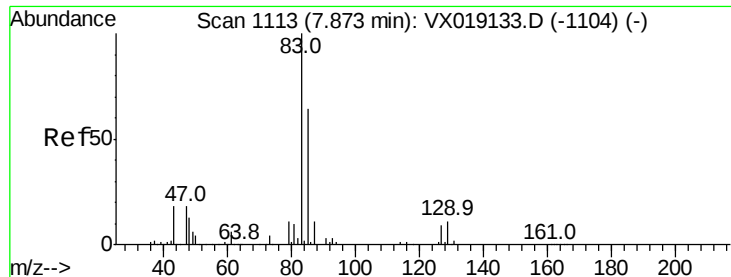
Ion Ratio Lower Upper

93 100

95 83.0 67.0 100.6

174 98.7 81.7 122.5





#47

Bromodichloromethane

Concen: 0.669 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

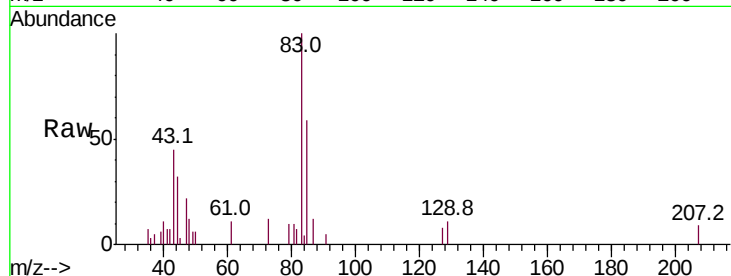
Tot Ion: 83 Resp: 2888

Ion Ratio Lower Upper

83 100

85 58.8 51.2 76.8

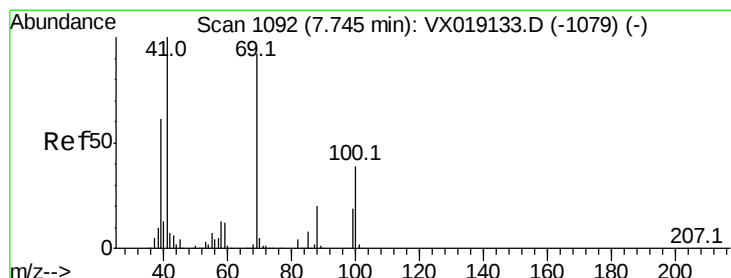
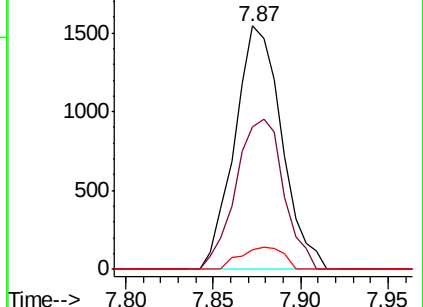
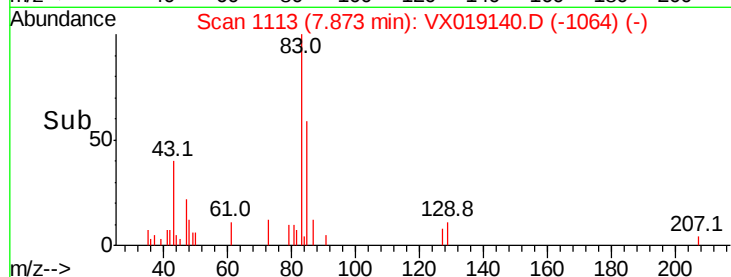
127 8.1 7.1 10.7



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 0.723 ug/l

RT: 7.75 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

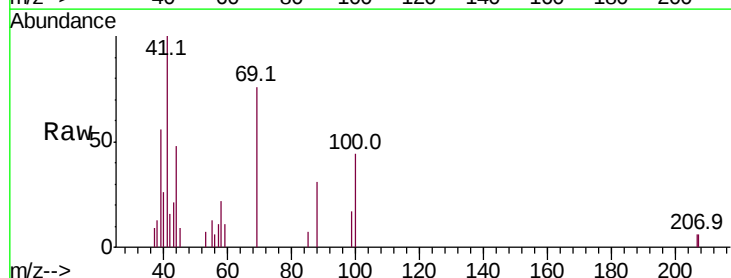
Tgt Ion: 41 Resp: 2309

Ion Ratio Lower Upper

41 100

69 88.8 75.5 113.3

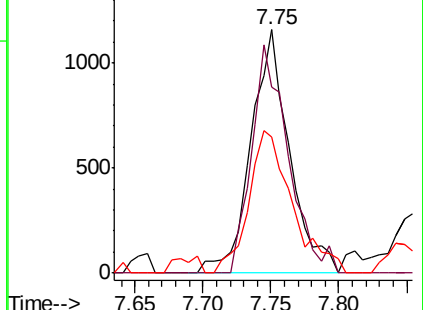
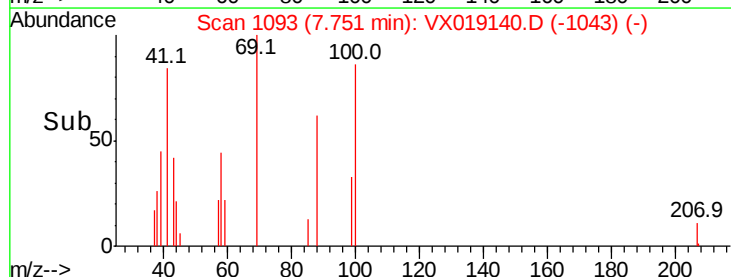
39 65.8 48.9 73.3

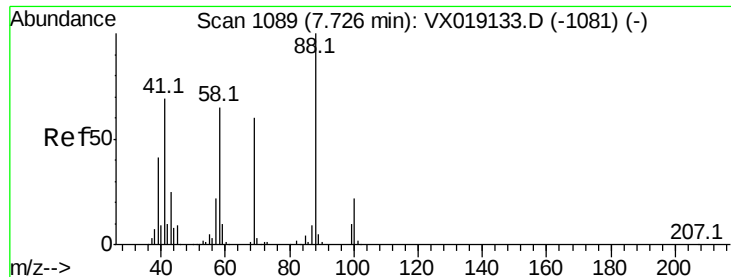


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

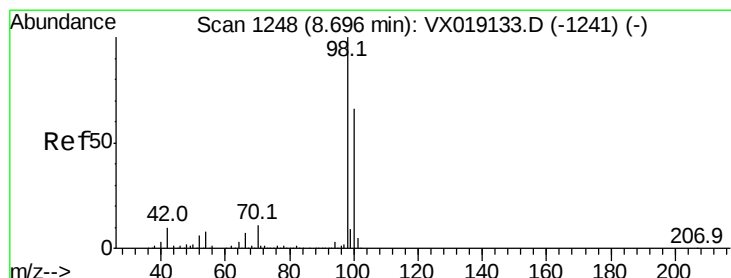
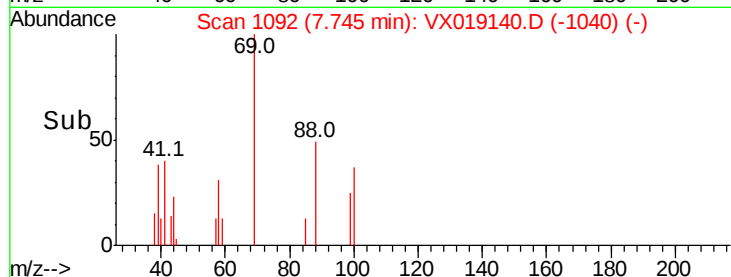
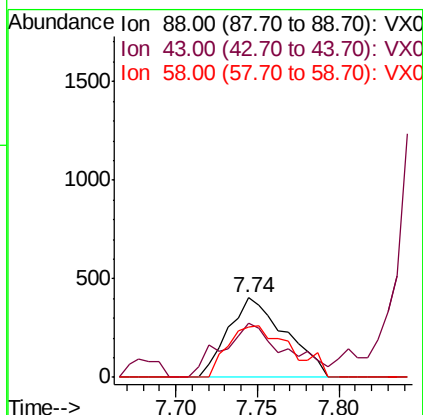
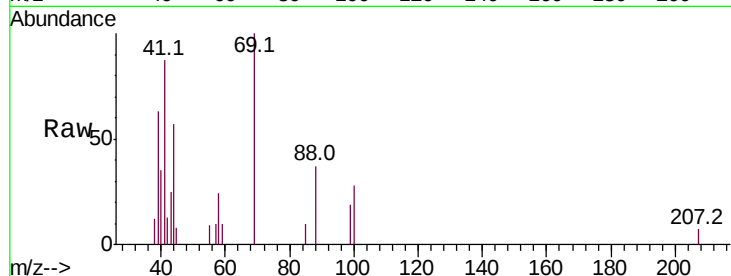




#49
1,4-Dioxane
Concen: 13.969 ug/l
RT: 7.74 min Scan# 1092
Delta R.T. 0.02 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

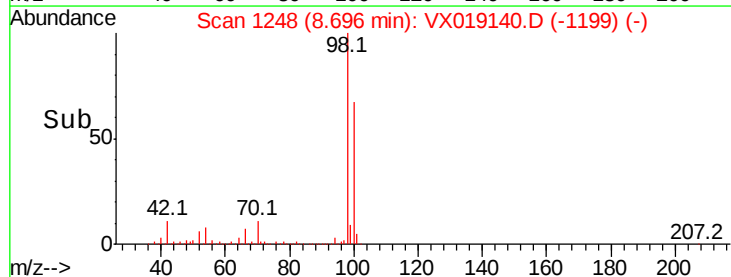
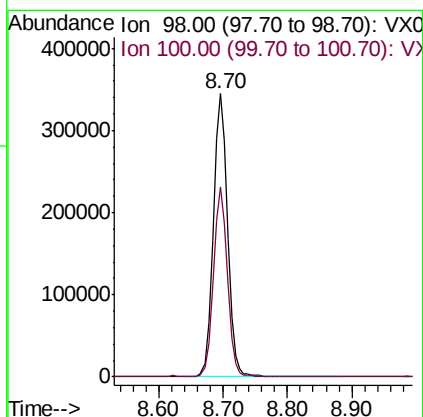
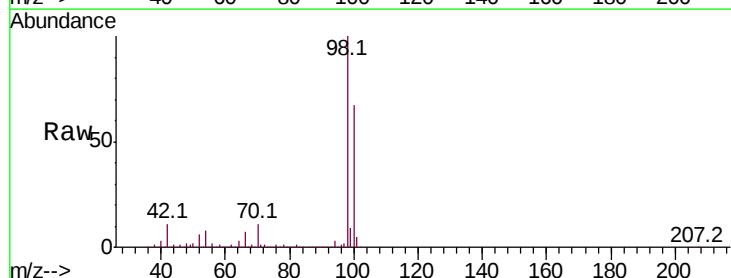
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

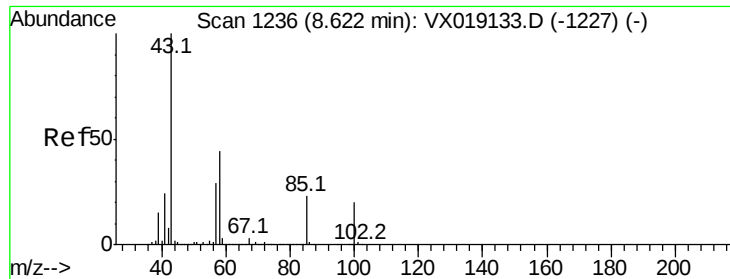
Tot Ion: 88 Resp: 992
Ion Ratio Lower Upper
88 100
43 76.0 23.0 34.6#
58 70.2 52.2 78.2



#50
Toluene-d8
Concen: 49.119 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 98 Resp: 537512
Ion Ratio Lower Upper
98 100
100 65.8 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 3.492 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

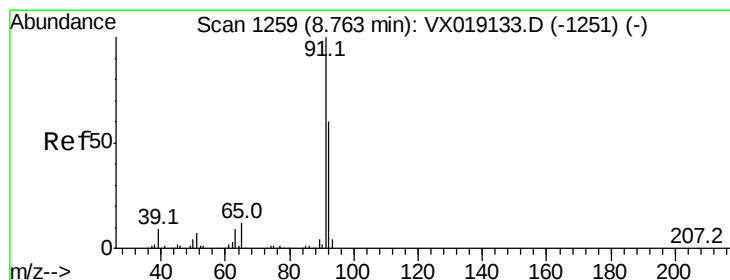
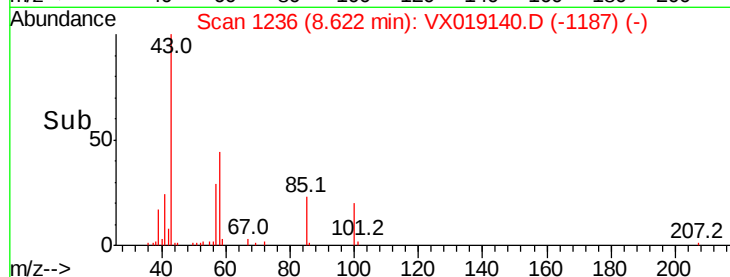
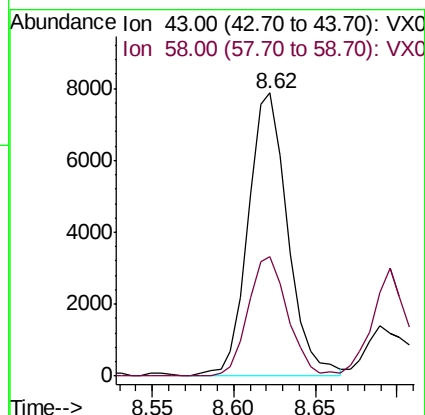
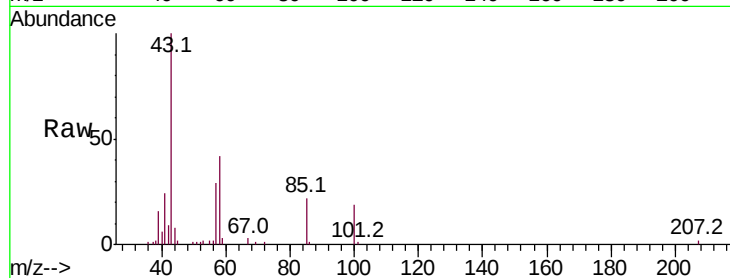
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 13315

Ion Ratio Lower Upper

43 100

58 42.3 35.0 52.4



#52

Toluene

Concen: 0.722 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019140.D

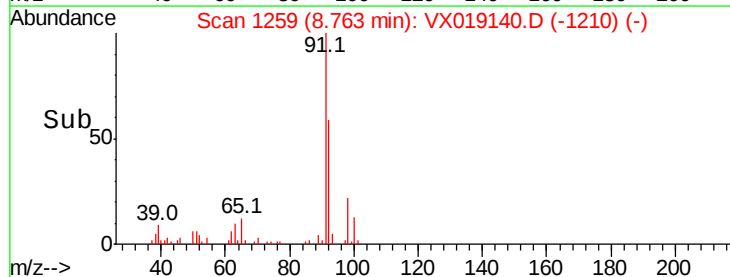
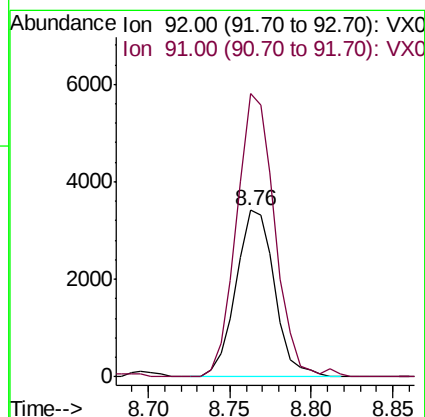
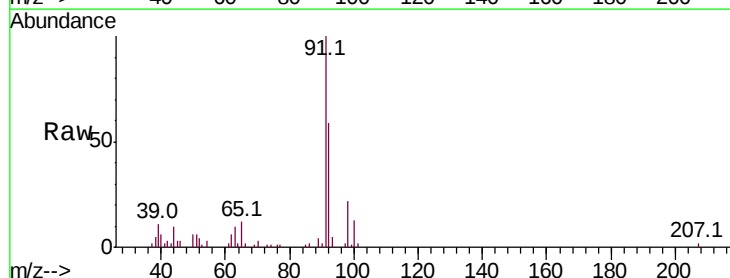
Acq: 27 Oct 2020 16:49

