

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101519\
 Data File : VX013076.D
 Acq On : 15 Oct 2019 14:30
 Operator : JC/SP
 Sample : K5111-07 .75PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Quant Time: Oct 16 05:59:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	161863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	273854	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	105403	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	103750	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
35) Dibromofluoromethane	5.49	113	80961	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
50) Toluene-d8	8.71	98	301740	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	11.14	95	109977	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1107	0.671	ug/l	85
3) Chloromethane	1.32	50	1184	0.659	ug/l	93
4) Vinyl Chloride	1.40	62	1226	0.662	ug/l	89
5) Bromomethane	1.63	94	1172	1.521	ug/l	91
6) Chloroethane	1.72	64	3430	3.375	ug/l	94
7) Trichlorofluoromethane	1.92	101	1710	0.684	ug/l	99
8) Diethyl Ether	2.19	74	756	0.749	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1204	0.744	ug/l	96
10) Methyl Iodide	2.51	142	1029	5.586	ug/l #	88
11) Tert butyl alcohol	3.02	59	3934	7.335	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	1021	0.624	ug/l	82
13) Acrolein	2.28	56	1087	2.852	ug/l	94
14) Allyl chloride	2.72	41	1799	0.618	ug/l	92
15) Acrylonitrile	3.14	53	3549	3.492	ug/l	90
16) Acetone	2.44	43	3638	3.412	ug/l	94
17) Carbon Disulfide	2.56	76	2951	0.633	ug/l #	93
18) Methyl Acetate	2.76	43	1782	0.705	ug/l	91
19) Methyl tert-butyl Ether	3.19	73	3891	0.689	ug/l #	88
20) Methylene Chloride	2.85	84	1534	0.783	ug/l #	91
21) trans-1,2-Dichloroethene	3.16	96	1317	0.751	ug/l	88
22) Diisopropyl ether	3.85	45	3711	0.665	ug/l #	85
23) Vinyl Acetate	3.81	43	13780	2.860	ug/l	95
24) 1,1-Dichloroethane	3.69	63	2263	0.721	ug/l #	92
25) 2-Butanone	4.68	43	4709	3.183	ug/l #	77
26) 2,2-Dichloropropane	4.57	77	1614	0.611	ug/l	98
27) cis-1,2-Dichloroethene	4.58	96	1347	0.667	ug/l	63
28) Bromochloromethane	5.01	49	656	0.254	ug/l #	96
29) Tetrahydrofuran	5.14	42	3102	3.407	ug/l #	86
30) Chloroform	5.22	83	2479	0.769	ug/l #	82
31) Cyclohexane	5.57	56	2220	0.756	ug/l #	93
32) 1,1,1-Trichloroethane	5.49	97	1752	0.642	ug/l #	44
36) 1,1-Dichloropropene	5.78	75	1662	0.690	ug/l #	86
37) Ethyl Acetate	4.83	43	1684	0.625	ug/l #	85
38) Carbon Tetrachloride	5.77	117	1612	0.688	ug/l #	71

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.45	83	1908	0.653	ug/l	98
40) Benzene	6.13	78	5193	0.730	ug/l	92
41) Methacrylonitrile	5.04	41	918	0.621	ug/l #	43
42) 1,2-Dichloroethane	6.18	62	1834	0.719	ug/l	79
43) Isopropyl Acetate	6.43	43	2677	0.619	ug/l #	89
44) Trichloroethene	7.20	130	1360	0.690	ug/l	86
45) 1,2-Dichloropropane	7.51	63	1251	0.690	ug/l #	72
46) Dibromomethane	7.66	93	802	0.664	ug/l #	75
47) Bromodichloromethane	7.89	83	1588	0.674	ug/l	94
48) Methyl methacrylate	7.77	41	1212	0.576	ug/l	89
49) 1,4-Dioxane	7.75	88	684	46.763	ug/l	91
51) 4-Methyl-2-Pentanone	8.64	43	8144	3.023	ug/l	99
52) Toluene	8.78	92	3297	0.725	ug/l	94
53) t-1,3-Dichloropropene	9.04	75	1563	2.677	ug/l	96
54) cis-1,3-Dichloropropene	8.43	75	1680	0.580	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	1352	0.751	ug/l #	88
56) Ethyl methacrylate	9.17	69	1594	2.308	ug/l #	87
57) 1,3-Dichloropropane	9.37	76	2007	0.644	ug/l #	86
58) 2-Chloroethyl Vinyl ether	8.31	63	3533	2.671	ug/l	92
59) 2-Hexanone	9.49	43	6157	2.936	ug/l	94
60) Dibromochloromethane	9.58	129	1010	2.342	ug/l	90
61) 1,2-Dibromoethane	9.67	107	1196	0.631	ug/l	90
64) Tetrachloroethene	9.33	164	1374	0.821	ug/l #	92
65) Chlorobenzene	10.14	112	3371	0.704	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	945	0.569	ug/l #	63
67) Ethyl Benzene	10.25	91	5588	0.657	ug/l	99
68) m/p-Xylenes	10.35	106	3708	1.167	ug/l	92
69) o-Xylene	10.70	106	2119	0.684	ug/l	99
70) Styrene	10.71	104	3036	0.576	ug/l	96
71) Bromoform	10.85	173	537	3.489	ug/l #	98
73) Isopropylbenzene	11.01	105	5452	0.704	ug/l	97
74) N-amyl acetate	10.90	43	1633	0.489	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.26	83	1823	0.707	ug/l	94
76) 1,2,3-Trichloropropane	11.29	75	1974	0.844	ug/l	81
77) Bromobenzene	11.25	156	1305	0.715	ug/l	98
78) n-propylbenzene	11.35	91	5655	0.663	ug/l	100
79) 2-Chlorotoluene	11.42	91	4025	0.751	ug/l	93
80) 1,3,5-Trimethylbenzene	11.50	105	4192	0.648	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.14	75	53521	58.146	ug/l #	10
82) 4-Chlorotoluene	11.51	91	4175	0.680	ug/l	100
83) tert-Butylbenzene	11.77	119	4003	0.634	ug/l	88
84) 1,2,4-Trimethylbenzene	11.81	105	4030	0.615	ug/l	98
85) sec-Butylbenzene	11.94	105	4612	0.631	ug/l	100
86) p-Isopropyltoluene	12.06	119	4105	0.605	ug/l	92
87) 1,3-Dichlorobenzene	12.03	146	2423	0.715	ug/l	97
88) 1,4-Dichlorobenzene	12.03	146	2423	0.706	ug/l	97
89) n-Butylbenzene	12.39	91	3288	0.577	ug/l	97
90) Hexachloroethane	12.59	117	635	2.602	ug/l	100
91) 1,2-Dichlorobenzene	12.39	146	2528	0.760	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	12.99	75	323	0.535	ug/l	88

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Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:48:22 2019
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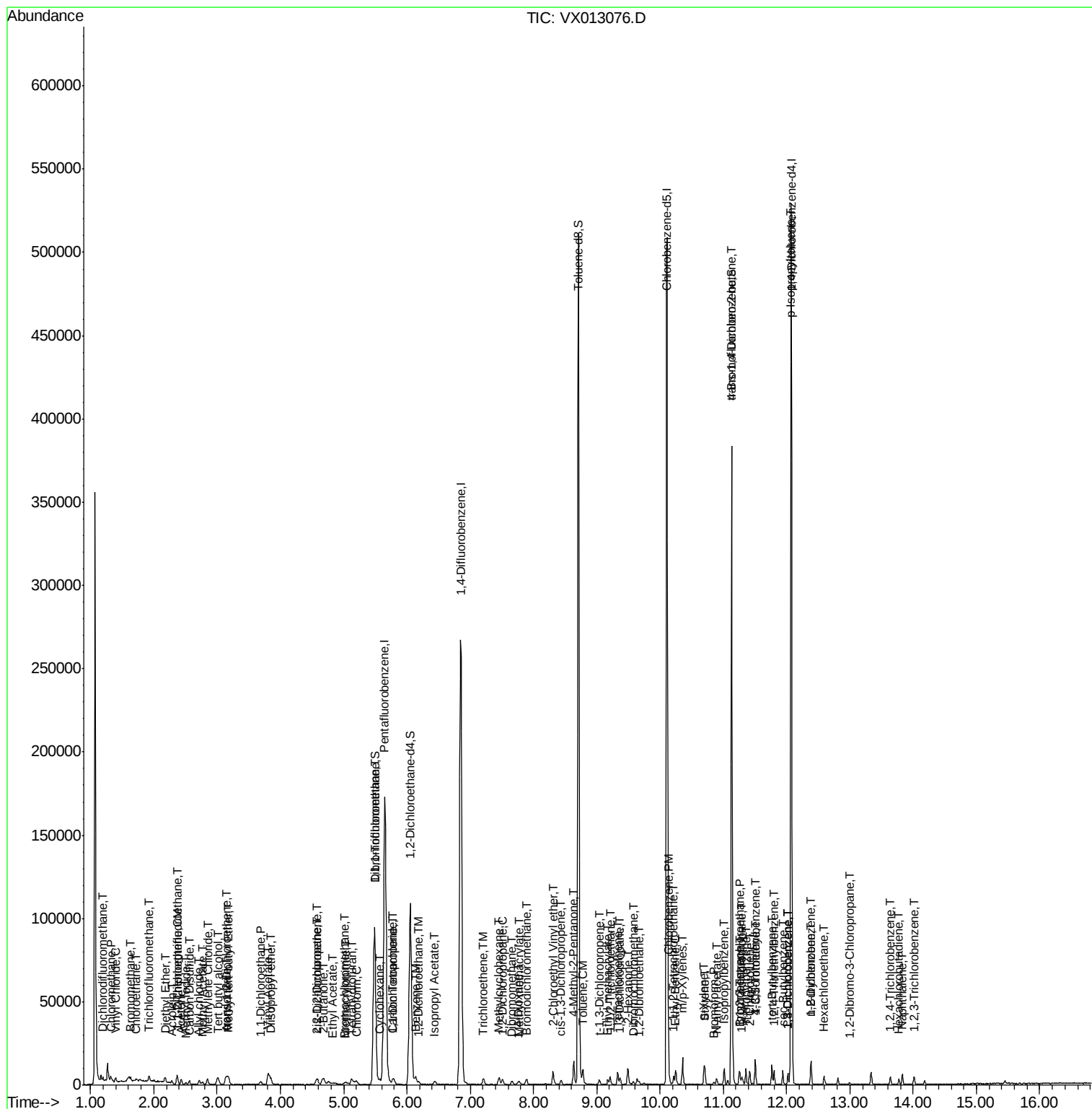
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	1285	0.617	ug/l	95
94) Hexachlorobutadiene	13.78	225	471	0.490	ug/l	71
95) Naphthalene	13.83	128	3981	0.551	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	1317	0.612	ug/l	95

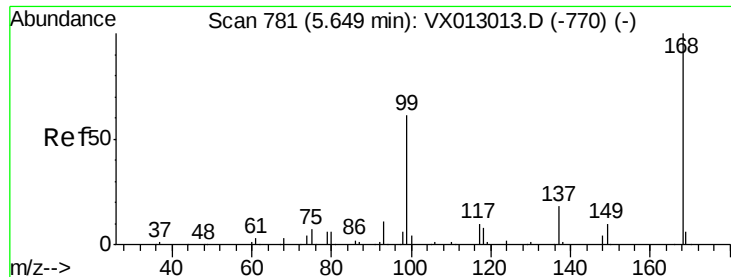
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VQASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:48:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

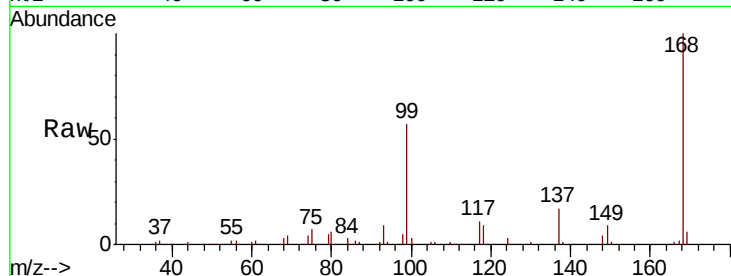
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:168 Resp: 161863

Ion Ratio Lower Upper

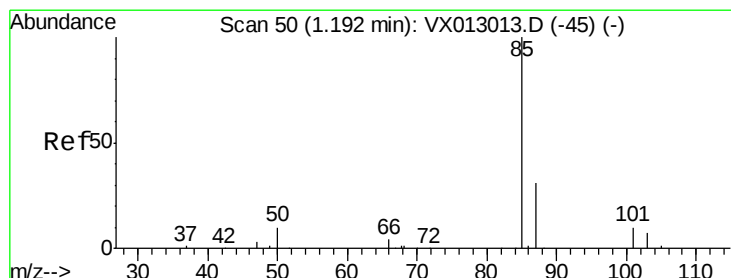
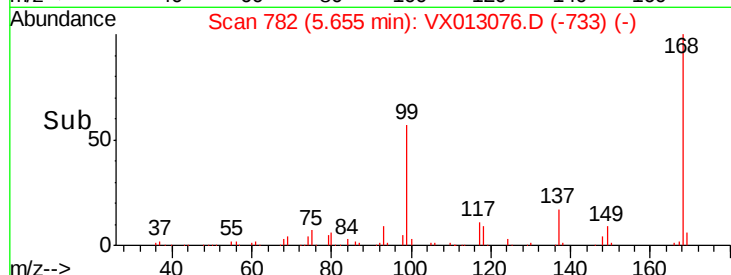
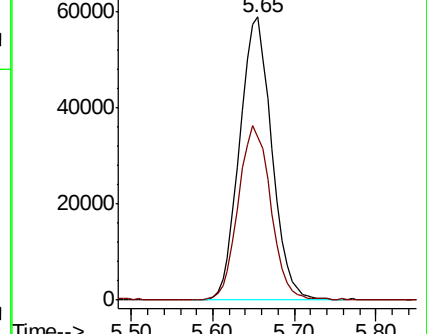
168 100

99 57.4 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.671 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013076.D

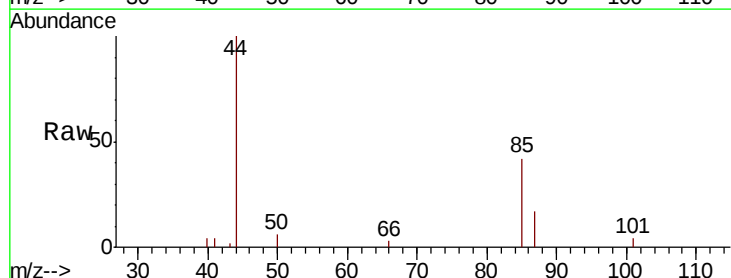
Acq: 15 Oct 2019 14:30

Tgt Ion: 85 Resp: 1107

Ion Ratio Lower Upper

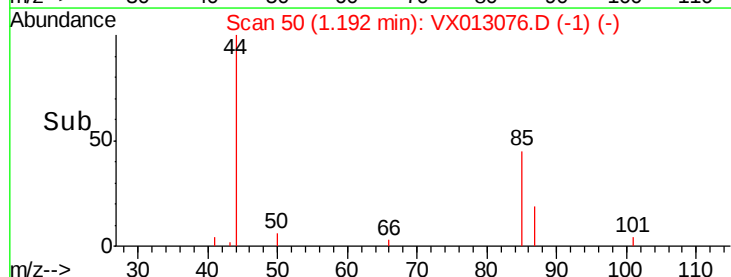
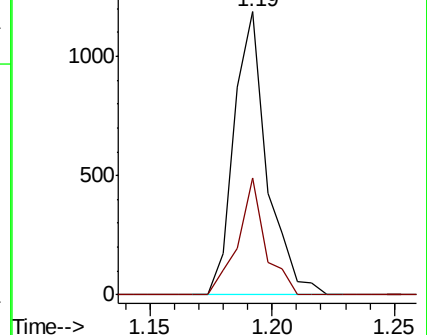
85 100

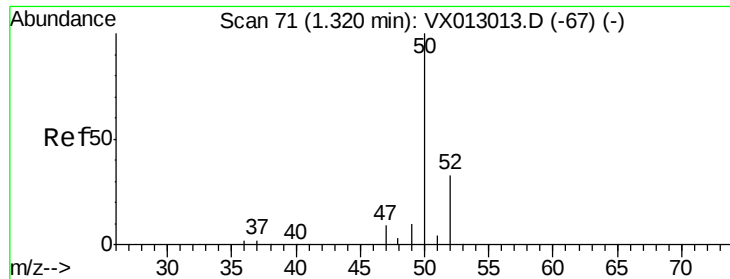
87 41.4 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.659 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

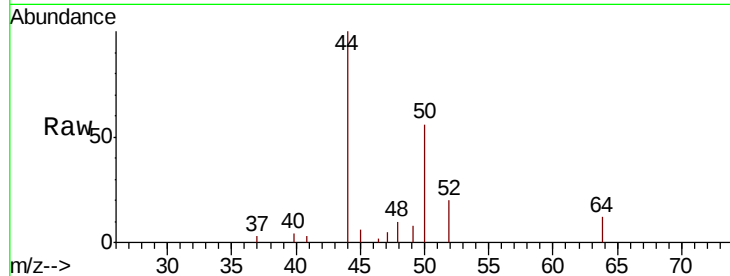
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 50 Resp: 1184

Ion Ratio Lower Upper

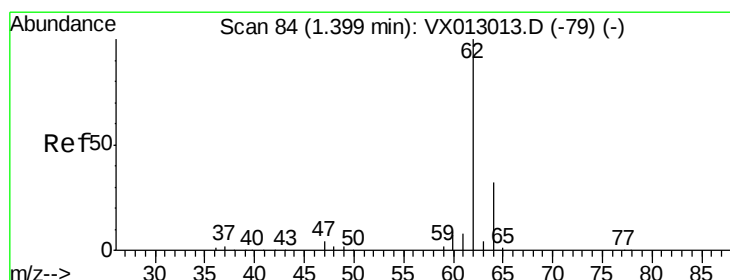
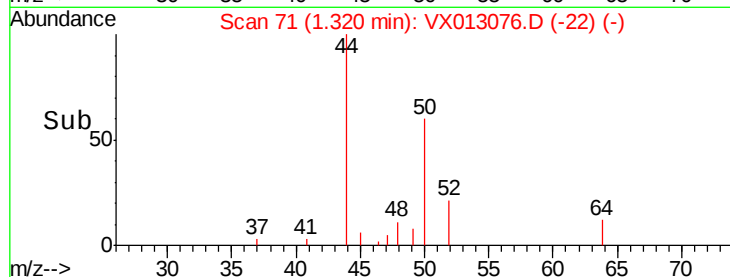
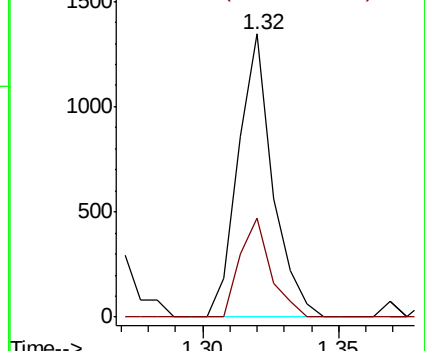
50 100

52 35.1 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.662 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013076.D

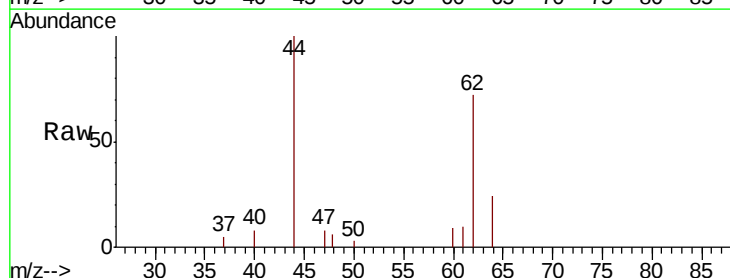
Acq: 15 Oct 2019 14:30

Tgt Ion: 62 Resp: 1226

Ion Ratio Lower Upper

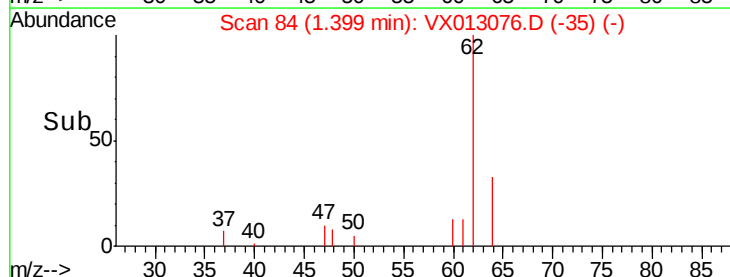
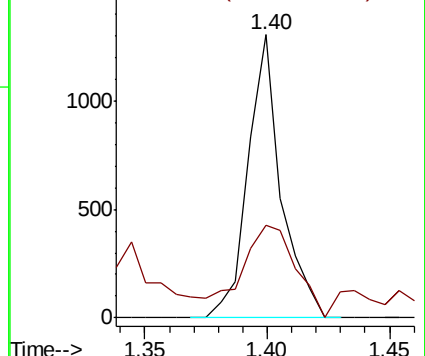
62 100

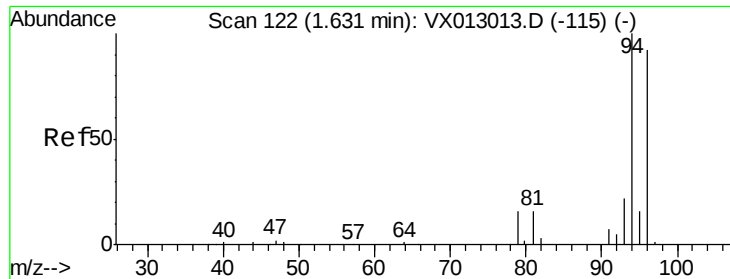
64 25.6 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 1.521 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

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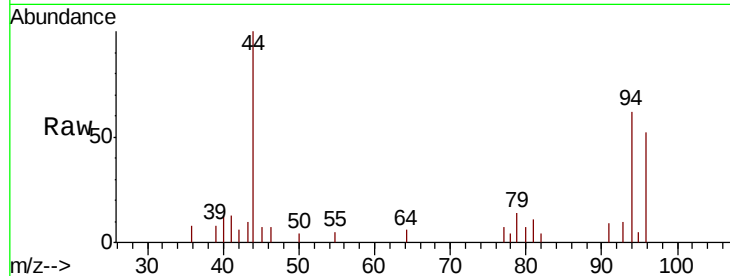
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 94 Resp: 1172

Ion Ratio Lower Upper

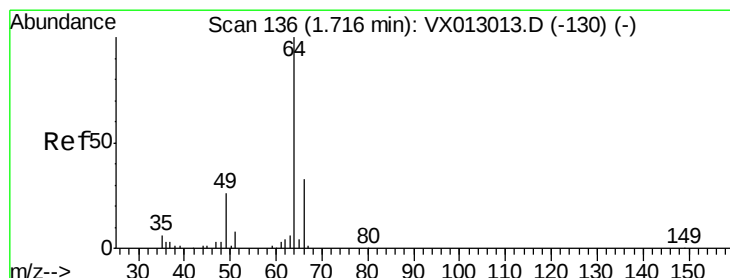
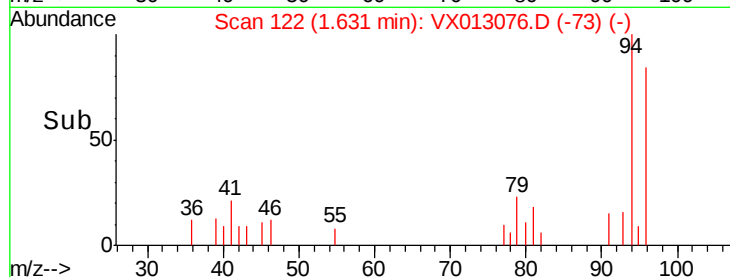
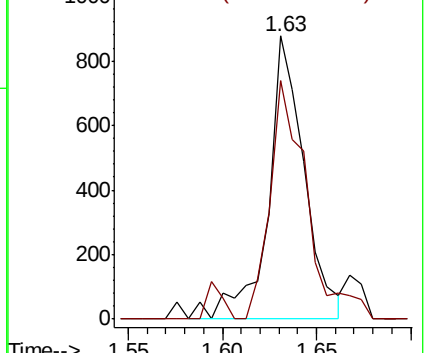
94 100

96 84.5 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 3.375 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013076.D

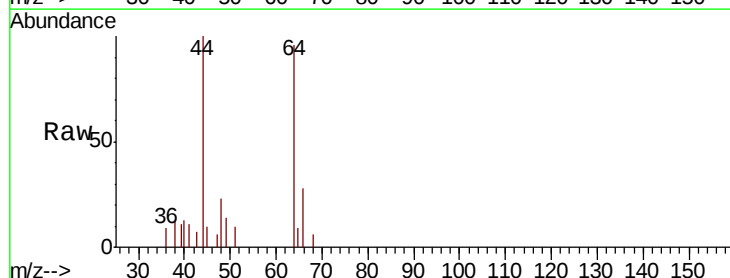
Acq: 15 Oct 2019 14:30

Tgt Ion: 64 Resp: 3430

Ion Ratio Lower Upper

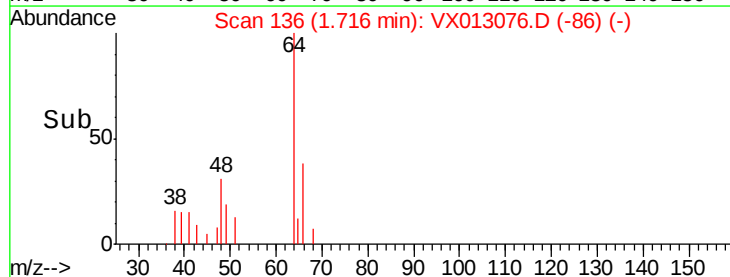
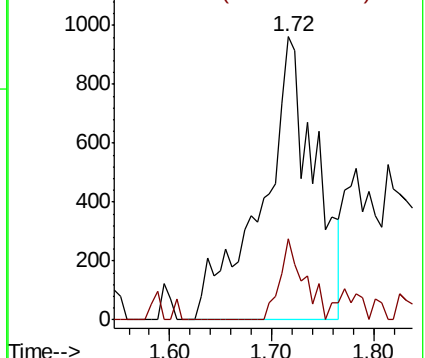
64 100

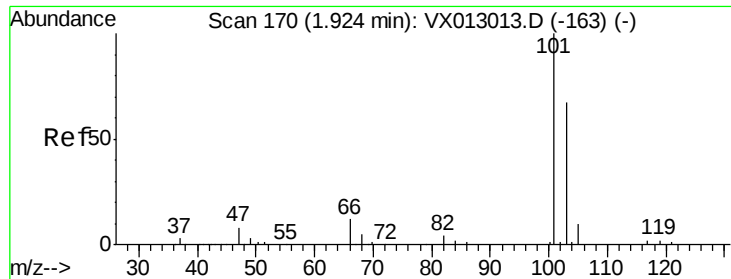
66 28.8 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



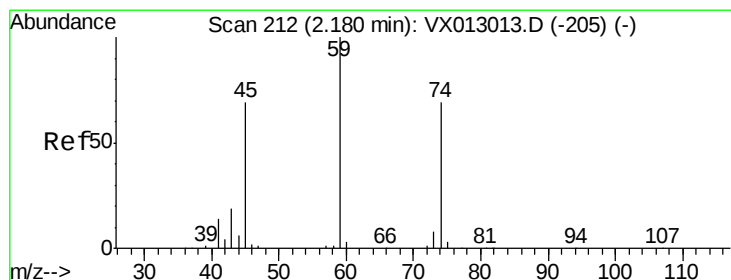
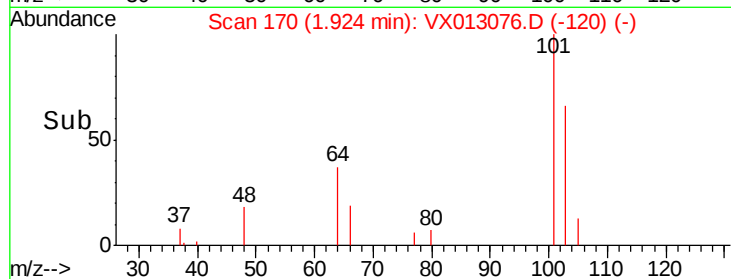
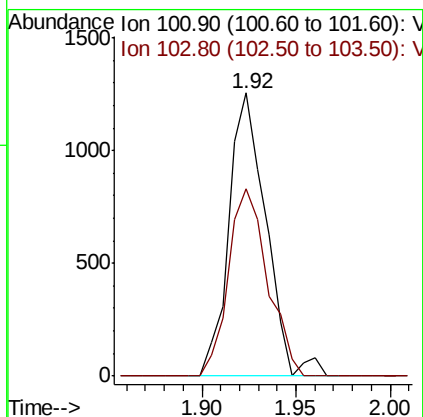
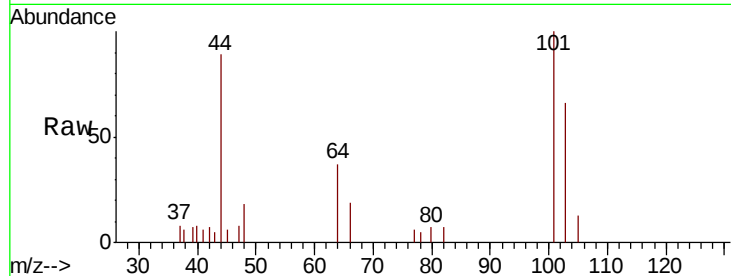


#7

Trichlorofluoromethane
Concen: 0.684 ug/l
RT: 1.92 min Scan# 170
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Instrument :
MSVOA_X
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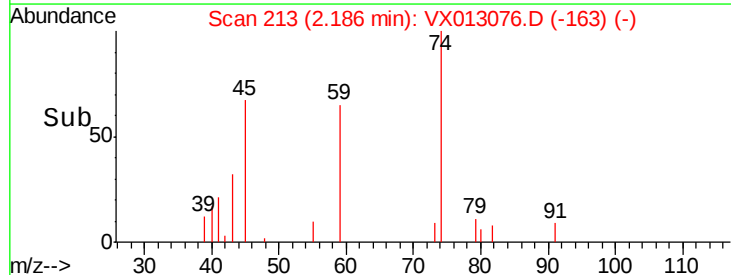
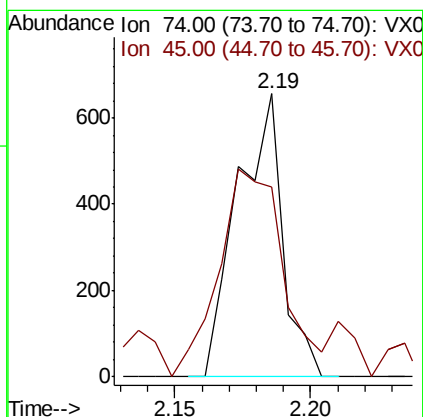
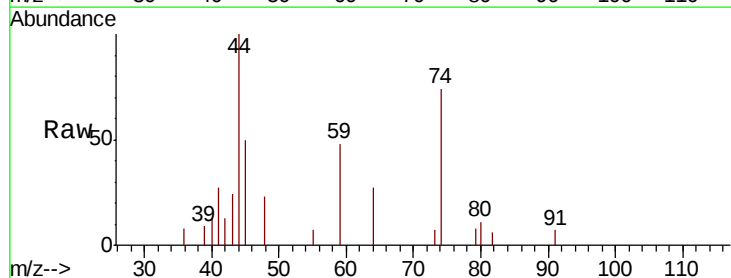
Tot Ion:101 Resp: 1710
Ion Ratio Lower Upper
101 100
103 66.1 52.5 78.7

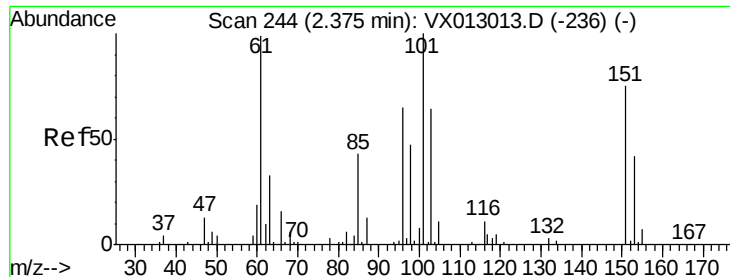


#8

Diethyl Ether
Concen: 0.749 ug/l
RT: 2.19 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 74 Resp: 756
Ion Ratio Lower Upper
74 100
45 103.8 47.8 143.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.744 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

