

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010920\
 Data File : VX014505.D
 Acq On : 09 Jan 2020 18:33
 Operator : JC/SP
 Sample : L1034-01DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14DL

Quant Time: Jan 10 06:50:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	521636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	800570	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	726289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	344094	50.00	ug/l	0.00

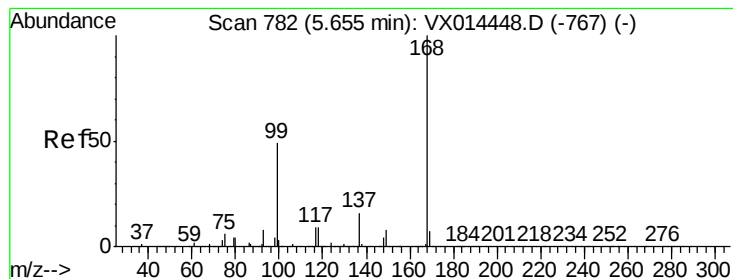
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	286664	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
35) Dibromofluoromethane	5.49	113	238658	49.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.50%	
50) Toluene-d8	8.71	98	950105	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
62) 4-Bromofluorobenzene	11.13	95	327497	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.19	85	442	0.320	ug/l	71
3) Chloromethane	1.32	50	1391	0.209	ug/l #	83
4) Vinyl Chloride	1.40	62	26453	3.570	ug/l	95
5) Bromomethane	1.65	94	1029	0.210	ug/l	85
6) Chloroethane	1.72	64	2228	Below Cal	#	73
8) Diethyl Ether	2.17	74	903	0.235	ug/l	97
11) Tert butyl alcohol	3.02	59	1566	1.288	ug/l #	44
12) 1,1-Dichloroethene	2.36	96	1427	0.277	ug/l #	47
16) Acetone	2.43	43	11716	Below Cal		93
20) Methylene Chloride	2.85	84	2045	0.349	ug/l #	86
21) trans-1,2-Dichloroethene	3.15	96	2643	0.470	ug/l #	85
22) Diisopropyl ether	3.85	45	13715	0.785	ug/l #	84
23) Vinyl Acetate	3.85	43	6431	0.475	ug/l #	86
25) 2-Butanone	4.67	43	3771	0.867	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	356649	56.723	ug/l	89
36) 1,1-Dichloropropene	5.65	75	34299	4.556	ug/l #	49
38) Carbon Tetrachloride	5.65	117	45168	6.520	ug/l #	18
44) Trichloroethene	7.21	130	25937	4.039	ug/l	95
49) 1,4-Dioxane	7.75	88	664	4.953	ug/l #	75
51) 4-Methyl-2-Pentanone	8.64	43	1676	0.208	ug/l	90
60) Dibromochloromethane	9.33	129	24713	4.280	ug/l #	12
64) Tetrachloroethene	9.33	164	29198	4.011	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	161030	22.619	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	161030	59.799	ug/l #	12
88) 1,4-Dichlorobenzene	12.02	146	611	Below Cal		82
93) 1,2,4-Trichlorobenzene	13.68	180	186	Below Cal		61
96) 1,2,3-Trichlorobenzene	14.01	180	613	Below Cal	#	74

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014505.D

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MSVOA_X

ClientSampleId :