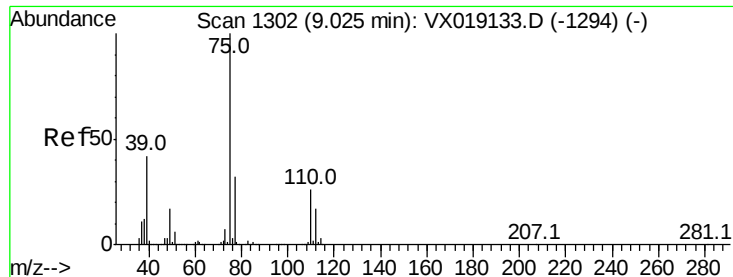
Tgt Ion: 92 Resp: 5623

Ion Ratio Lower Upper

92 100

91 168.6 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 0.636 ug/l

RT: 9.02 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

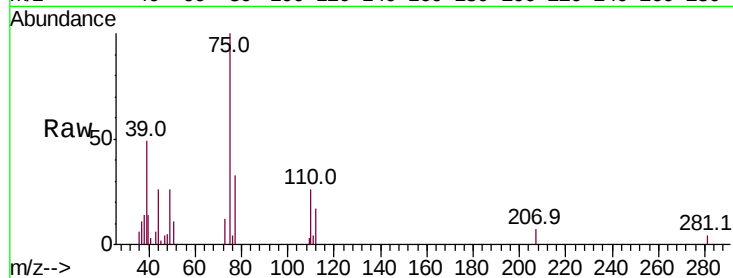
MDL-WATER-03-QT4-2020

Tot Ion: 75 Resp: 3137

Ion Ratio Lower Upper

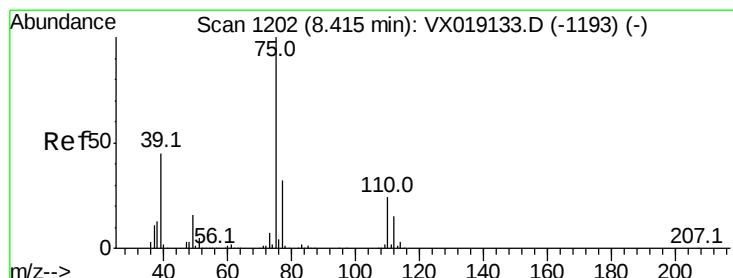
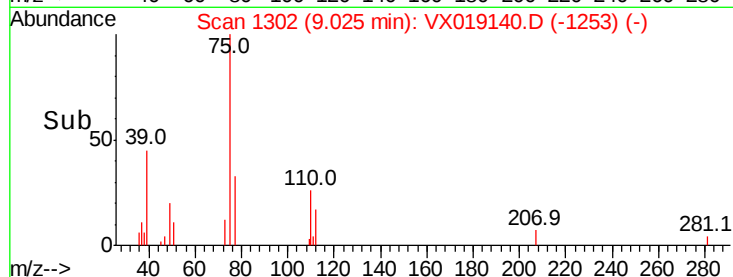
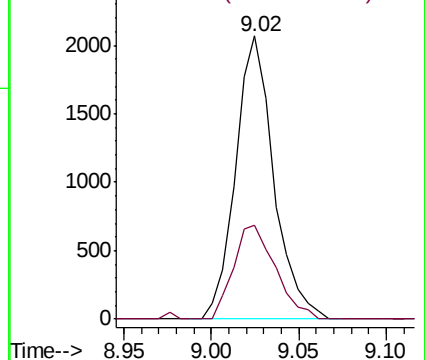
75 100

77 33.2 25.4 38.0



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 0.679 ug/l

RT: 8.42 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

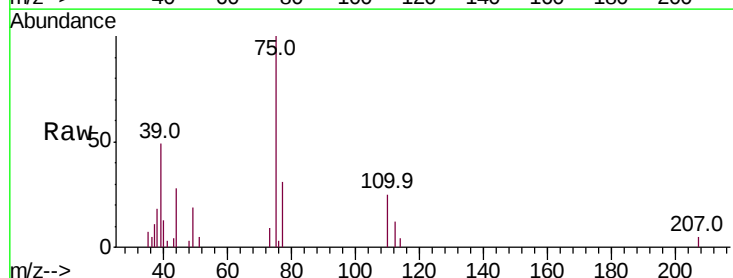
Tgt Ion: 75 Resp: 3521

Ion Ratio Lower Upper

75 100

77 31.3 25.5 38.3

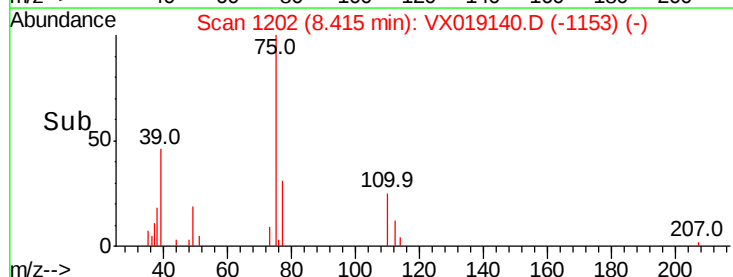
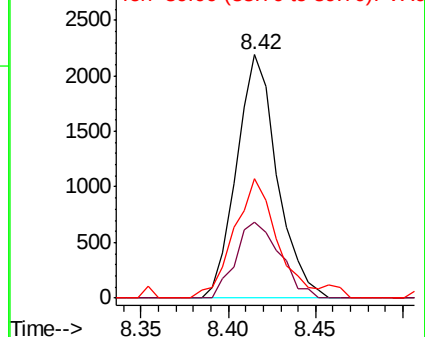
39 49.2 36.2 54.2

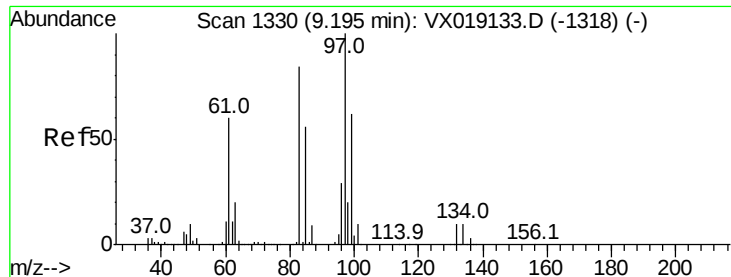


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

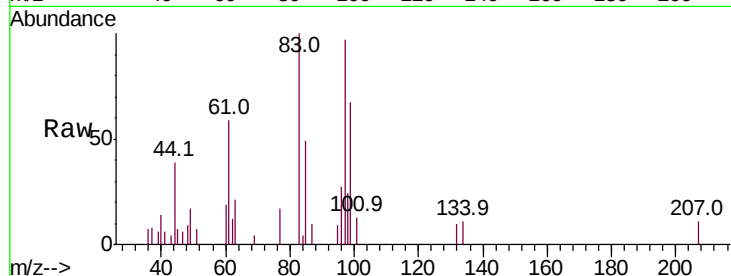




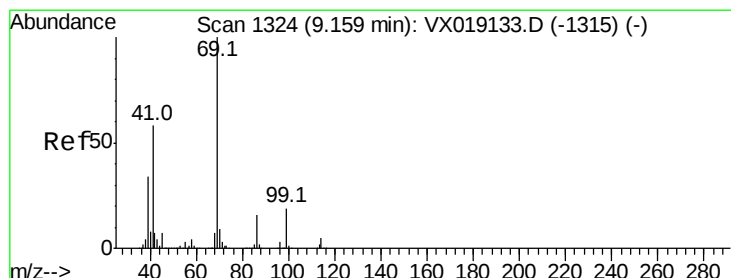
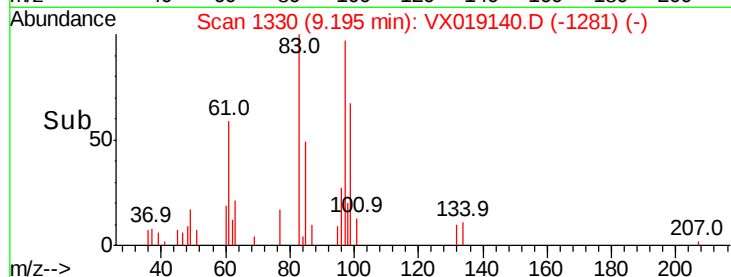
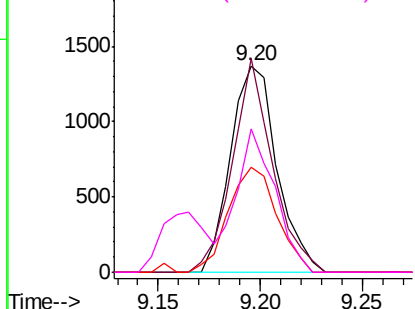
#55
 1,1,2-Trichloroethane
 Concen: 0.702 ug/l
 RT: 9.20 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

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

Tot Ion: 97 Resp: 2163
 Ion Ratio Lower Upper
 97 100
 83 103.4 67.2 100.8#
 85 50.7 44.6 67.0
 99 69.3 49.4 74.0

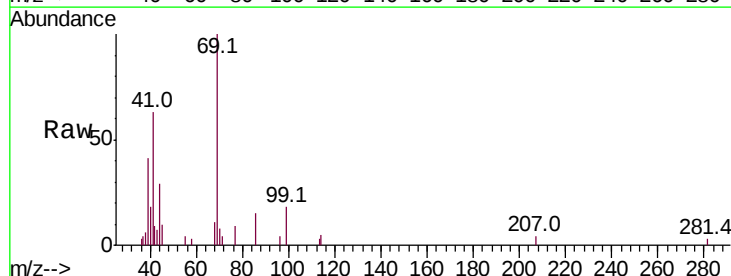


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

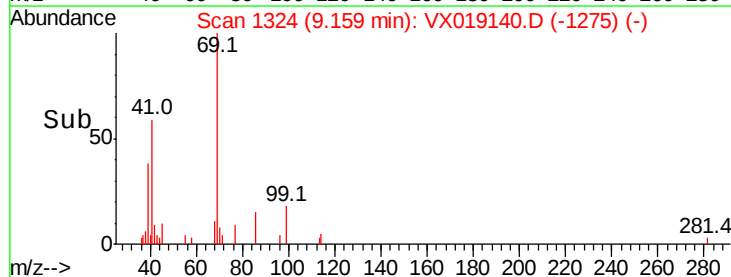
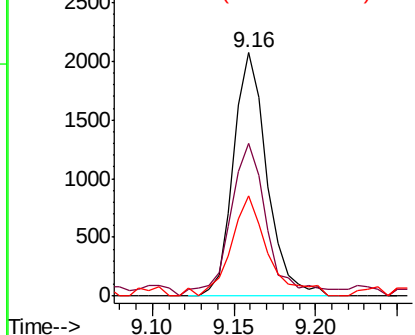


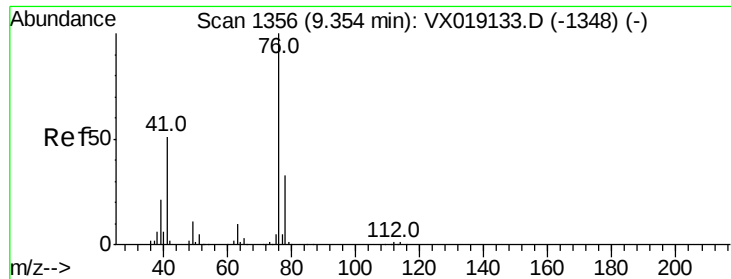
#56
 Ethyl methacrylate
 Concen: 0.640 ug/l
 RT: 9.16 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

Tgt Ion: 69 Resp: 2975
 Ion Ratio Lower Upper
 69 100
 41 69.3 46.5 69.7
 39 45.3 27.6 41.4#



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: 0.695 ug/l

RT: 9.35 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

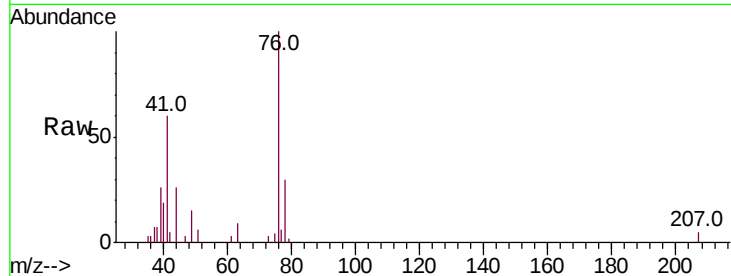
MDL-WATER-03-QT4-2020

Tot Ion: 76 Resp: 3607

Ion Ratio Lower Upper

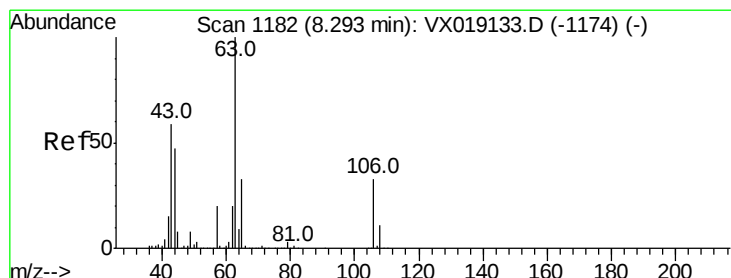
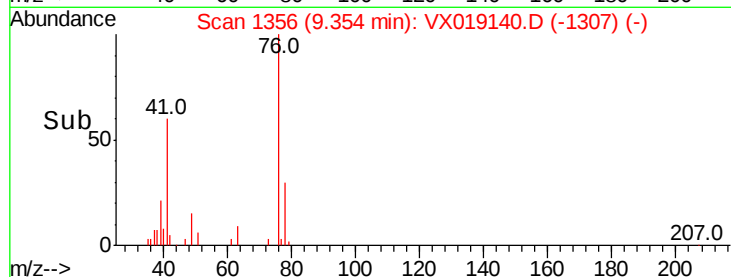
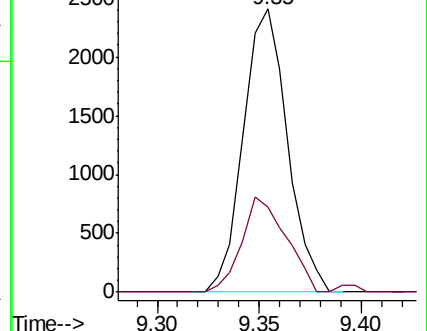
76 100

78 33.6 25.9 38.9



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: 2.848 ug/l

RT: 8.29 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VX019140.D

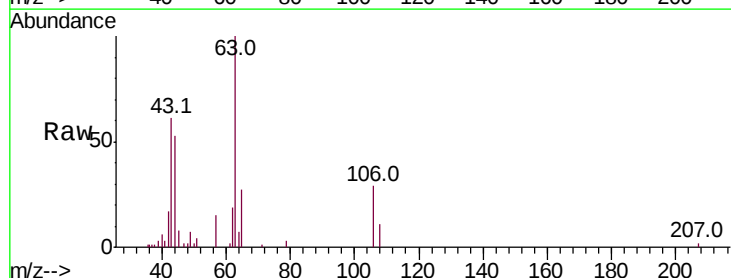
Acq: 27 Oct 2020 16:49

Tgt Ion: 63 Resp: 7409

Ion Ratio Lower Upper

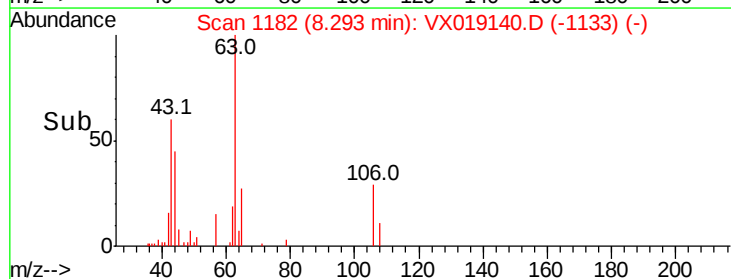
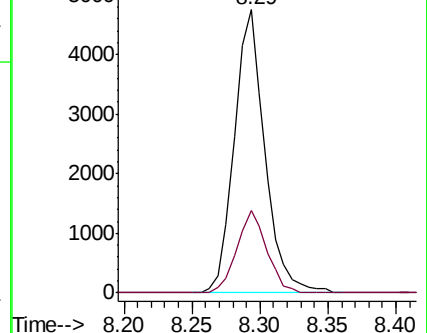
63 100