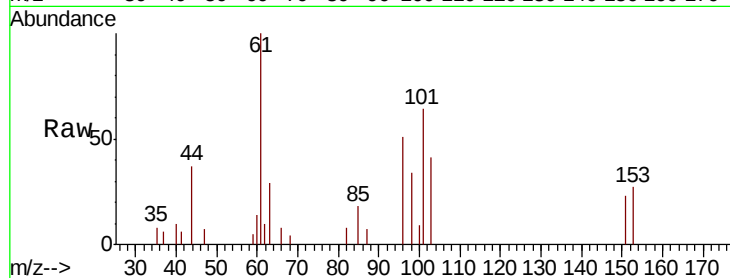
Tot Ion:101 Resp: 1204

Ion Ratio Lower Upper

101 100

85 43.4 35.2 52.8

151 70.2 60.3 90.5



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

1000

800

600

400

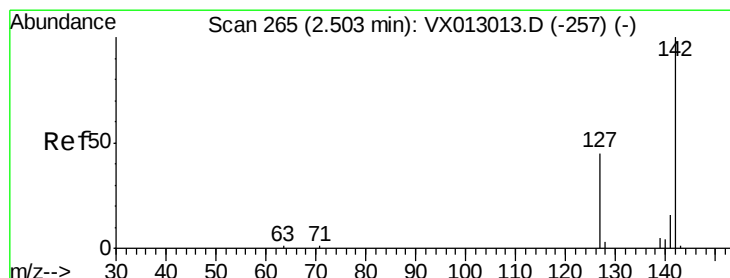
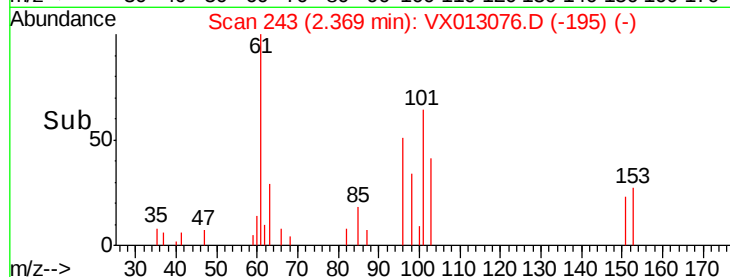
200

0

2.35

2.40

Time-->



#10

Methyl Iodide

Concen: 5.586 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

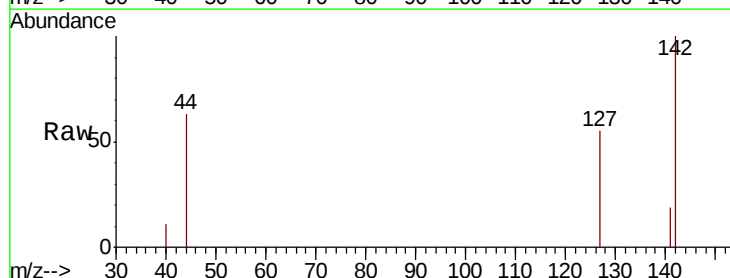
Tgt Ion:142 Resp: 1029

Ion Ratio Lower Upper

142 100

127 52.2 34.9 52.3

141 17.5 11.6 17.4#



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

800

600

400

200

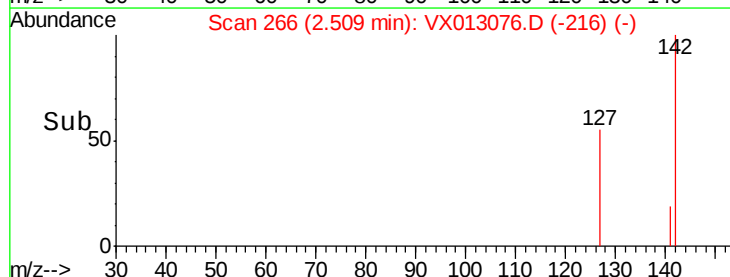
0

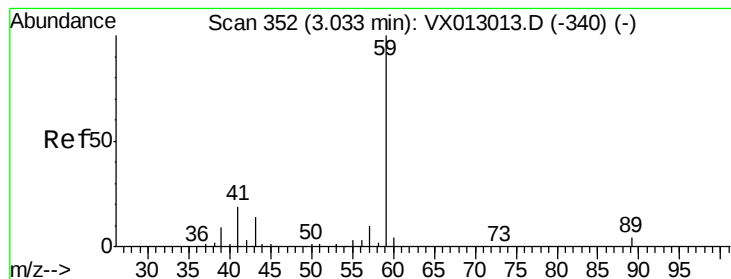
2.45

2.50

2.55

Time-->



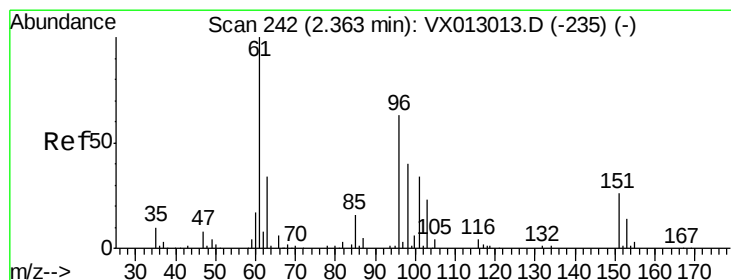
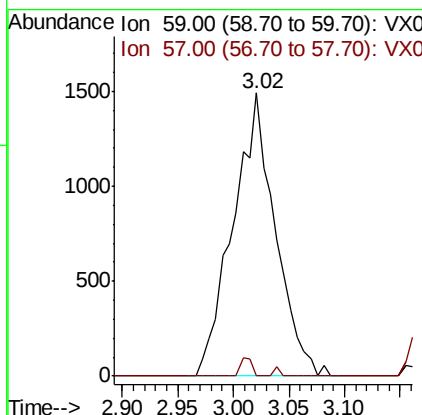
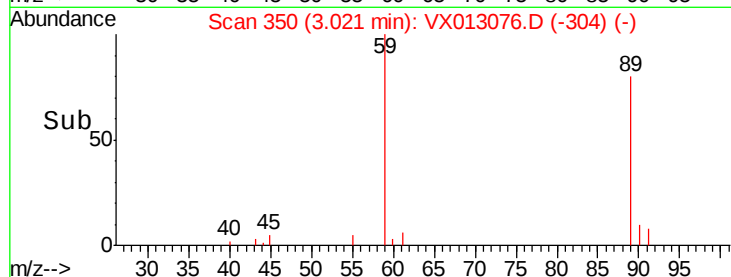
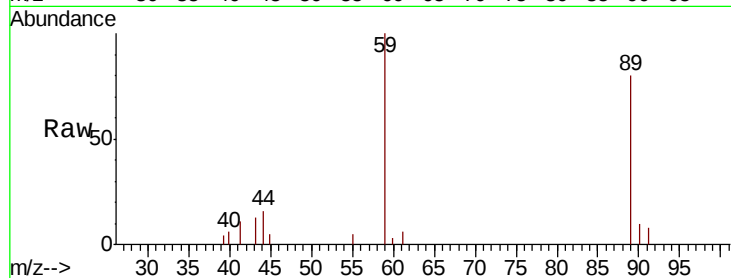


#11

Tert butvl alcohol
 Concen: 7.335 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.02 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

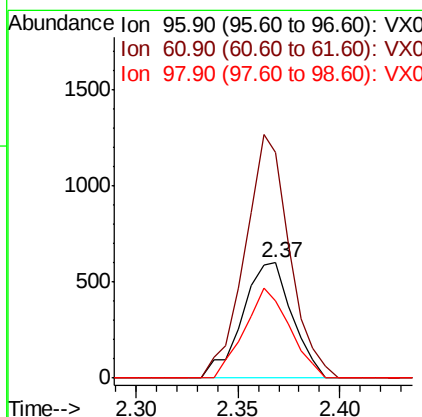
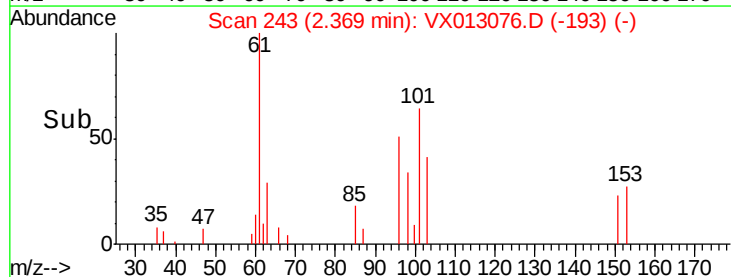
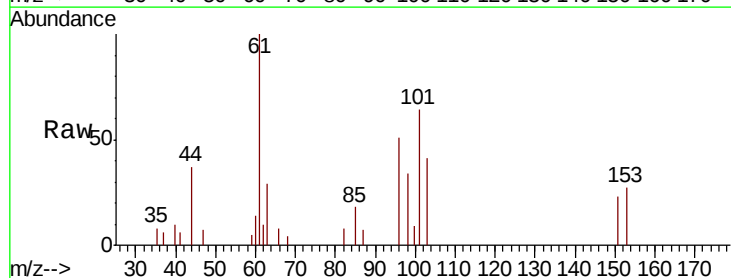
Tot Ion: 59 Resp: 3934
 Ion Ratio Lower Upper
 59 100
 57 1.8 8.3 12.5#

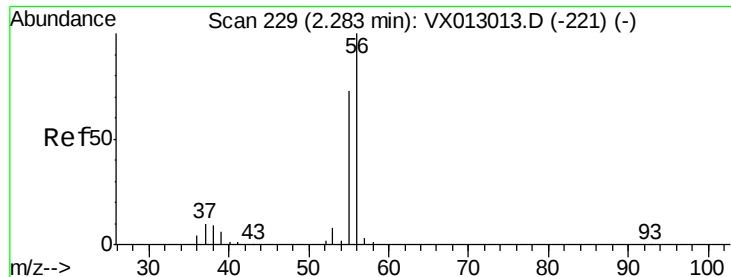


#12

1,1-Dichloroethene
 Concen: 0.624 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 96 Resp: 1021
 Ion Ratio Lower Upper
 96 100
 61 196.2 132.2 198.4
 98 67.4 50.5 75.7





#13

Acrolein

Concen: 2.852 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

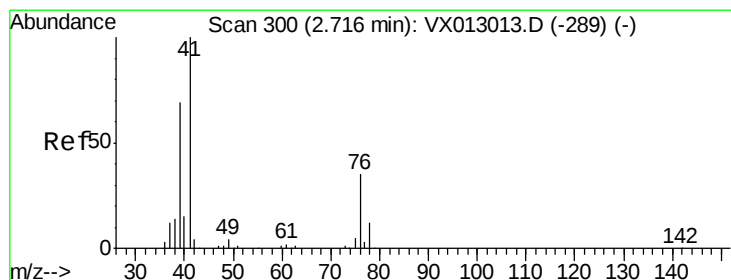
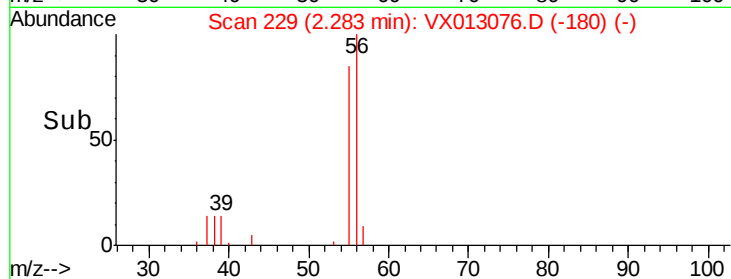
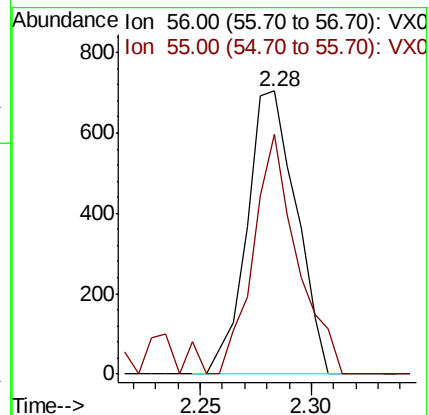
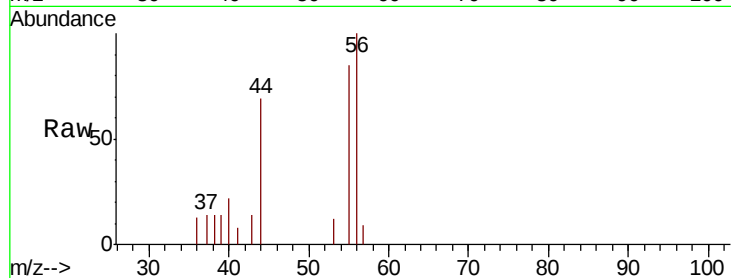
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 56 Resp: 1087

Ion Ratio Lower Upper

56 100

55 75.3 56.6 85.0



#14

Allyl chloride

Concen: 0.618 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

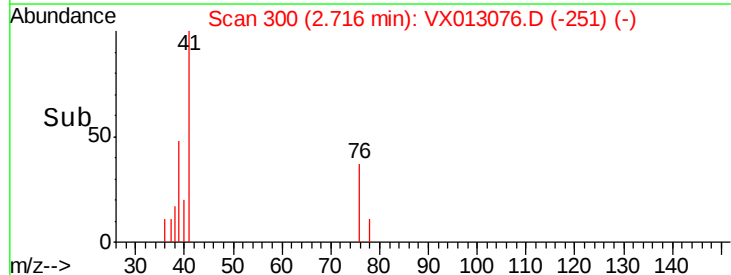
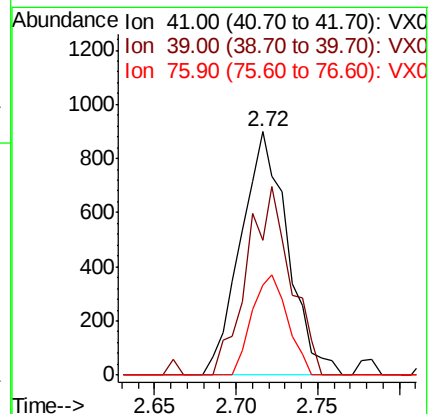
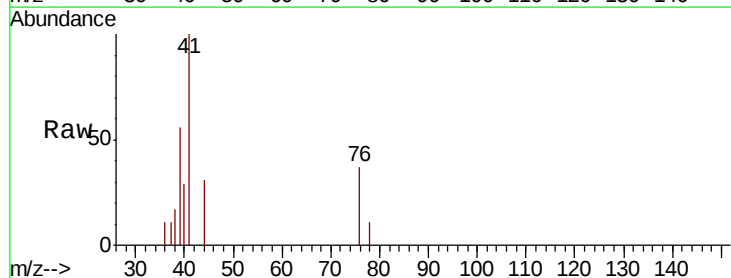
Tgt Ion: 41 Resp: 1799

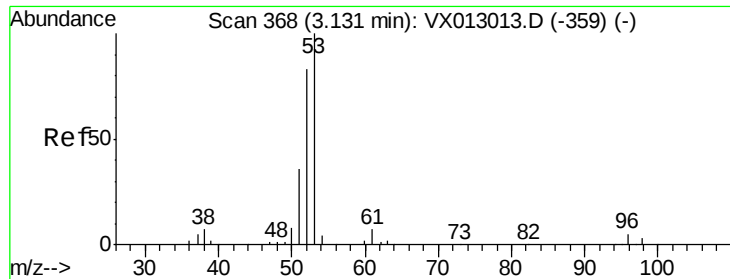
Ion Ratio Lower Upper

41 100

39 72.3 51.0 76.6

76 31.3 26.2 39.4





#15

Acrylonitrile

Concen: 3.492 ug/l

RT: 3.14 min Scan# 369

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

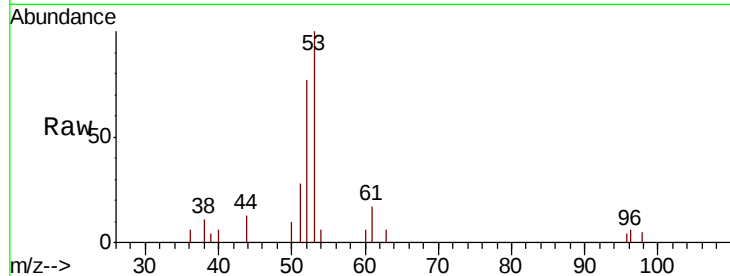
Tot Ion: 53 Resp: 3549

Ion Ratio Lower Upper

53 100

52 71.2 66.2 99.2

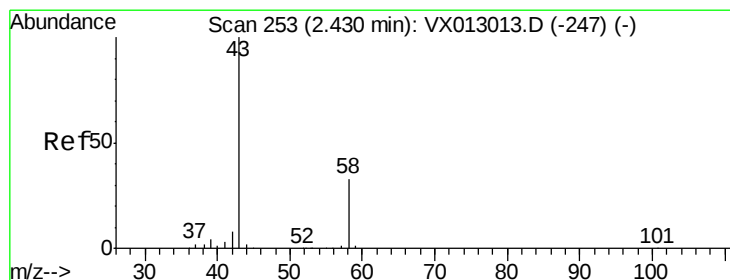
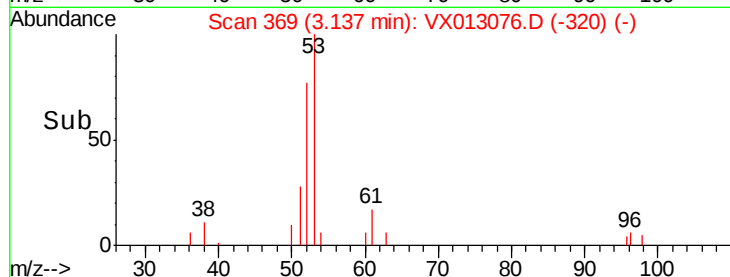
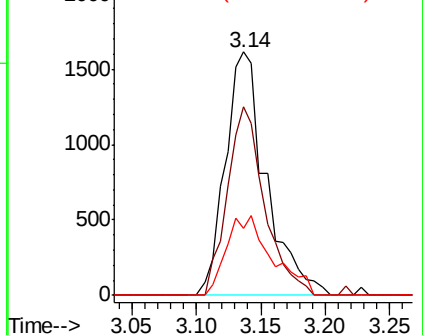
51 36.7 28.2 42.4



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: 3.412 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013076.D

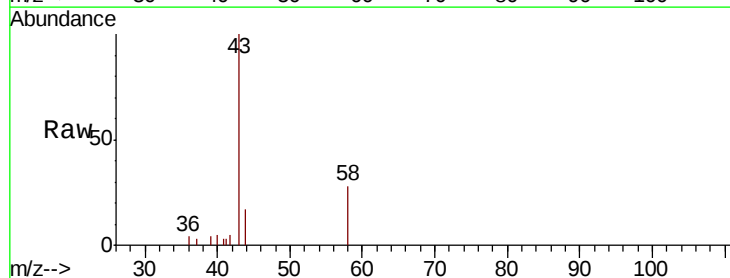
Acq: 15 Oct 2019 14:30

Tgt Ion: 43 Resp: 3638

Ion Ratio Lower Upper

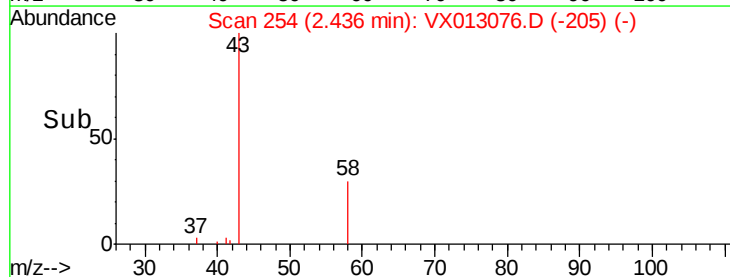
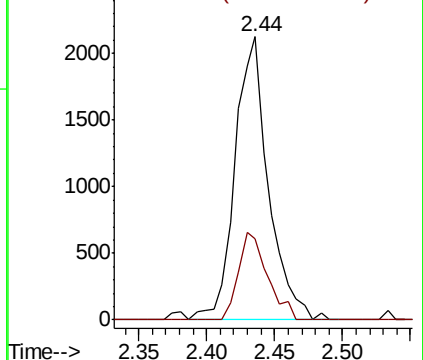
43 100

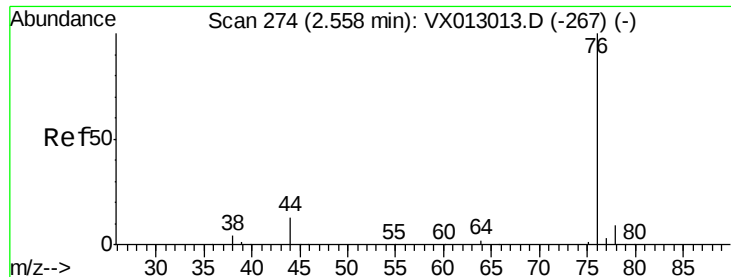
58 28.5 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

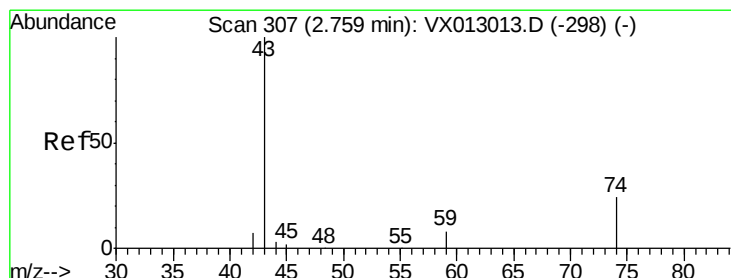
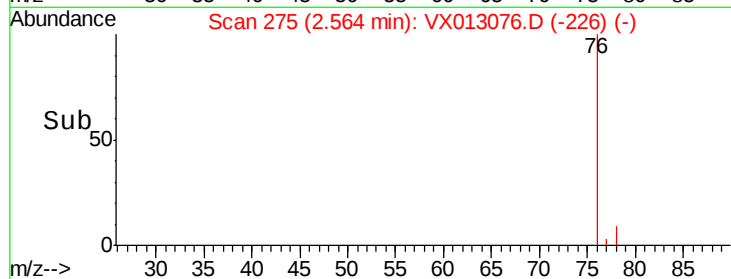
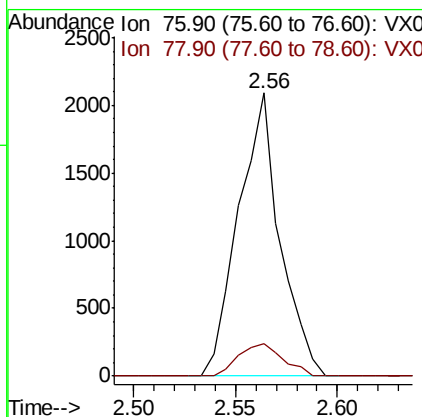
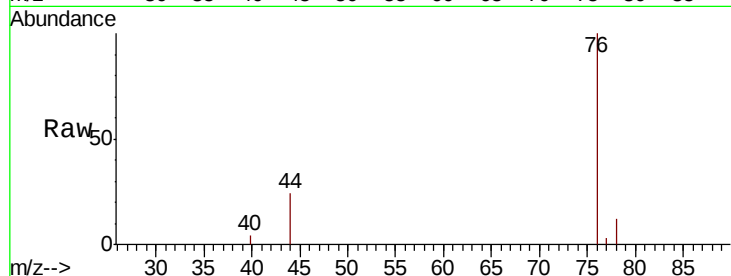




#17
Carbon Disulfide
Concen: 0.633 ug/l
RT: 2.56 min Scan# 275
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

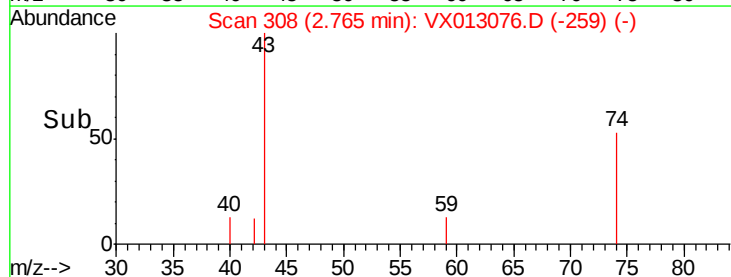
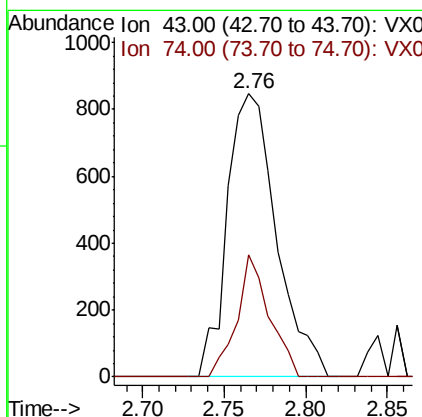
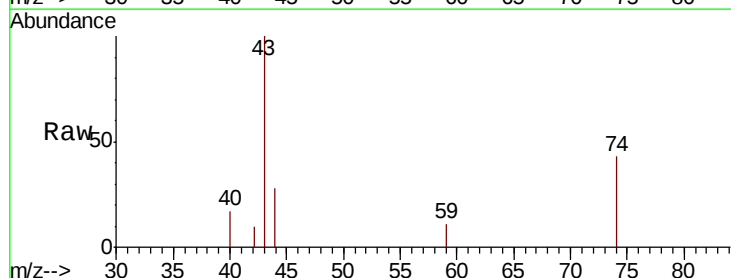
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

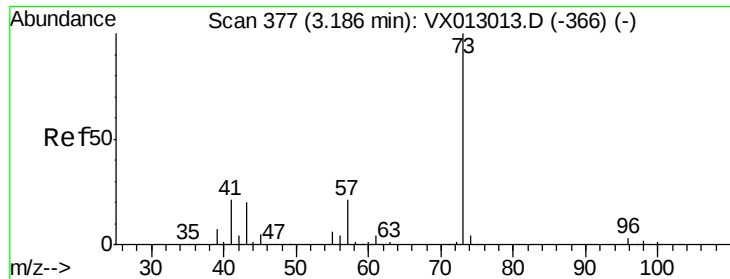
Tot Ion: 76 Resp: 2951
Ion Ratio Lower Upper
76 100
78 11.6 7.1 10.7#



#18
Methyl Acetate
Concen: 0.705 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 43 Resp: 1782
Ion Ratio Lower Upper
43 100
74 28.4 19.2 28.8

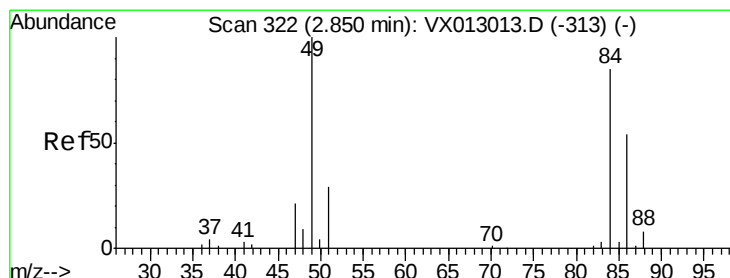
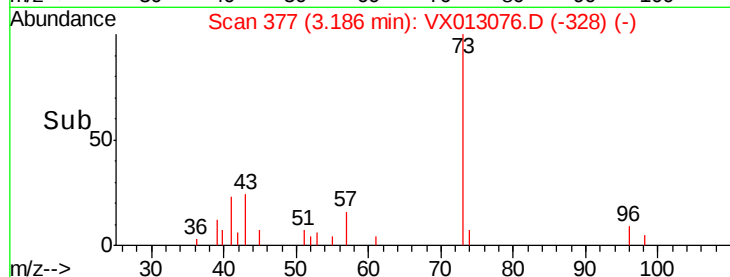
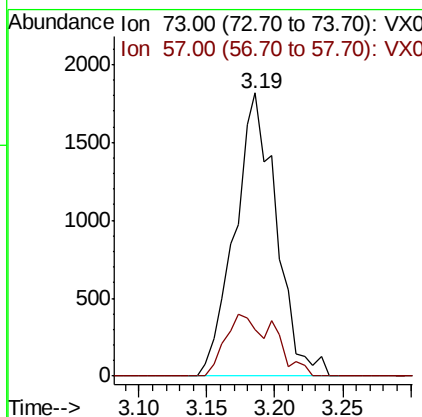
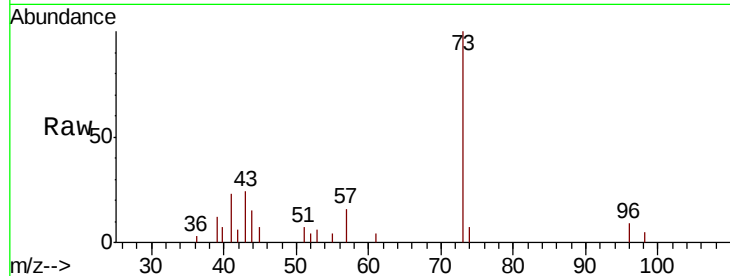




#19
Methyl tert-butyl Ether
Concen: 0.689 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

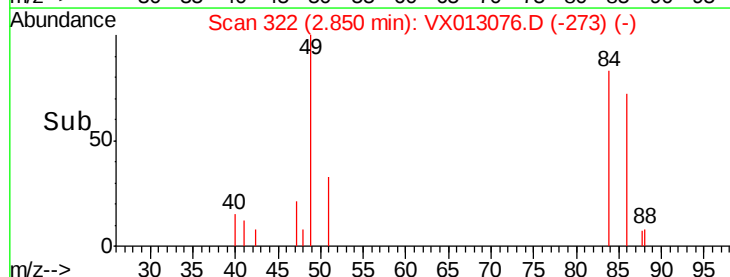
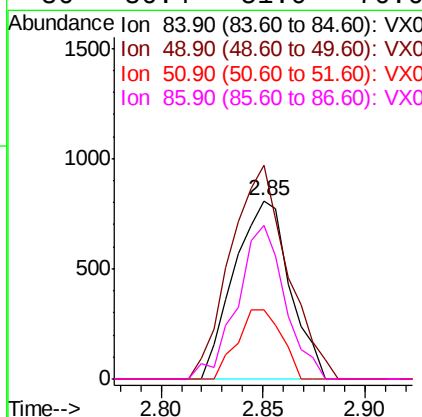
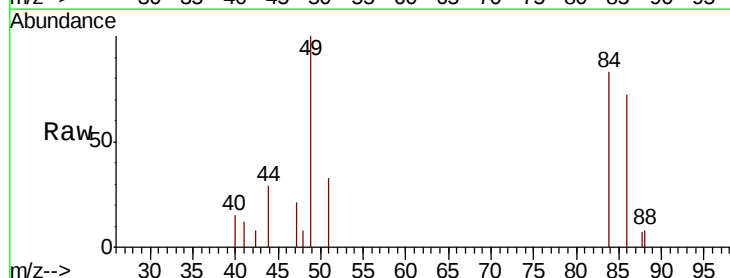
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

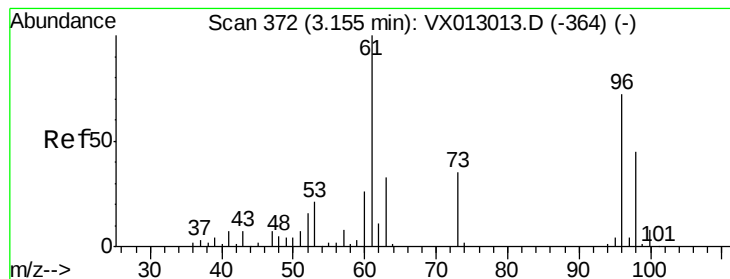
Tot Ion: 73 Resp: 3891
Ion Ratio Lower Upper
73 100
57 16.3 17.8 26.6#



#20
Methylene Chloride
Concen: 0.783 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 84 Resp: 1534
Ion Ratio Lower Upper
84 100
49 119.8 96.6 144.8
51 39.1 30.7 46.1
86 86.4 51.0 76.6#





#21

trans-1,2-Dichloroethene

Concen: 0.751 ug/l

RT: 3.16 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

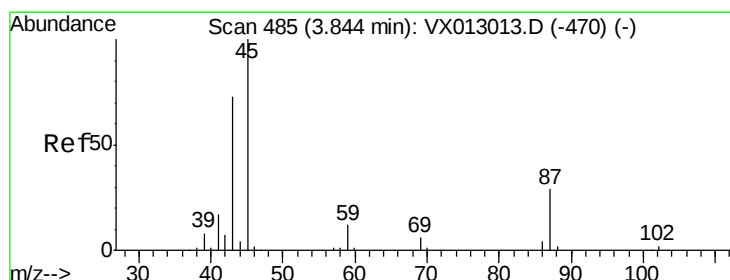
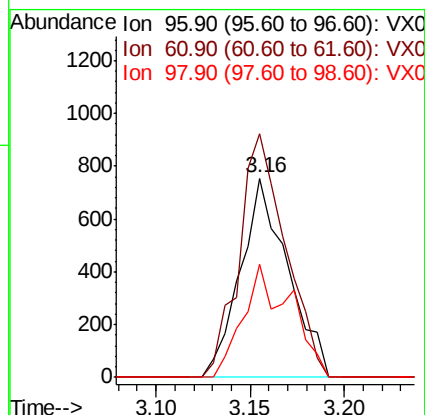
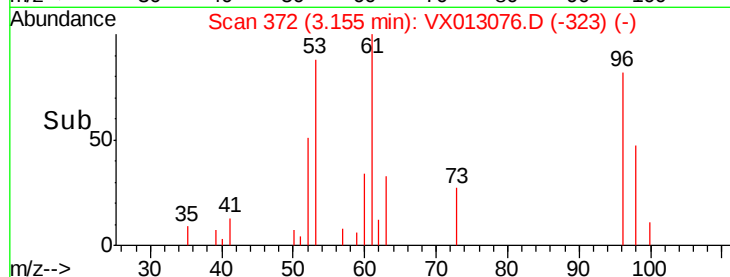
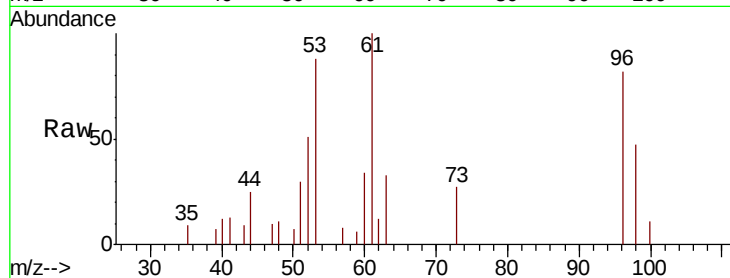
Tot Ion: 96 Resp: 1317