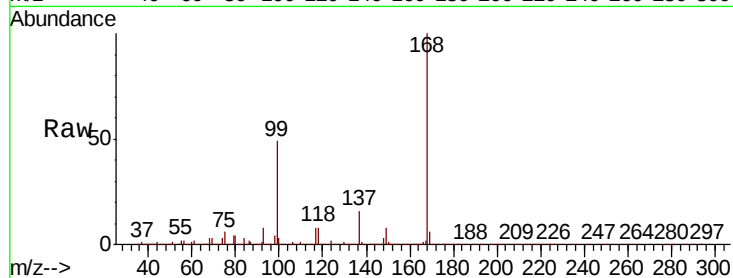
MW-14DL

Tot Ion:168 Resp: 521636

Ion Ratio Lower Upper

168 100

99 48.8 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

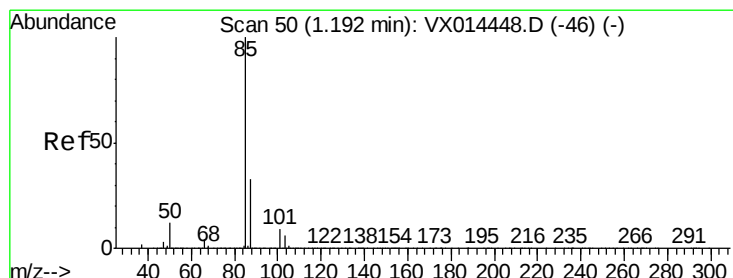
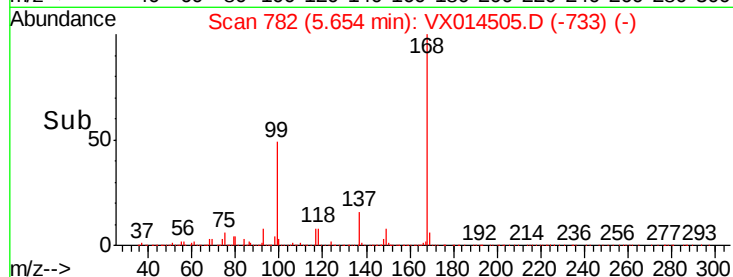
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.320 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014505.D