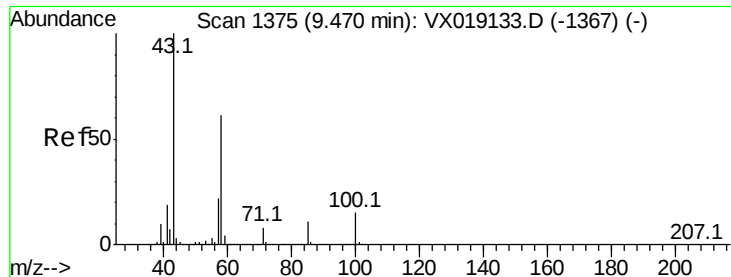
106 28.6 25.1 37.7



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

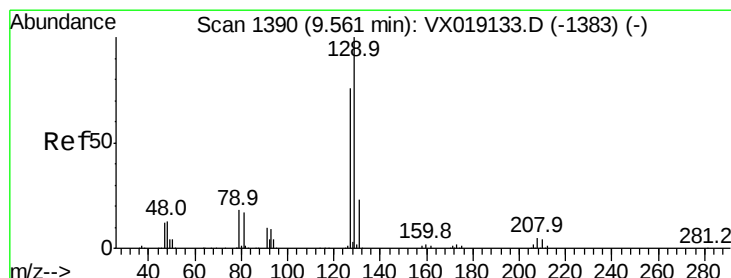
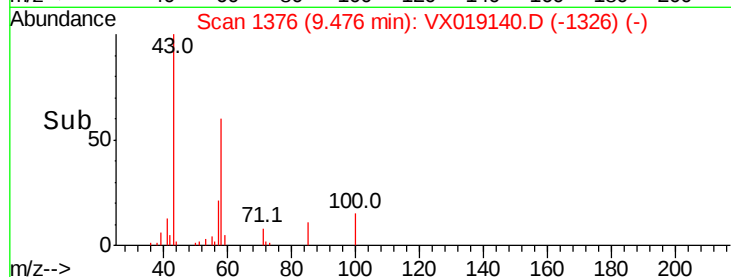
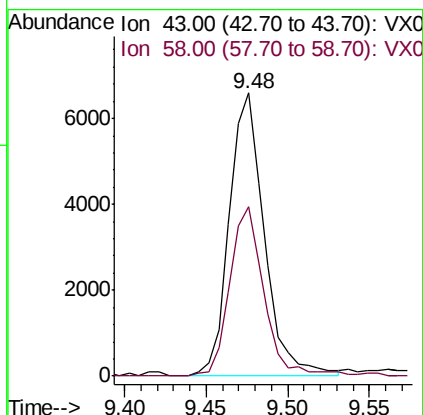
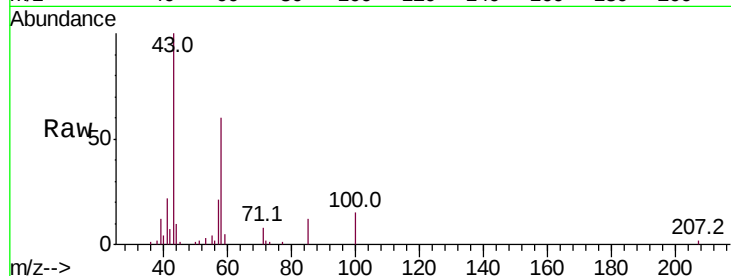




#59
2-Hexanone
Concen: 3.403 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

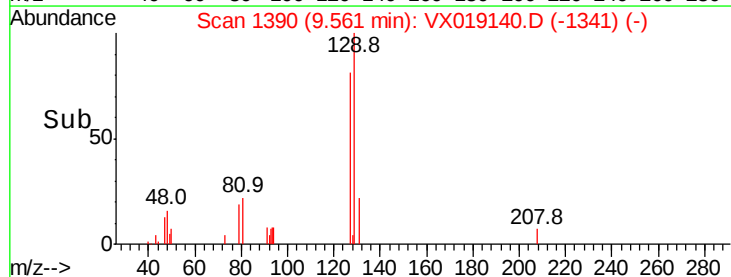
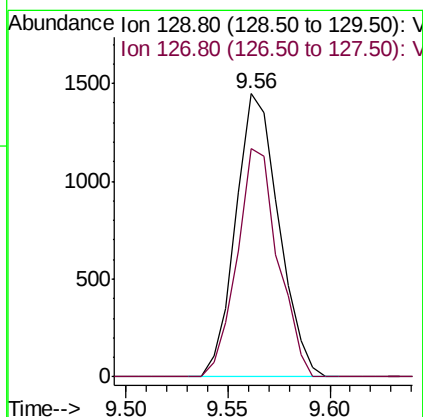
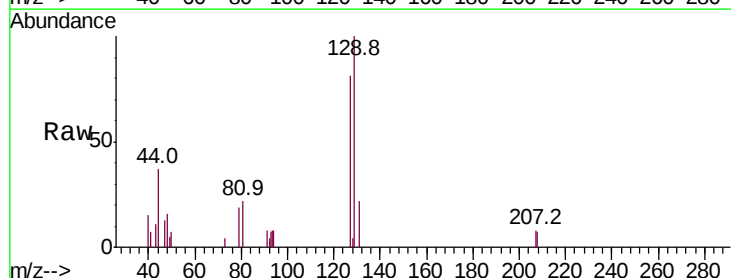
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

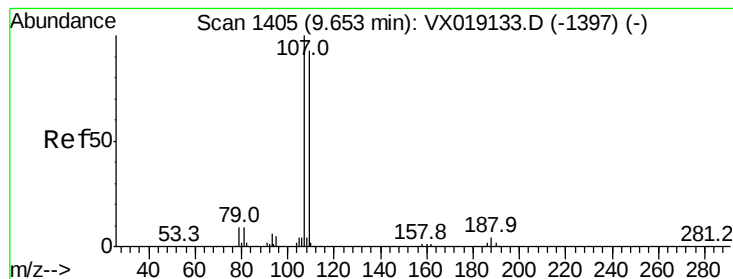
Tot Ion: 43 Resp: 9878
Ion Ratio Lower Upper
43 100
58 58.5 30.5 91.5



#60
Dibromochloromethane
Concen: 0.636 ug/l
RT: 9.56 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 129 Resp: 2124
Ion Ratio Lower Upper
129 100
127 76.5 38.6 115.8





#61

1,2-Dibromoethane

Concen: 0.669 ug/l

RT: 9.66 min Scan# 1406

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

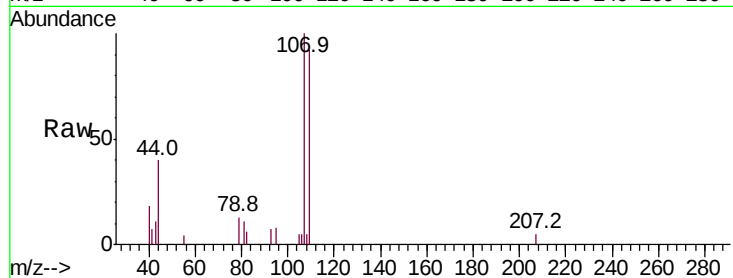
MDL-WATER-03-QT4-2020

Tot Ion:107 Resp: 2203

Ion Ratio Lower Upper

107 100

109 95.0 75.9 113.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

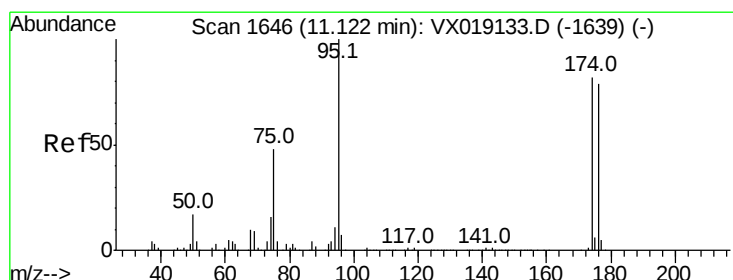
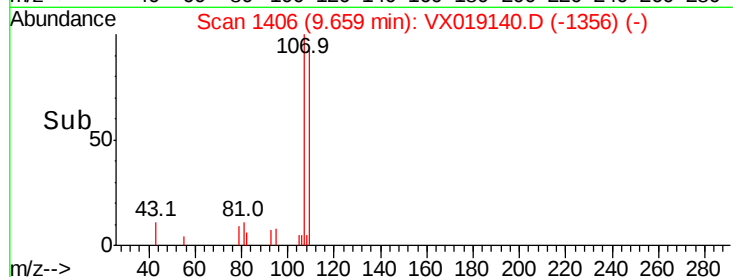
1500

1000

500

0

Time--> 9.60 9.65 9.70



#62

4-Bromofluorobenzene

Concen: 47.234 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

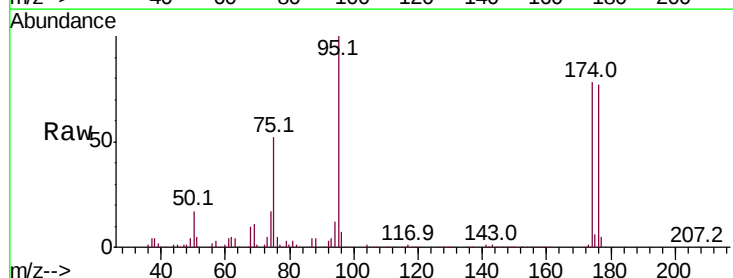
Tgt Ion: 95 Resp: 195748

Ion Ratio Lower Upper

95 100

174 76.3 0.0 156.0

176 75.7 0.0 149.8



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

200000

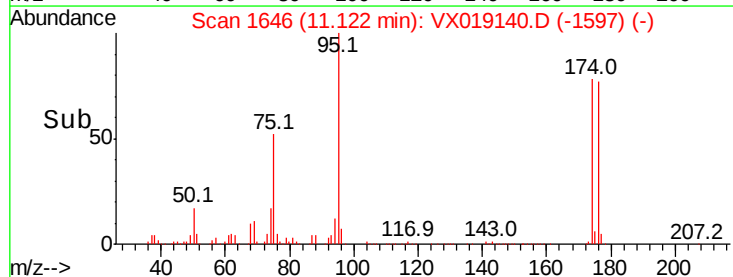
150000

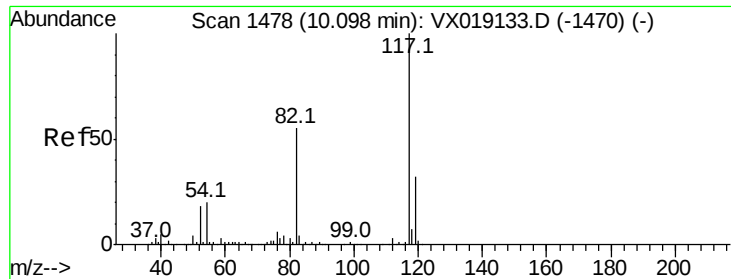
100000

50000

0

Time--> 11.10 11.20

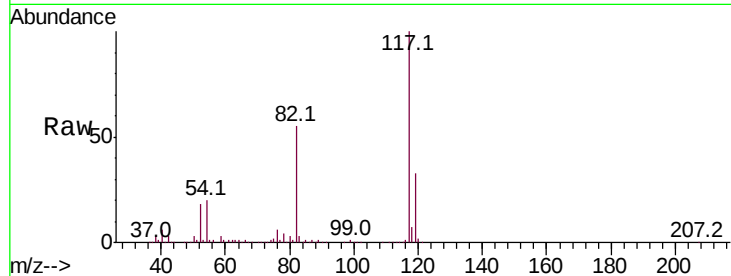




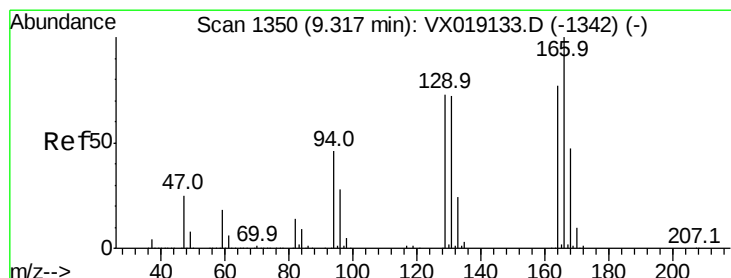
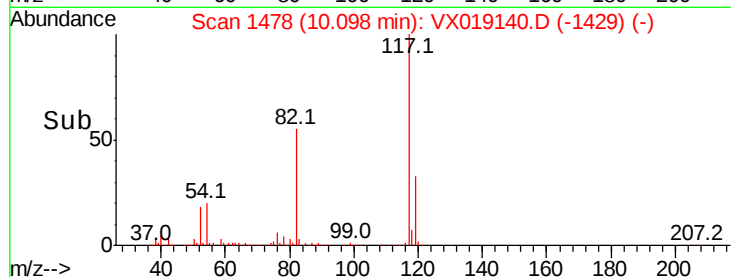
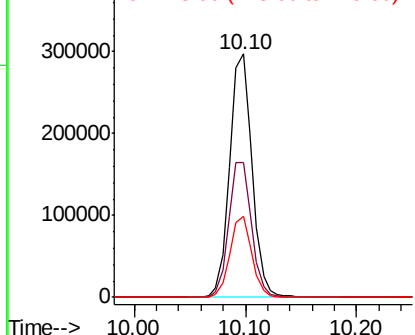
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

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

Tot Ion:117 Resp: 413506
Ion Ratio Lower Upper
117 100
82 55.5 43.6 65.4
119 33.3 25.5 38.3

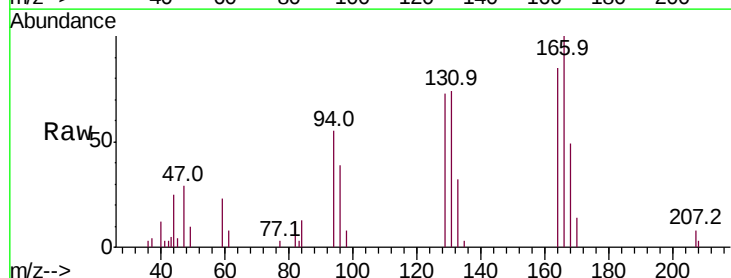


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

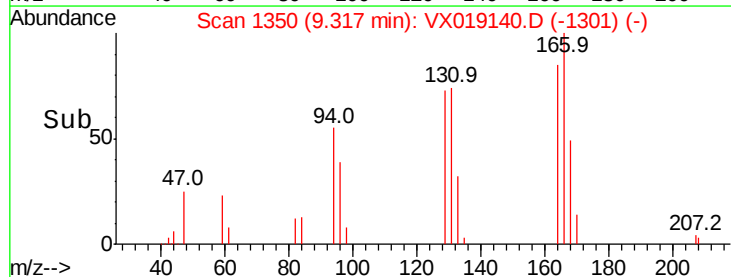
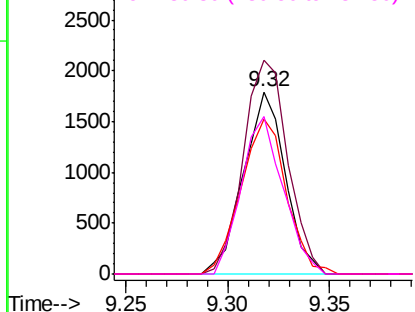


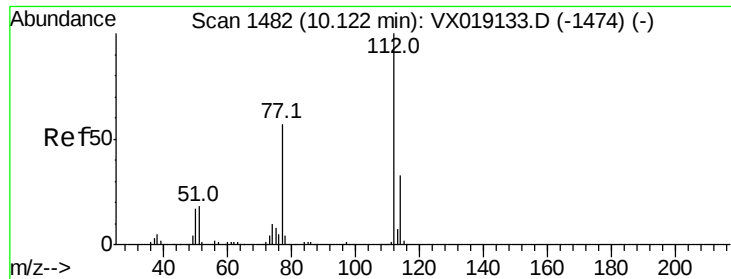
#64
Tetrachloroethene
Concen: 0.809 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion:164 Resp: 2550
Ion Ratio Lower Upper
164 100
166 117.4 104.1 156.1
129 85.4 76.2 114.4
131 86.6 74.6 112.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

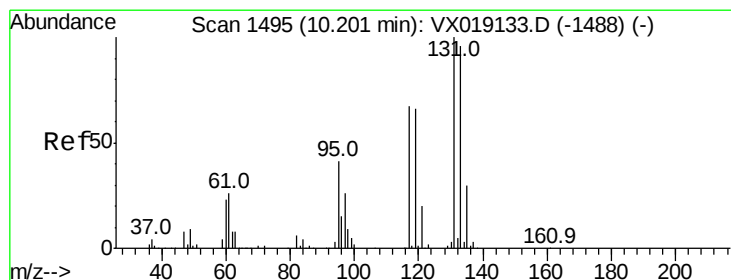
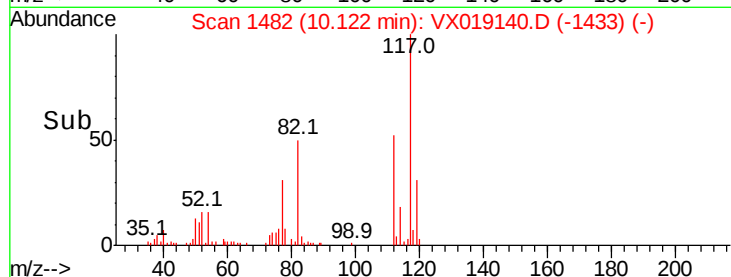
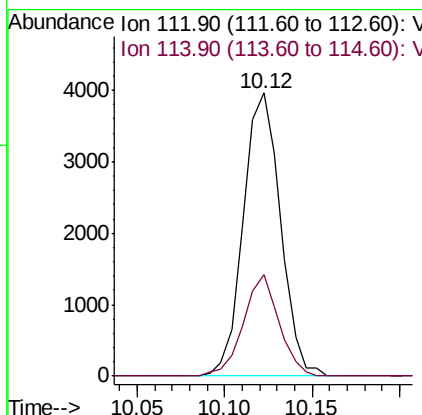
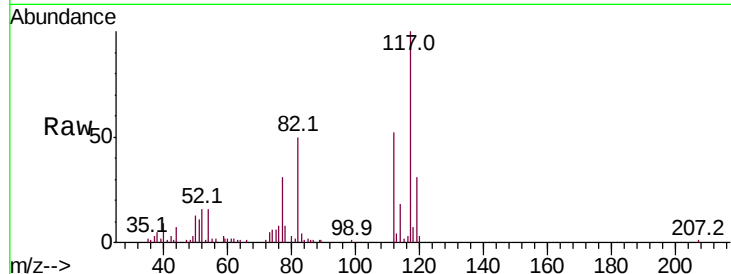