Ion Ratio Lower Upper

96 100

61 122.4 110.4 165.6

98 57.0 51.5 77.3



#22

Diisopropyl ether

Concen: 0.665 ug/l

RT: 3.85 min Scan# 486

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion: 45 Resp: 3711

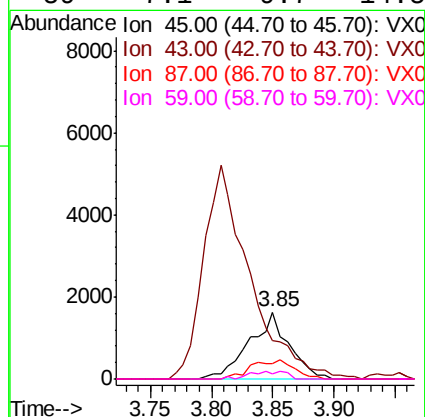
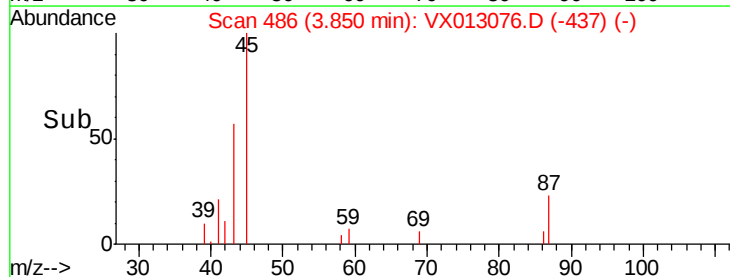
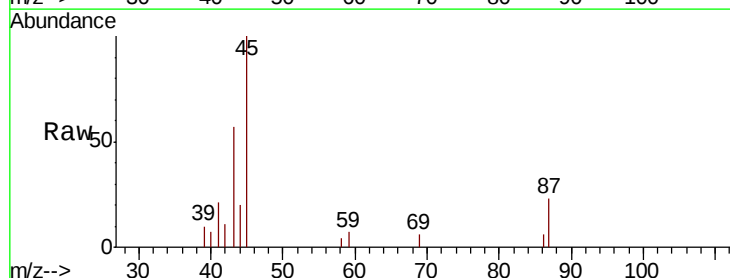
Ion Ratio Lower Upper

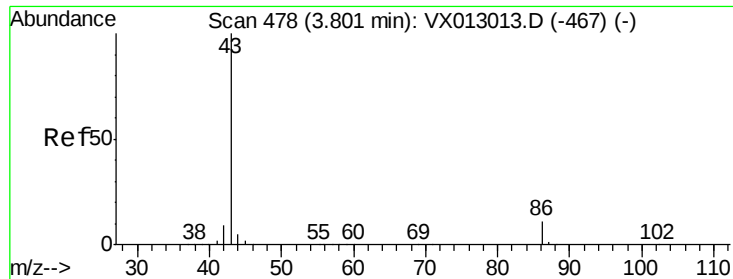
45 100

43 50.9 51.4 77.0#

87 22.7 22.5 33.7

59 7.1 9.7 14.5#





#23

Vinyl Acetate

Concen: 2.860 ug/l

RT: 3.81 min Scan# 479

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

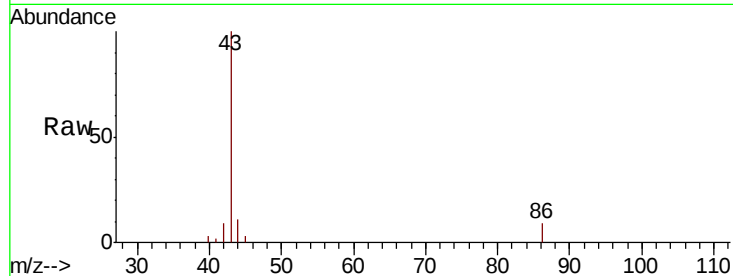
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 13780

Ion Ratio Lower Upper

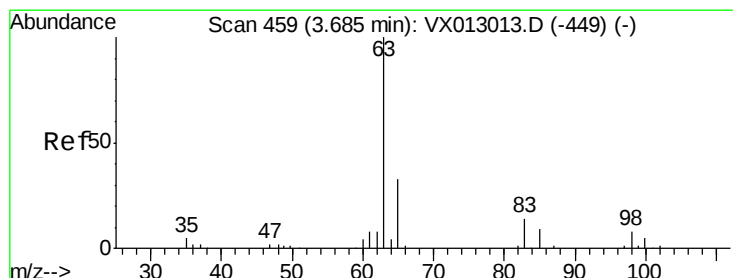
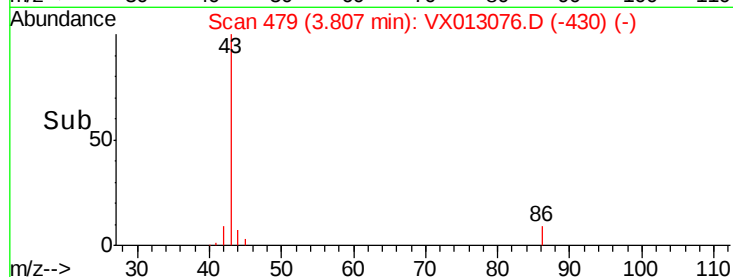
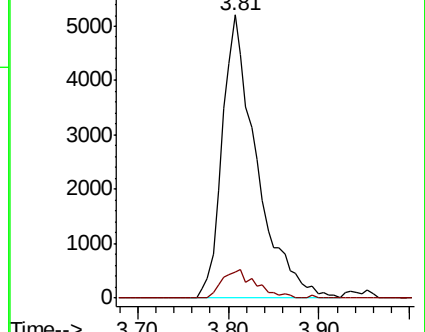
43 100

86 9.4 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 0.721 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

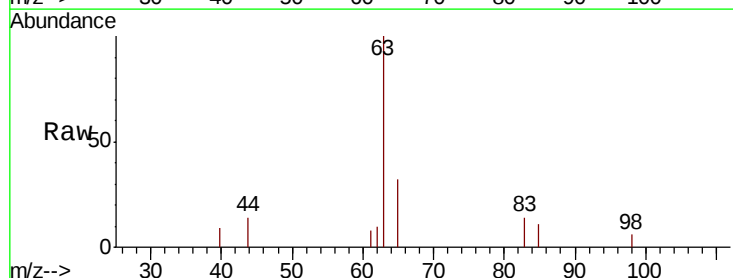
Tgt Ion: 63 Resp: 2263

Ion Ratio Lower Upper

63 100

98 6.1 3.9 11.5

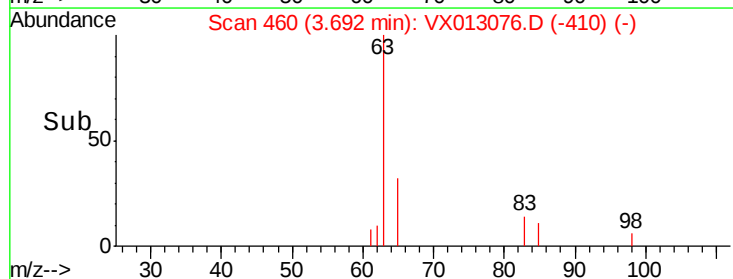
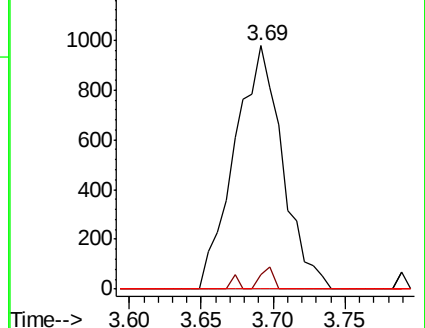
100 0.0 2.3 6.9#

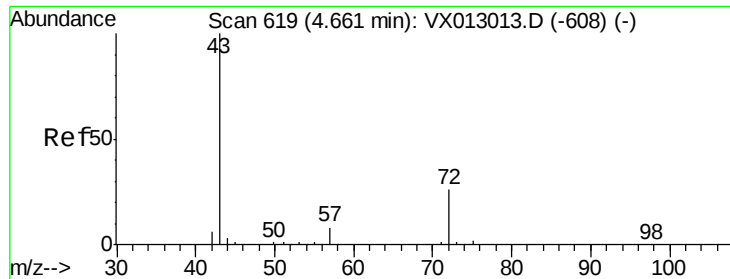


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 3.183 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

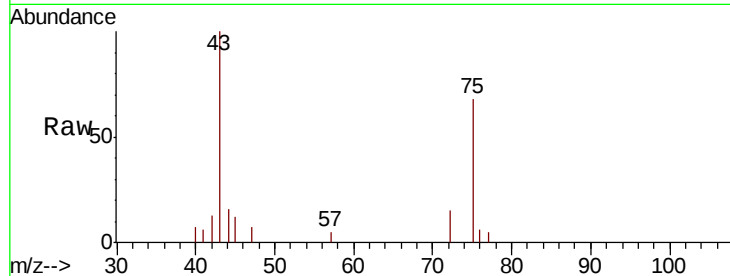
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43.00 Resp: 4709

Ion Ratio Lower Upper

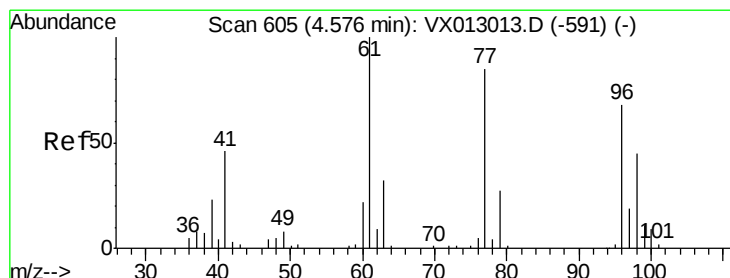
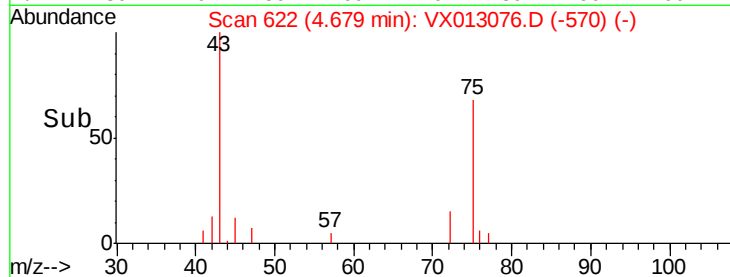
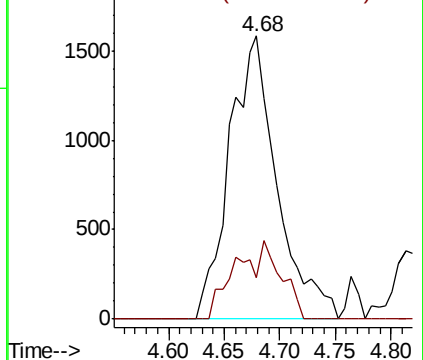
43 100

72 14.7 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.611 ug/l

RT: 4.57 min Scan# 604

Delta R.T. -0.01 min

Lab File: VX013076.D

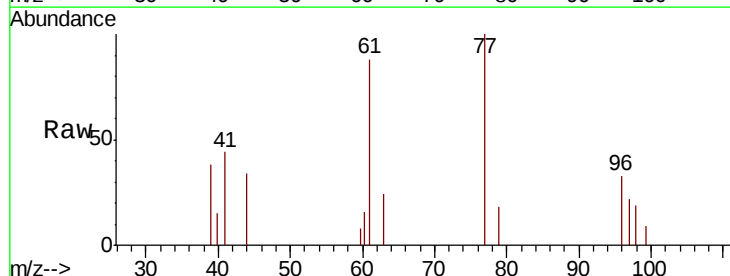
Acq: 15 Oct 2019 14:30

Tgt Ion: 77 Resp: 1614

Ion Ratio Lower Upper

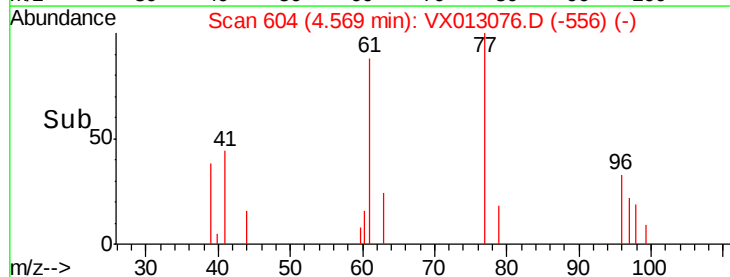
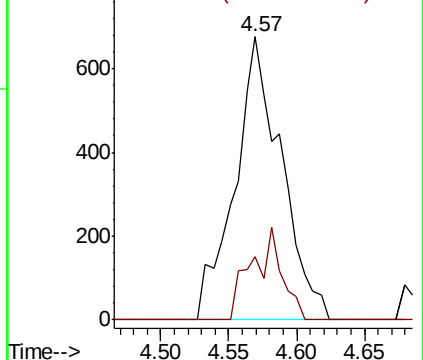
77 100

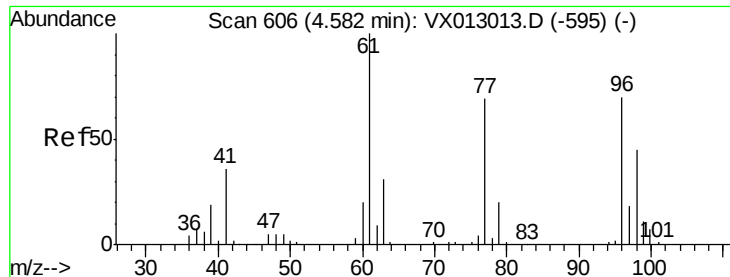
97 21.6 11.3 33.9



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



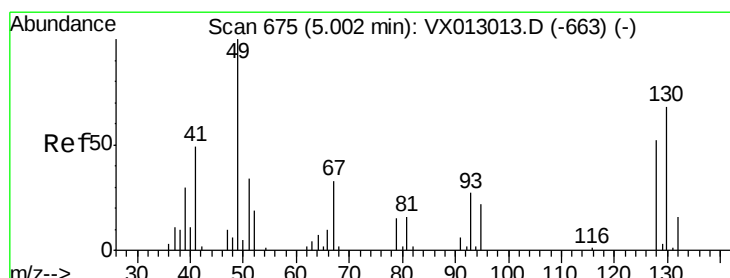
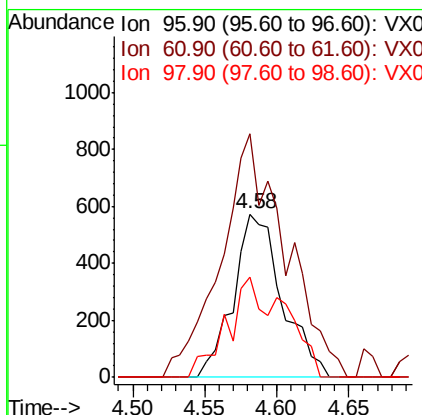
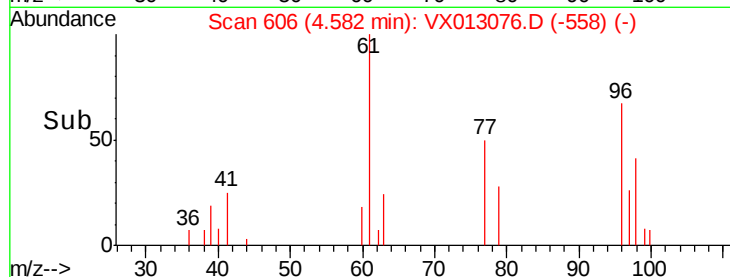
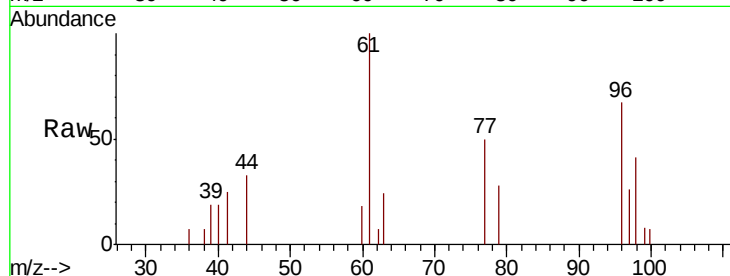


#27

cis-1,2-Dichloroethene
Concen: 0.667 ug/l
RT: 4.58 min Scan# 606
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

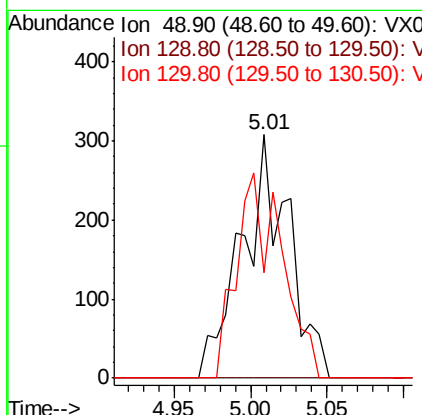
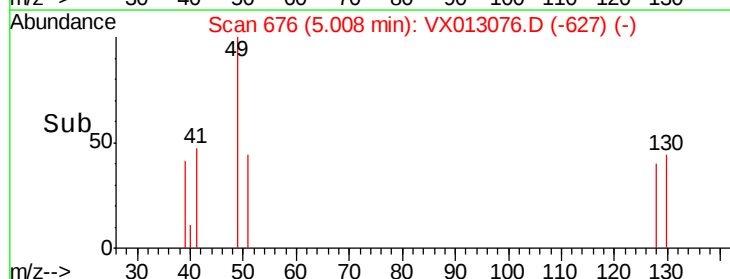
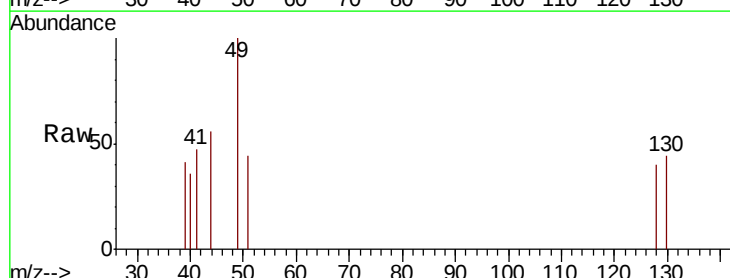
Tot Ion: 96 Resp: 1347
Ion Ratio Lower Upper
96 100
61 198.6 0.0 290.6
98 46.1 0.0 128.8

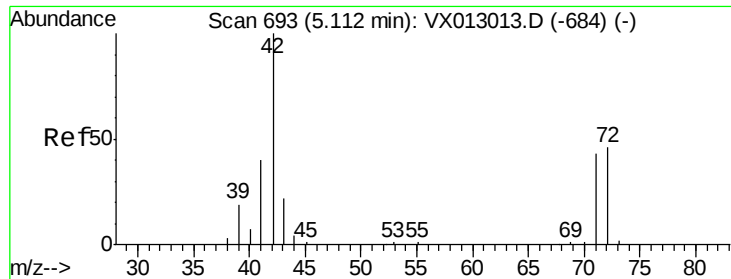


#28

Bromochloromethane
Concen: 0.254 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 49 Resp: 656
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 81.3 62.1 93.1

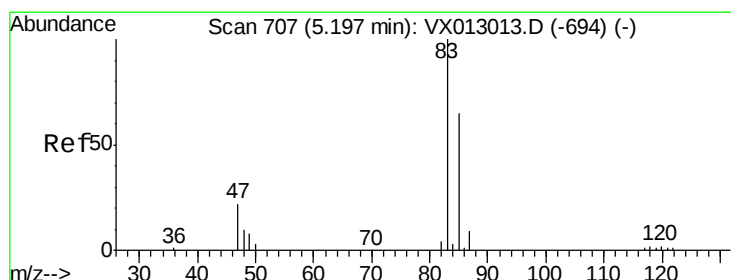
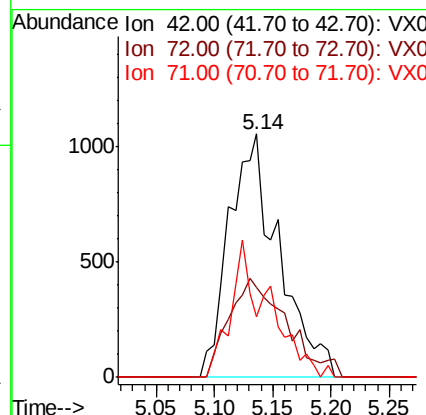
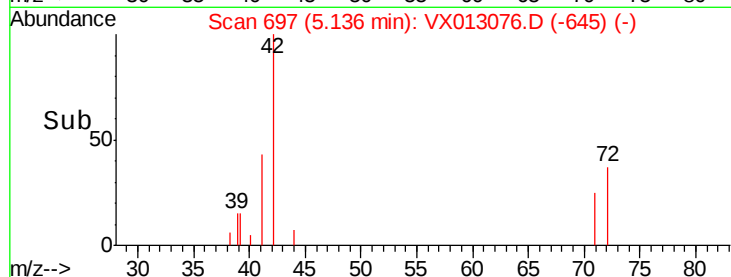
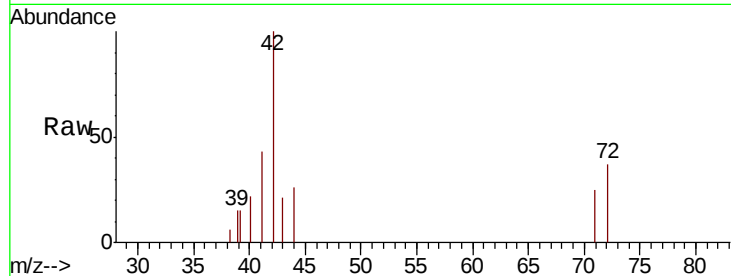




#29
Tetrahydrofuran
Concen: 3.407 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

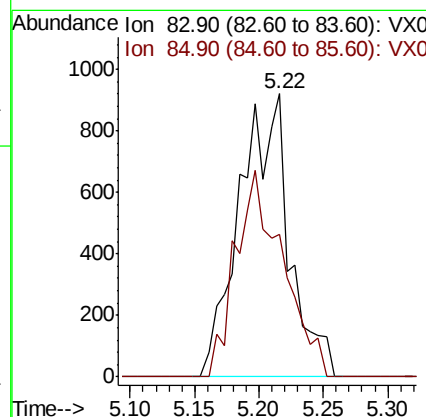
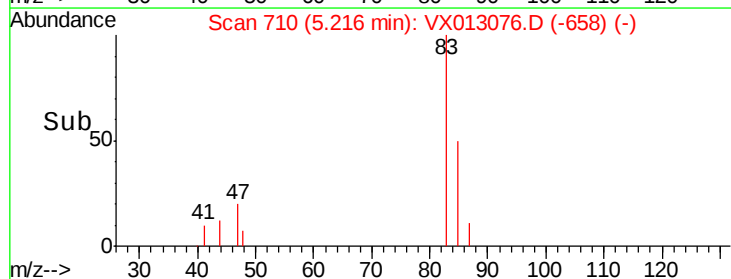
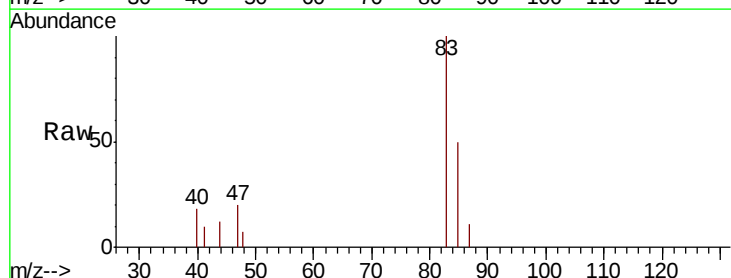
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

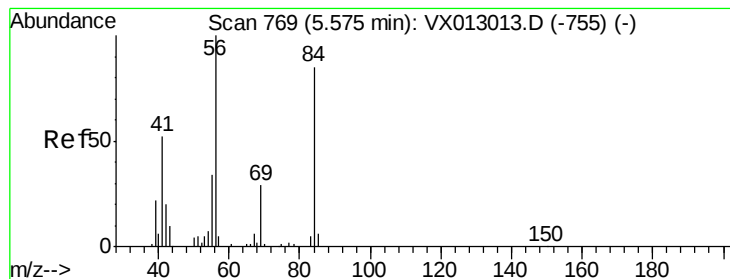
Tot Ion: 42 Resp: 3102
Ion Ratio Lower Upper
42 100
72 47.3 36.9 55.3
71 24.9 33.5 50.3#



#30
Chloroform
Concen: 0.769 ug/l
RT: 5.22 min Scan# 710
Delta R.T. 0.02 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 83 Resp: 2479
Ion Ratio Lower Upper
83 100
85 50.3 51.5 77.3#





#31

Cyclohexane

Concen: 0.756 ug/l

RT: 5.57 min Scan# 768

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

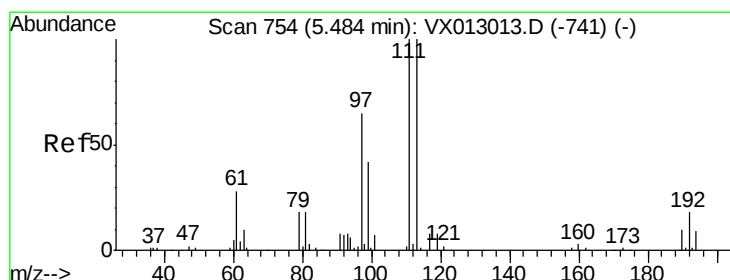
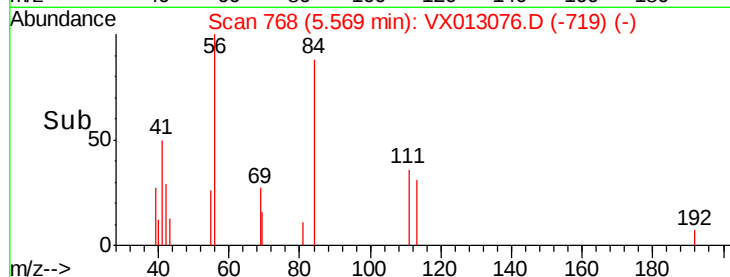
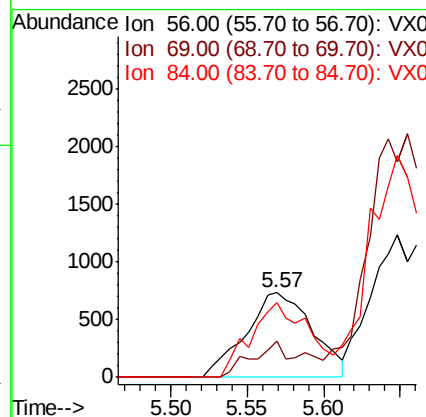
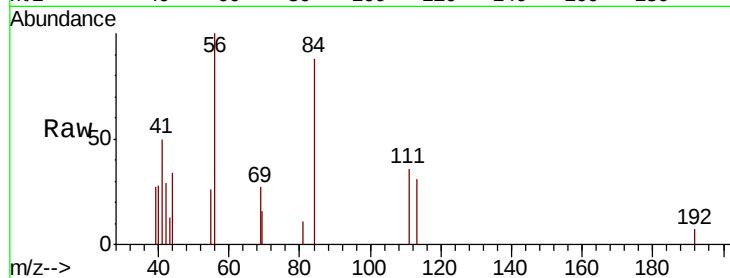
Tot Ion: 56 Resp: 2220

Ion Ratio Lower Upper

56 100

69 43.0 25.2 37.8#

84 87.6 71.3 106.9



#32

1,1,1-Trichloroethane

Concen: 0.642 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

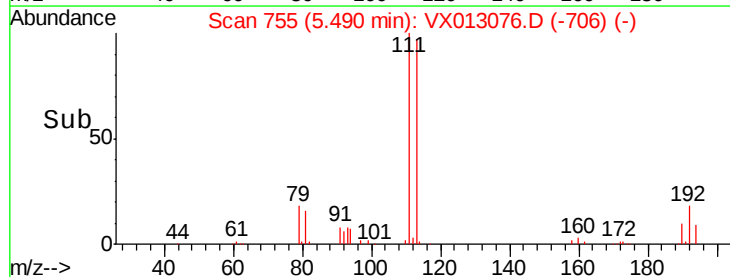
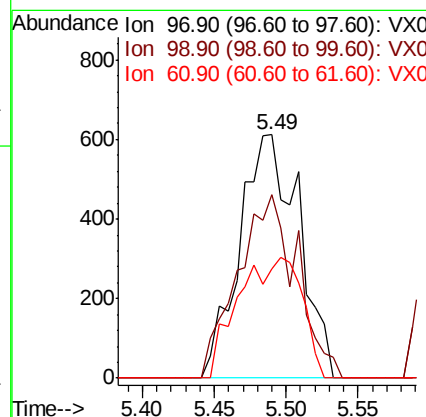
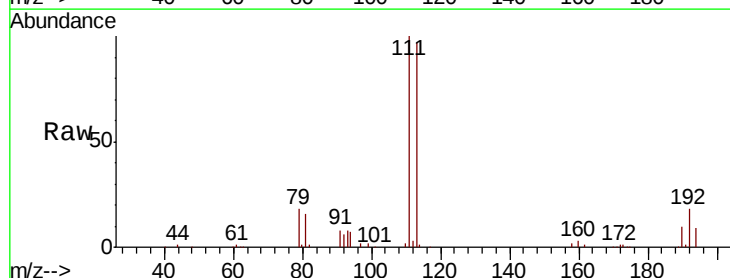
Tgt Ion: 97 Resp: 1752

Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5#

61 53.8 35.0 52.4#





#33

1,2-Dichloroethane-d4

Concen: 51.283 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

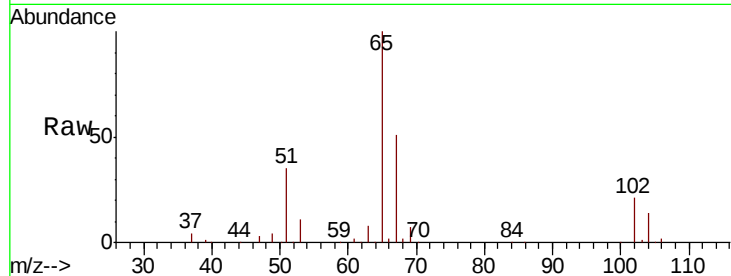
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 65 Resp: 103750

Ion Ratio Lower Upper

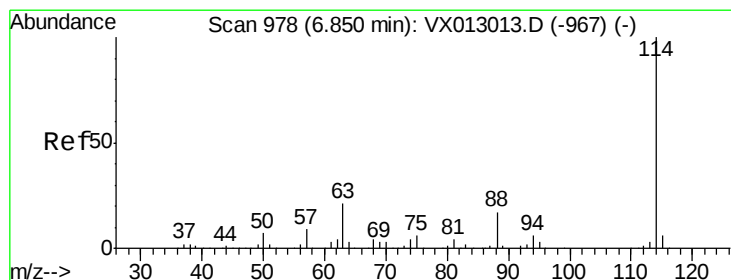
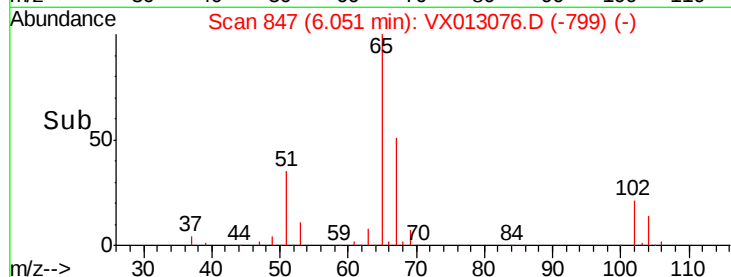
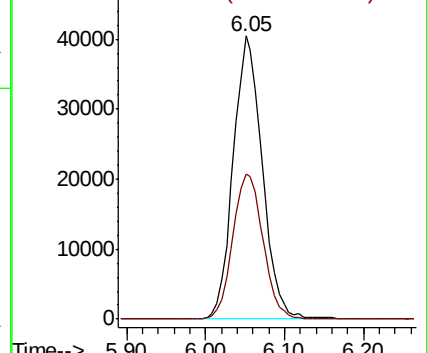
65 100