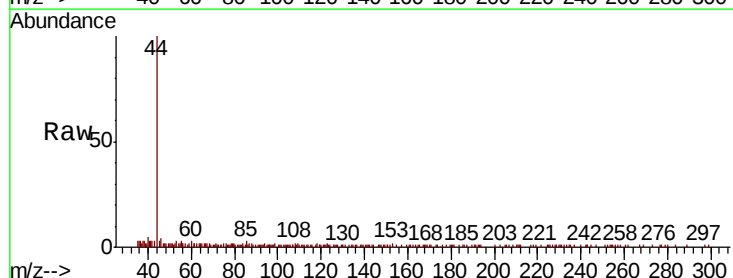
Acq: 09 Jan 2020 18:33

Tgt Ion: 85 Resp: 442

Ion Ratio Lower Upper

85 100

87 16.6 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

400

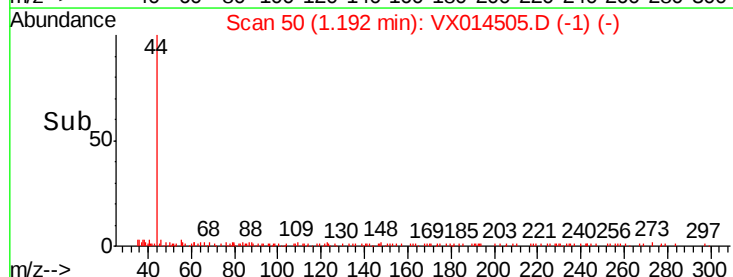
300

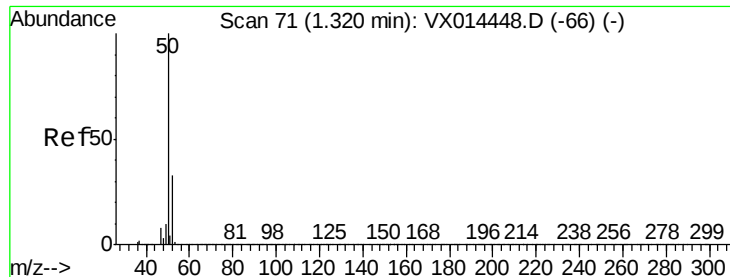
200

100

0

Time-->

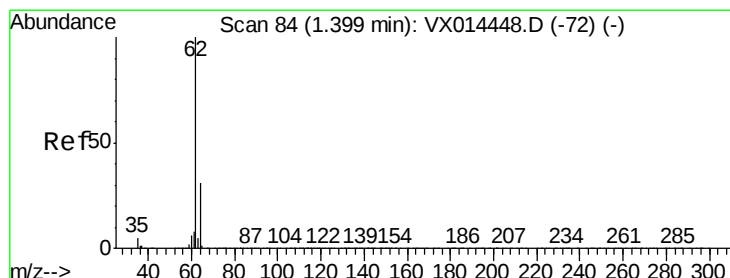
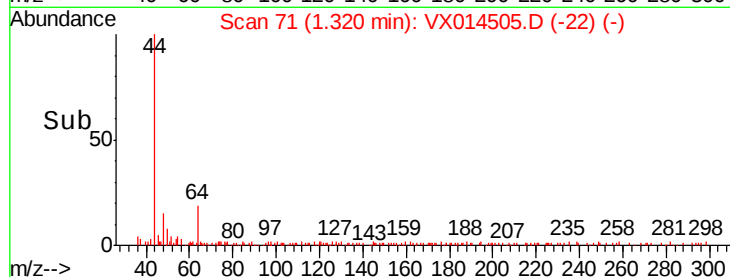
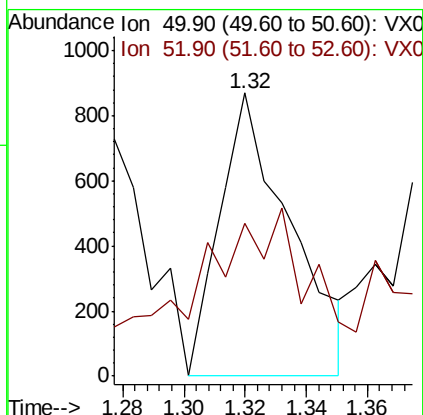
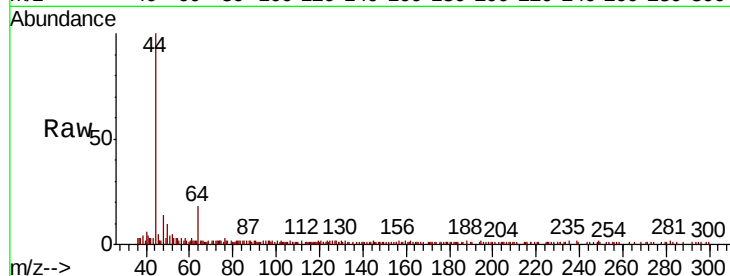




#3
Chloromethane
Concen: 0.209 ug/l
RT: 1.32 min Scan# 71
Delta R.T. -0.00 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

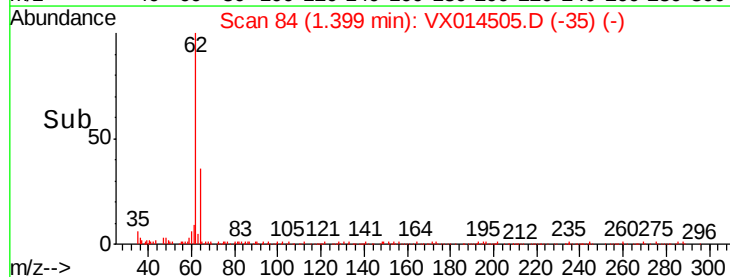
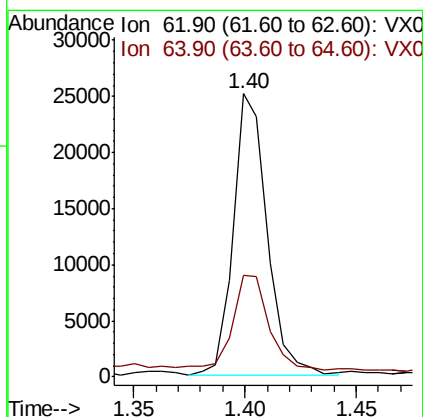
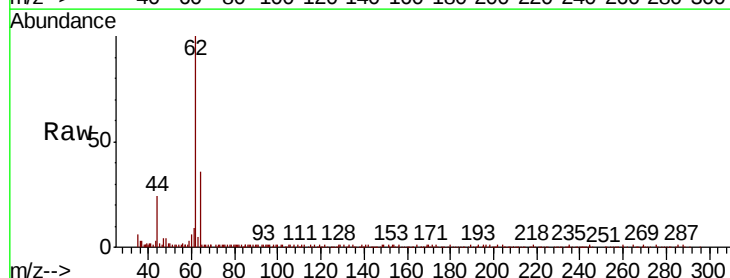
Instrument :
MSVOA_X
ClientSampleId :
MW-14DL