#65
Chlorobenzene
Concen: 0.694 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

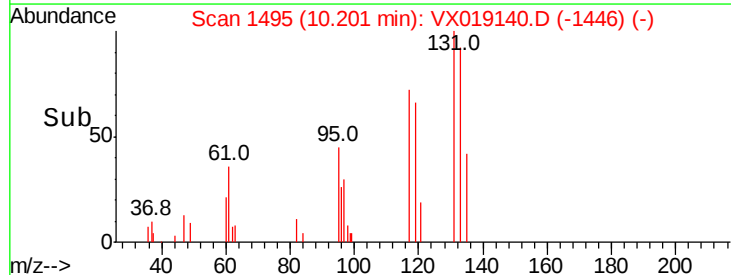
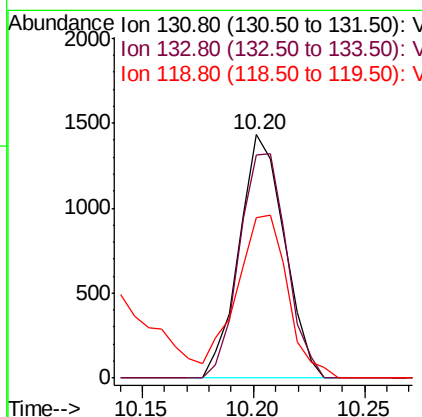
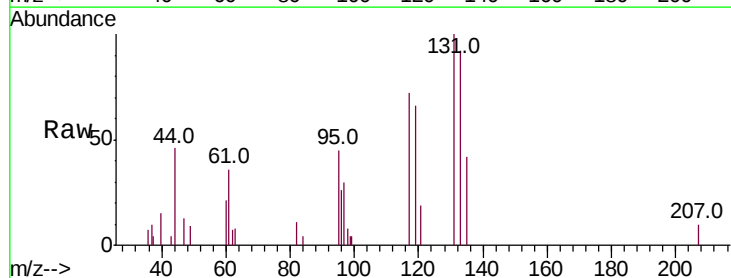
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

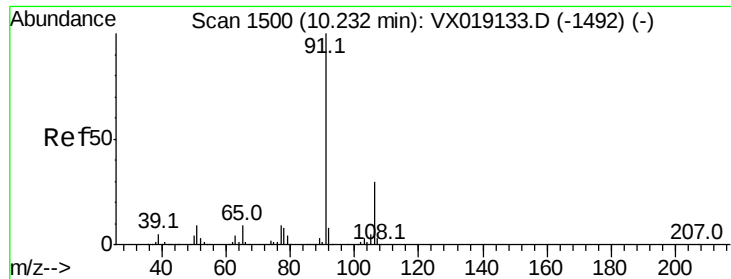
Tot Ion:112 Resp: 5865
Ion Ratio Lower Upper
112 100
114 35.8 26.1 39.1



#66
1,1,1,2-Tetrachloroethane
Concen: 0.670 ug/l
RT: 10.20 min Scan# 1495
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion:131 Resp: 2039
Ion Ratio Lower Upper
131 100
133 95.6 47.3 141.8
119 0.0 32.3 96.9#

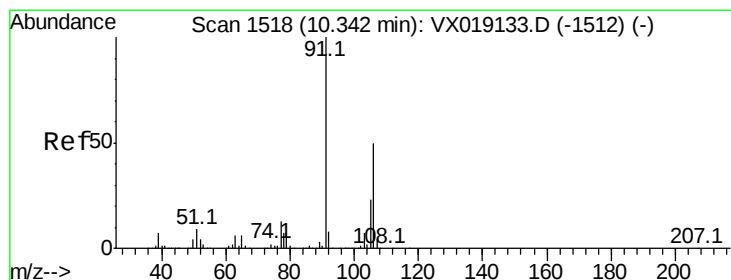
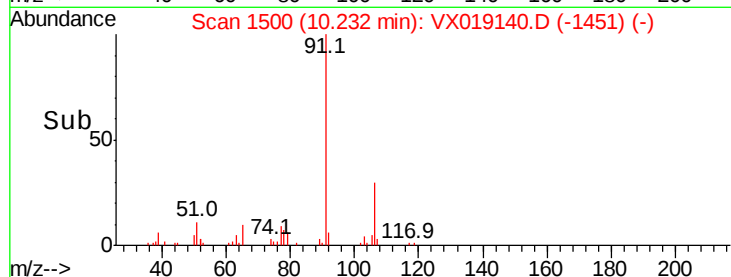
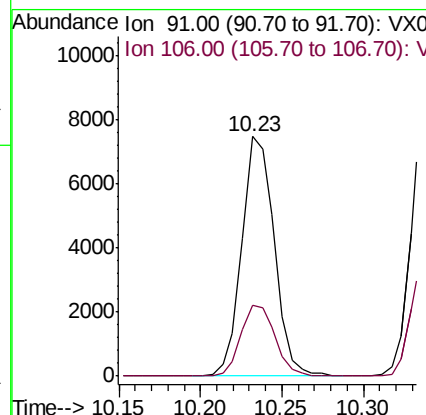
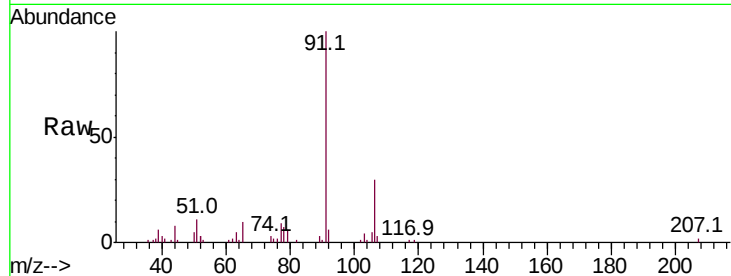




#67
Ethyl Benzene
Concen: 0.691 ug/l
RT: 10.23 min Scan# 1500
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

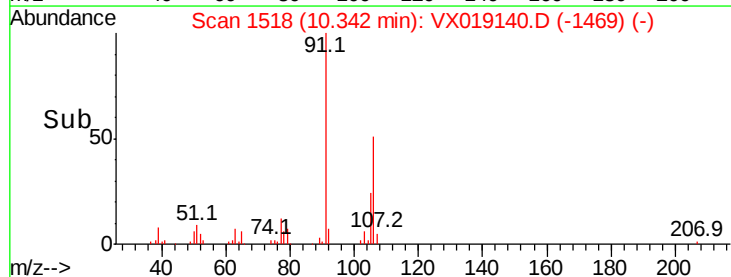
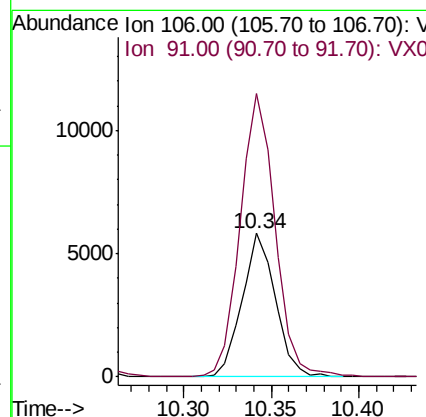
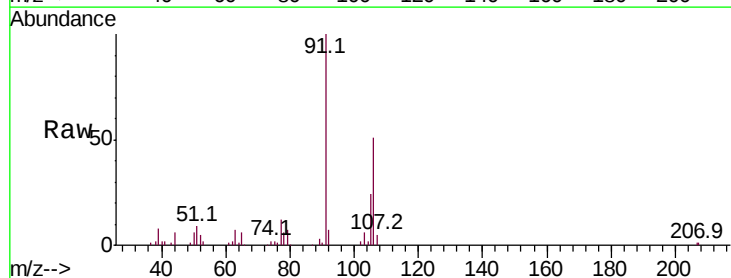
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

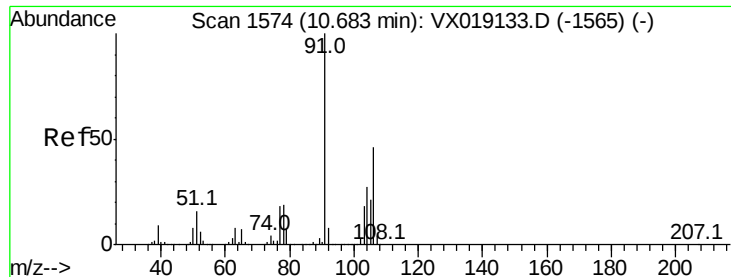
Tot Ion: 91 Resp: 10406
Ion Ratio Lower Upper
91 100
106 29.8 24.3 36.5



#68
m/p-Xylenes
Concen: 1.365 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 106 Resp: 7714
Ion Ratio Lower Upper
106 100
91 206.5 161.0 241.4

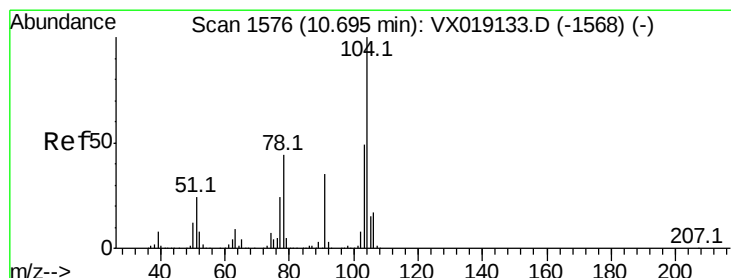
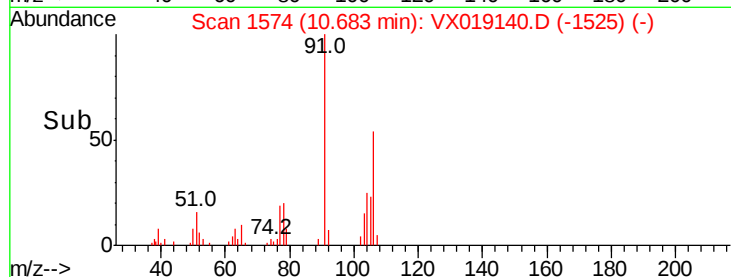
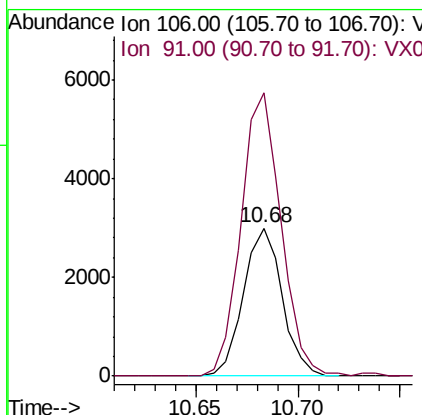
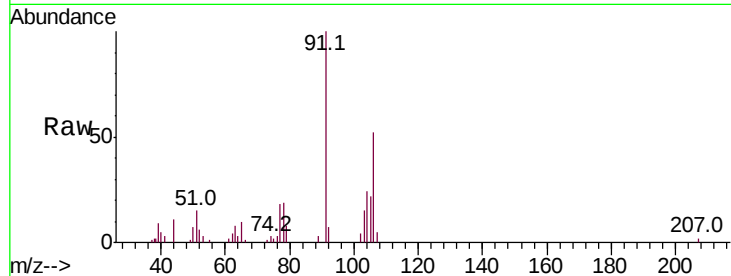




#69
o-Xylene
Concen: 0.737 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

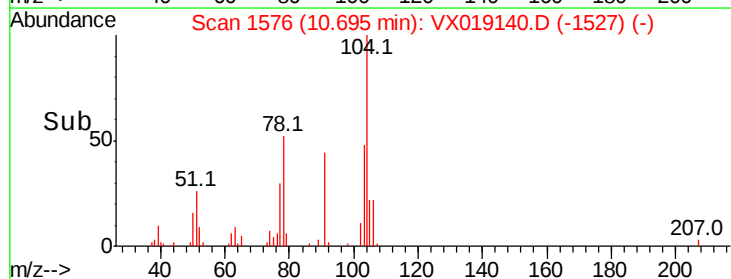
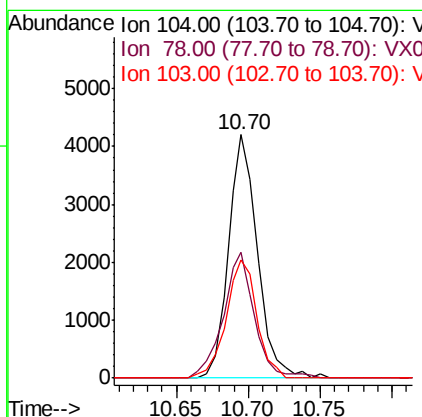
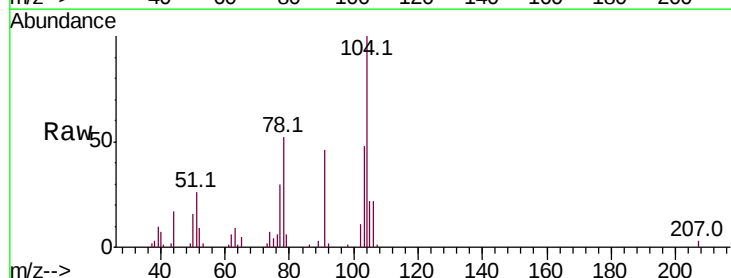
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

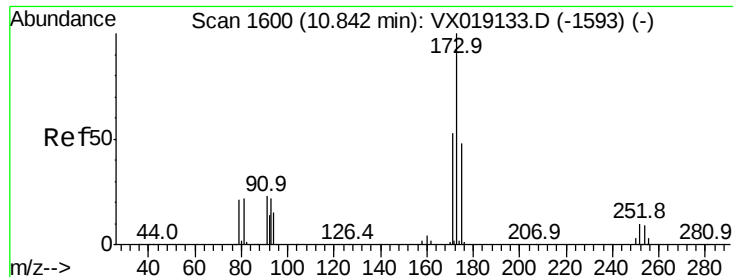
Tot Ion:106 Resp: 3952
Ion Ratio Lower Upper
106 100
91 197.0 108.3 324.8



#70
Styrene
Concen: 0.648 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion:104 Resp: 5932
Ion Ratio Lower Upper
104 100
78 55.5 40.0 60.0
103 51.6 43.5 65.3





#71

Bromoform

Concen: 0.618 ug/l

RT: 10.84 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

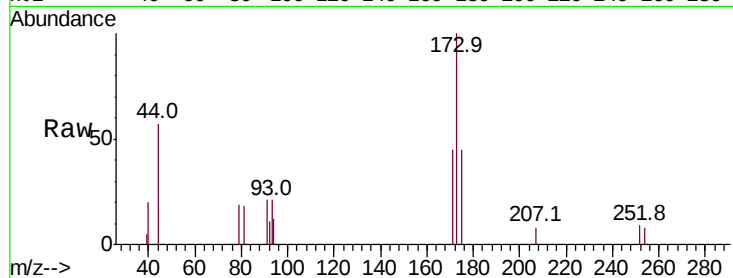
Tot Ion:173 Resp: 1491

Ion Ratio Lower Upper

173 100

175 45.9 24.4 73.4

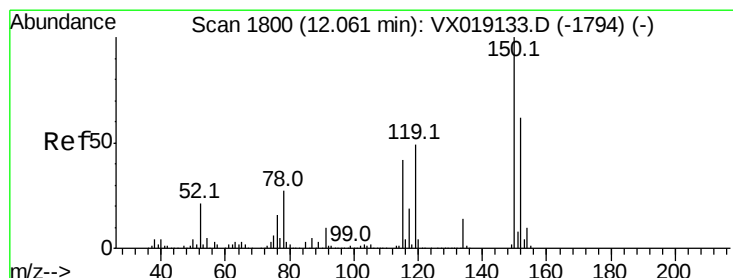
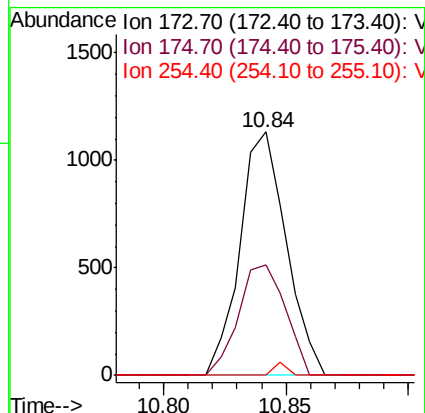
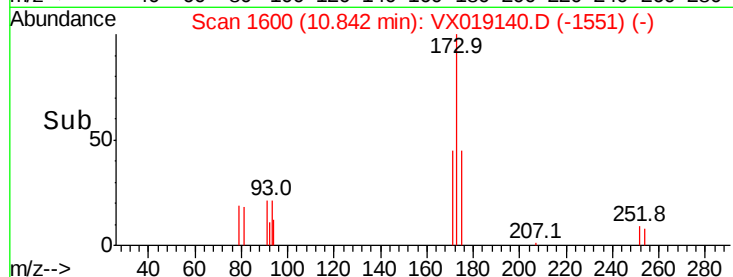
254 1.5 0.1 0.1#