67 53.2 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

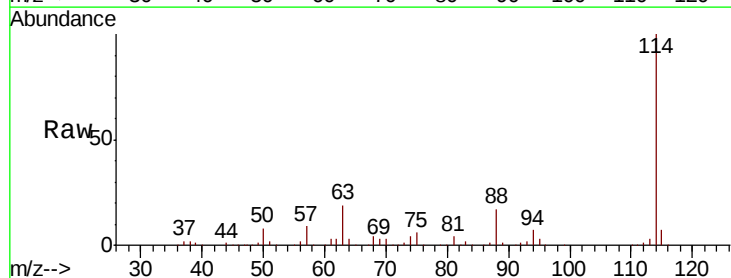
Tgt Ion: 114 Resp: 273854

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.8

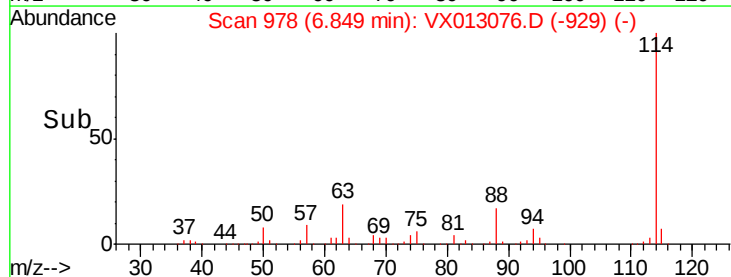
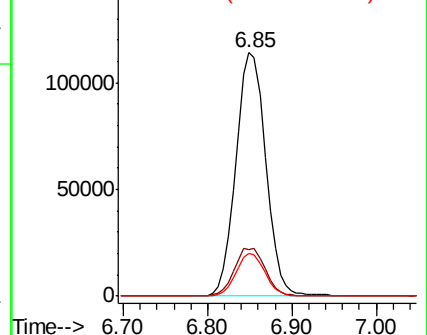
88 17.5 0.0 33.8

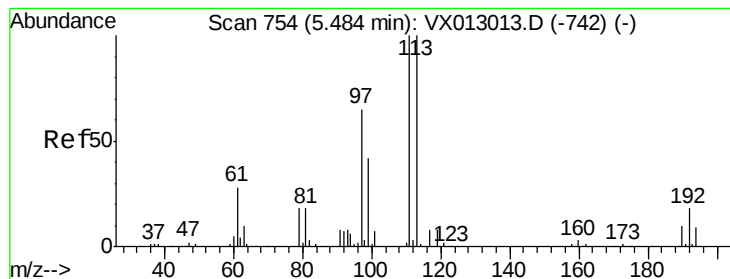


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.509 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

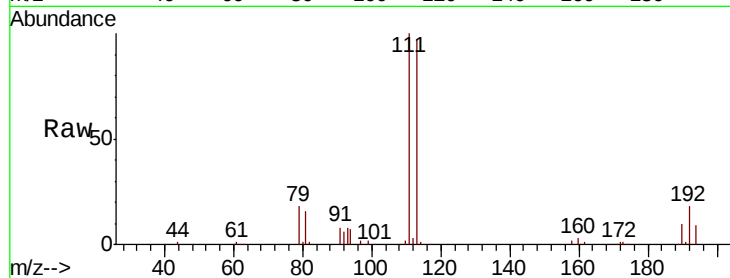
Tot Ion:113 Resp: 80961

Ion Ratio Lower Upper

113 100

111 101.6 83.2 124.8

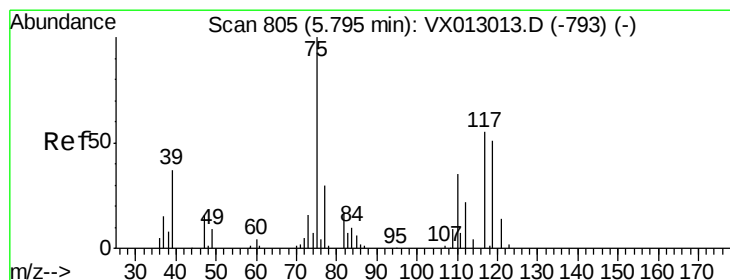
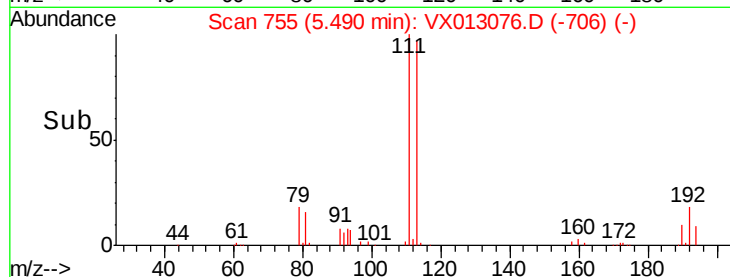
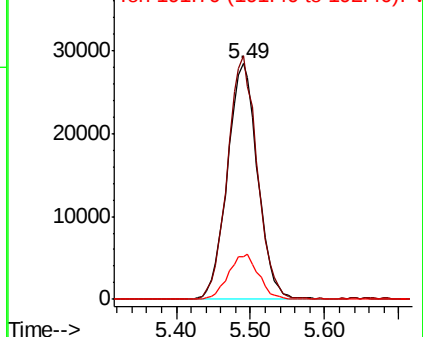
192 19.1 15.4 23.2



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: 0.690 ug/l

RT: 5.78 min Scan# 803

Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

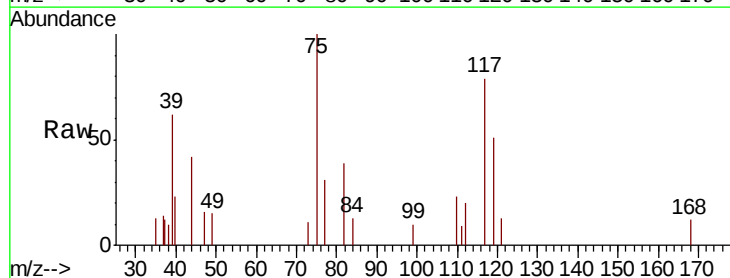
Tgt Ion: 75 Resp: 1662

Ion Ratio Lower Upper

75 100

110 31.8 17.6 52.9

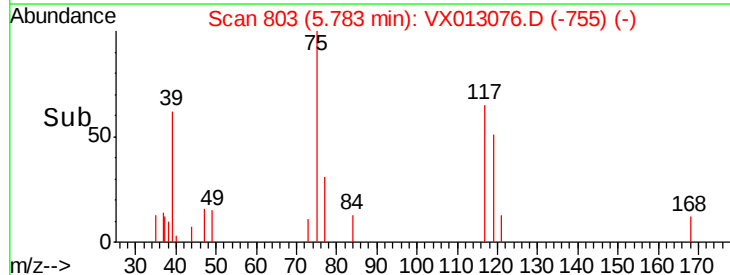
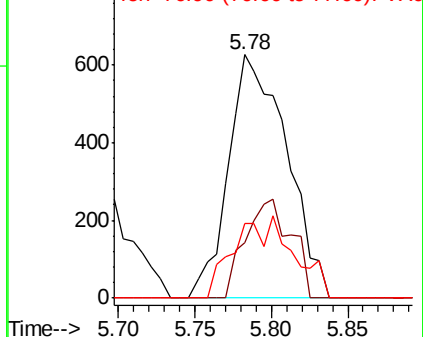
77 18.2 24.4 36.6#

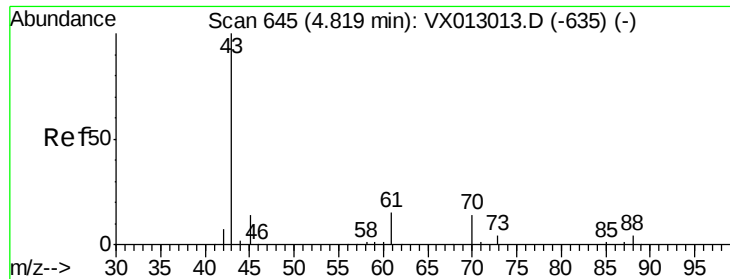


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

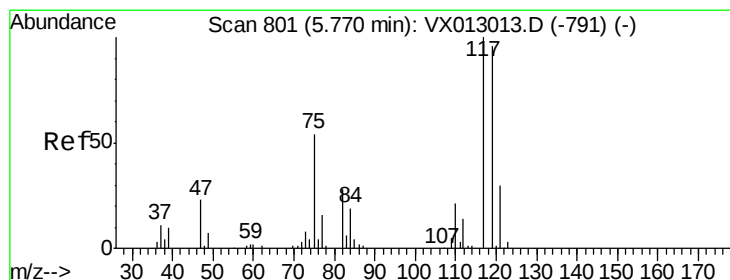
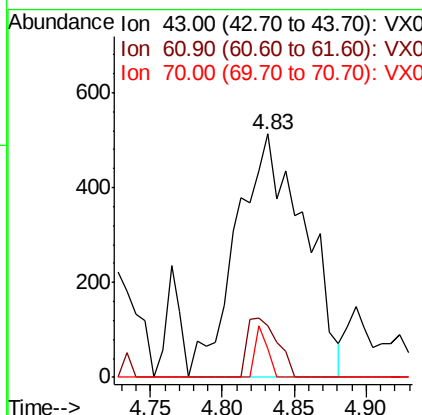
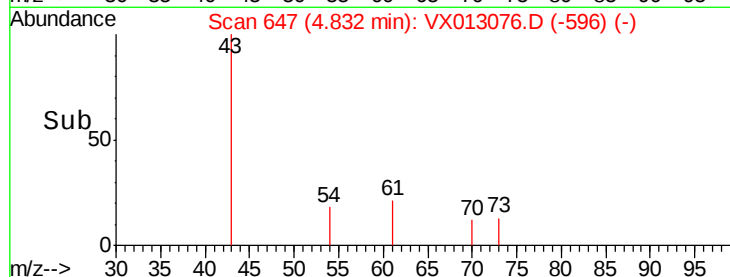
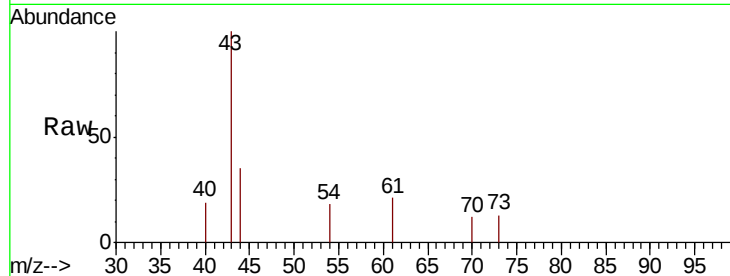




#37
Ethyl Acetate
Concen: 0.625 ug/l
RT: 4.83 min Scan# 647
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

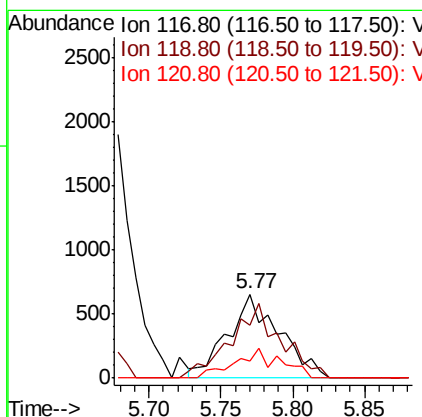
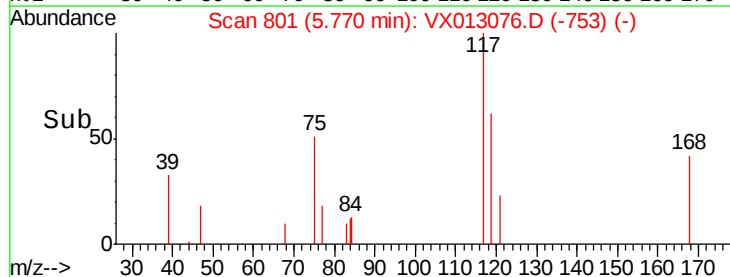
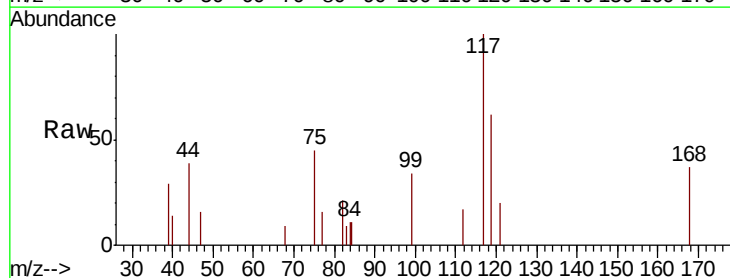
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

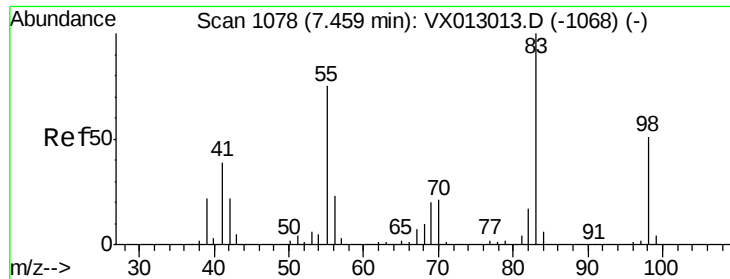
Tot Ion: 43 Resp: 1684
Ion Ratio Lower Upper
43 100
61 10.5 11.4 17.0#
70 3.7 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 0.688 ug/l
RT: 5.77 min Scan# 801
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 117 Resp: 1612
Ion Ratio Lower Upper
117 100
119 62.3 74.5 111.7#
121 20.3 24.2 36.4#

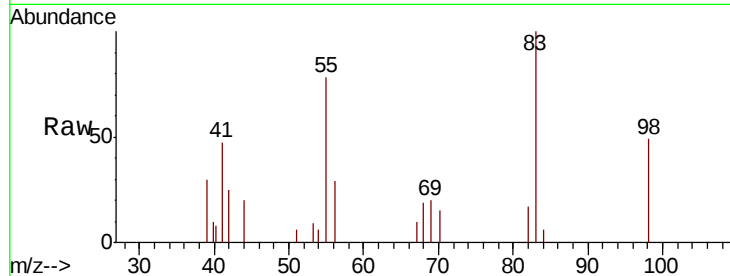




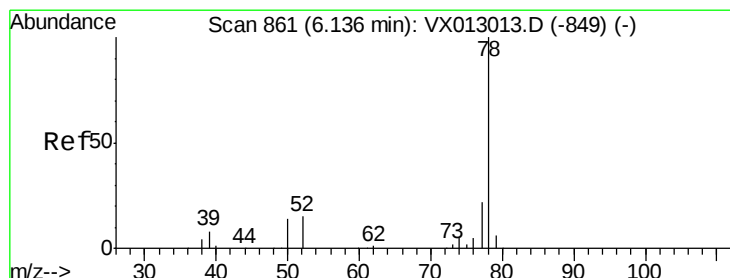
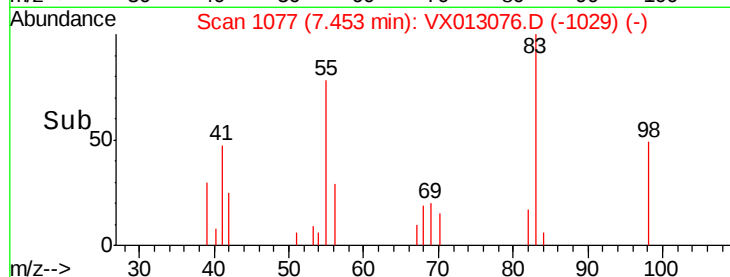
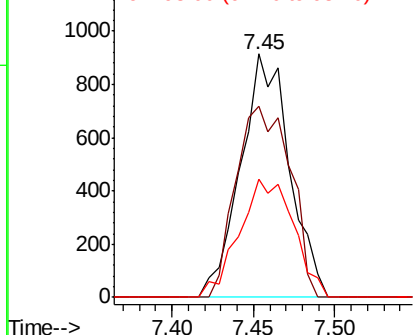
#39
Methvlcvclohexane
Concen: 0.653 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 83 Resp: 1908
Ion Ratio Lower Upper
83 100
55 78.4 60.2 90.4
98 48.5 38.5 57.7

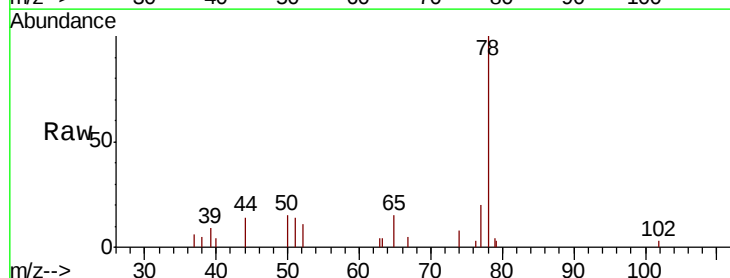


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

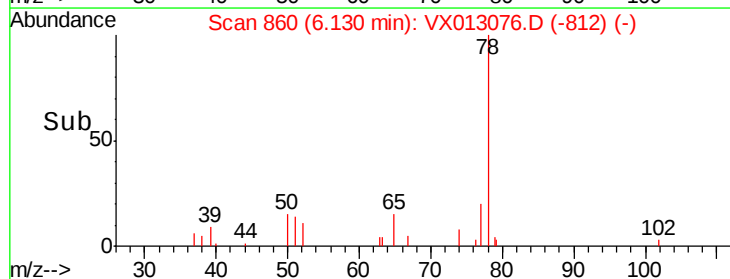
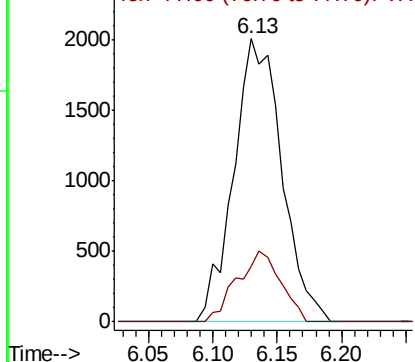


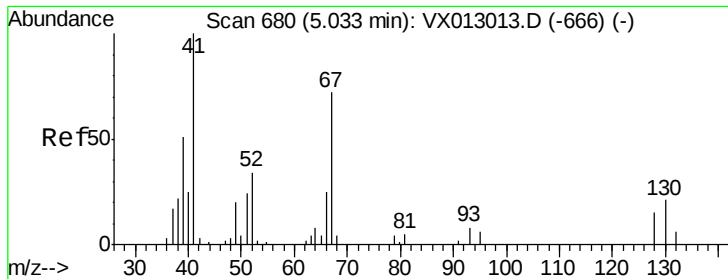
#40
Benzene
Concen: 0.730 ug/l
RT: 6.13 min Scan# 860
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 78 Resp: 5193
Ion Ratio Lower Upper
78 100
77 19.6 19.0 28.4



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





#41

Methacrylonitrile

Concen: 0.621 ug/l

RT: 5.04 min Scan# 681

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 41 Resp: 918

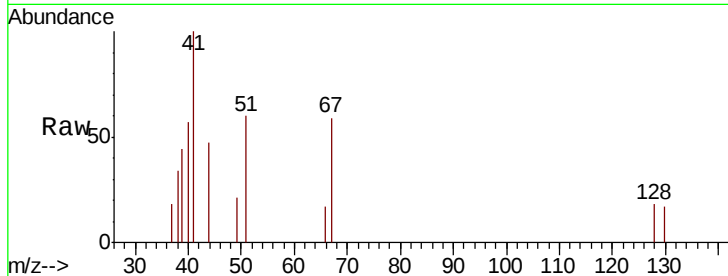
Ion Ratio Lower Upper

41 100

39 37.0 44.0 66.0#

67 0.0 58.5 87.7#

52 8.0 23.8 35.8#

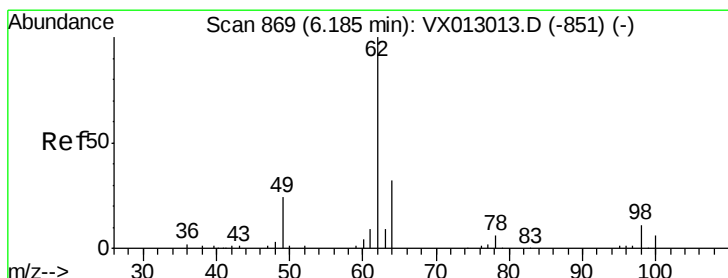
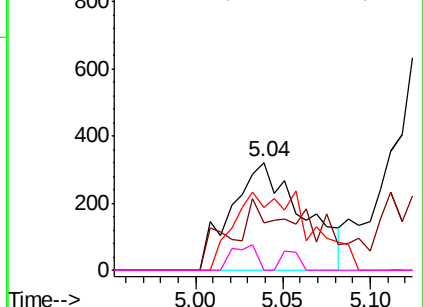
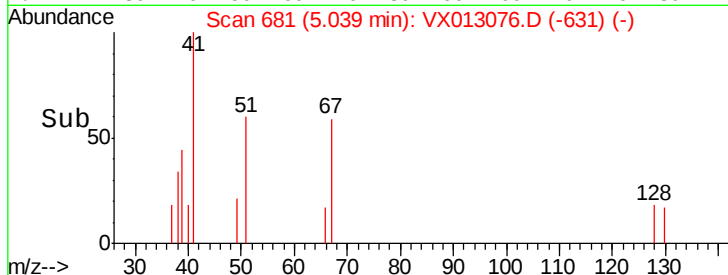


Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 0.719 ug/l

RT: 6.18 min Scan# 869

Delta R.T. -0.00 min

Lab File: VX013076.D

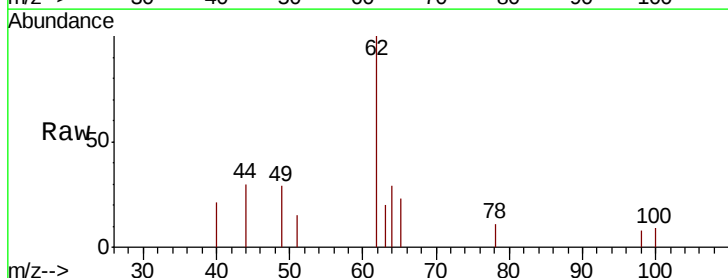
Acq: 15 Oct 2019 14:30

Tgt Ion: 62 Resp: 1834

Ion Ratio Lower Upper

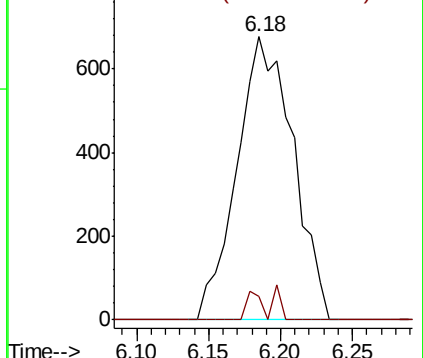
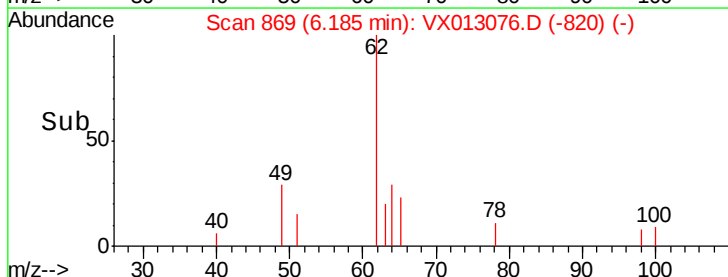
62 100

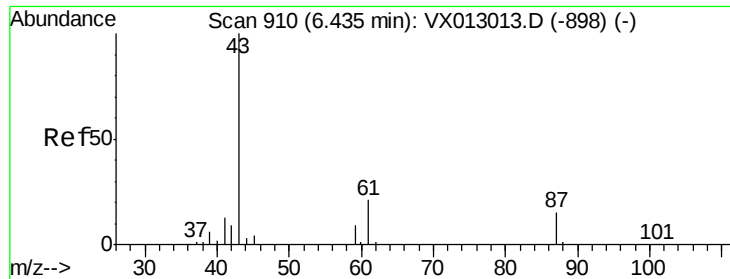
98 2.5 0.0 20.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 0.619 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

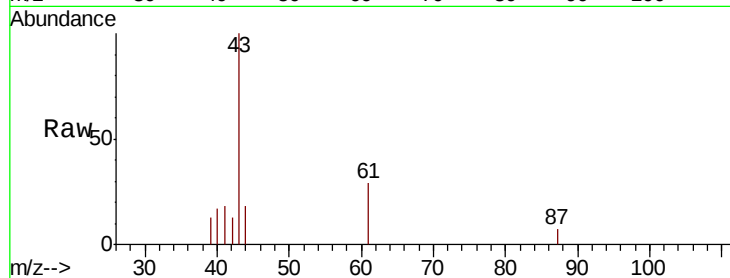
Tot Ion: 43 Resp: 2677

Ion Ratio Lower Upper

43 100

61 12.6 16.6 24.8#

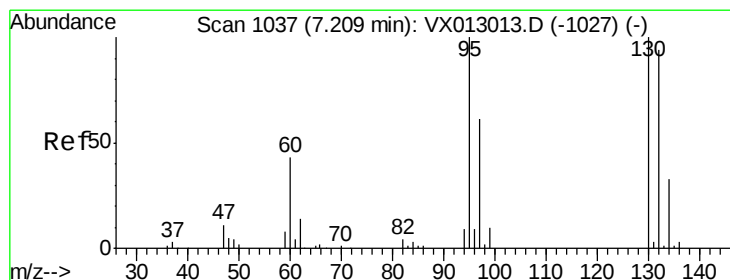
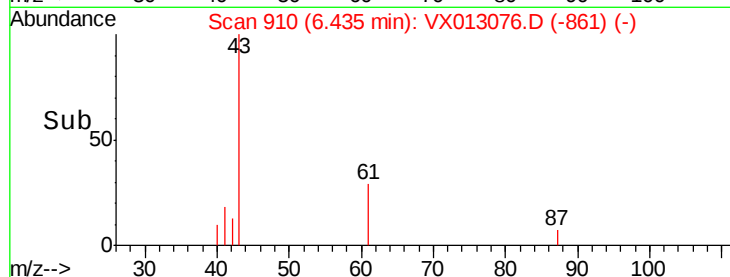
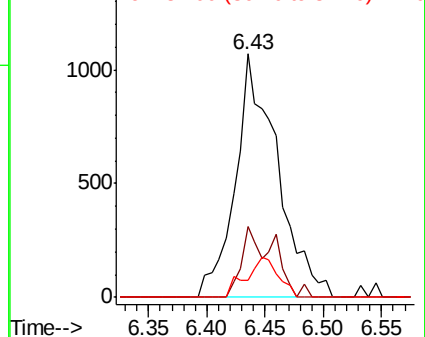
87 12.8 11.0 16.6



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: 0.690 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX013076.D

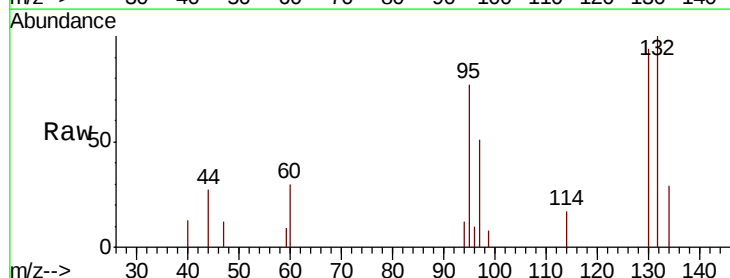
Acq: 15 Oct 2019 14:30

Tgt Ion: 130 Resp: 1360

Ion Ratio Lower Upper

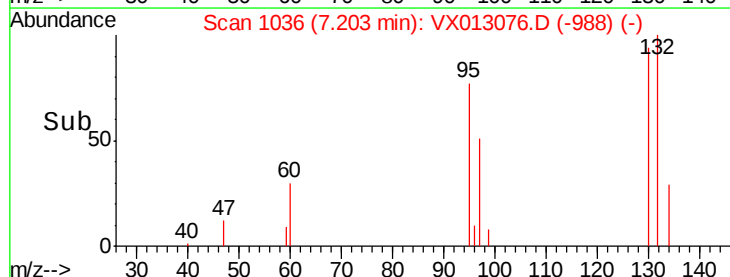
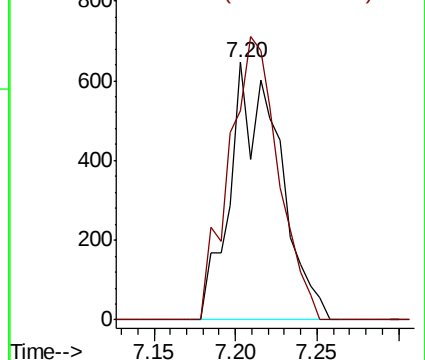
130 100

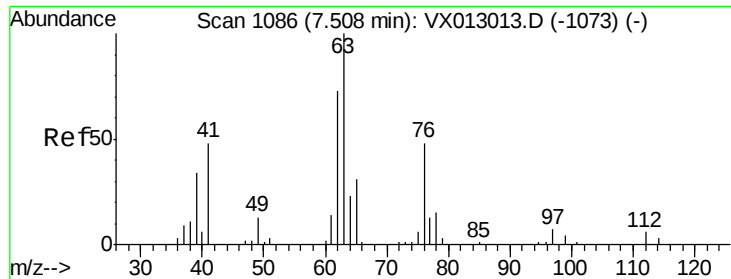
95 81.4 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

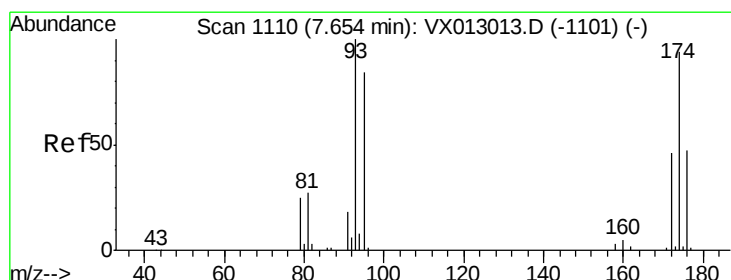
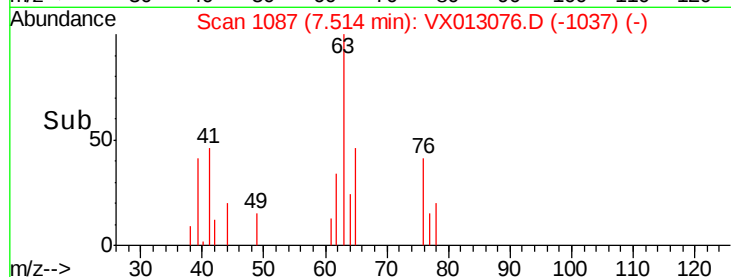
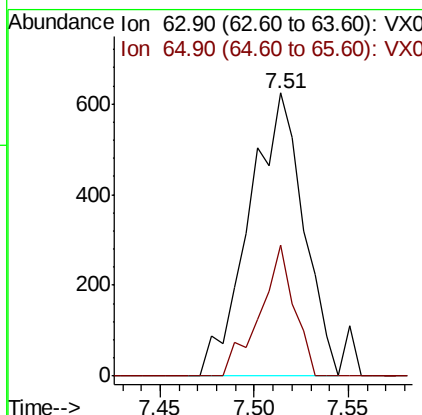
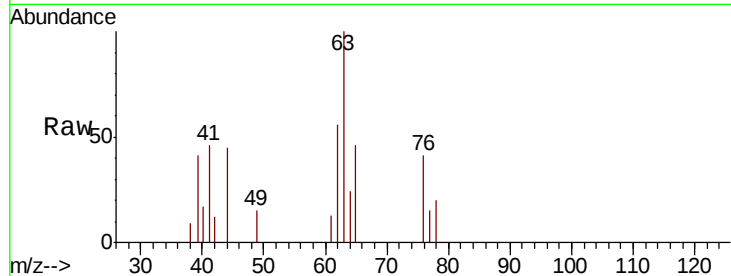




#45
 1,2-Dichloropropane
 Concen: 0.690 ug/l
 RT: 7.51 min Scan# 1087
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