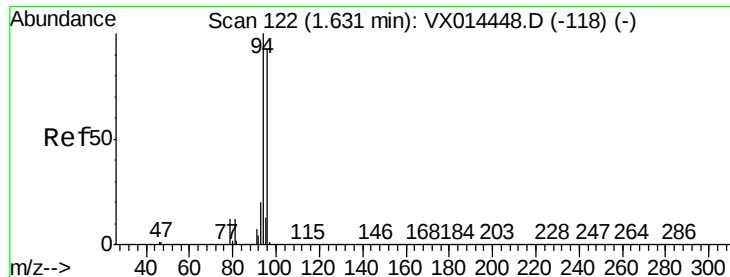
Tot Ion: 50 Resp: 1391
Ion Ratio Lower Upper
50 100
52 42.1 26.1 39.1#



#4
Vinyl Chloride
Concen: 3.570 ug/l
RT: 1.40 min Scan# 84
Delta R.T. -0.00 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

Tgt Ion: 62 Resp: 26453
Ion Ratio Lower Upper
62 100
64 33.4 24.6 37.0





#5

Bromomethane

Concen: 0.210 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampled :

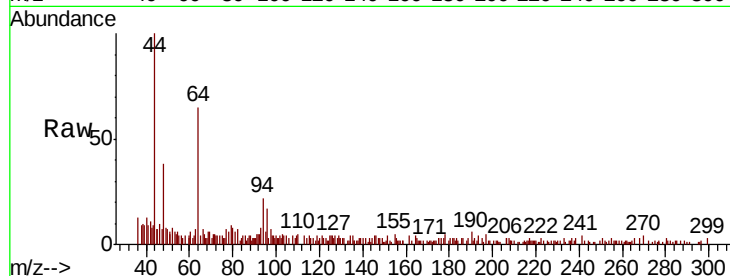
MW-14DL

Tot Ion: 94 Resp: 1029

Ion Ratio Lower Upper

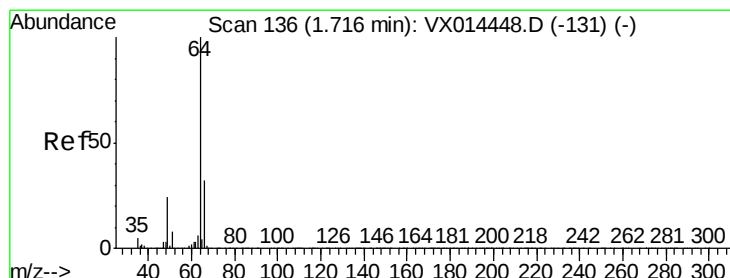
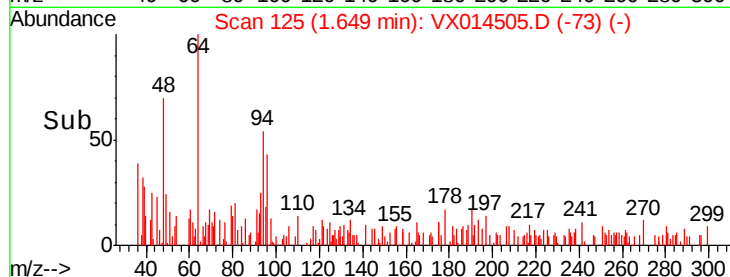
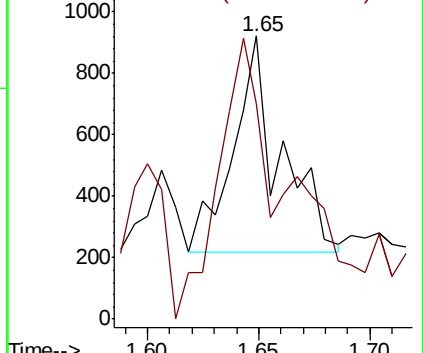
94 100