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: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

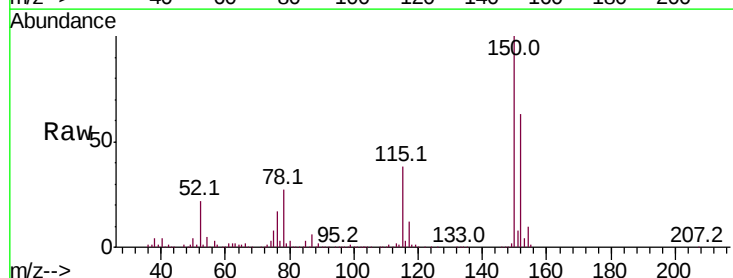
Tgt Ion:152 Resp: 197047

Ion Ratio Lower Upper

152 100

115 60.8 41.9 125.7

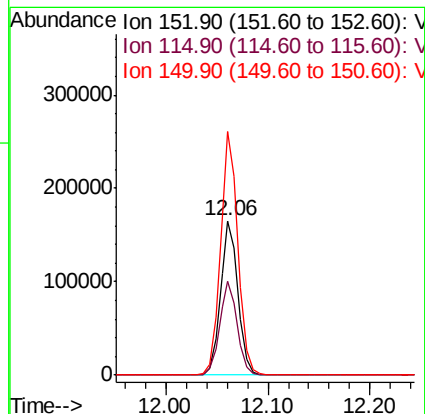
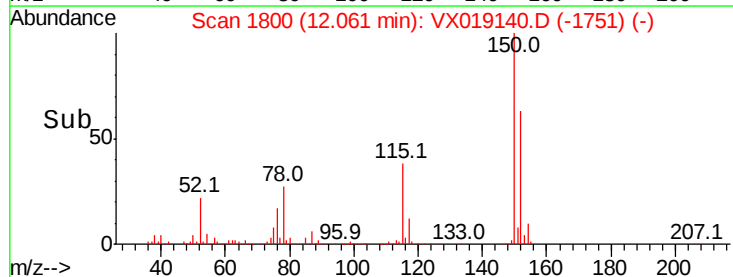
150 157.2 0.0 347.8

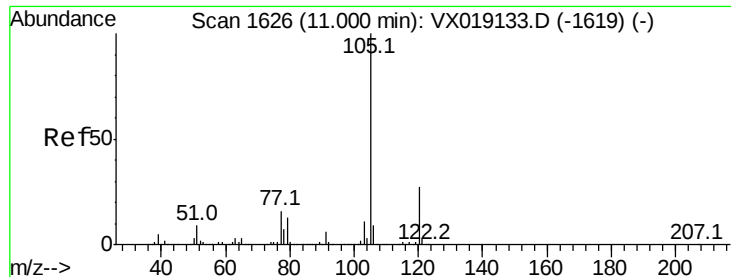


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.696 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

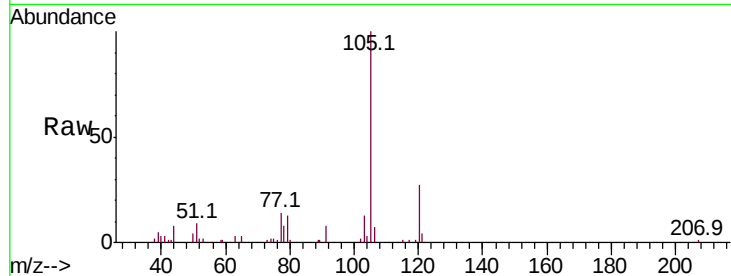
MDL-WATER-03-QT4-2020

Tot Ion:105 Resp: 9701

Ion Ratio Lower Upper

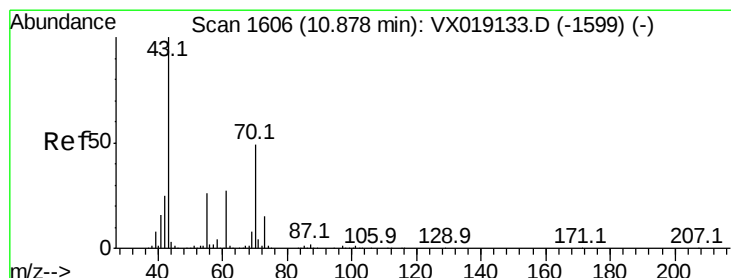
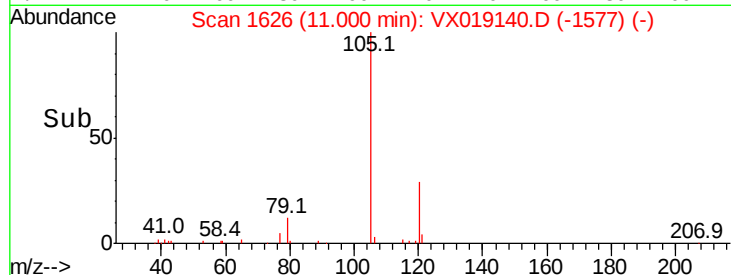
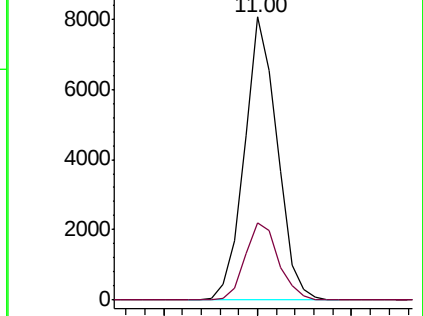
105 100

120 28.0 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.697 ug/l

RT: 10.88 min Scan# 1606

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Tgt Ion: 43 Resp: 3555

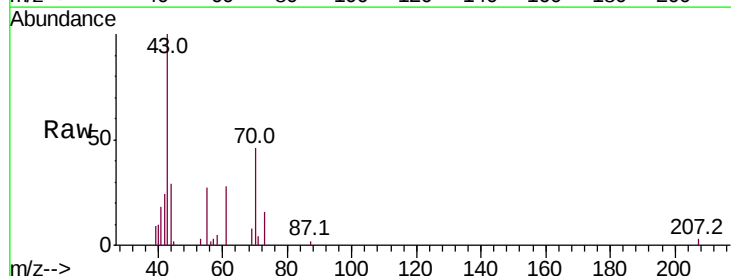
Ion Ratio Lower Upper

43 100

70 48.0 39.6 59.4

55 24.0 20.7 31.1

61 26.3 21.9 32.9

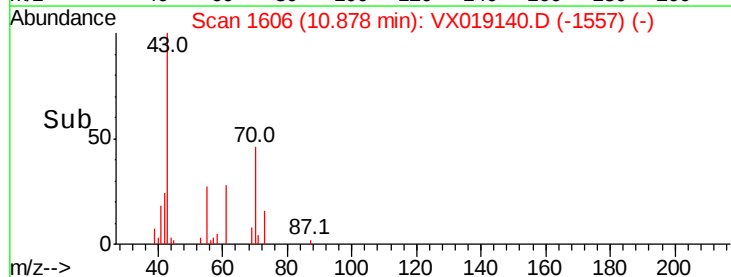
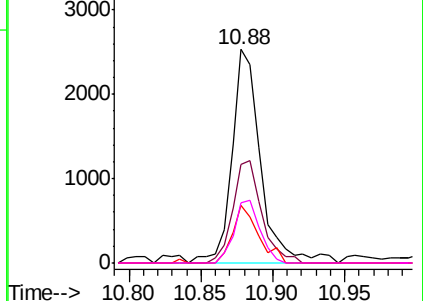


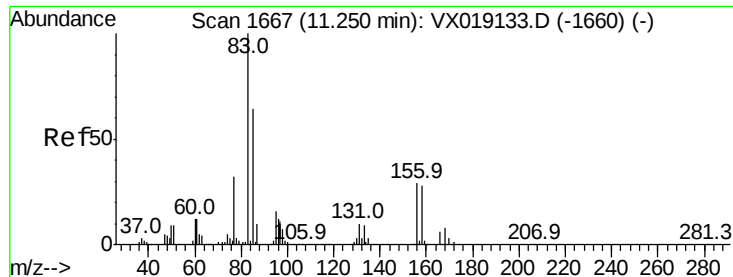
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 0.731 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

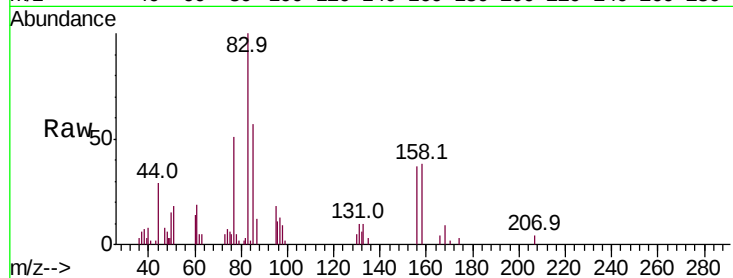
Tot Ion: 83 Resp: 3188

Ion Ratio Lower Upper

83 100

131 9.6 5.2 15.6

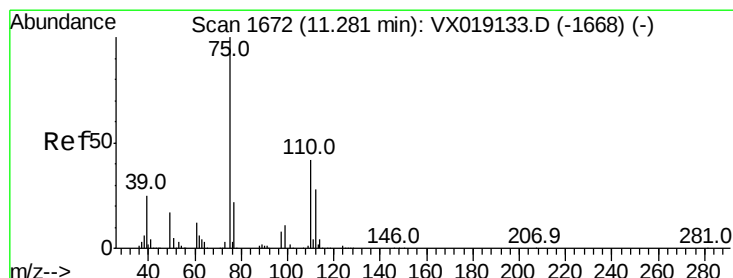
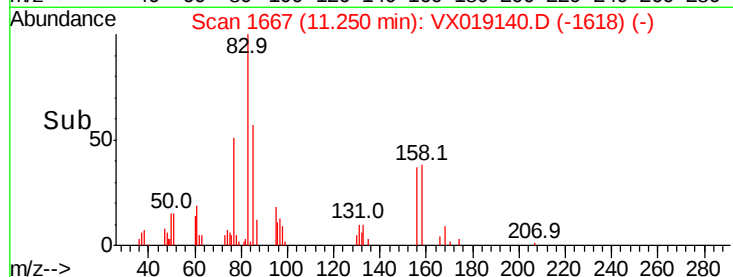
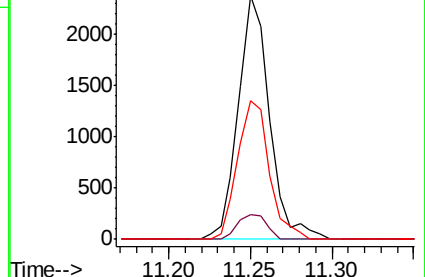
85 57.9 32.1 96.3



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: 0.847 ug/l

RT: 11.28 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VX019140.D

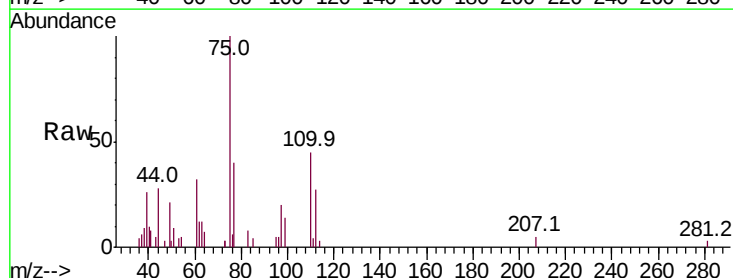
Acq: 27 Oct 2020 16:49

Tgt Ion: 75 Resp: 3447

Ion Ratio Lower Upper

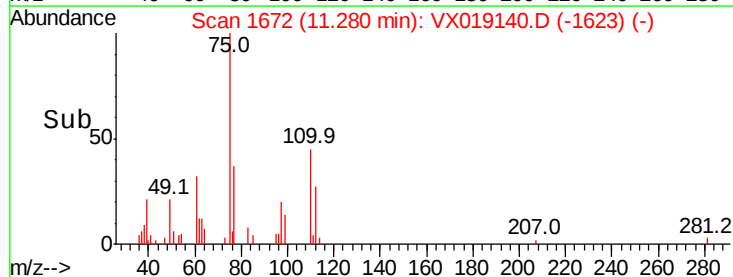
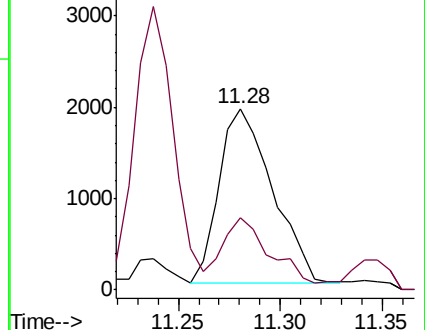
75 100

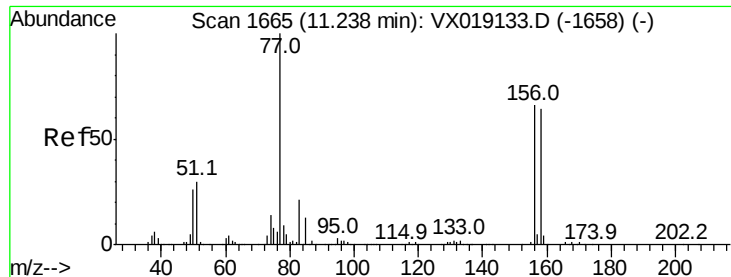
77 38.9 20.3 60.9



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 0.722 ug/l

RT: 11.24 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

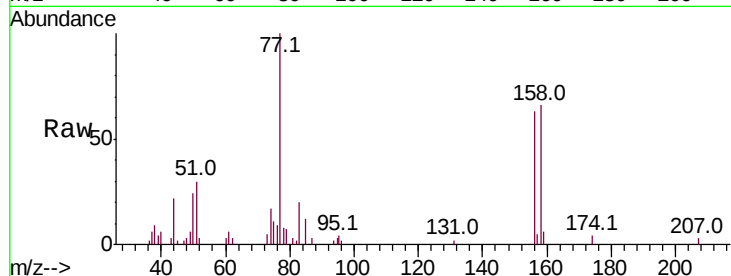
Tot Ion:156 Resp: 2501

Ion Ratio Lower Upper

156 100

77 167.5 77.7 233.1

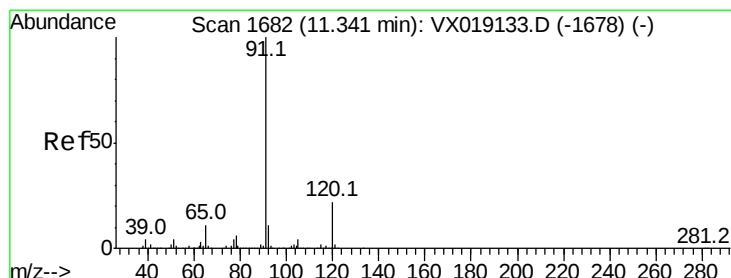
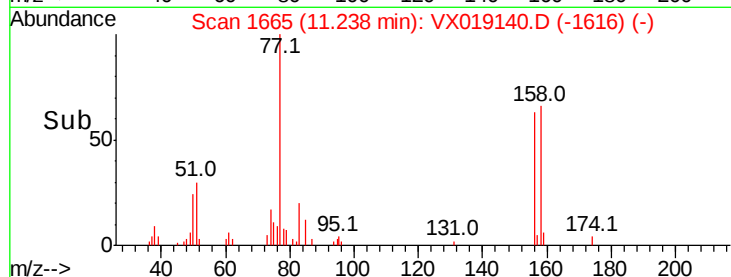
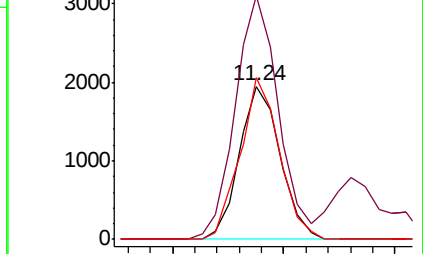
158 101.5 48.3 144.8