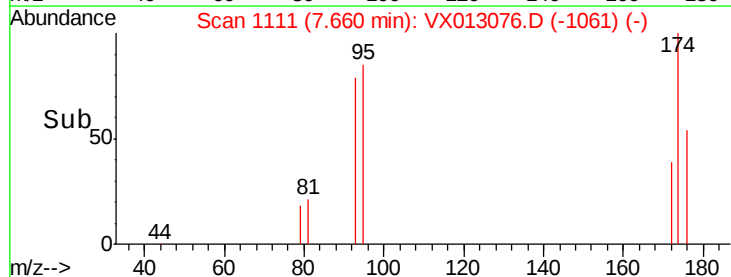
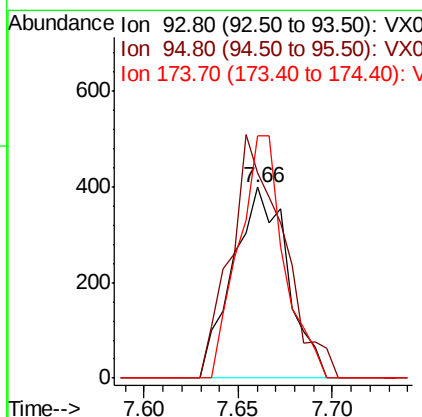
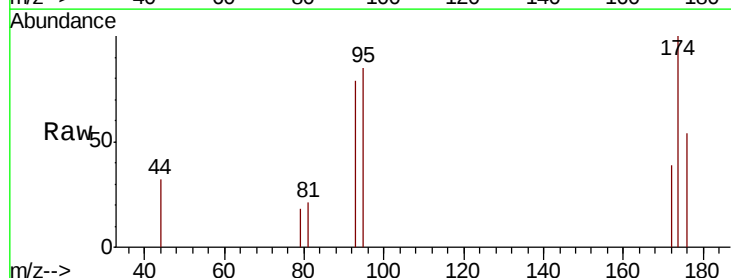
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

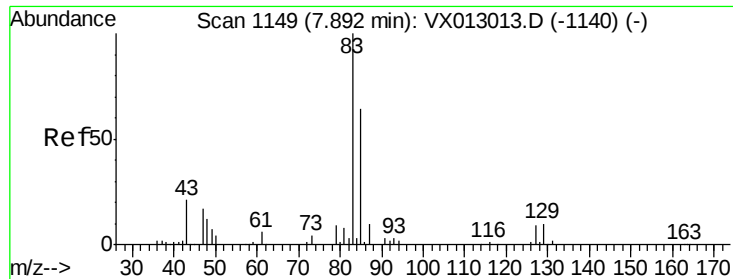
Tot Ion: 63 Resp: 1251
 Ion Ratio Lower Upper
 63 100
 65 46.3 24.6 37.0#



#46
 Dibromomethane
 Concen: 0.664 ug/l
 RT: 7.66 min Scan# 1111
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 93 Resp: 802
 Ion Ratio Lower Upper
 93 100
 95 122.6 66.3 99.5#
 174 105.7 77.8 116.6





#47

Bromodichloromethane

Concen: 0.674 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

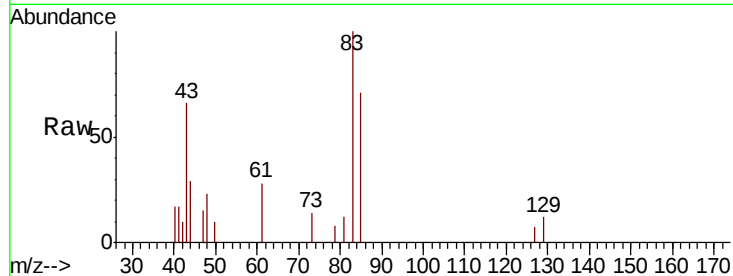
Tot Ion: 83 Resp: 1588

Ion Ratio Lower Upper

83 100

85 70.5 52.4 78.6

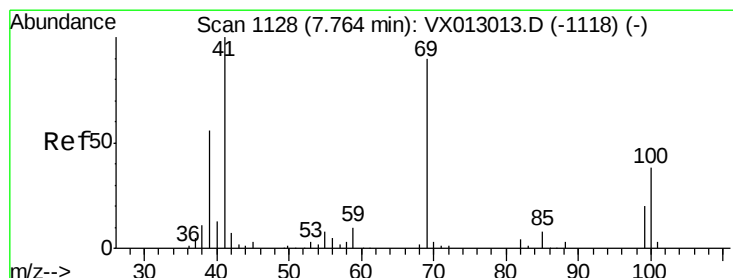
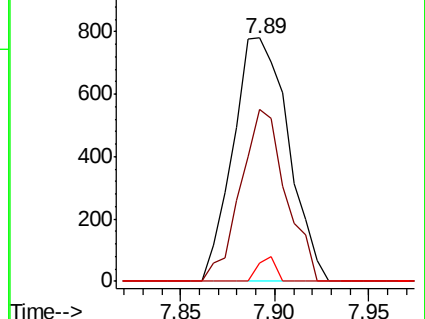
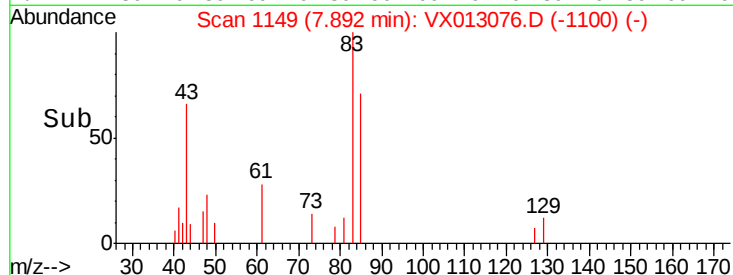
127 7.4 6.6 10.0



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: 0.576 ug/l

RT: 7.77 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

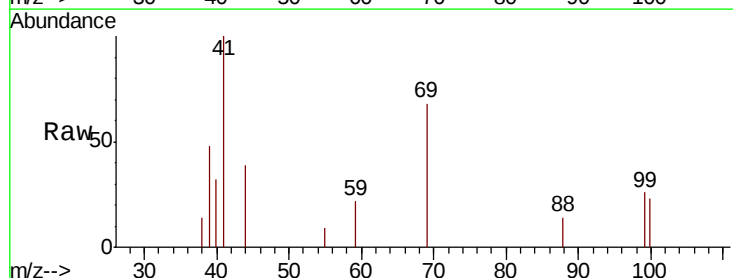
Tgt Ion: 41 Resp: 1212

Ion Ratio Lower Upper

41 100

69 74.0 68.7 103.1

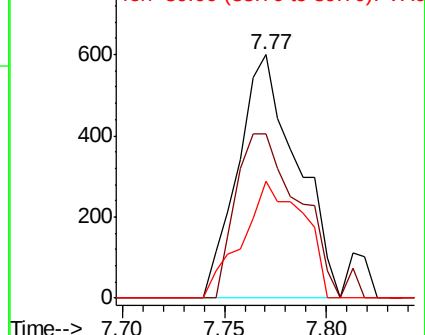
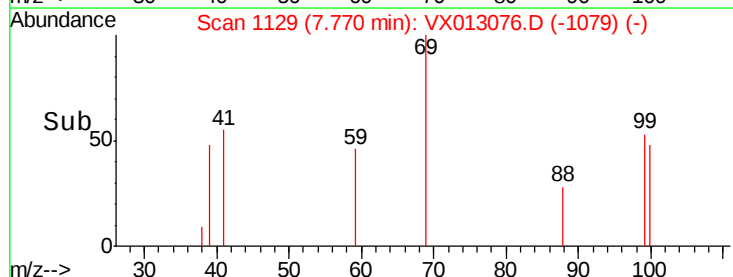
39 49.5 44.3 66.5

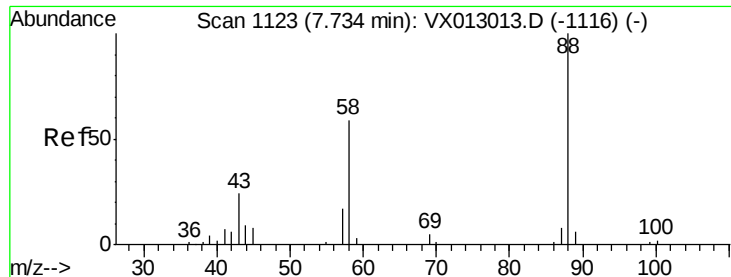


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

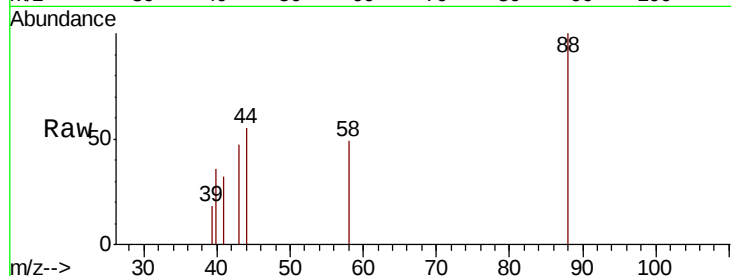




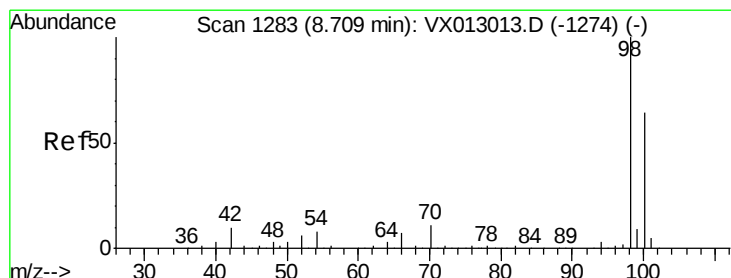
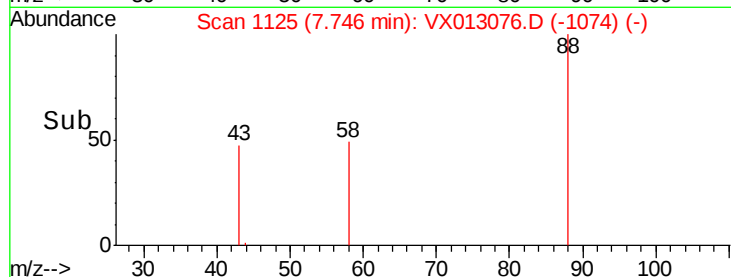
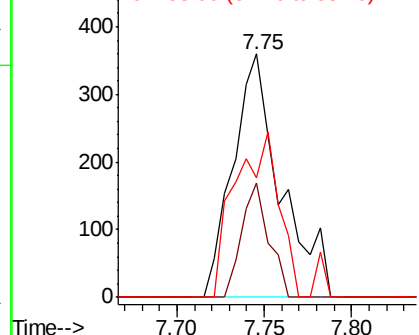
#49
 1,4-Dioxane
 Concen: 46.763 ug/l
 RT: 7.75 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 88 Resp: 684
 Ion Ratio Lower Upper
 88 100
 43 26.5 25.0 37.6
 58 62.4 55.4 83.2

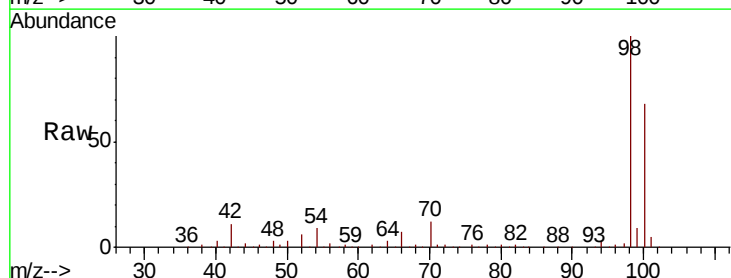


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

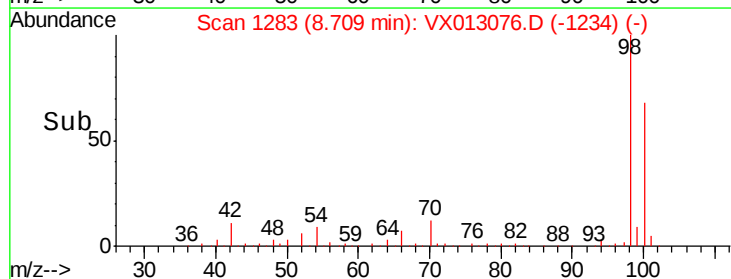
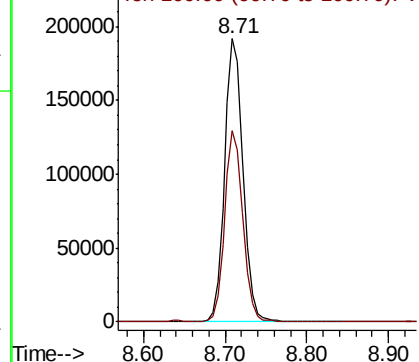


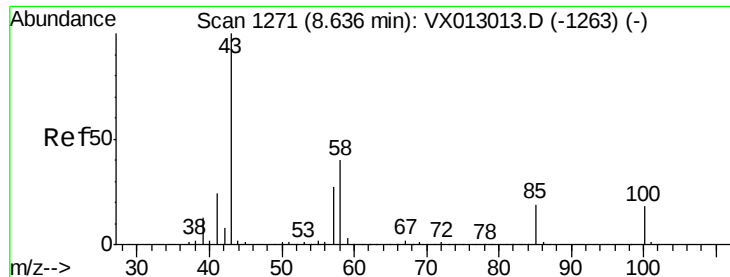
#50
 Toluene-d8
 Concen: 49.221 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 98 Resp: 301740
 Ion Ratio Lower Upper
 98 100
 100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 3.023 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

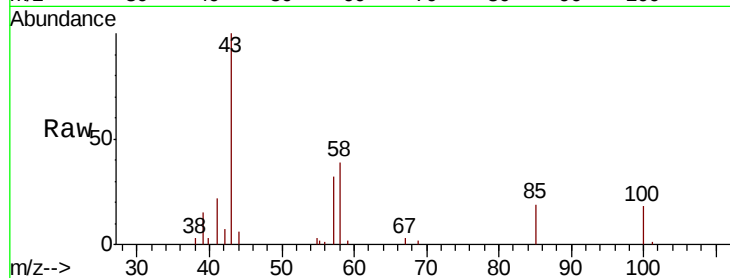
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 8144

Ion Ratio Lower Upper

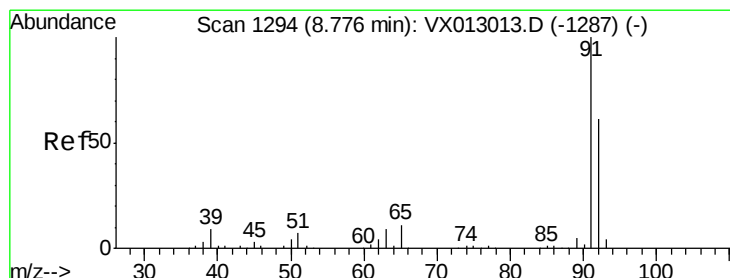
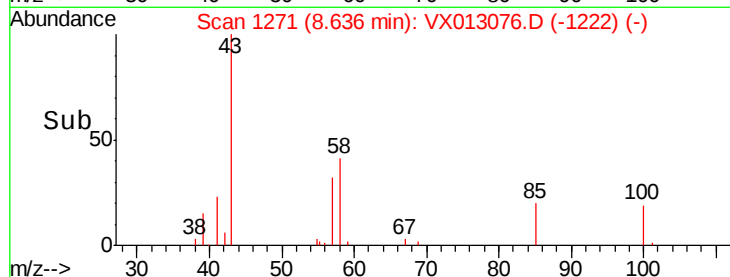
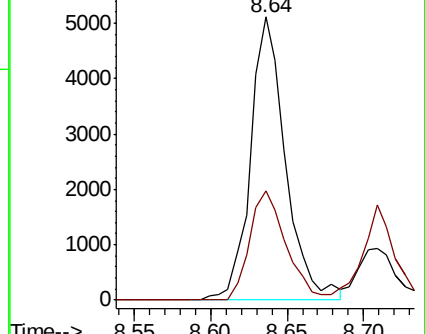
43 100

58 39.7 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 0.725 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013076.D

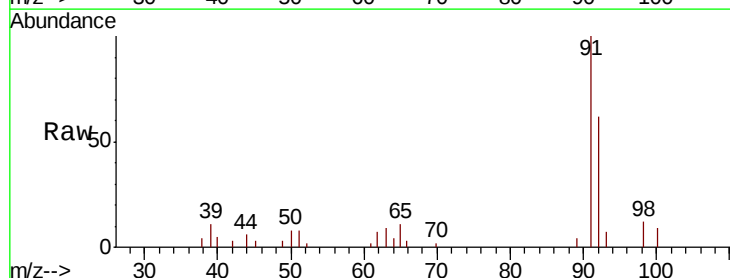
Acq: 15 Oct 2019 14:30

Tgt Ion: 92 Resp: 3297

Ion Ratio Lower Upper

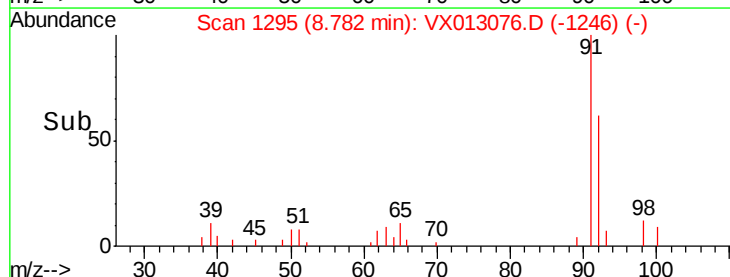
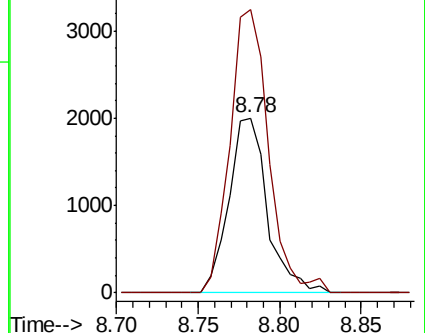
92 100

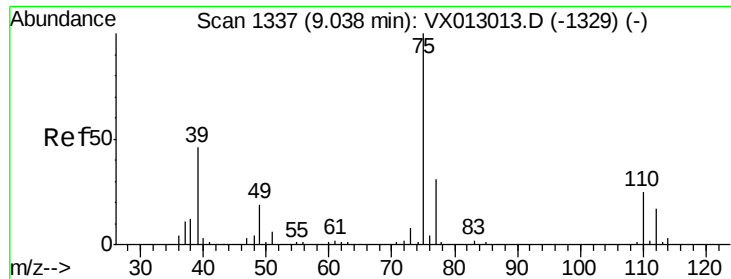
91 162.2 135.9 203.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

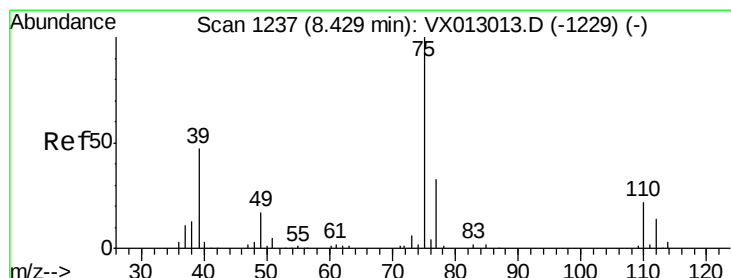
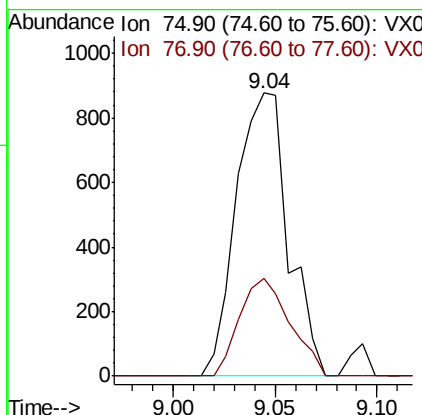
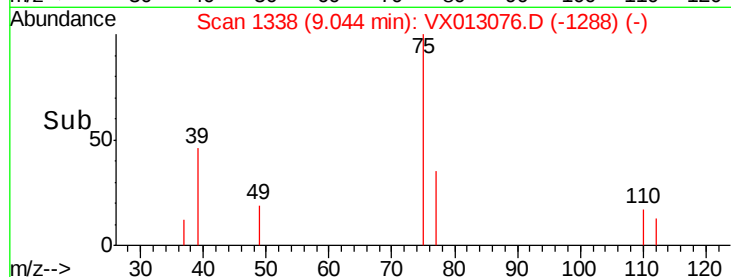
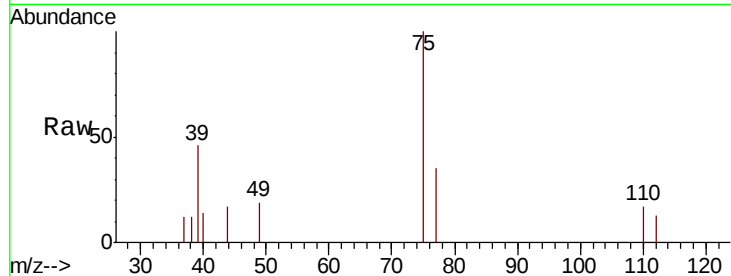




#53
 t-1,3-Dichloropropene
 Concen: 2.677 ug/l
 RT: 9.04 min Scan# 1338
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

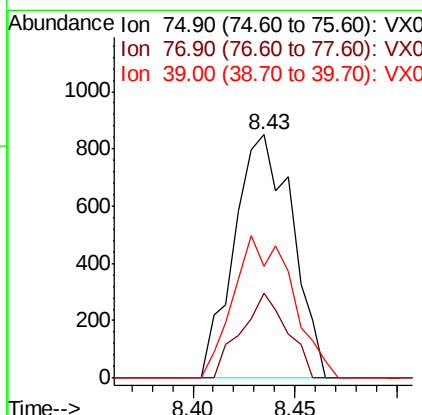
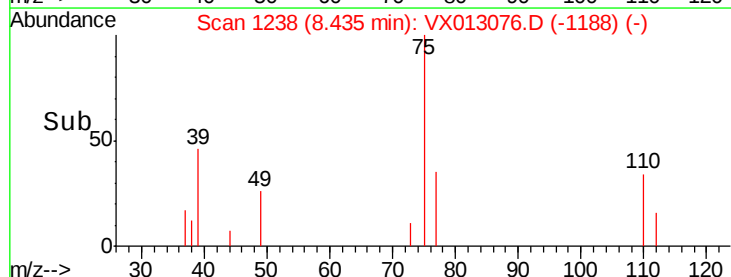
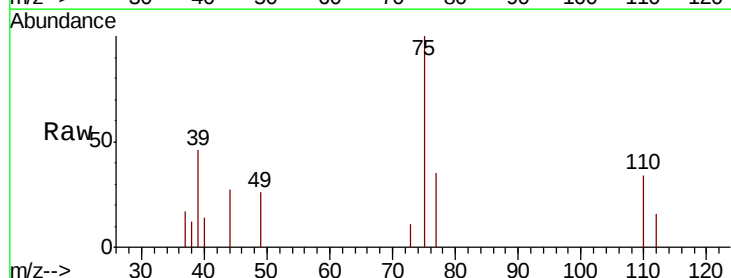
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

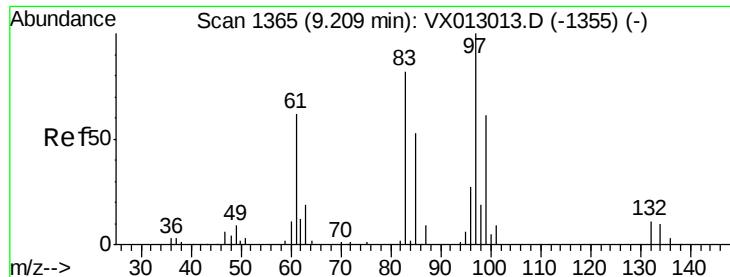
Tot Ion: 75 Resp: 1563
 Ion Ratio Lower Upper
 75 100
 77 34.7 25.8 38.6



#54
 cis-1,3-Dichloropropene
 Concen: 0.580 ug/l
 RT: 8.43 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 75 Resp: 1680
 Ion Ratio Lower Upper
 75 100
 77 34.9 25.8 38.8
 39 46.0 38.2 57.2

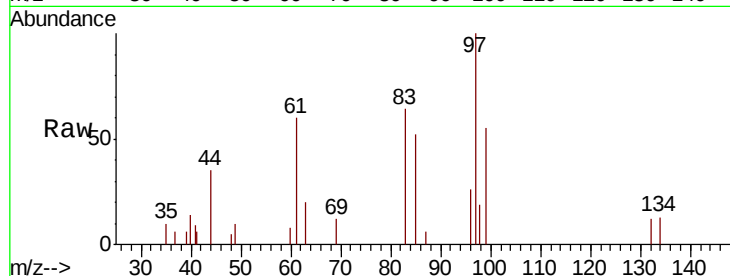




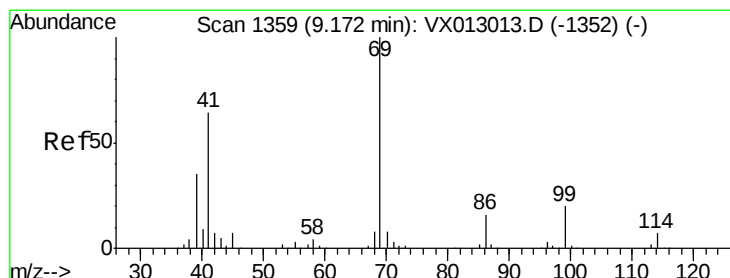
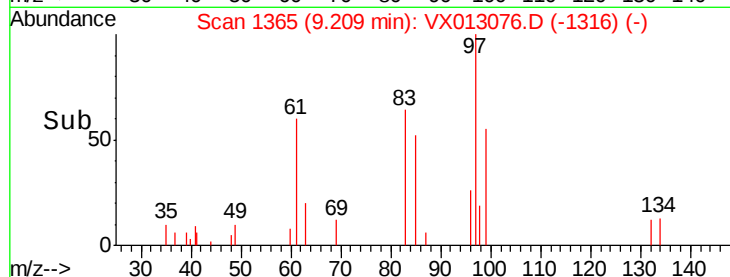
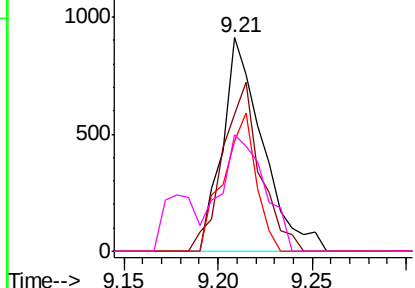
#55
 1,1,2-Trichloroethane
 Concen: 0.751 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 97 Resp: 1352
 Ion Ratio Lower Upper
 97 100
 83 64.0 66.5 99.7#
 85 51.7 43.1 64.7
 99 54.7 49.2 73.8

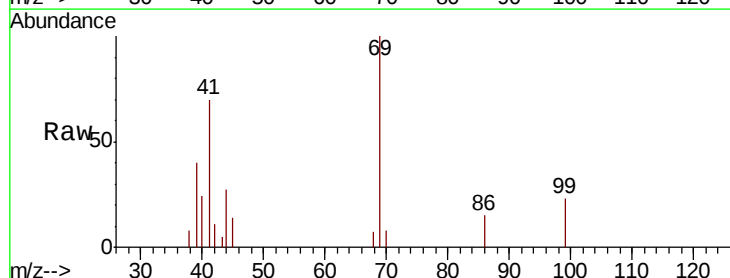


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

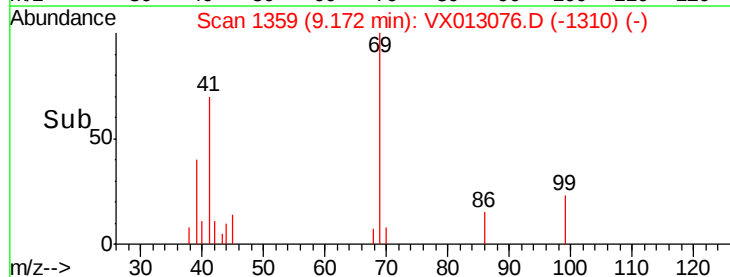
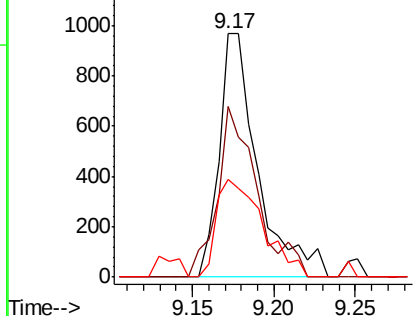


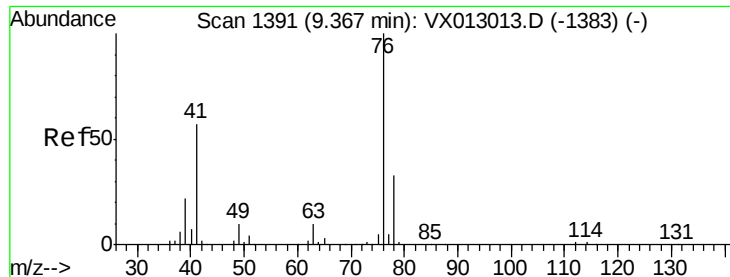
#56
 Ethyl methacrylate
 Concen: 2.308 ug/l
 RT: 9.17 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 69 Resp: 1594
 Ion Ratio Lower Upper
 69 100
 41 71.4 52.1 78.1
 39 48.2 27.8 41.8#



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

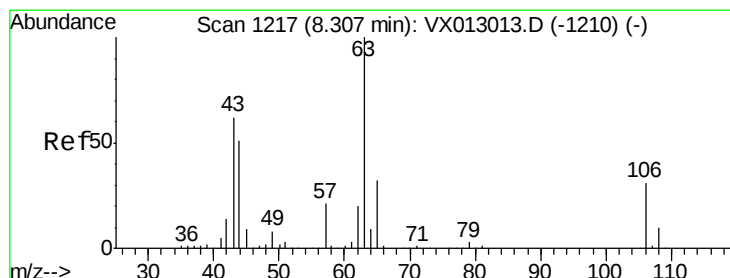
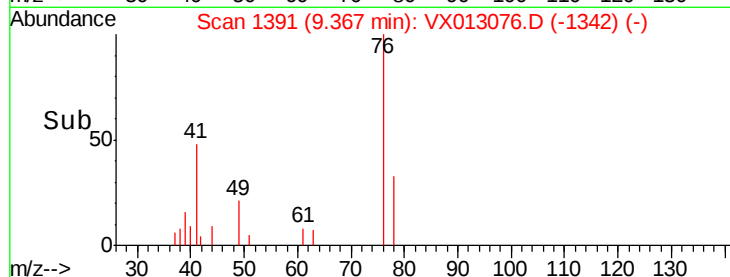
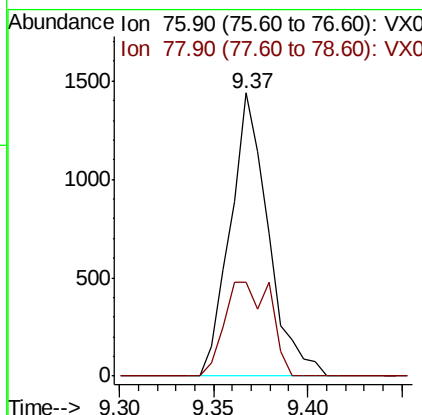
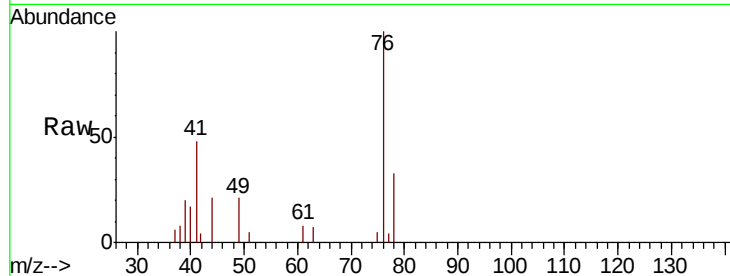




#57
 1,3-Dichloropropane
 Concen: 0.644 ug/l
 RT: 9.37 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

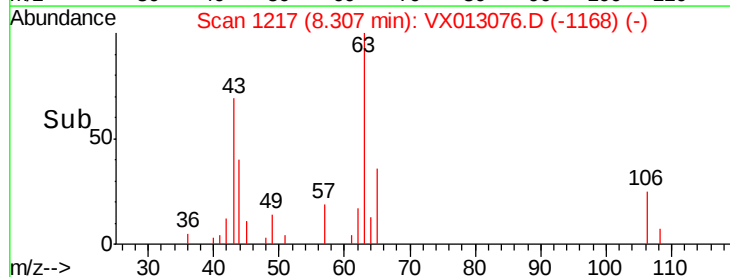
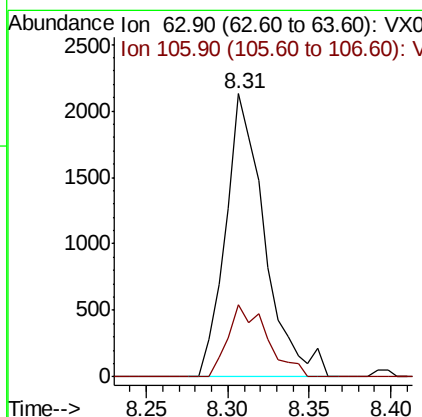
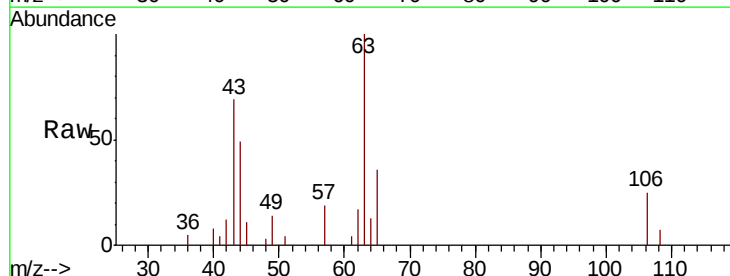
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