96 78.1 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014505.D

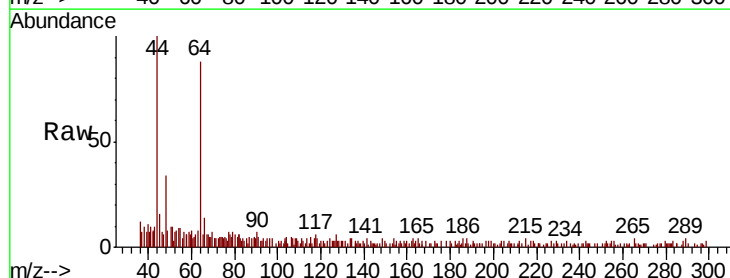
Acq: 09 Jan 2020 18:33

Tgt Ion: 64 Resp: 2228

Ion Ratio Lower Upper

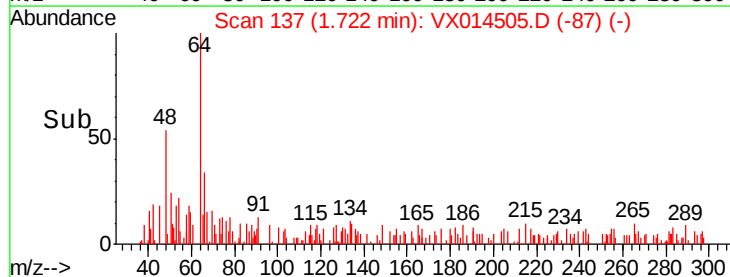
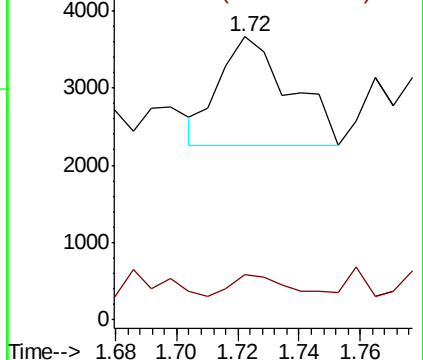
64 100

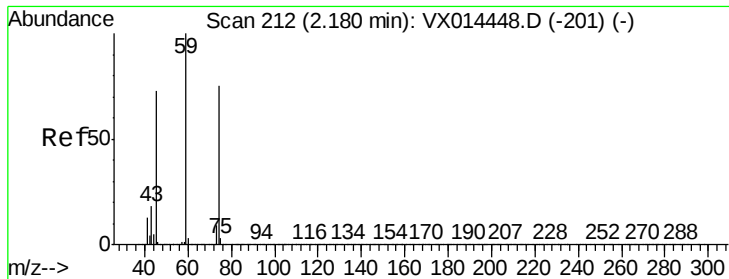
66 16.6 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.235 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

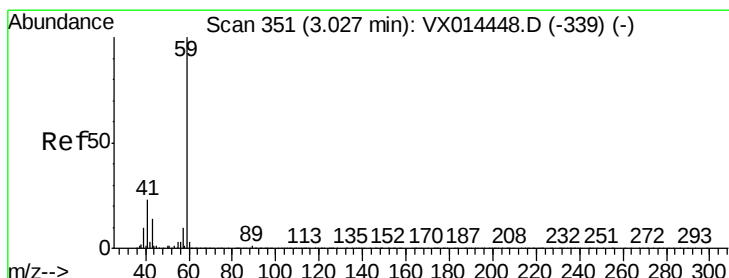
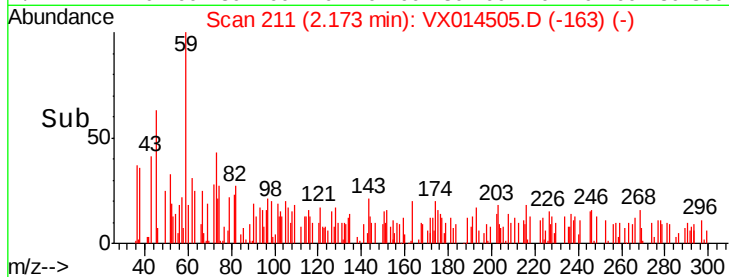
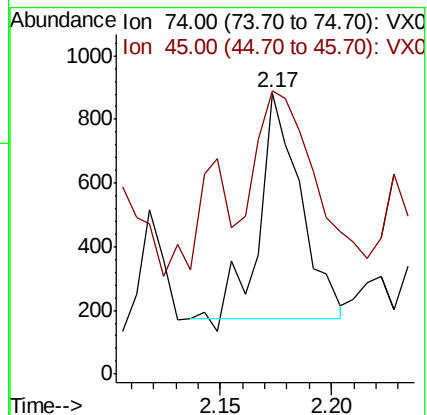
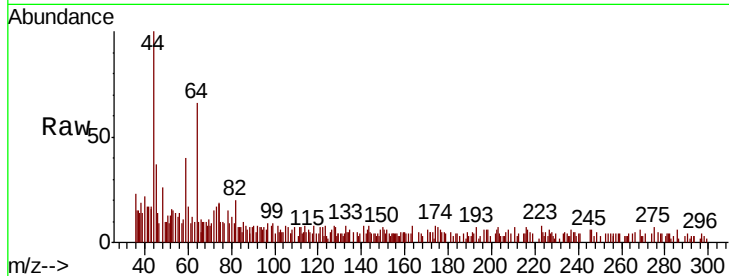
MW-14DL