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: 0.705 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019140.D

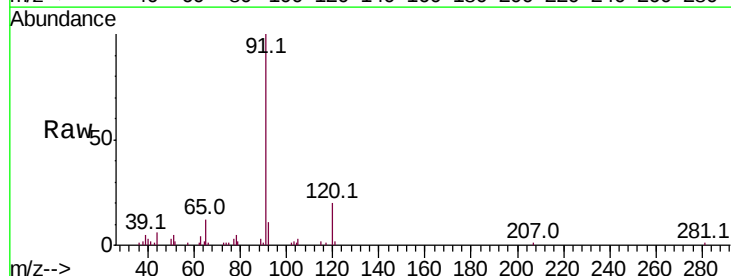
Acq: 27 Oct 2020 16:49

Tgt Ion: 91 Resp: 11219

Ion Ratio Lower Upper

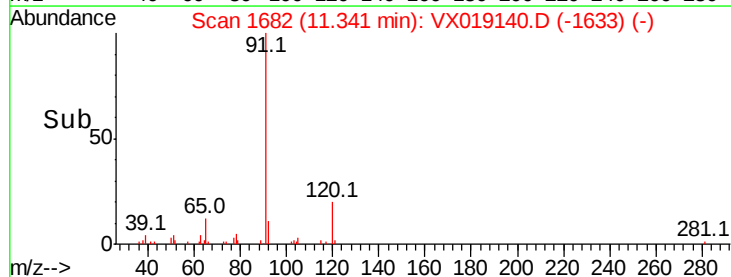
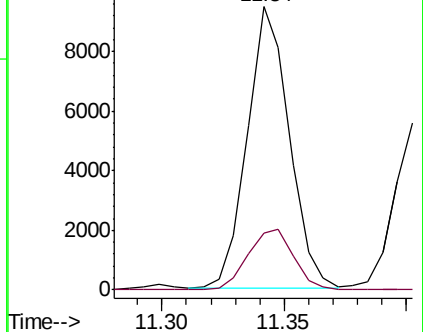
91 100

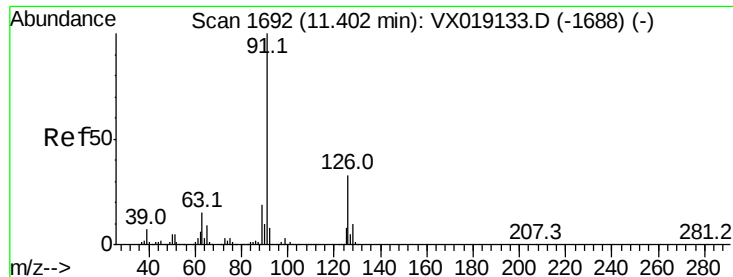
120 23.4 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

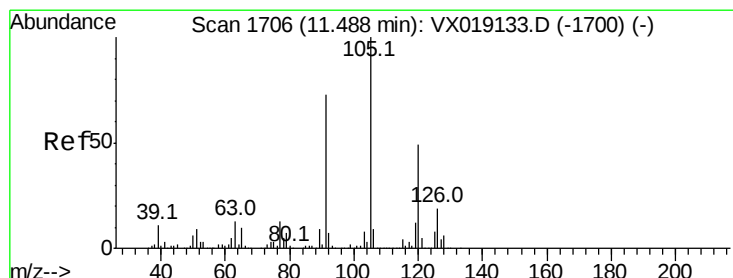
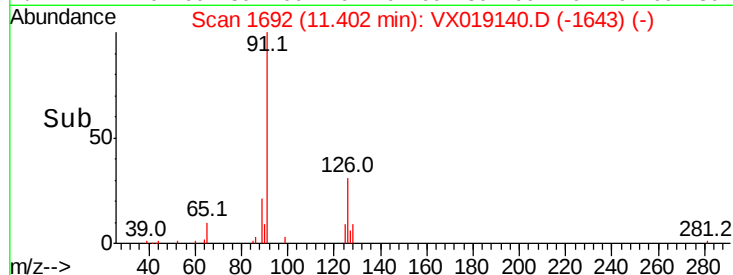
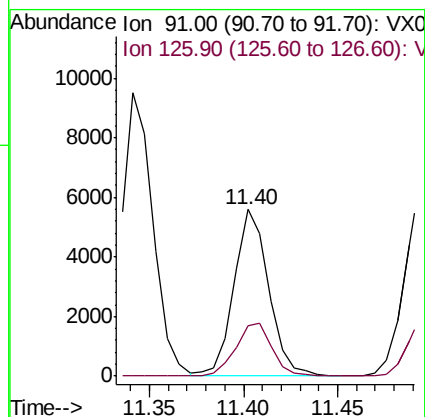
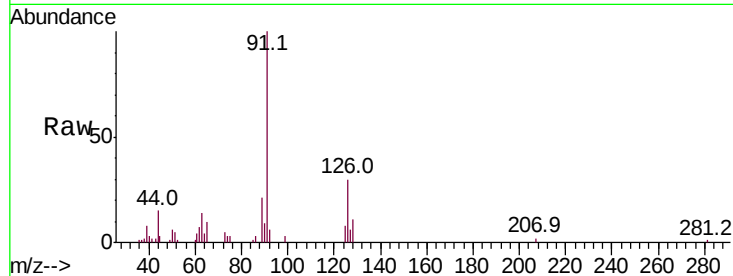




#79
 2-Chlorotoluene
 Concen: 0.765 ug/l
 RT: 11.40 min Scan# 1692
 Delta R.T. -0.00 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

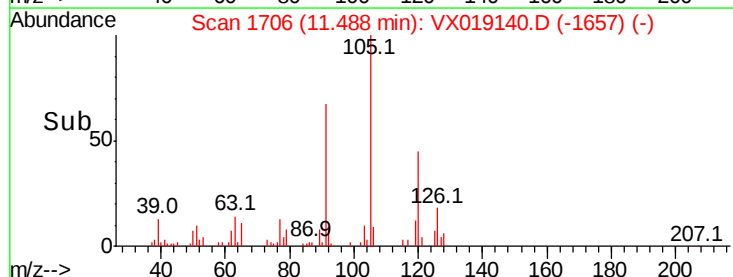
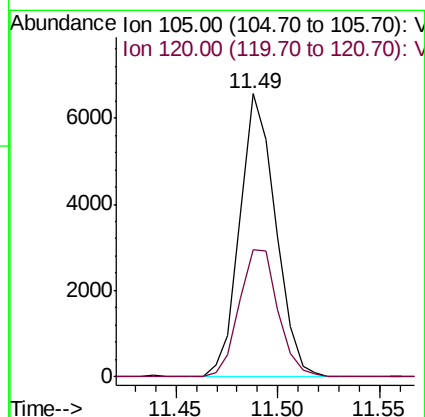
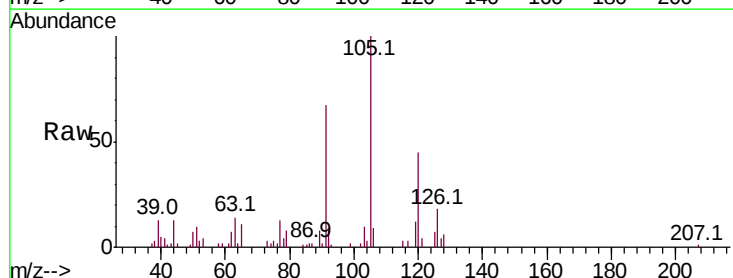
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2020

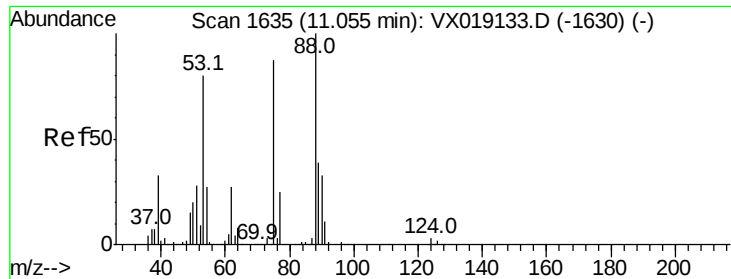
Tot Ion: 91 Resp: 7172
 Ion Ratio Lower Upper
 91 100
 126 32.9 16.9 50.7



#80
 1,3,5-Trimethylbenzene
 Concen: 0.677 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

Tgt Ion: 105 Resp: 7982
 Ion Ratio Lower Upper
 105 100
 120 48.6 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 64.767 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

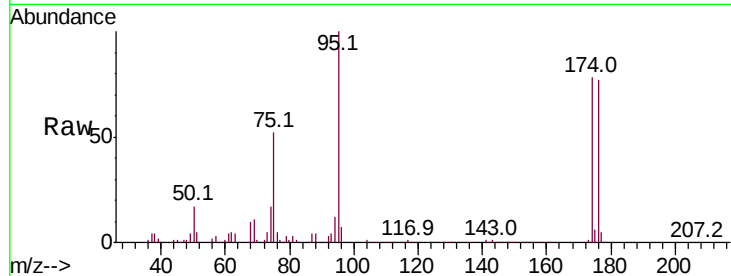
Tot Ion: 75 Resp: 100080

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

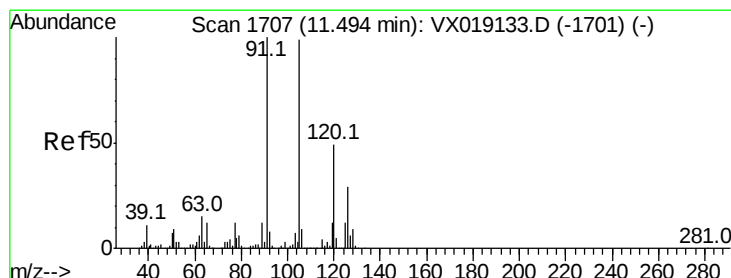
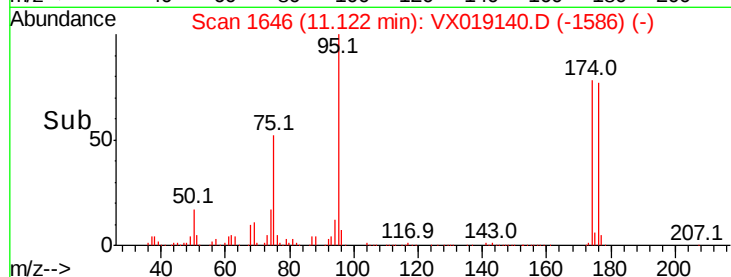
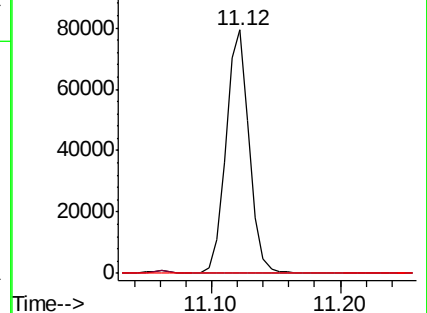
89 0.0 38.2 57.2#



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: 0.742 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX019140.D

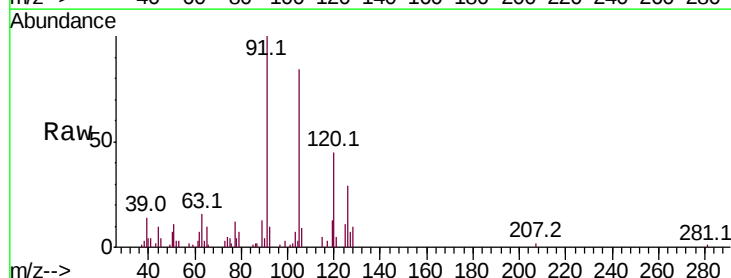
Acq: 27 Oct 2020 16:49

Tgt Ion: 91 Resp: 8489

Ion Ratio Lower Upper

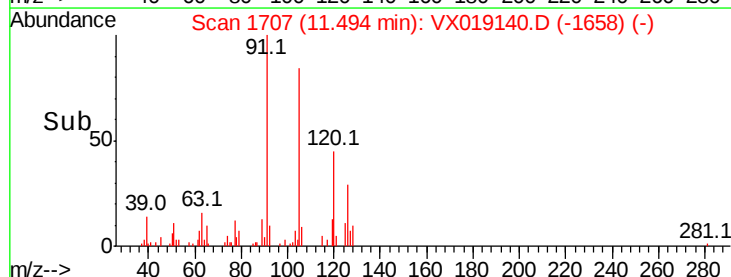
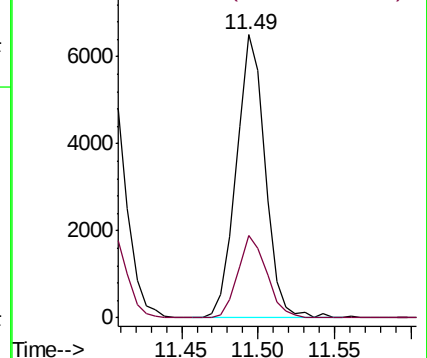
91 100

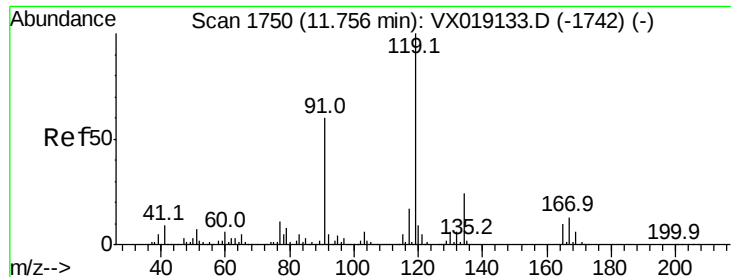
126 29.1 14.8 44.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 0.692 ug/l

RT: 11.76 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

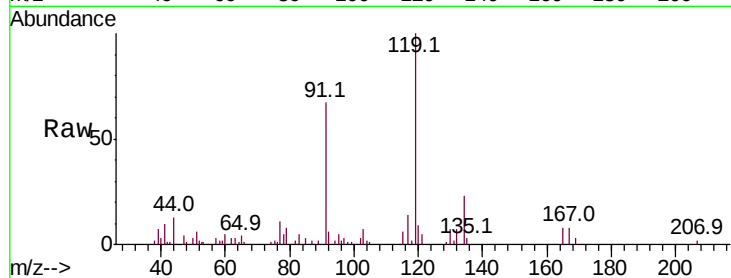
Tot Ion:119 Resp: 7803

Ion Ratio Lower Upper

119 100

91 60.2 29.0 87.1

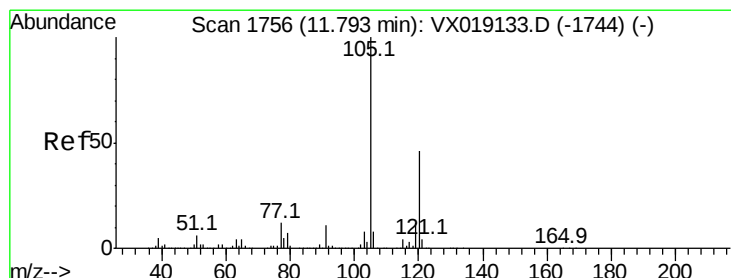
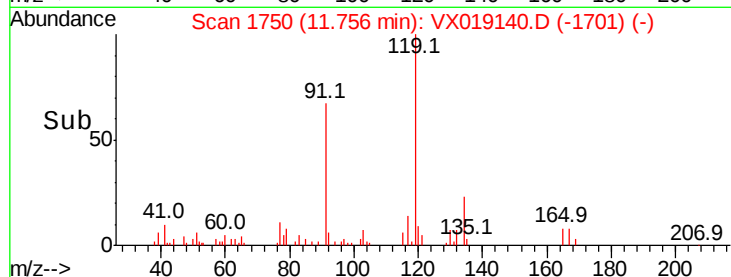
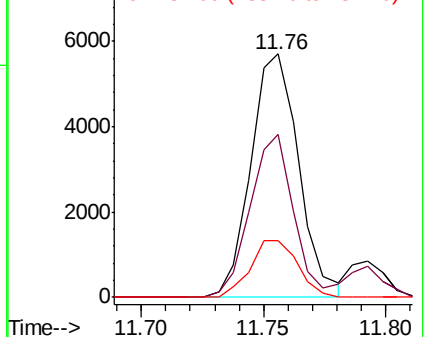
134 23.1 11.7 35.0