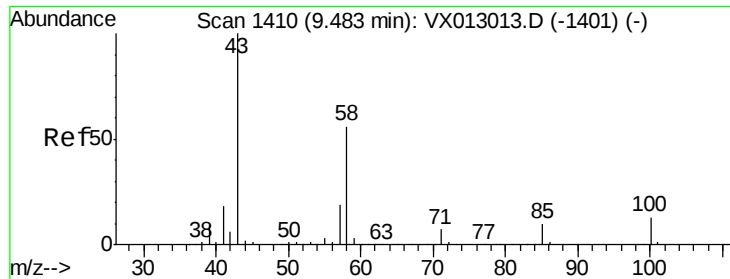
Tot Ion: 76 Resp: 2007
 Ion Ratio Lower Upper
 76 100
 78 40.4 26.1 39.1#



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.671 ug/l
 RT: 8.31 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 63 Resp: 3533
 Ion Ratio Lower Upper
 63 100
 106 25.6 23.8 35.8

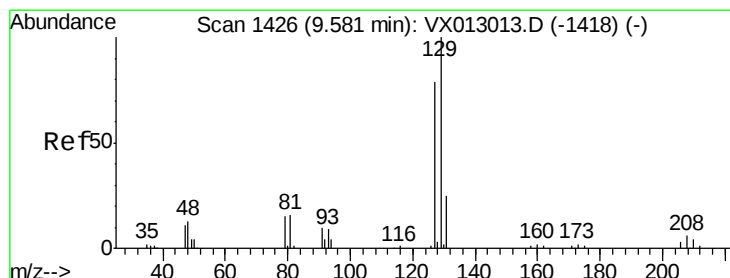
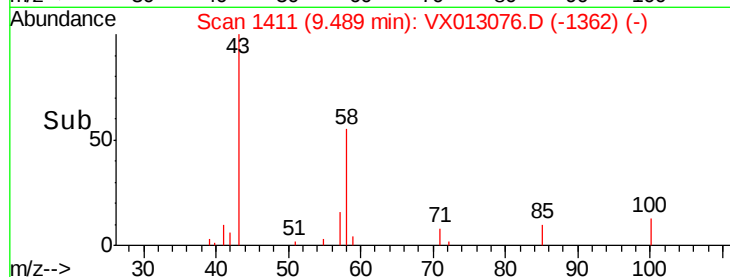
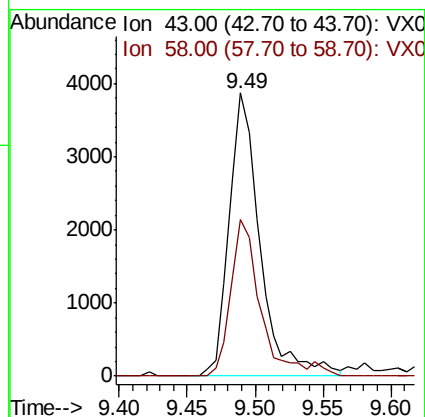
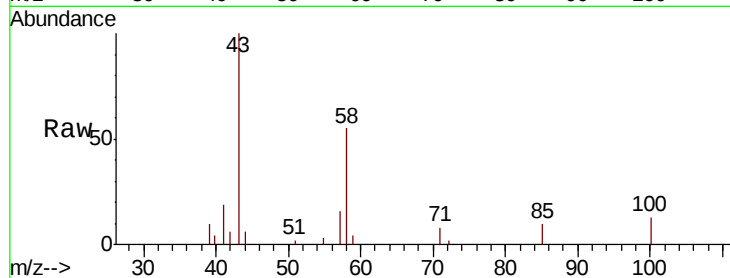




#59
2-Hexanone
Concen: 2.936 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

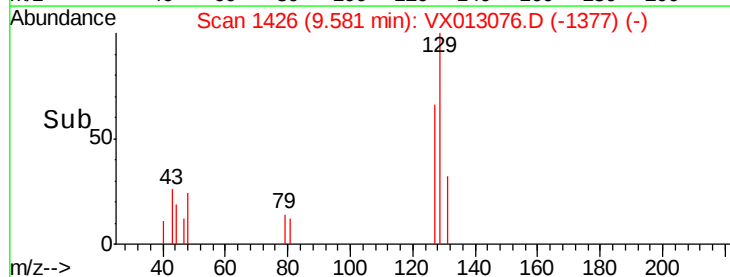
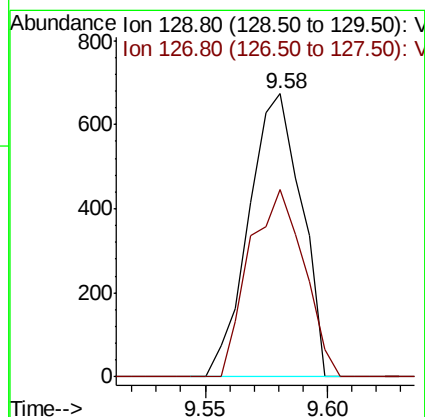
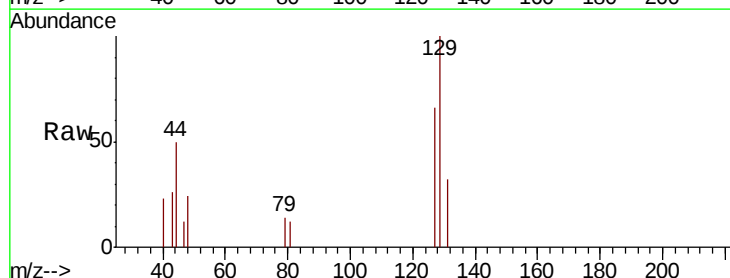
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

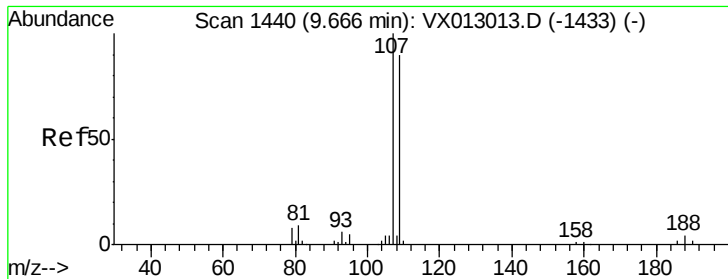
Tot Ion: 43 Resp: 6157
Ion Ratio Lower Upper
43 100
58 51.6 28.1 84.3



#60
Dibromochloromethane
Concen: 2.342 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. 0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 129 Resp: 1010
Ion Ratio Lower Upper
129 100
127 69.0 38.9 116.7





#61

1,2-Dibromoethane

Concen: 0.631 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

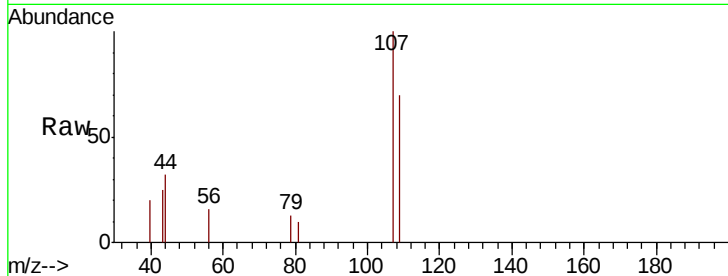
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 107 Resp: 1196

Ion Ratio Lower Upper

107 100

109 85.5 75.8 113.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

800

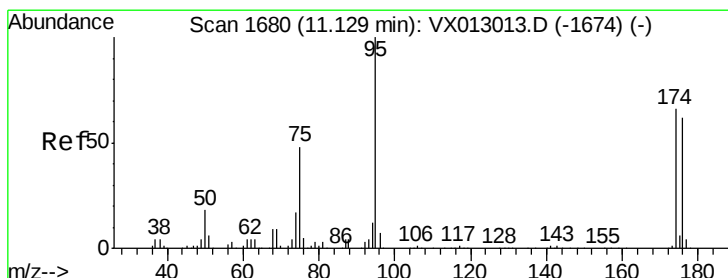
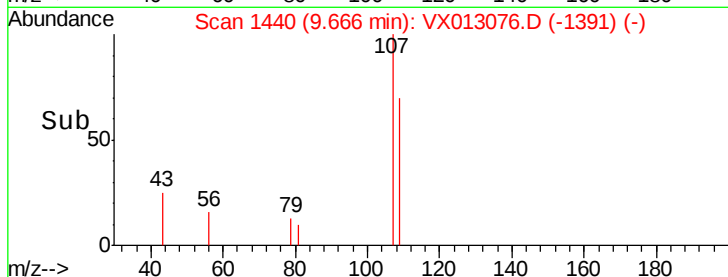
600

400

200

0

Time--> 9.60 9.65 9.70



#62

4-Bromofluorobenzene

Concen: 46.170 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

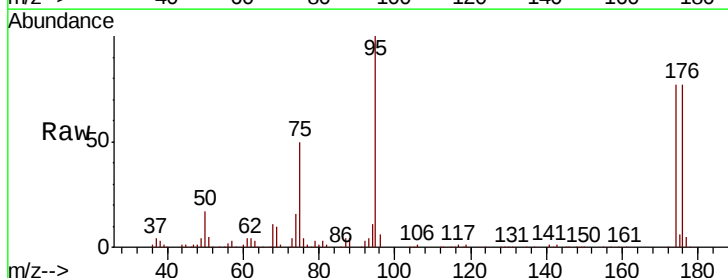
Tgt Ion: 95 Resp: 109977

Ion Ratio Lower Upper

95 100

174 73.2 0.0 143.4

176 72.0 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

100000

80000

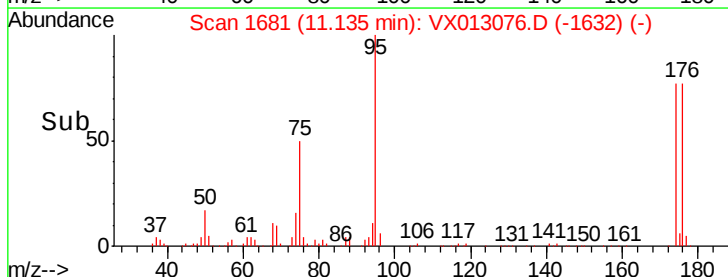
60000

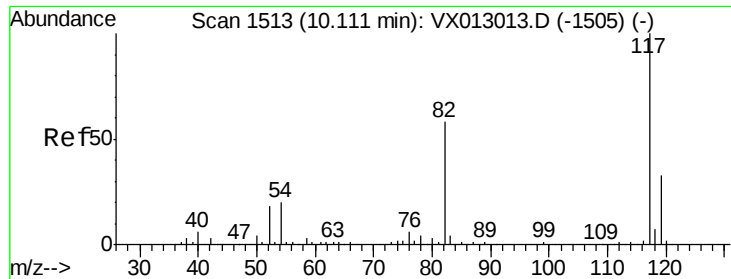
40000

20000

0

Time--> 11.10 11.20

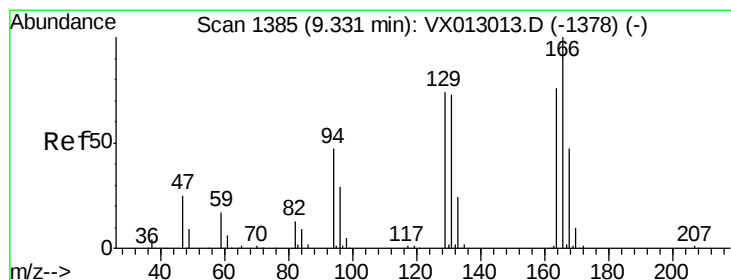
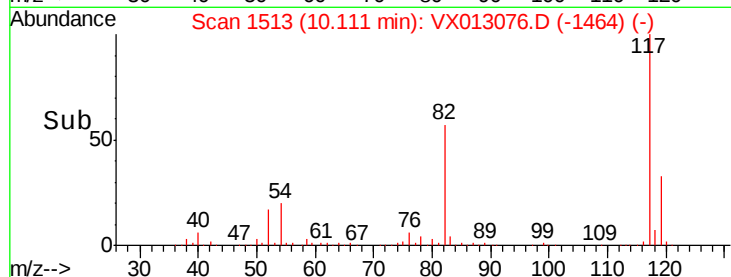
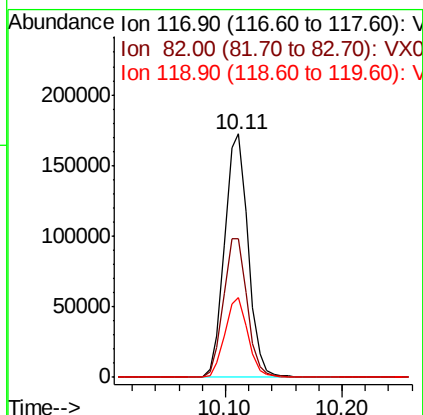
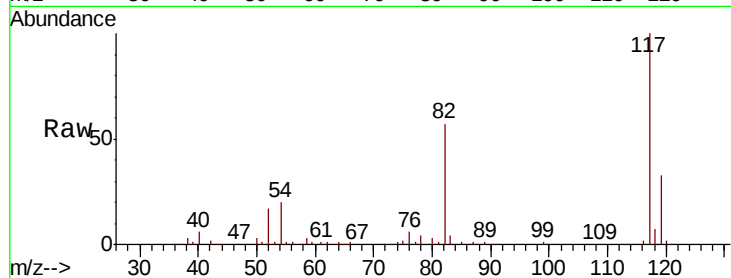




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

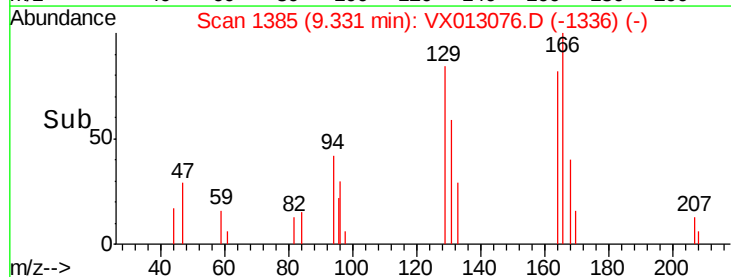
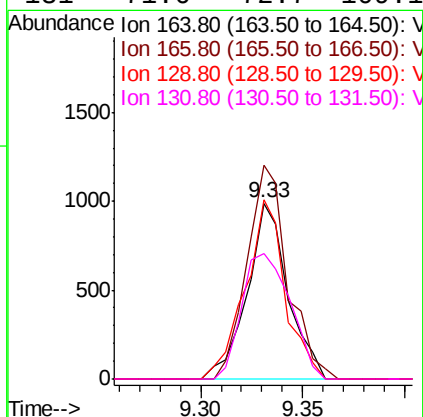
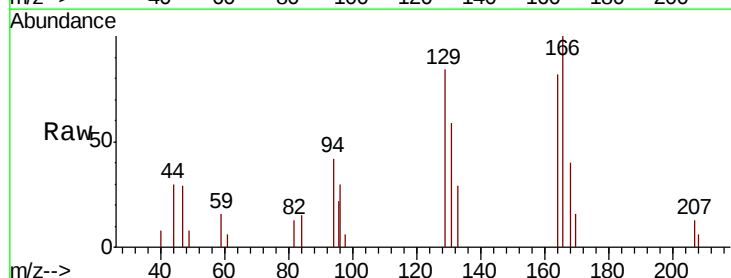
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

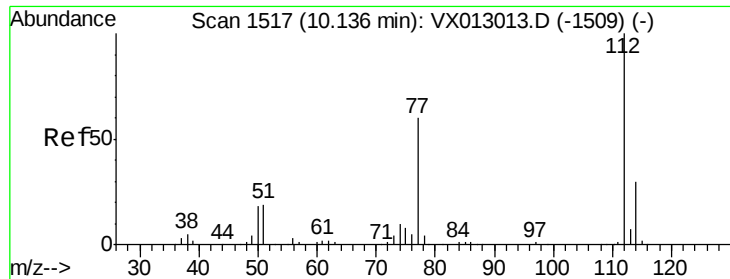
Tot Ion:117 Resp: 241178
Ion Ratio Lower Upper
117 100
82 57.1 44.1 66.1
119 32.9 25.8 38.8



#64
Tetrachloroethene
Concen: 0.821 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion:164 Resp: 1374
Ion Ratio Lower Upper
164 100
166 121.8 96.9 145.3
129 102.3 77.9 116.9
131 71.6 72.7 109.1#





#65

Chlorobenzene

Concen: 0.704 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

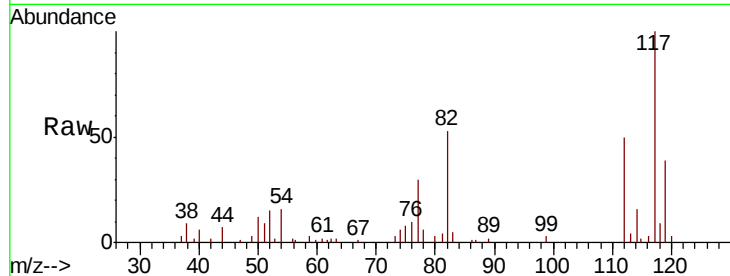
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:112 Resp: 3371

Ion Ratio Lower Upper

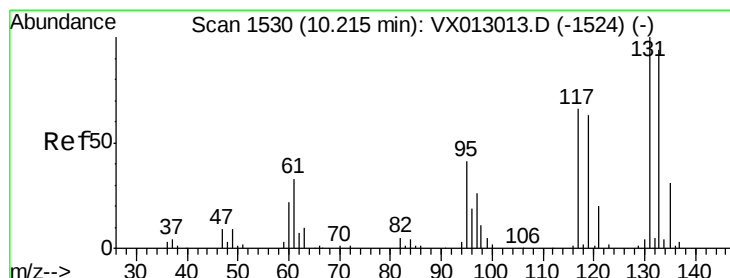
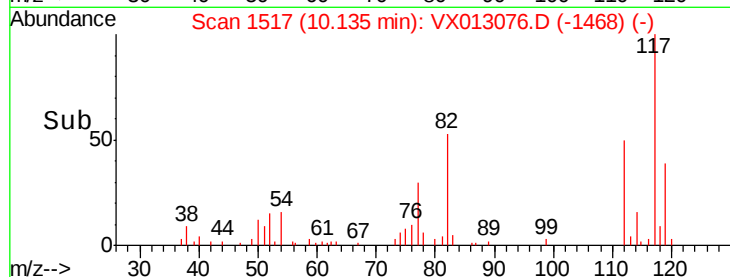
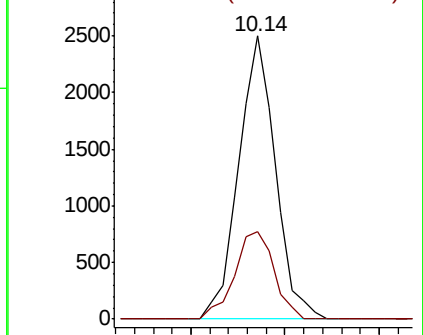
112 100

114 31.0 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.569 ug/l

RT: 10.22 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

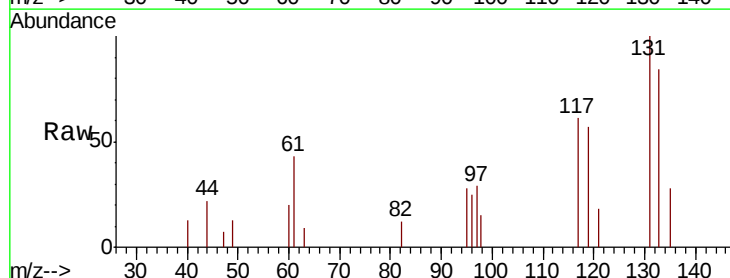
Tgt Ion:131 Resp: 945

Ion Ratio Lower Upper

131 100

133 99.9 47.2 141.6

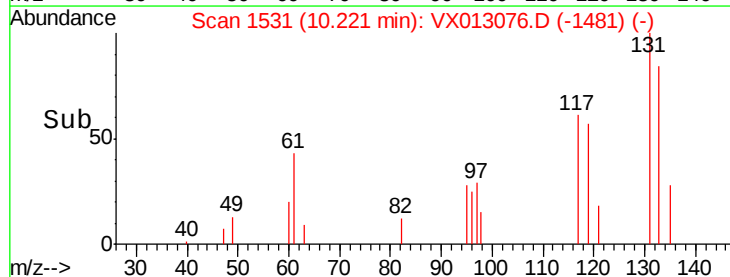
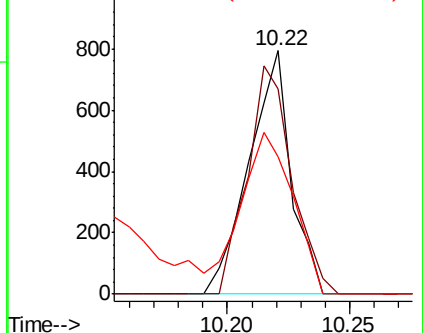
119 0.0 32.6 98.0#

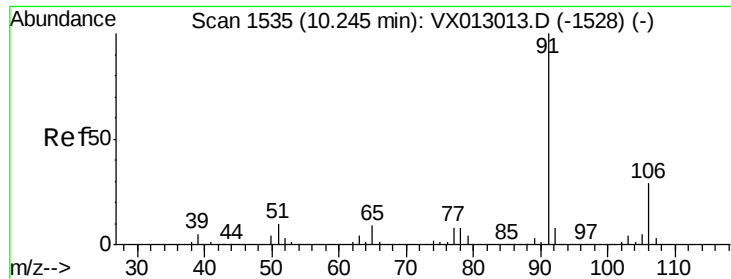


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

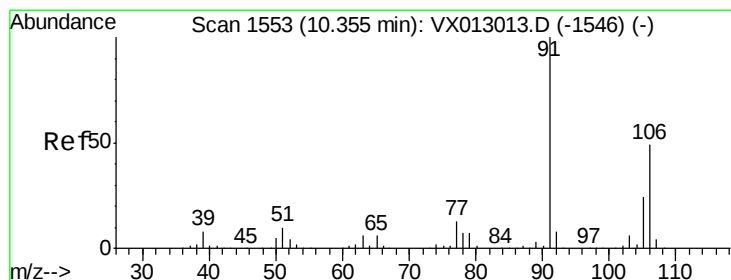
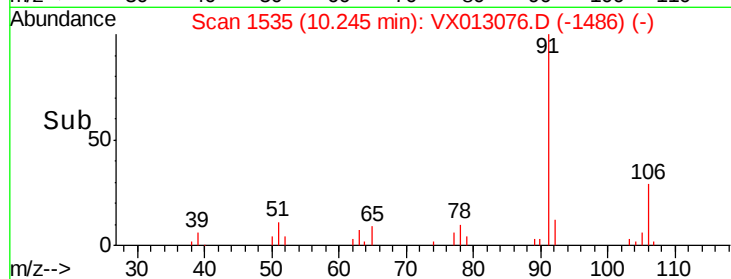
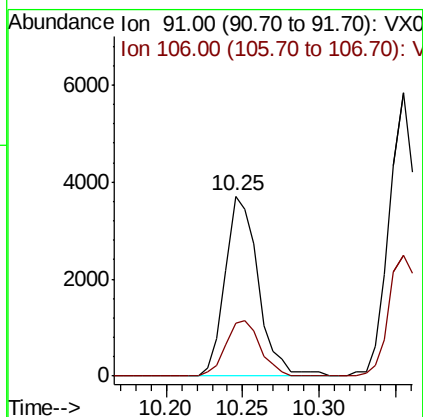
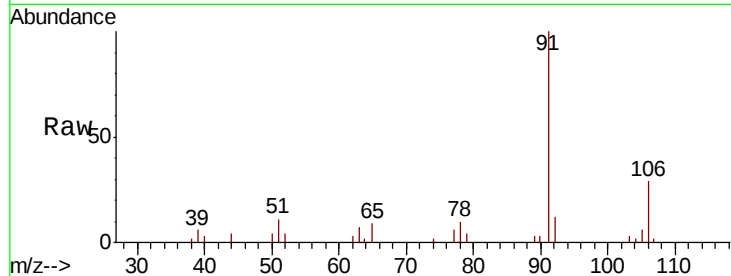




#67
Ethyl Benzene
Concen: 0.657 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

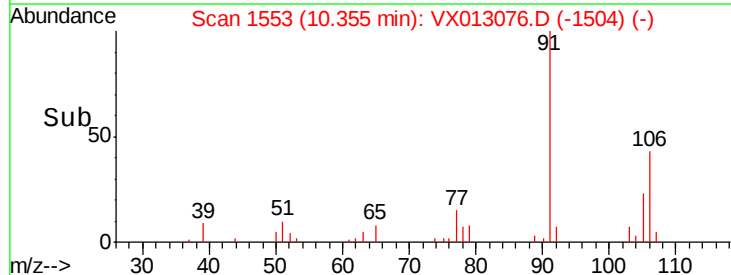
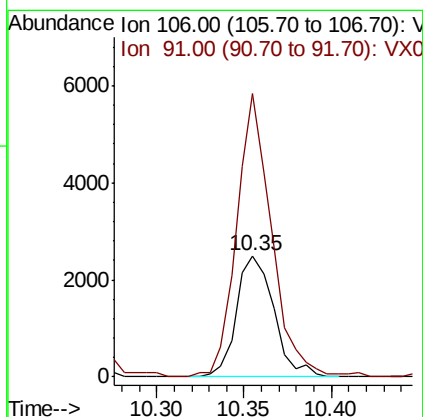
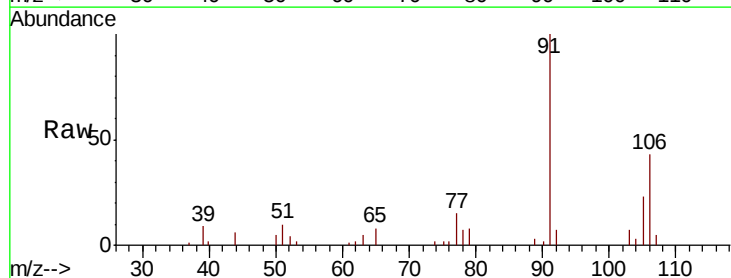
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

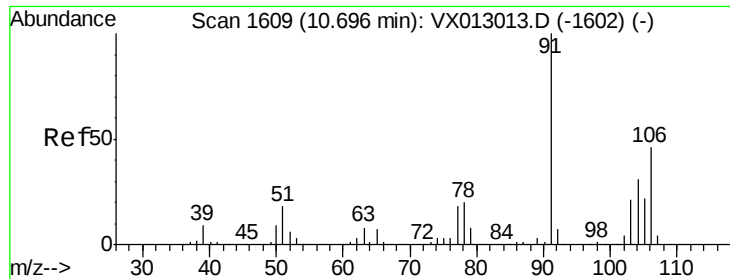
Tot Ion: 91 Resp: 5588
Ion Ratio Lower Upper
91 100
106 29.3 23.9 35.9



#68
m/p-Xylenes
Concen: 1.167 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 106 Resp: 3708
Ion Ratio Lower Upper
106 100
91 219.7 165.3 247.9

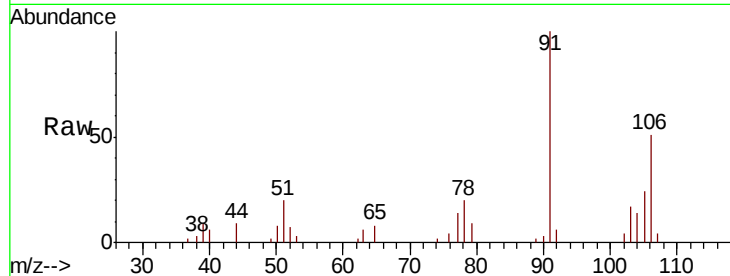




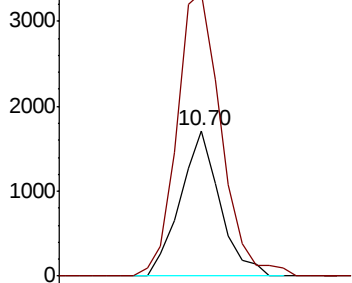
#69
o-Xylene
Concen: 0.684 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

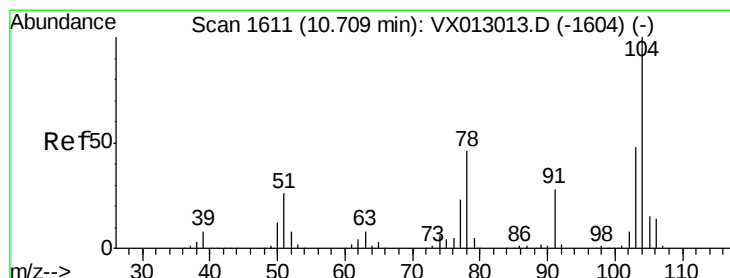
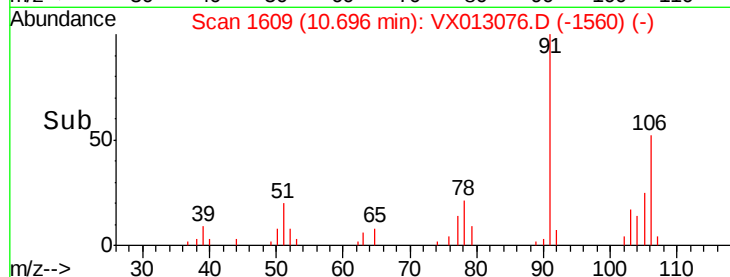
Tot Ion:106 Resp: 2119
Ion Ratio Lower Upper
106 100
91 217.3 109.1 327.3



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

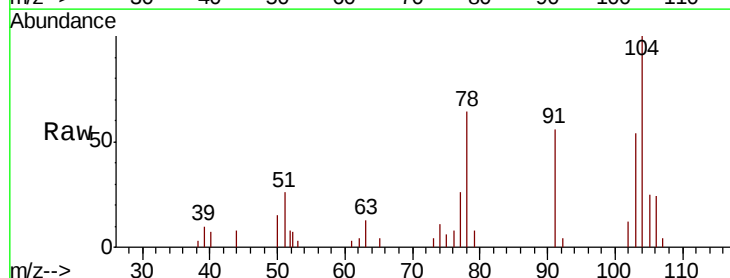


Time-->

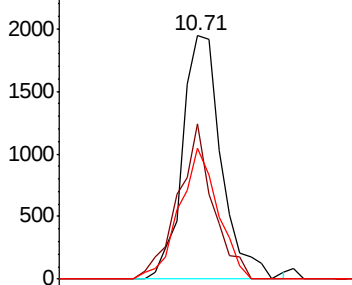


#70
Styrene
Concen: 0.576 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

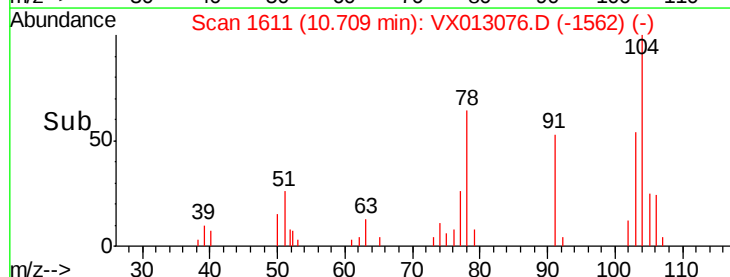
Tgt Ion:104 Resp: 3036
Ion Ratio Lower Upper
104 100
78 56.8 41.2 61.8
103 52.7 43.0 64.4

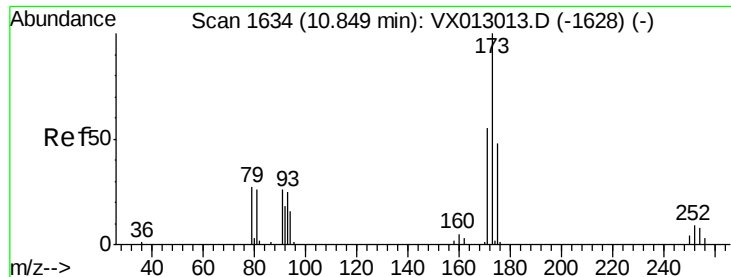


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V



Time-->





#71

Bromoform

Concen: 3.489 ug/l

RT: 10.85 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

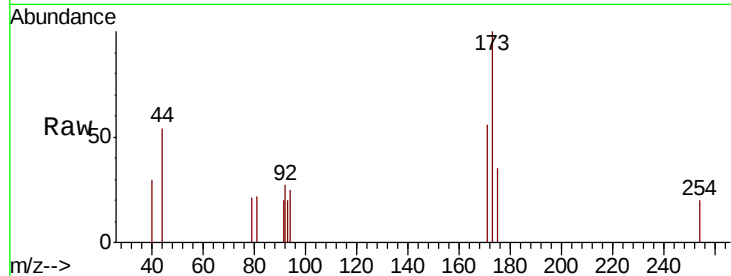
Tot Ion:173 Resp: 537

Ion Ratio Lower Upper

173 100

175 46.7 24.1 72.3

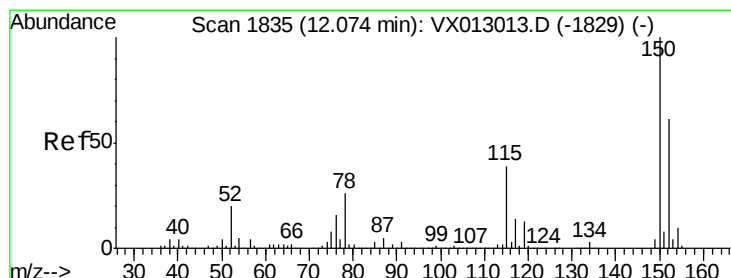
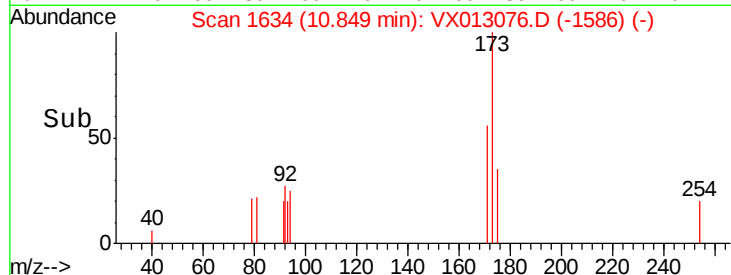
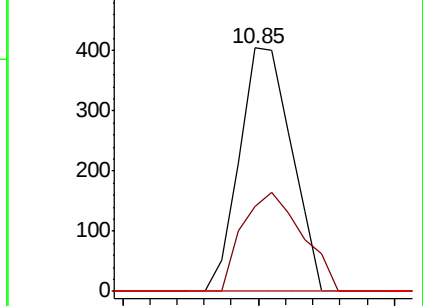
254 0.0 0.1 0.1#



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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

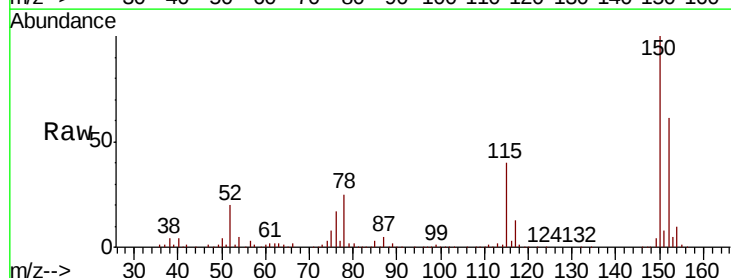
Tgt Ion:152 Resp: 105403

Ion Ratio Lower Upper

152 100

115 62.3 44.5 133.5

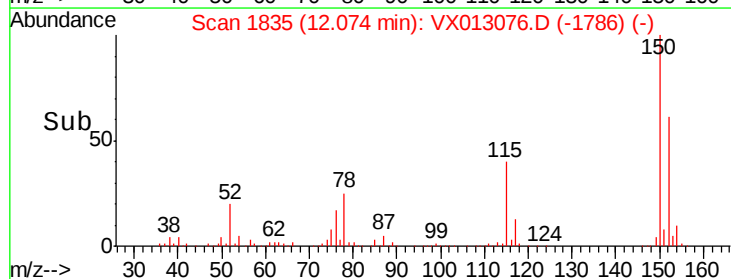
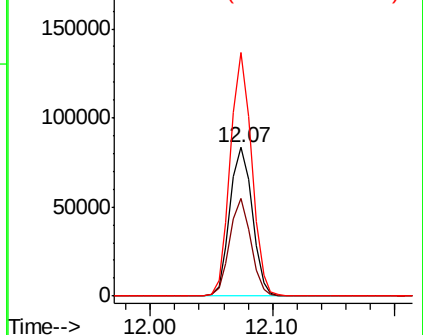
150 156.3 0.0 353.4

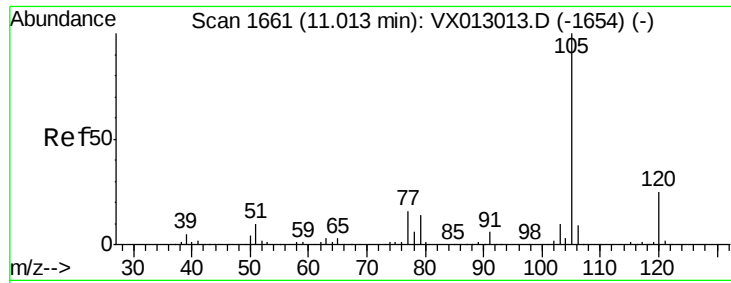


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.704 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

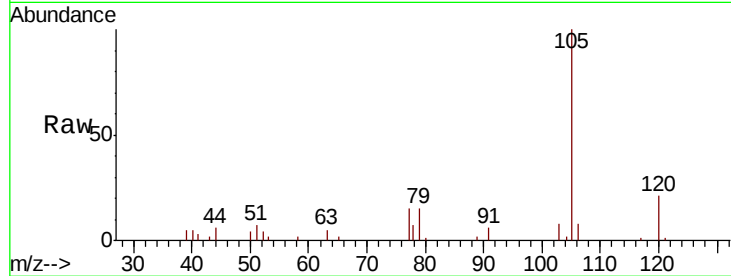
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 5452

Ion Ratio Lower Upper

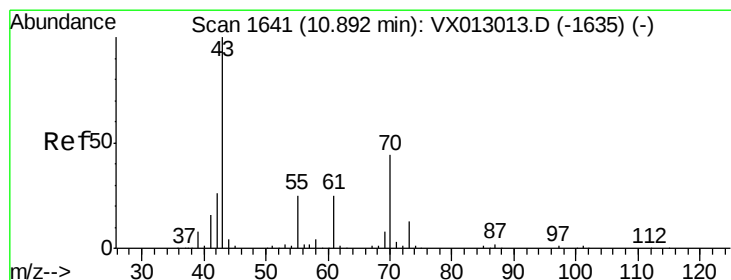
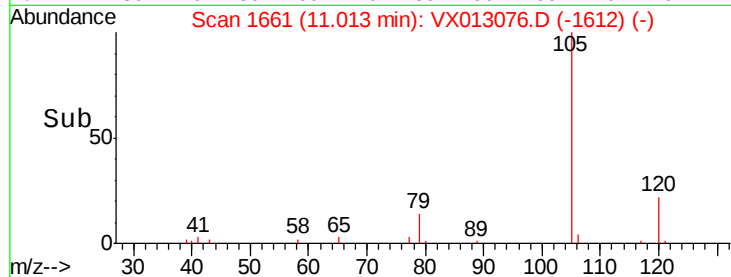
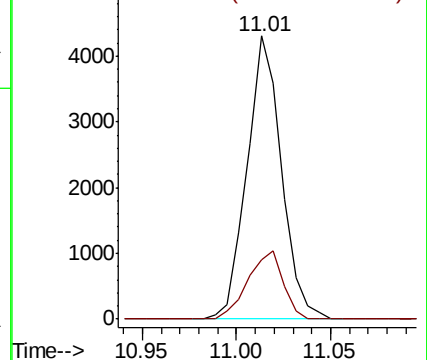
105 100

120 24.5 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.489 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Tgt Ion: 43 Resp: 1633

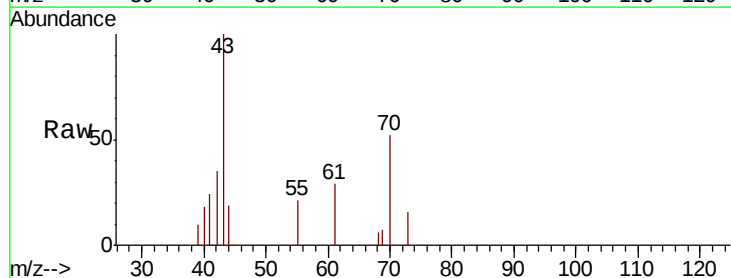
Ion Ratio Lower Upper

43 100

70 50.2 36.4 54.6

55 25.1 20.2 30.2

61 25.3 20.5 30.7

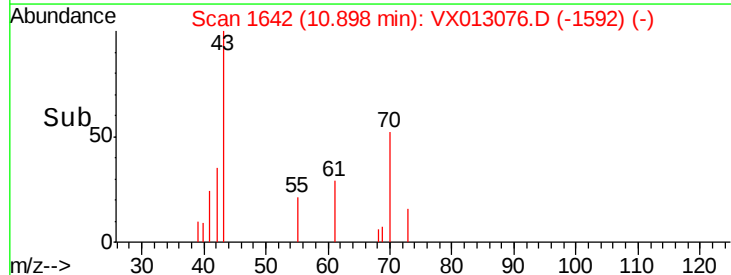
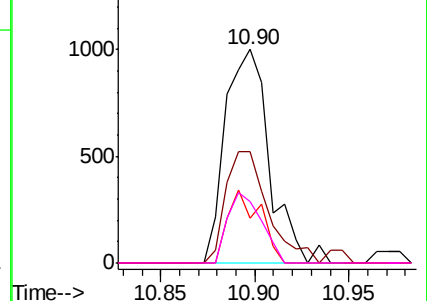


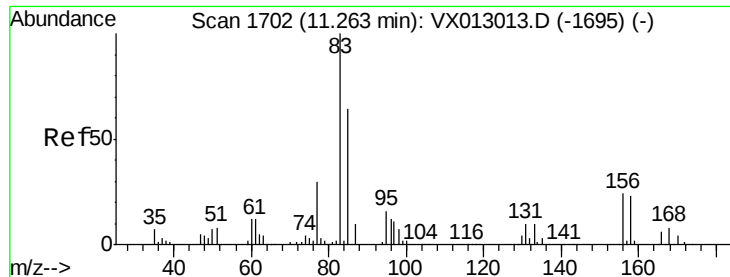
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 0.707 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

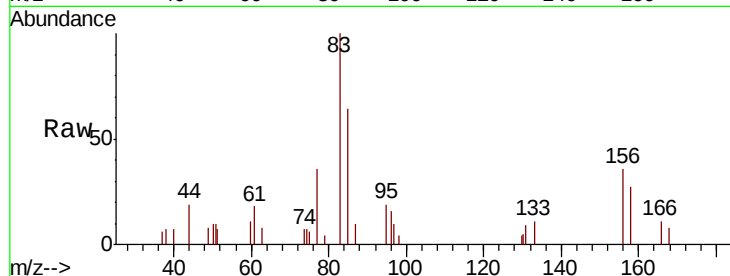
Tot Ion: 83 Resp: 1823

Ion Ratio Lower Upper

83 100

131 7.8 5.1 15.3

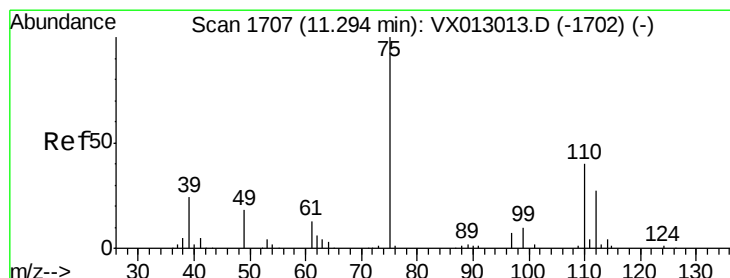
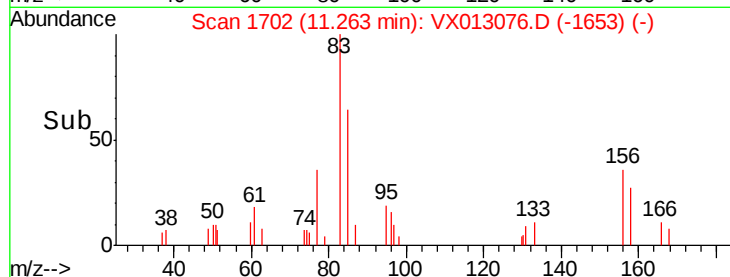
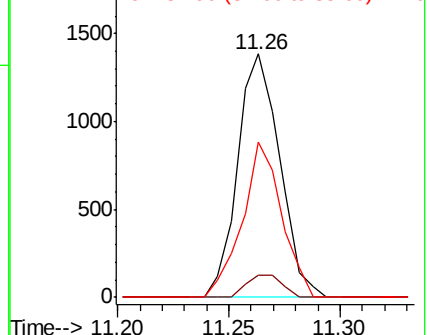
85 59.6 32.1 96.5



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: 0.844 ug/l

RT: 11.29 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX013076.D

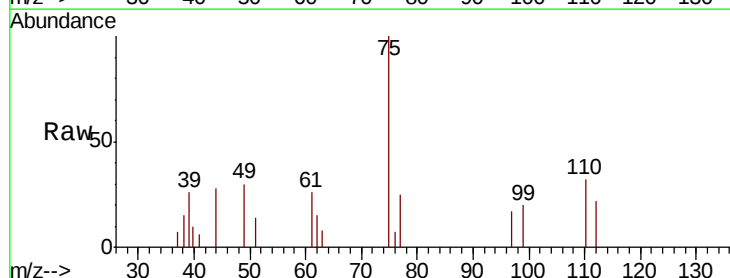
Acq: 15 Oct 2019 14:30

Tgt Ion: 75 Resp: 1974

Ion Ratio Lower Upper

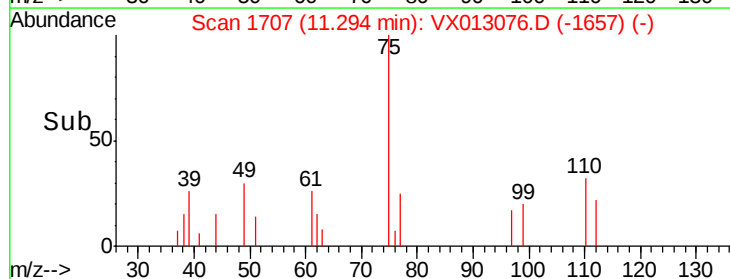
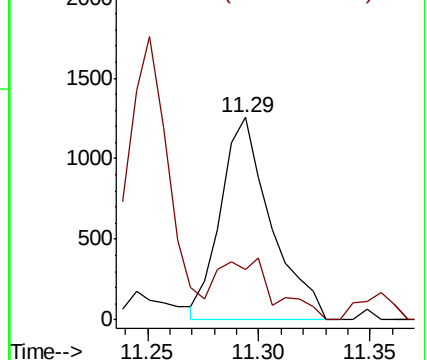
75 100

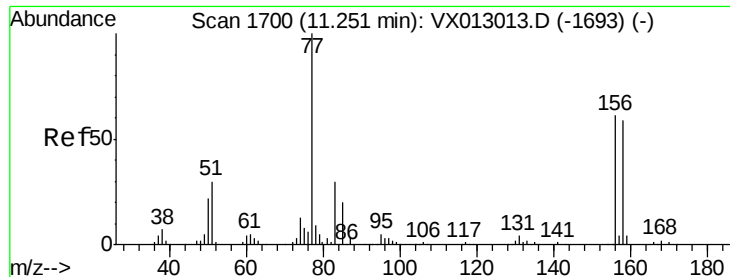
77 33.6 22.9 68.8



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 0.715 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

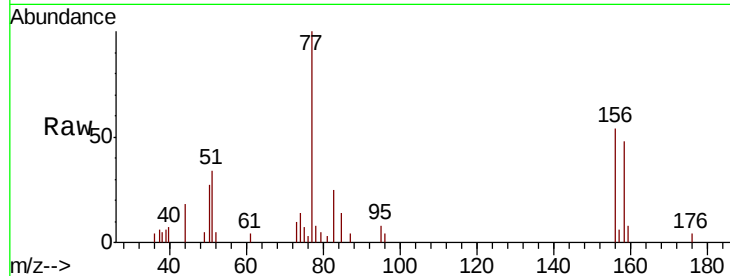
Tot Ion:156 Resp: 1305

Ion Ratio Lower Upper

156 100

77 171.0 83.7 251.0

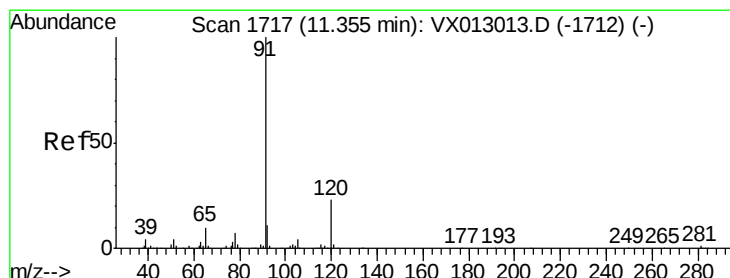
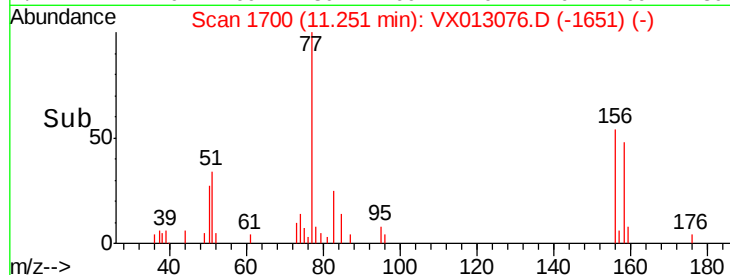
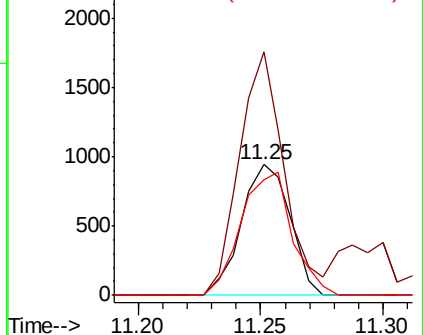
158 99.3 48.6 145.9



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: 0.663 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013076.D

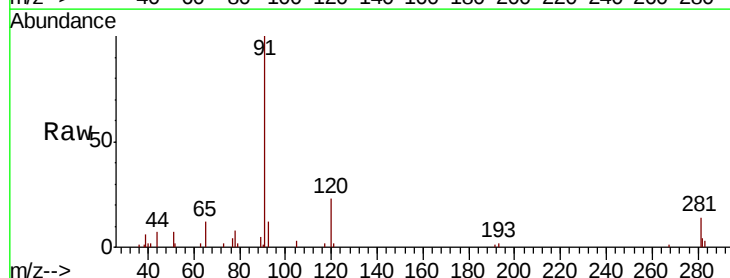
Acq: 15 Oct 2019 14:30

Tgt Ion: 91 Resp: 5655

Ion Ratio Lower Upper

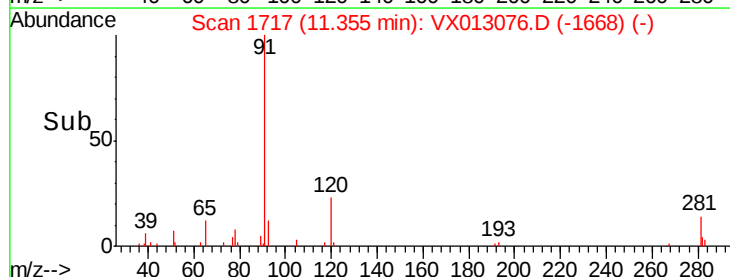
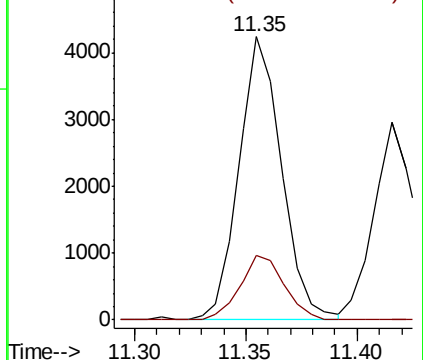
91 100

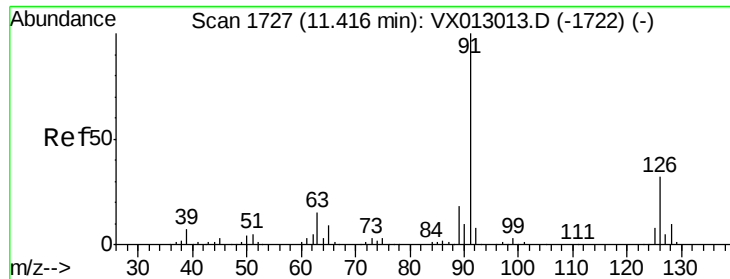
120 23.6 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

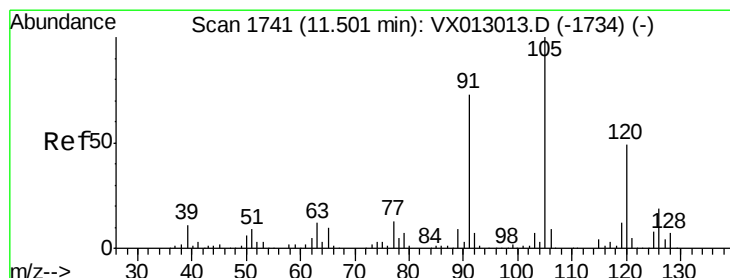
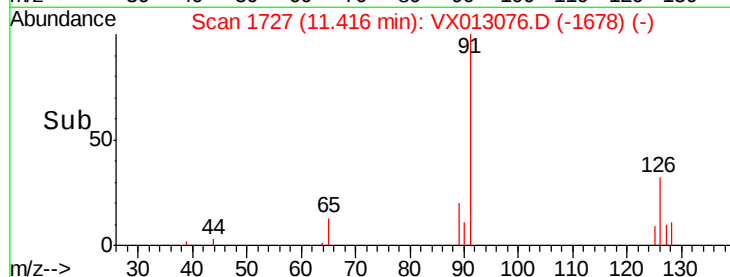
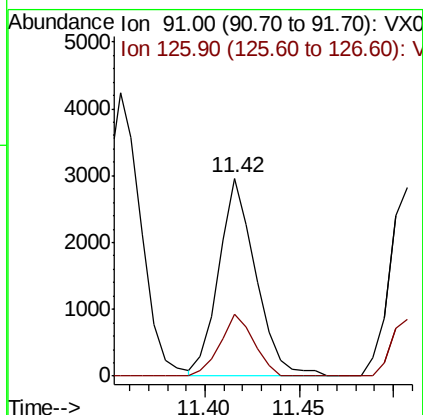
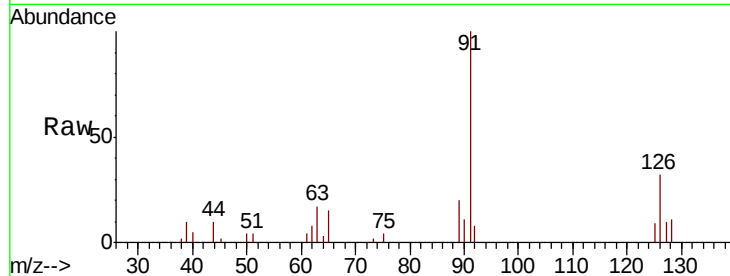




#79
 2-Chlorotoluene
 Concen: 0.751 ug/l
 RT: 11.42 min Scan# 1727
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

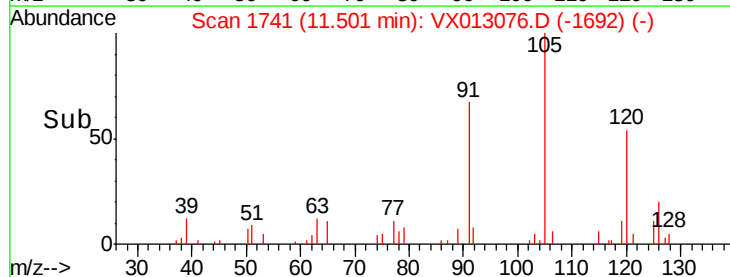
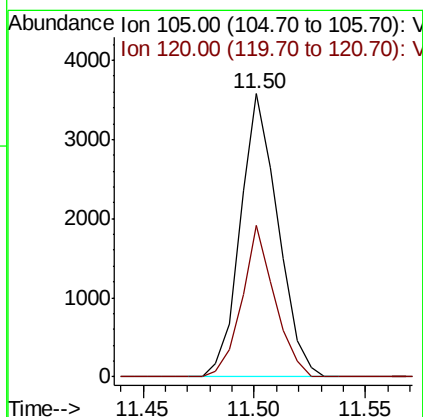
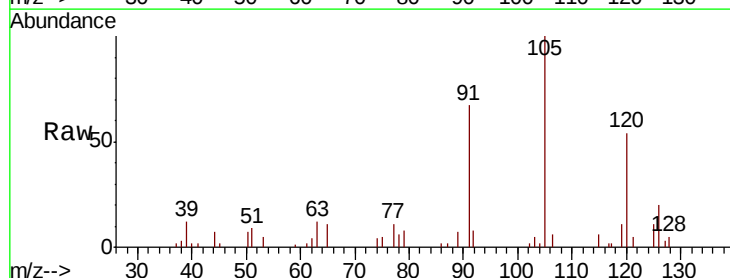
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

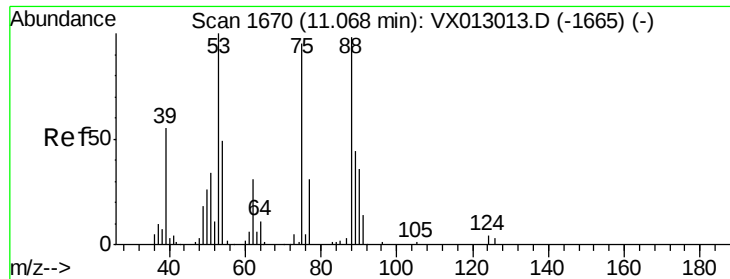
Tot Ion: 91 Resp: 4025
 Ion Ratio Lower Upper
 91 100
 126 28.8 16.3 48.8



#80
 1,3,5-Trimethylbenzene
 Concen: 0.648 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 105 Resp: 4192
 Ion Ratio Lower Upper
 105 100
 120 46.8 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 58.146 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

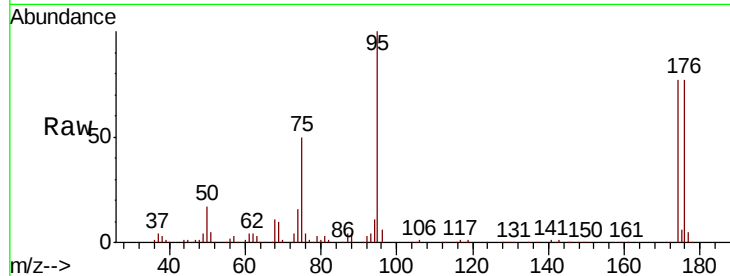
Tot Ion: 75 Resp: 53521

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

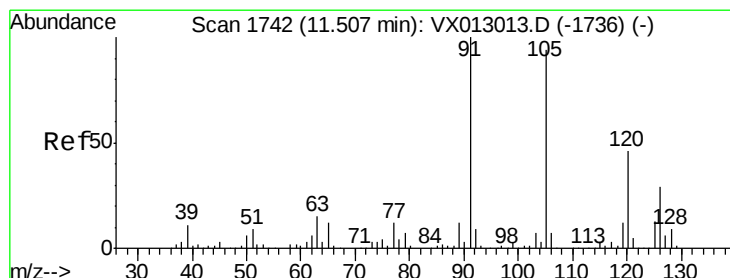
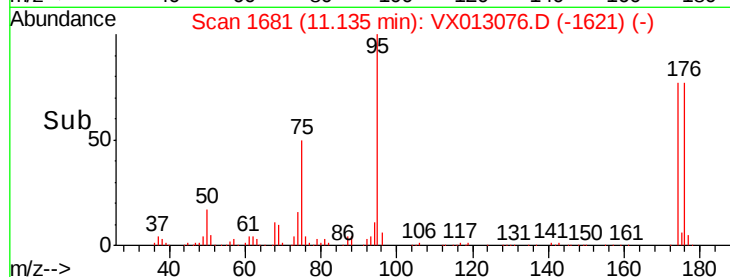
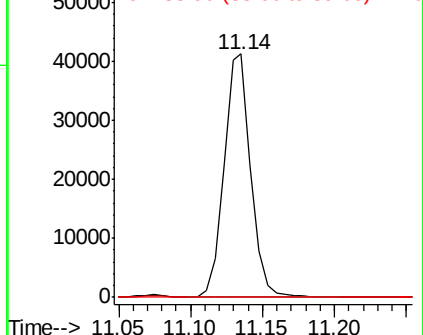
89 0.0 37.4 56.2#



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: 0.680 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX013076.D

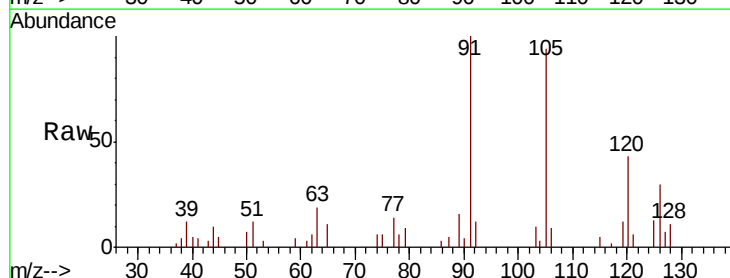
Acq: 15 Oct 2019 14:30

Tgt Ion: 91 Resp: 4175

Ion Ratio Lower Upper

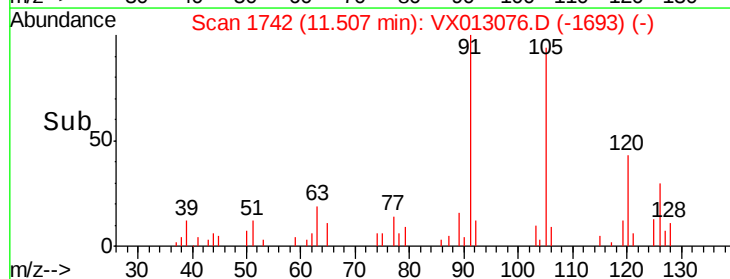
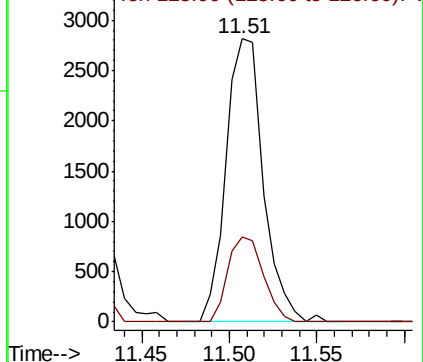
91 100

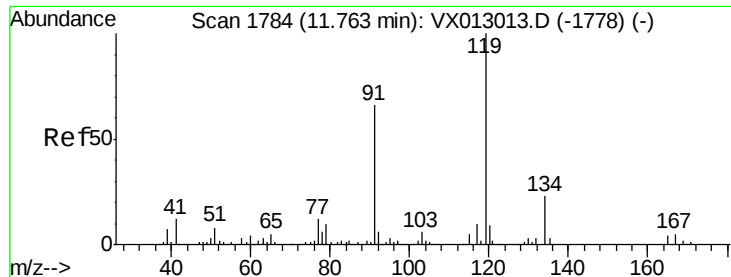
126 28.6 14.2 42.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 0.634 ug/l

RT: 11.77 min Scan# 1785

Delta R.T. 0.01 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

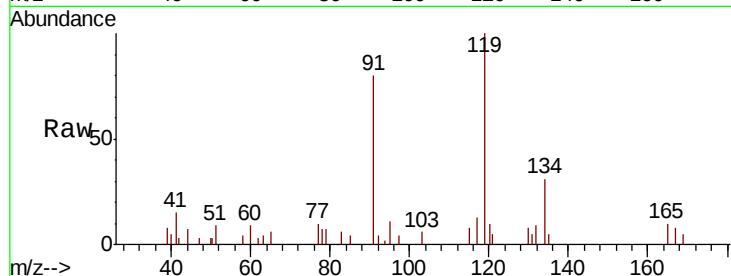
Tot Ion:119 Resp: 4003

Ion Ratio Lower Upper

119 100

91 70.0 29.3 87.9

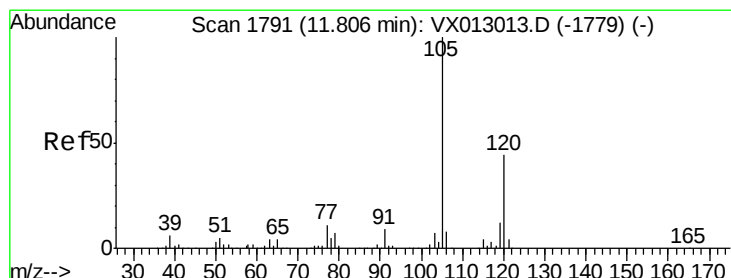
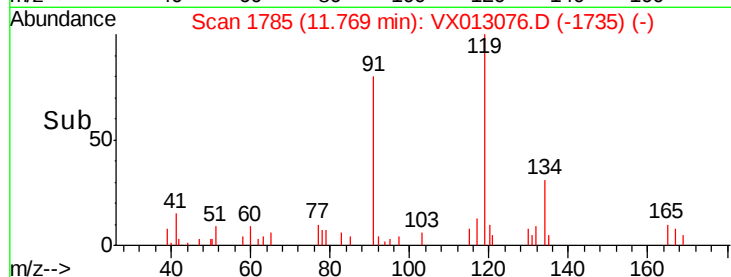
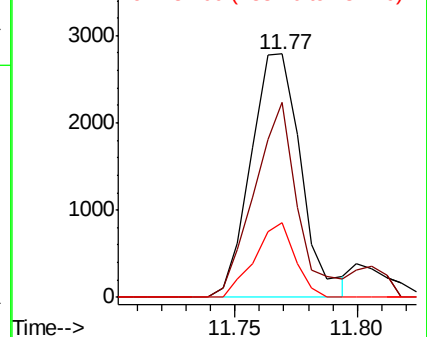
134 24.5 11.5 34.4