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: 0.678 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019140.D

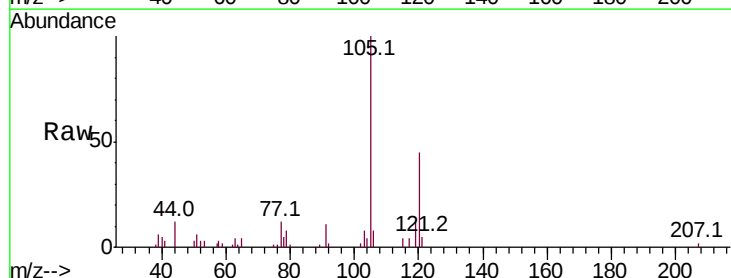
Acq: 27 Oct 2020 16:49

Tgt Ion:105 Resp: 8070

Ion Ratio Lower Upper

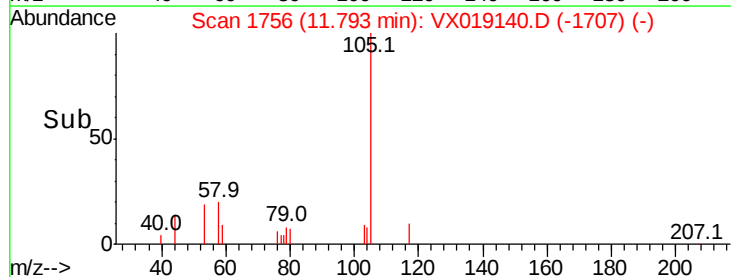
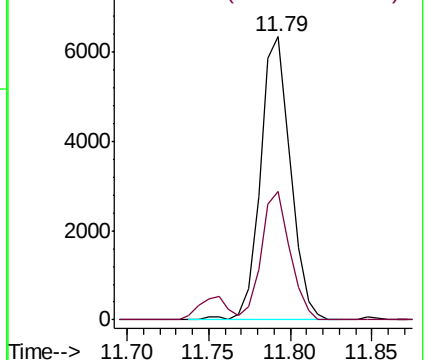
105 100

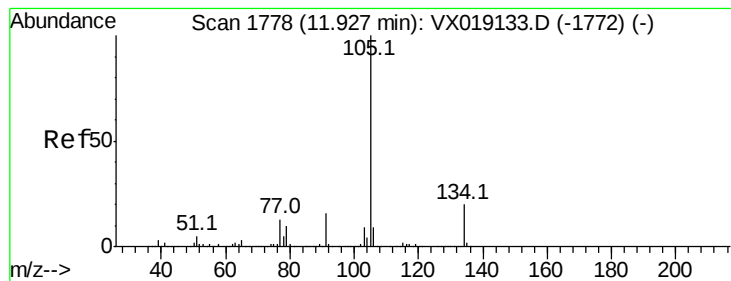
120 43.4 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.673 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

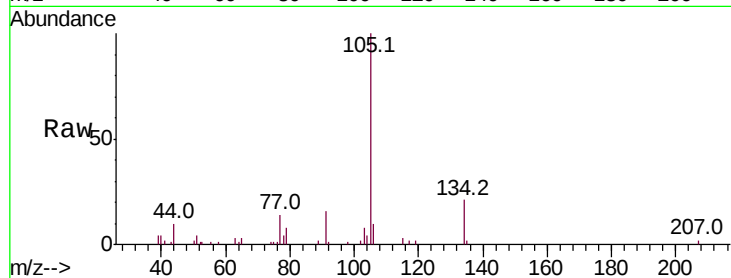
MDL-WATER-03-QT4-2020

Tot Ion:105 Resp: 9107

Ion Ratio Lower Upper

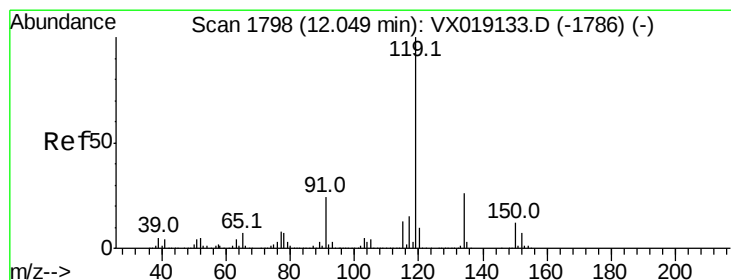
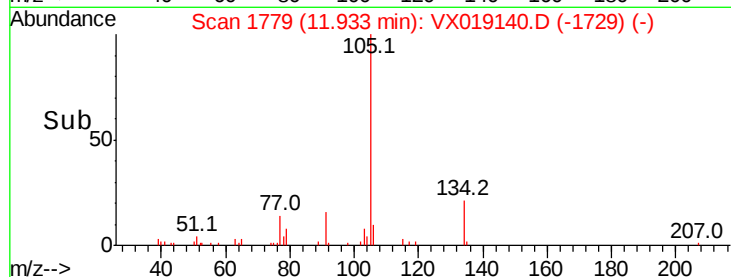
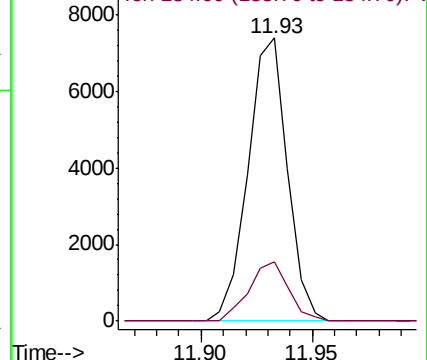
105 100

134 21.1 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.681 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

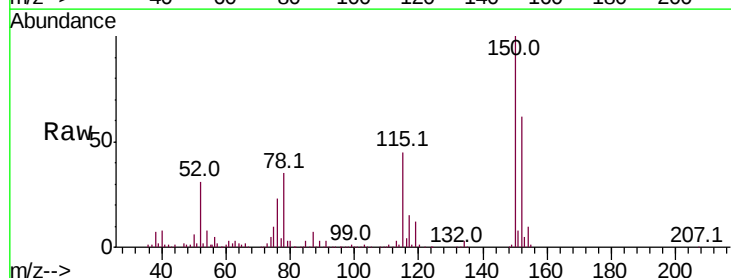
Tgt Ion:119 Resp: 8509

Ion Ratio Lower Upper

119 100

134 28.0 12.9 38.7

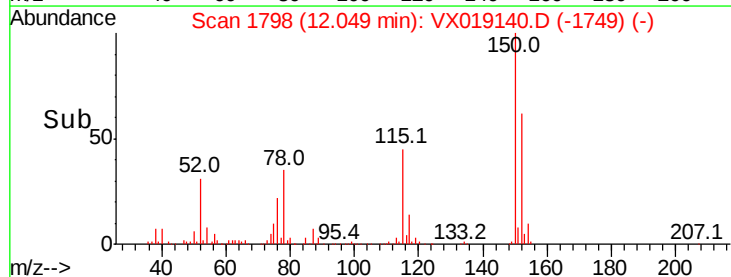
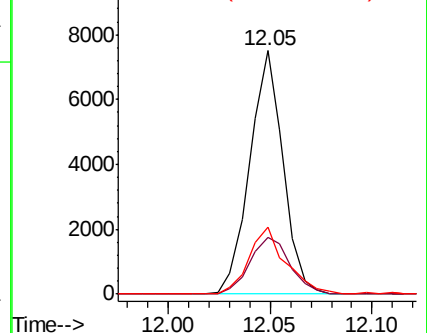
91 30.4 12.0 36.0

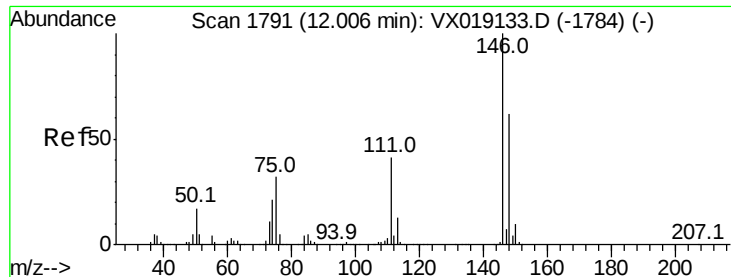


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#87

1,3-Dichlorobenzene

Concen: 0.716 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

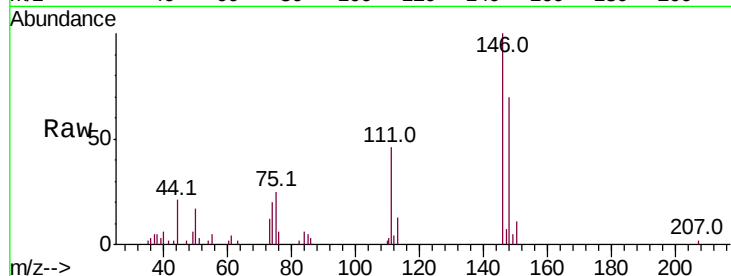
Tot Ion:146 Resp: 4619

Ion Ratio Lower Upper

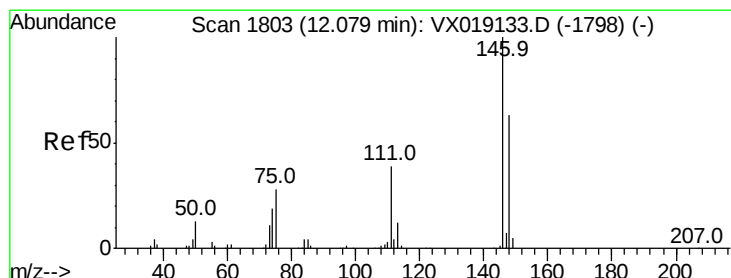
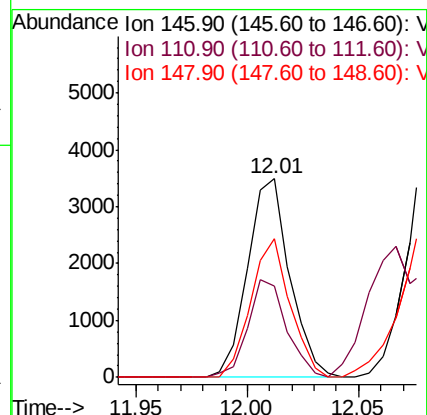
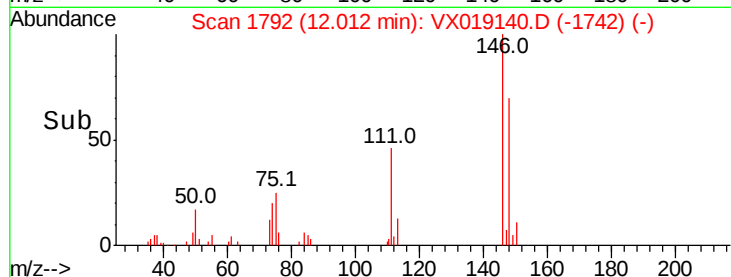
146 100

111 45.4 20.4 61.2

148 64.7 31.6 94.8



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



#88

1,4-Dichlorobenzene

Concen: 0.688 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.07 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

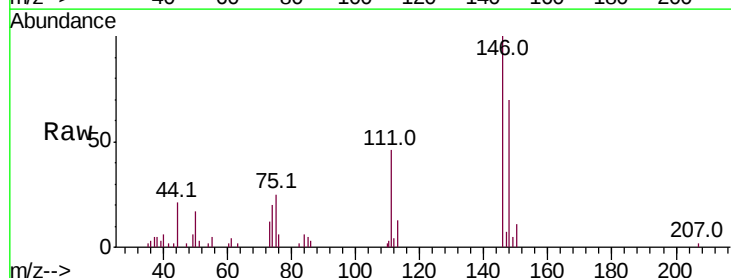
Tgt Ion:146 Resp: 4619

Ion Ratio Lower Upper

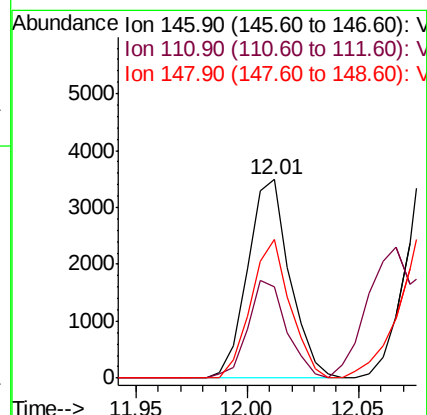
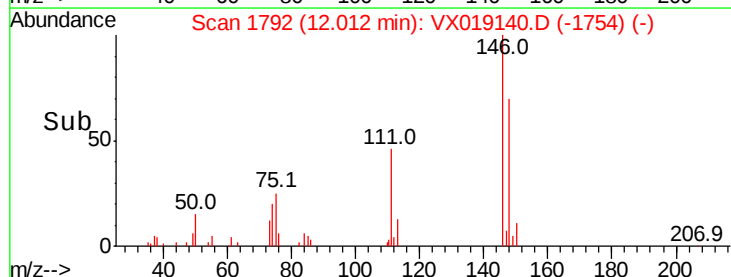
146 100

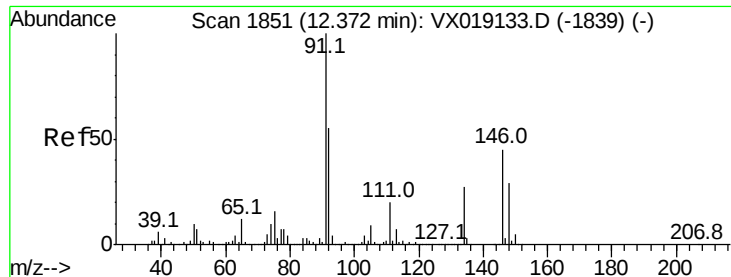
111 45.4 20.2 60.5

148 64.7 31.3 93.8



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

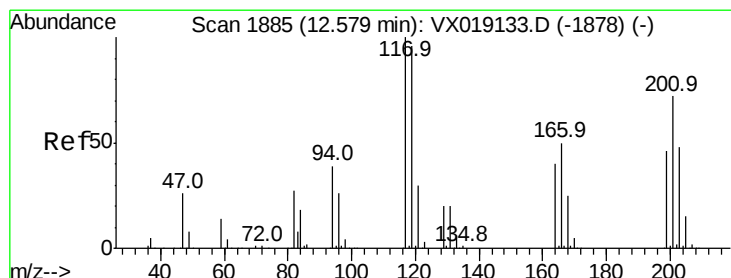
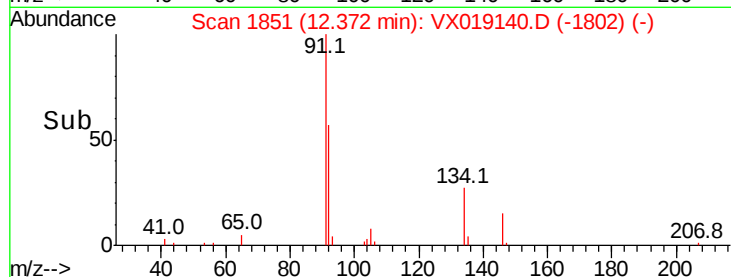
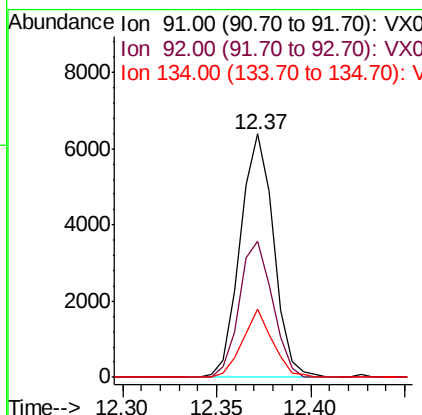
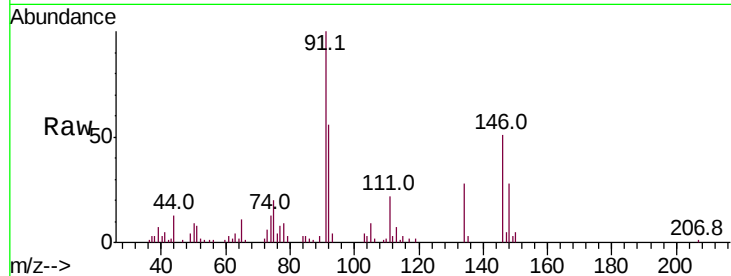




#89
n-Butylbenzene
Concen: 0.670 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