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: 0.615 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX013076.D

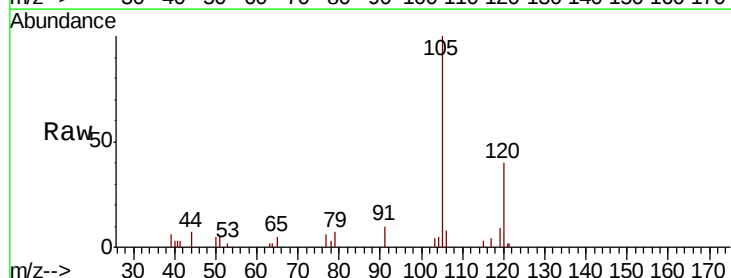
Acq: 15 Oct 2019 14:30

Tgt Ion:105 Resp: 4030

Ion Ratio Lower Upper

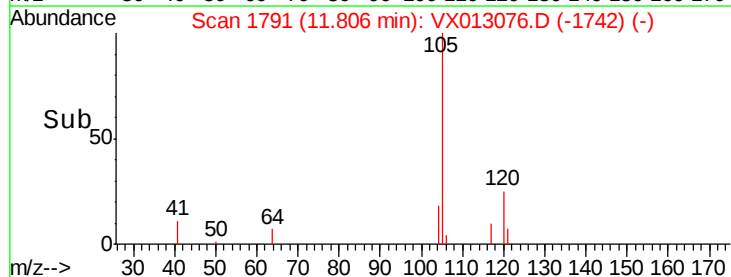
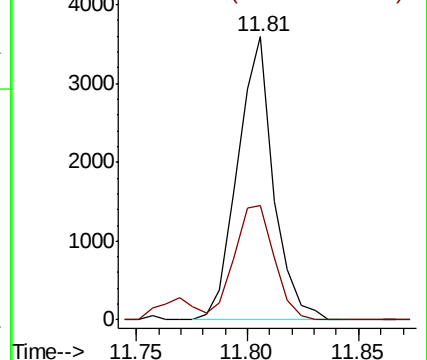
105 100

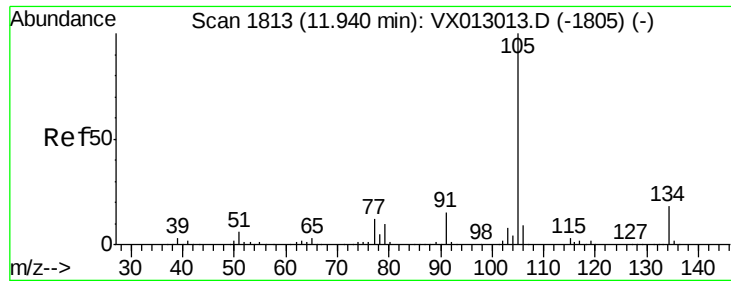
120 44.8 21.8 65.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.631 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

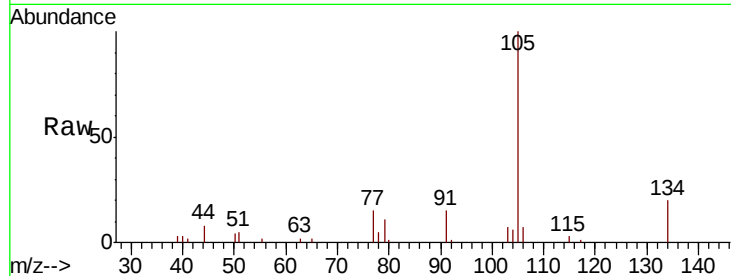
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 4612

Ion Ratio Lower Upper

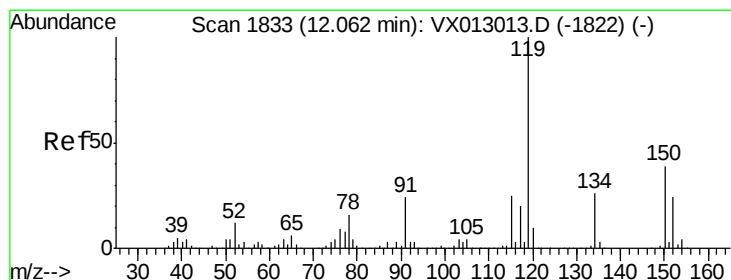
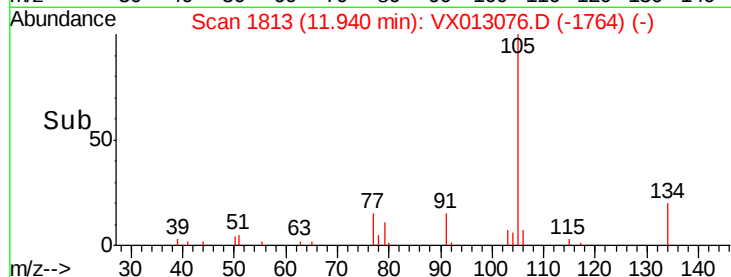
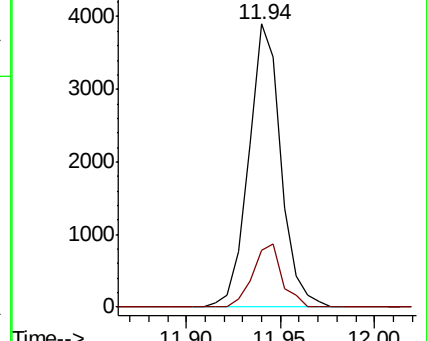
105 100

134 20.2 10.0 30.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.605 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX013076.D

Acq: 15 Oct 2019 14:30

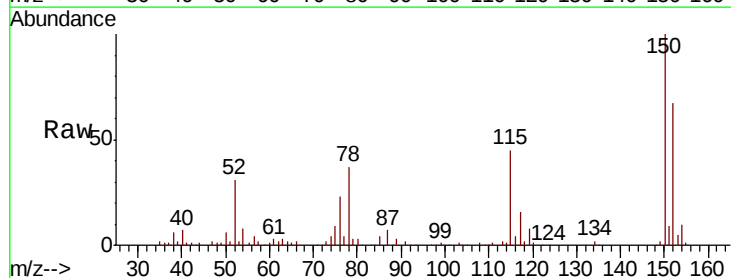
Tgt Ion:119 Resp: 4105

Ion Ratio Lower Upper

119 100

134 27.7 12.6 37.8

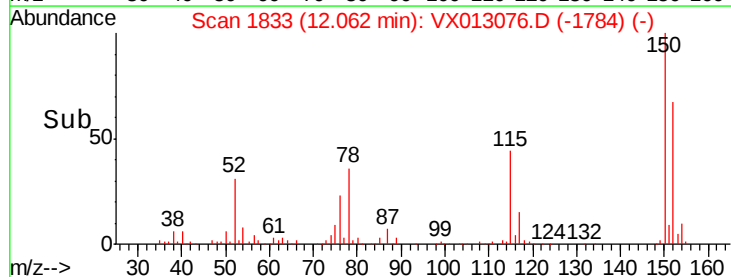
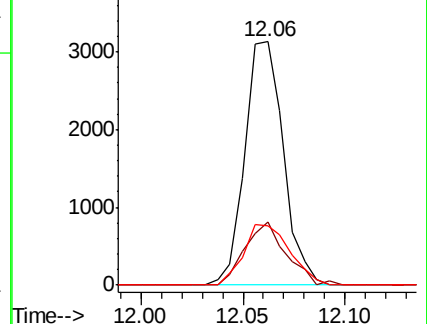
91 30.0 12.4 37.4



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

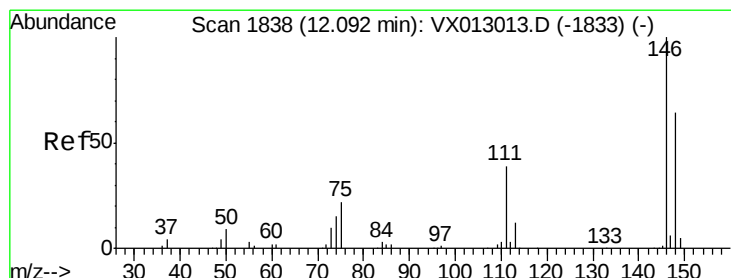
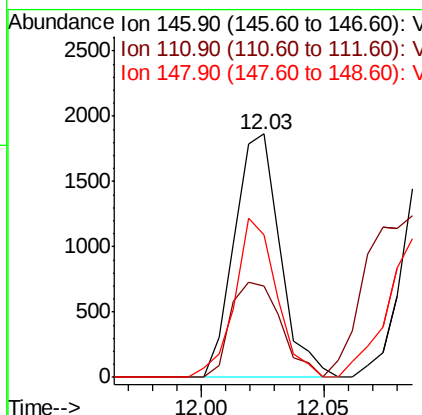
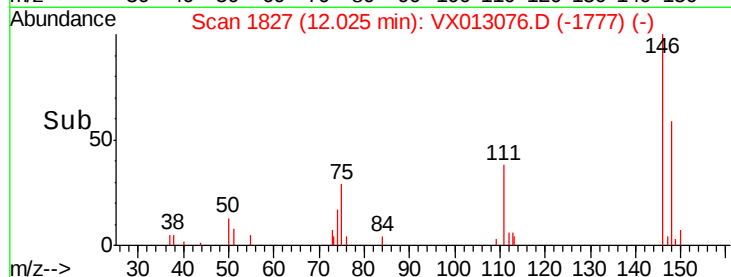
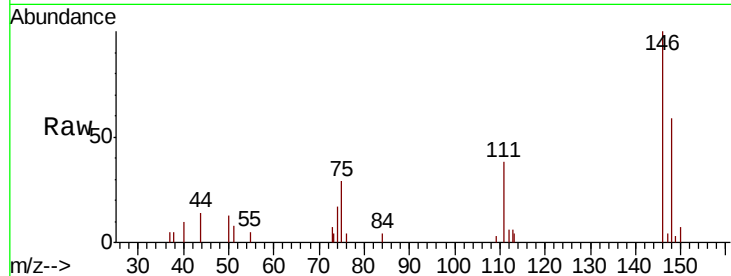




#87
 1,3-Dichlorobenzene
 Concen: 0.715 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

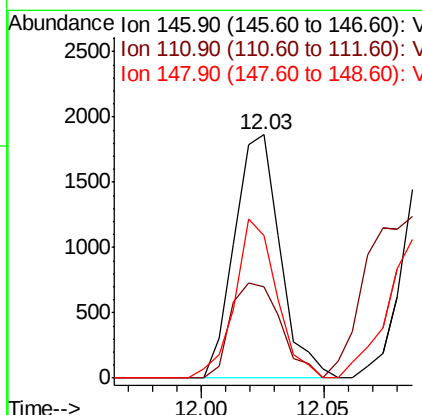
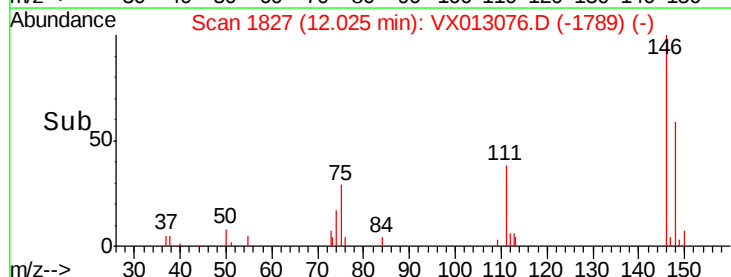
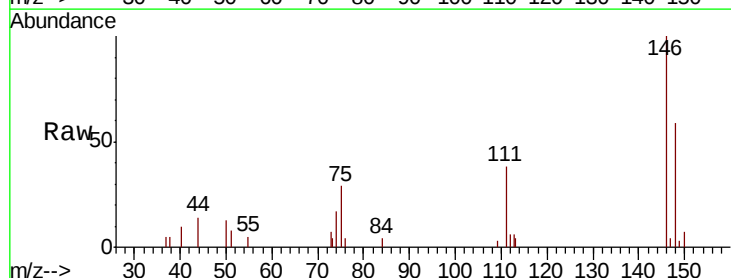
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:146 Resp: 2423
 Ion Ratio Lower Upper
 146 100
 111 42.9 21.1 63.4
 148 60.0 31.6 95.0



#88
 1,4-Dichlorobenzene
 Concen: 0.706 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. -0.07 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion:146 Resp: 2423
 Ion Ratio Lower Upper
 146 100
 111 42.9 21.4 64.3
 148 60.0 32.1 96.5

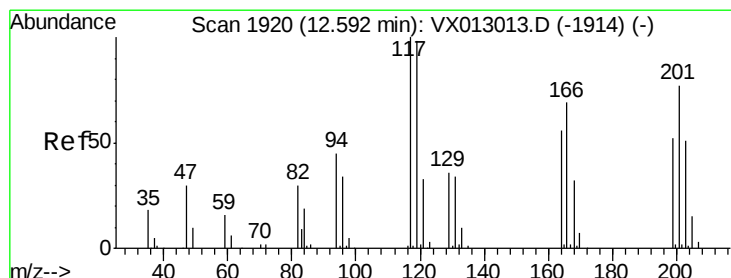
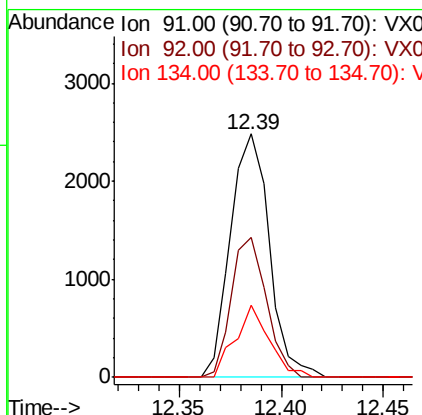
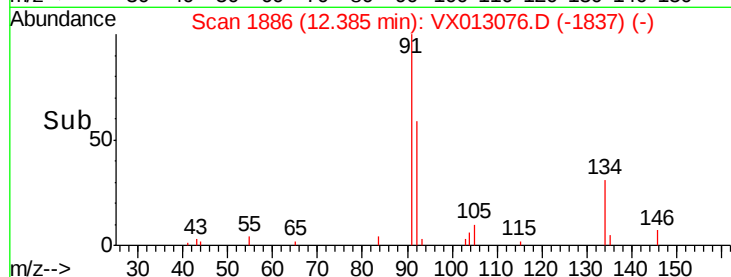
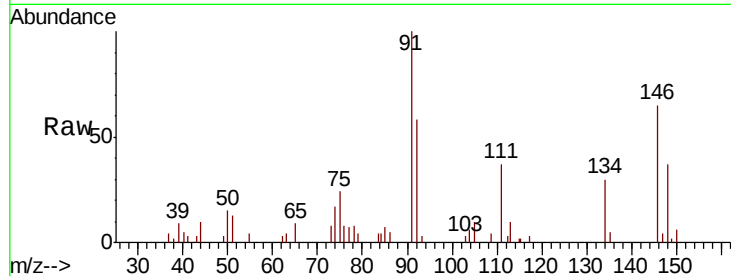




#89
n-Butylbenzene
Concen: 0.577 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

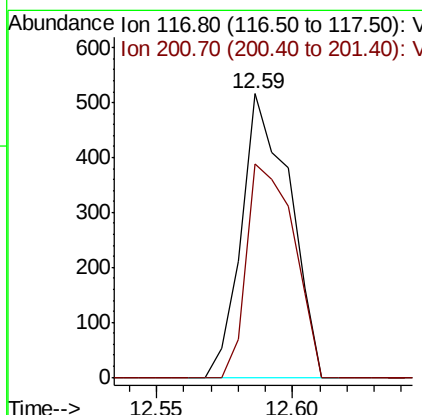
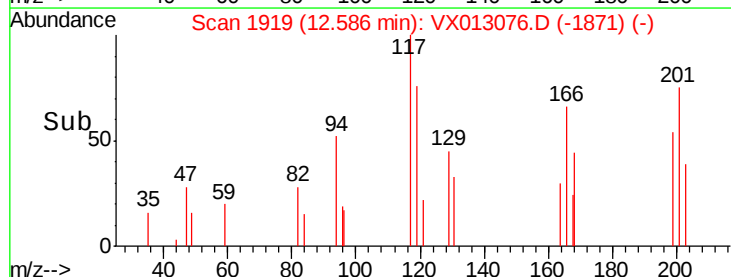
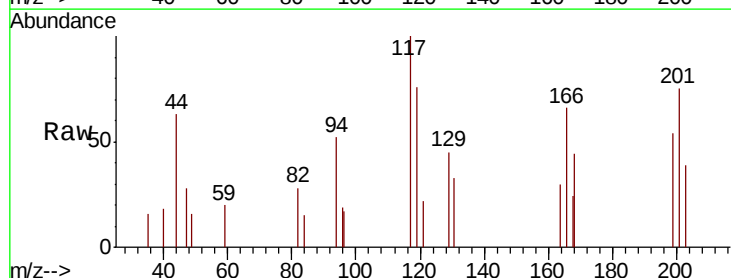
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

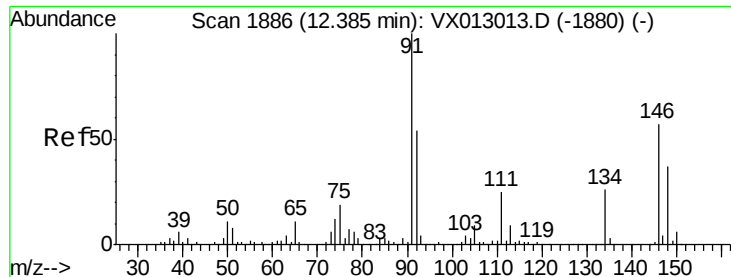
Tot Ion: 91 Resp: 3288
Ion Ratio Lower Upper
91 100
92 51.8 27.5 82.5
134 25.9 12.9 38.7



#90
Hexachloroethane
Concen: 2.602 ug/l
RT: 12.59 min Scan# 1919
Delta R.T. -0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion: 117 Resp: 635
Ion Ratio Lower Upper
117 100
201 73.9 36.9 110.7

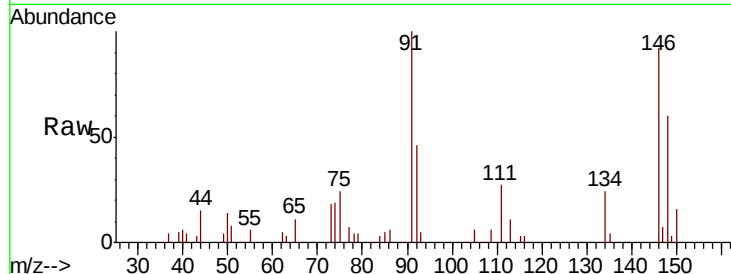




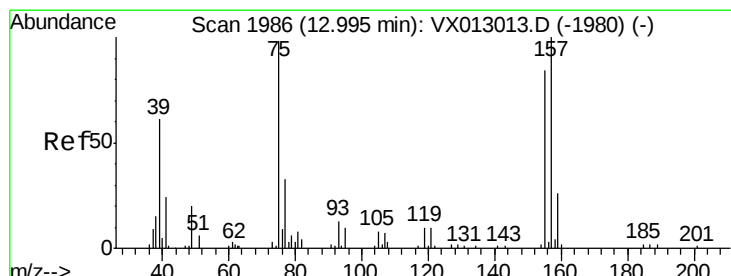
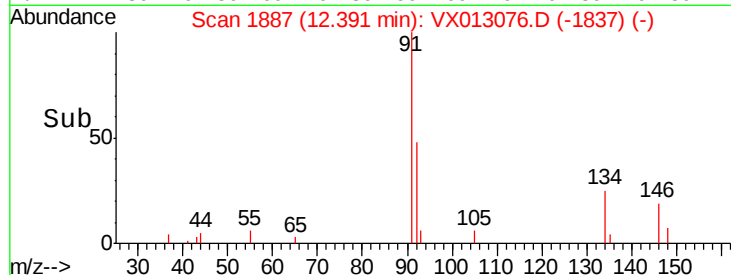
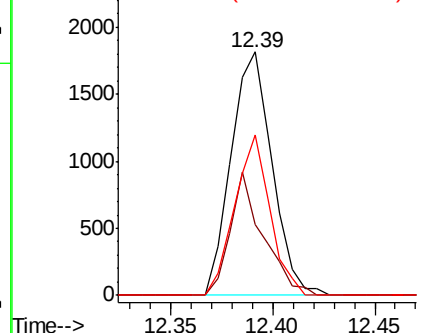
#91
 1,2-Dichlorobenzene
 Concen: 0.760 ug/l
 RT: 12.39 min Scan# 1887
 Delta R.T. 0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:146 Resp: 2528
 Ion Ratio Lower Upper
 146 100
 111 40.5 22.7 68.0
 148 56.4 31.6 94.7

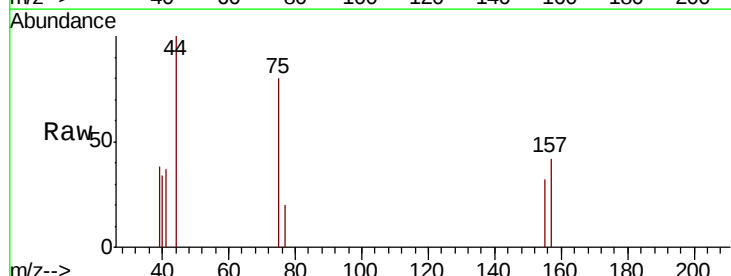


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

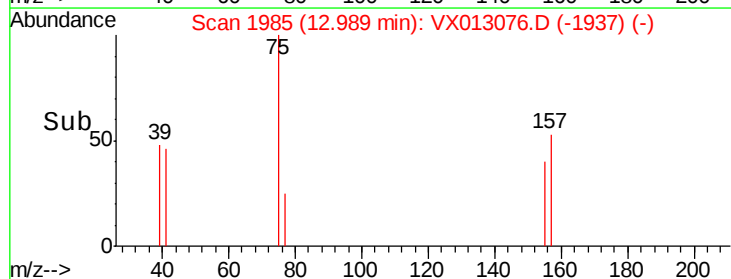
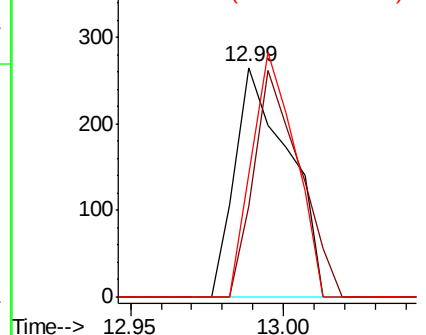


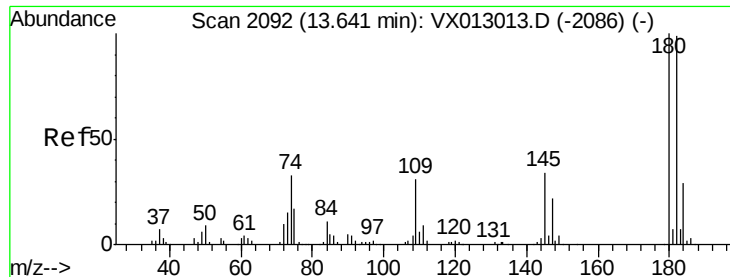
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.535 ug/l
 RT: 12.99 min Scan# 1985
 Delta R.T. -0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion: 75 Resp: 323
 Ion Ratio Lower Upper
 75 100
 155 85.4 43.0 128.8
 157 85.8 54.1 162.3



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

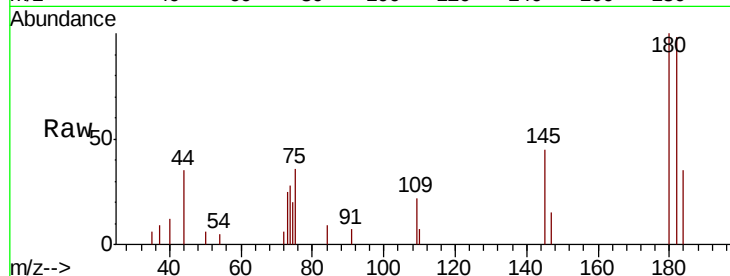




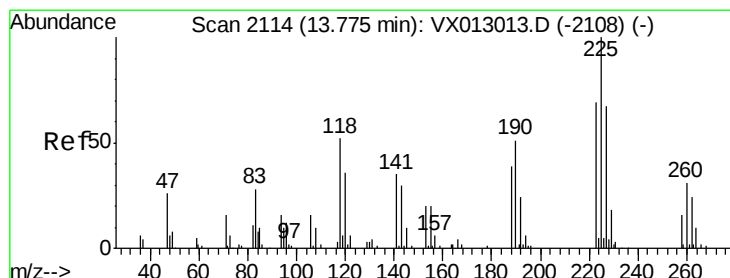
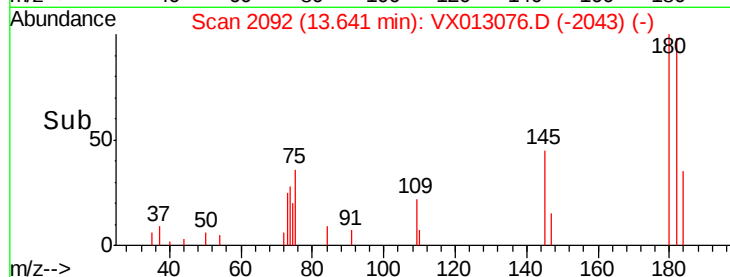
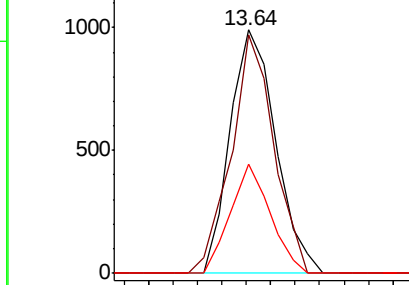
#93
 1,2,4-Trichlorobenzene
 Concen: 0.617 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:180 Resp: 1285
 Ion Ratio Lower Upper
 180 100
 182 91.5 46.8 140.4
 145 39.0 16.2 48.6

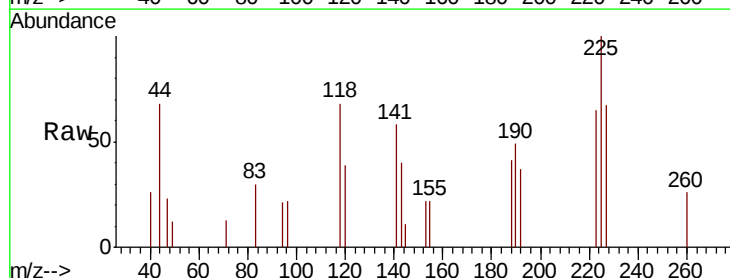


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

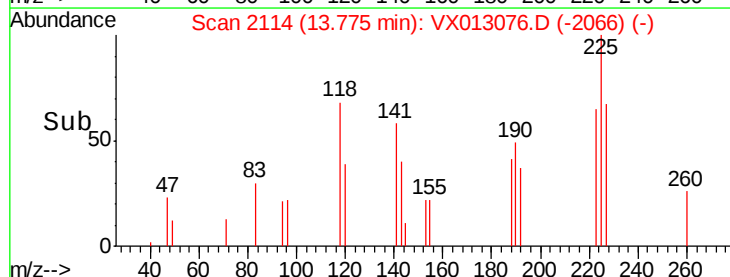
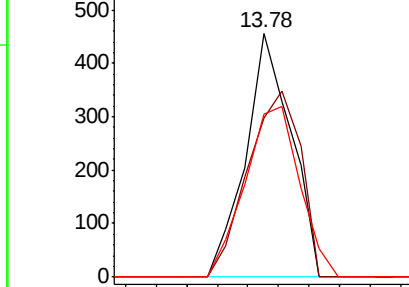


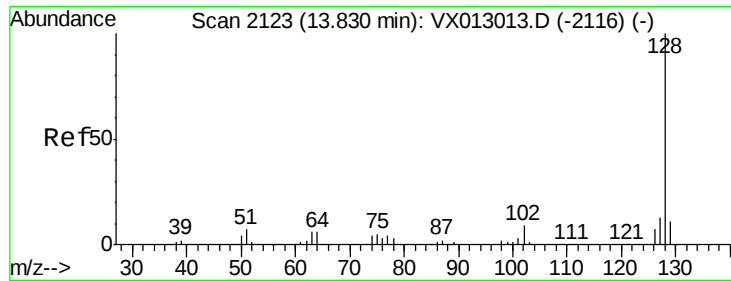
#94
 Hexachlorobutadiene
 Concen: 0.490 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. -0.01 min
 Lab File: VX013076.D
 Acq: 15 Oct 2019 14:30

Tgt Ion:225 Resp: 471
 Ion Ratio Lower Upper
 225 100
 223 88.3 31.1 93.2
 227 84.3 32.3 96.9



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

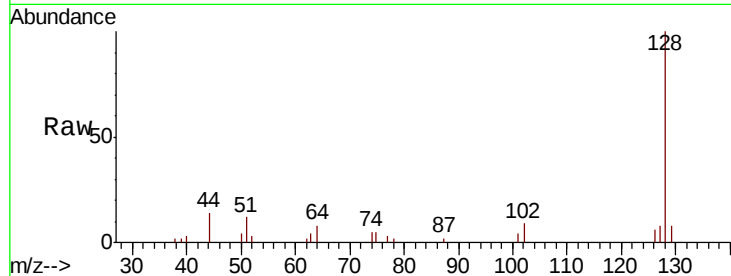




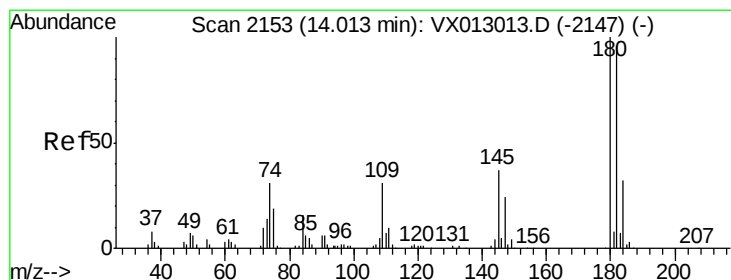
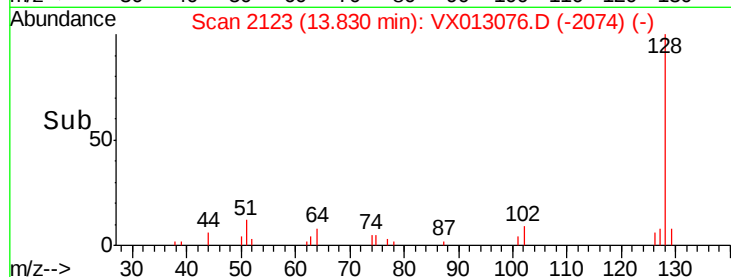
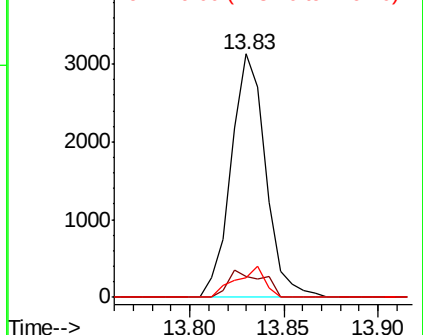
#95
Naphthalene
Concen: 0.551 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:128 Resp: 3981
Ion Ratio Lower Upper
128 100
127 11.1 10.2 15.4
129 10.3 8.8 13.2

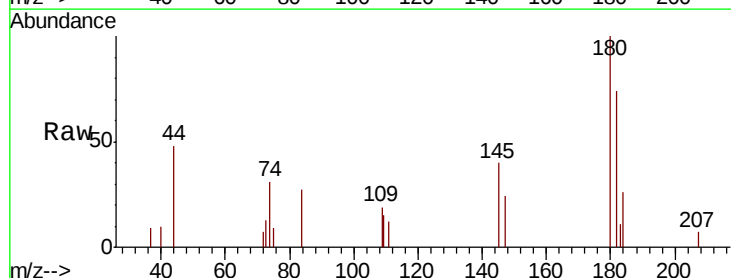


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.612 ug/l
RT: 14.02 min Scan# 2154
Delta R.T. 0.01 min
Lab File: VX013076.D
Acq: 15 Oct 2019 14:30

Tgt Ion:180 Resp: 1317
Ion Ratio Lower Upper
180 100
182 90.1 47.5 142.5
145 37.4 17.4 52.3



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