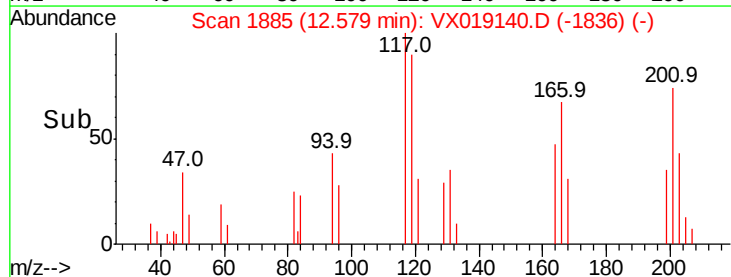
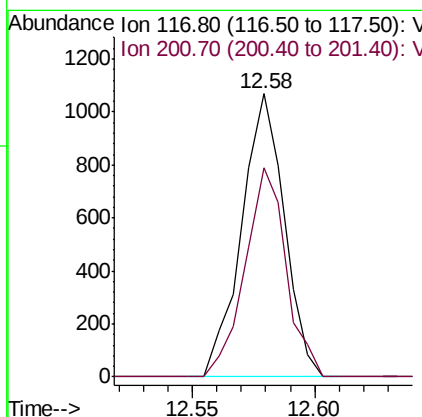
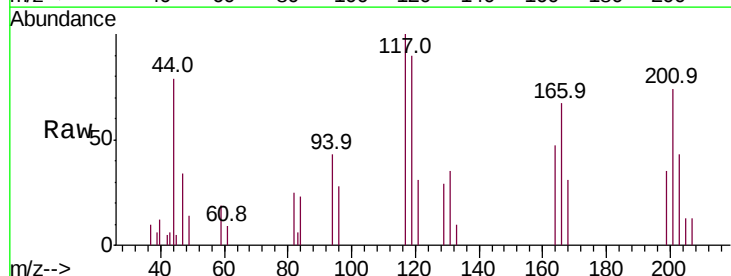
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT4-2020

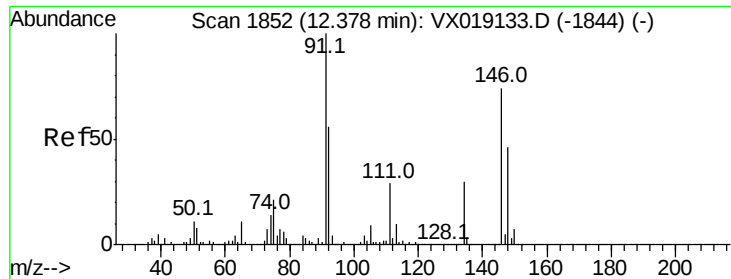
Tot Ion: 91 Resp: 7862
Ion Ratio Lower Upper
91 100
92 55.4 27.5 82.4
134 25.3 13.2 39.6



#90
Hexachloroethane
Concen: 0.612 ug/l
RT: 12.58 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX019140.D
Acq: 27 Oct 2020 16:49

Tgt Ion: 117 Resp: 1300
Ion Ratio Lower Upper
117 100
201 71.2 38.5 115.3

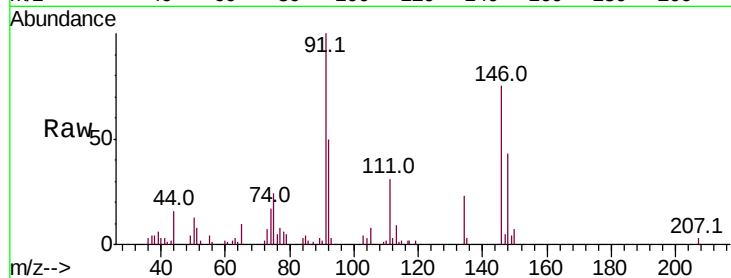




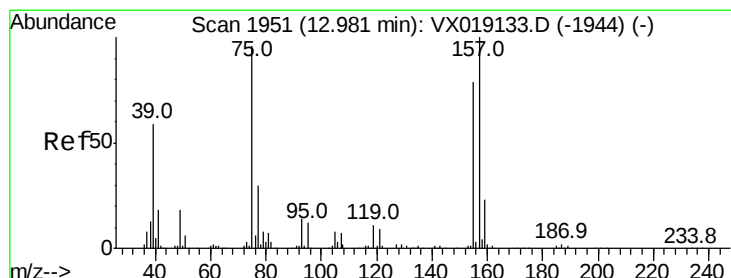
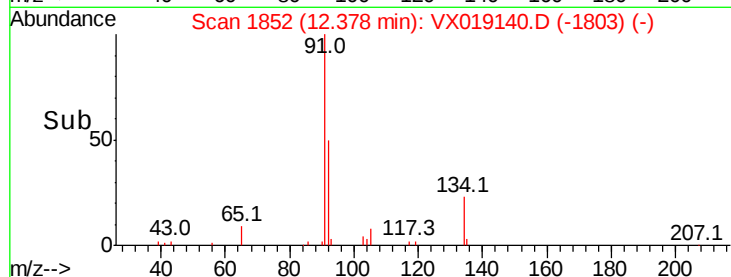
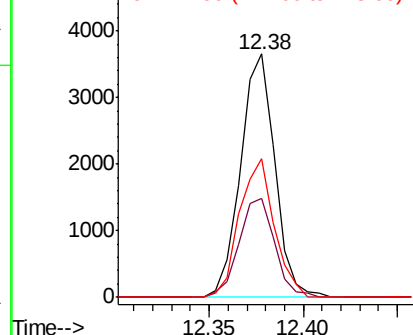
#91
 1,2-Dichlorobenzene
 Concen: 0.745 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

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

Tot Ion:146 Resp: 4612
 Ion Ratio Lower Upper
 146 100
 111 42.4 21.2 63.6
 148 57.6 31.6 94.7

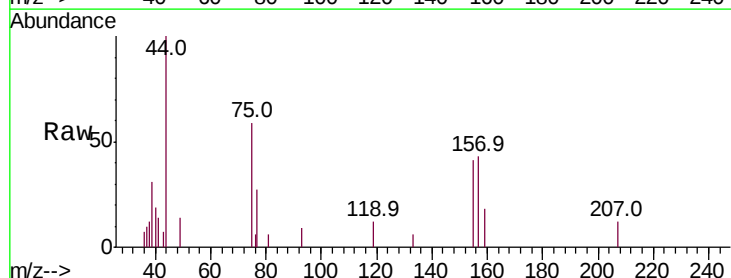


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

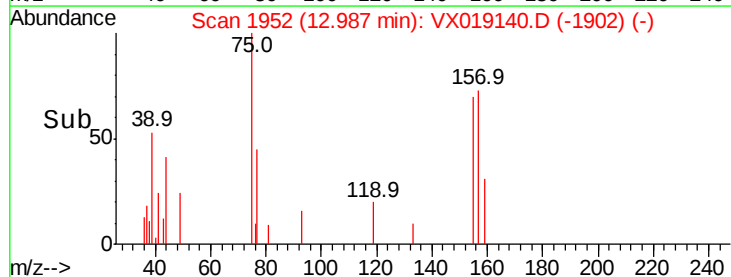
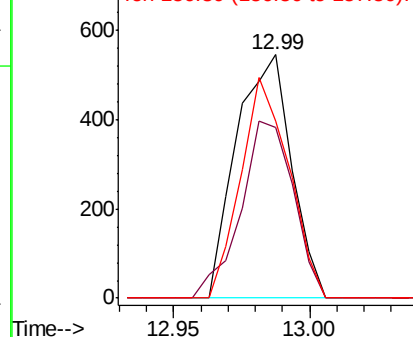


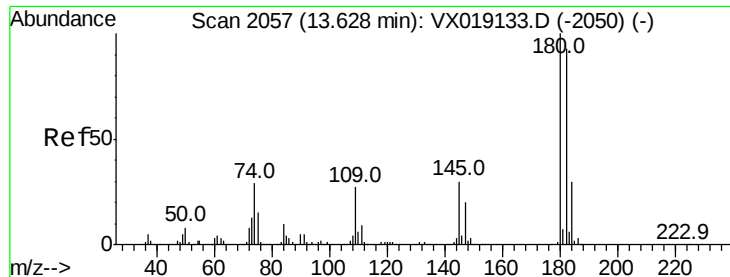
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.715 ug/l
 RT: 12.99 min Scan# 1952
 Delta R.T. 0.01 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

Tgt Ion: 75 Resp: 763
 Ion Ratio Lower Upper
 75 100
 155 69.9 42.8 128.4
 157 79.4 54.8 164.4



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

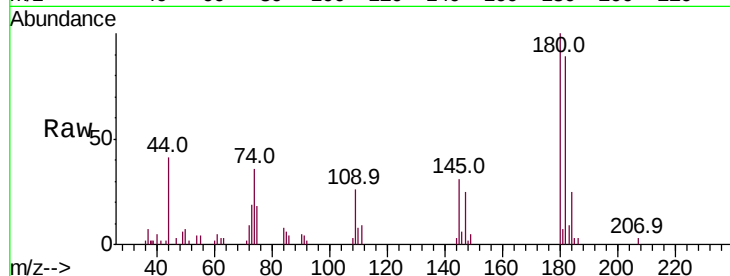




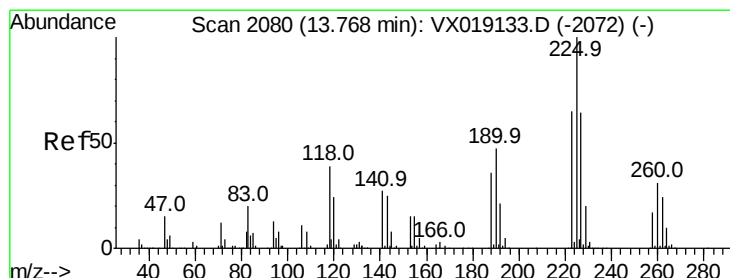
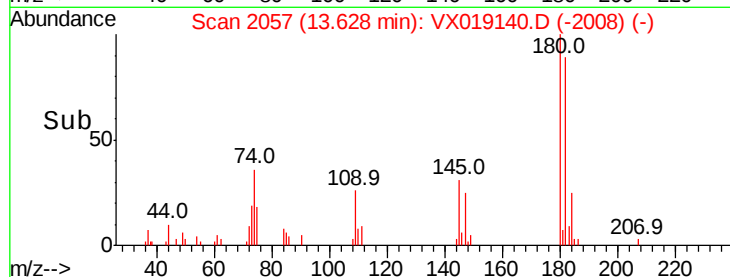
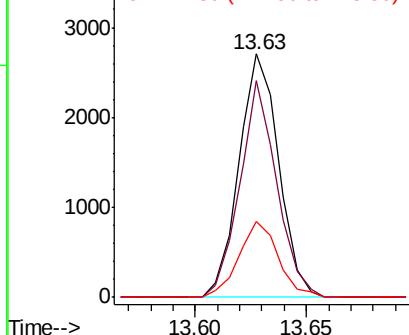
#93
 1,2,4-Trichlorobenzene
 Concen: 0.723 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	82.7	46.8	140.3
145	30.7	15.5	46.5

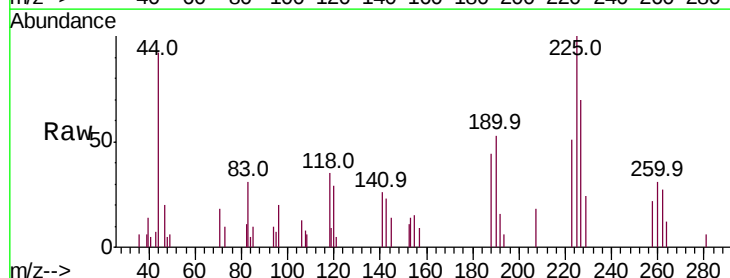


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

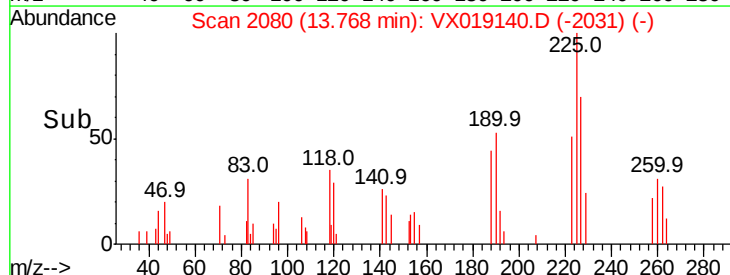
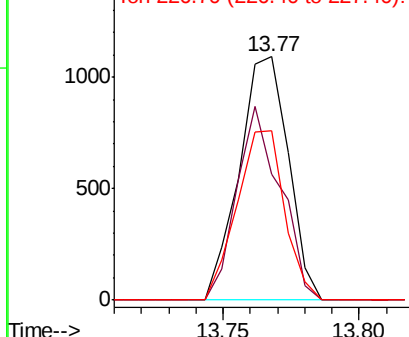


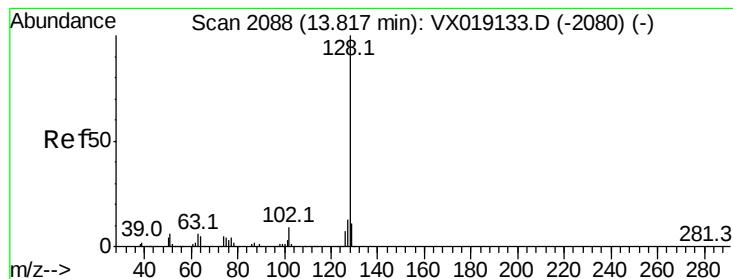
#94
 Hexachlorobutadiene
 Concen: 0.669 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX019140.D
 Acq: 27 Oct 2020 16:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	70.2	32.4	97.2
227	67.6	31.6	94.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.609 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT4-2020

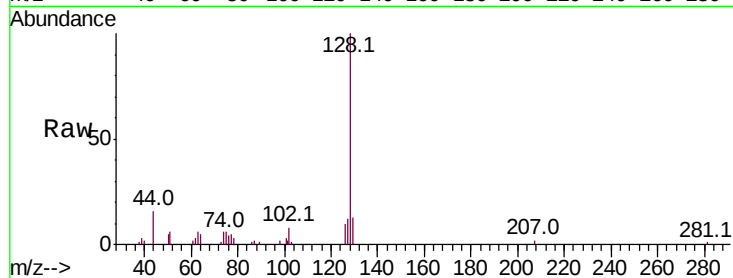
Tot Ion:128 Resp: 8915

Ion Ratio Lower Upper

128 100

127 12.0 10.3 15.5

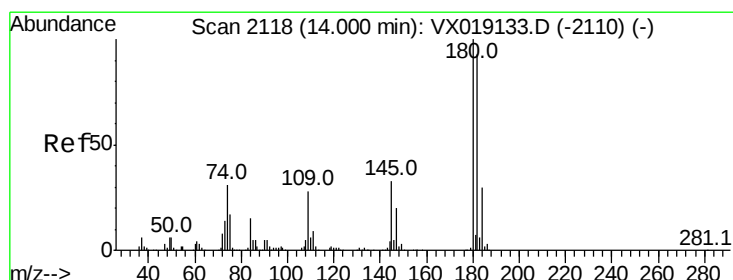
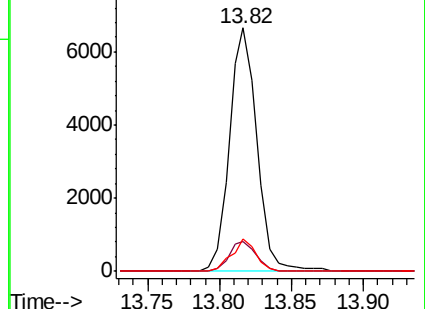
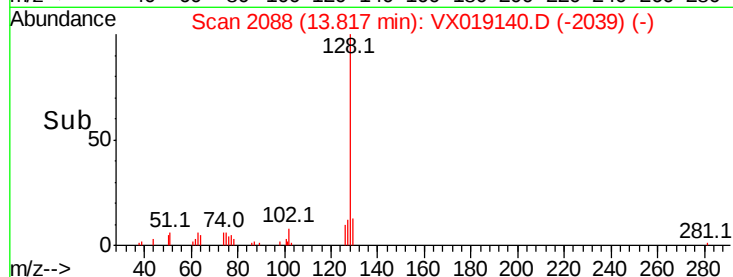
129 11.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.656 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX019140.D

Acq: 27 Oct 2020 16:49

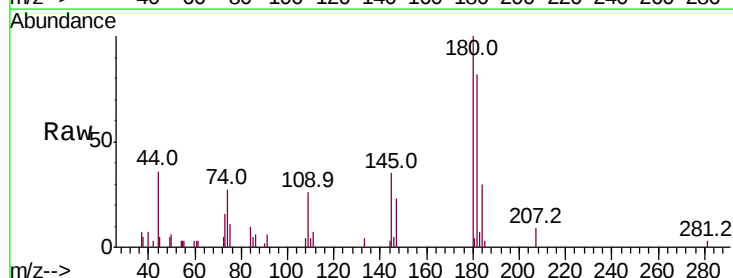
Tgt Ion:180 Resp: 2961

Ion Ratio Lower Upper

180 100

182 93.0 47.8 143.3

145 34.9 16.5 49.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