Tot Ion: 74 Resp: 903

Ion Ratio Lower Upper

74 100

45 100.1 48.7 146.1



#11

Tert butyl alcohol

Concen: 1.288 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX014505.D

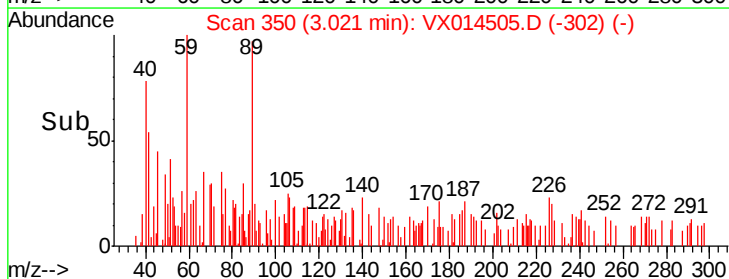
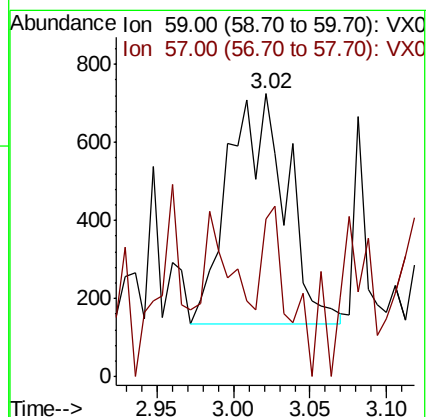
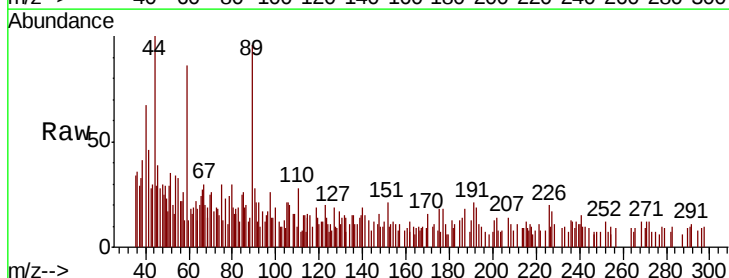
Acq: 09 Jan 2020 18:33

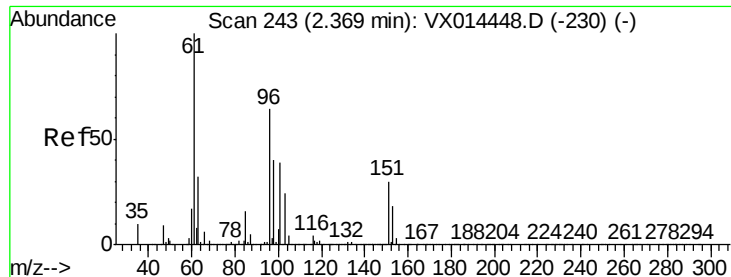
Tgt Ion: 59 Resp: 1566

Ion Ratio Lower Upper

59 100

57 31.7 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 0.277 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.01 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

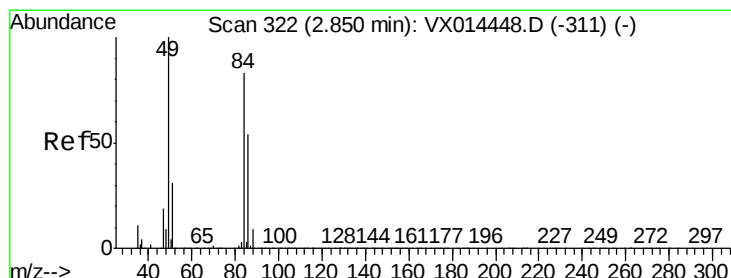
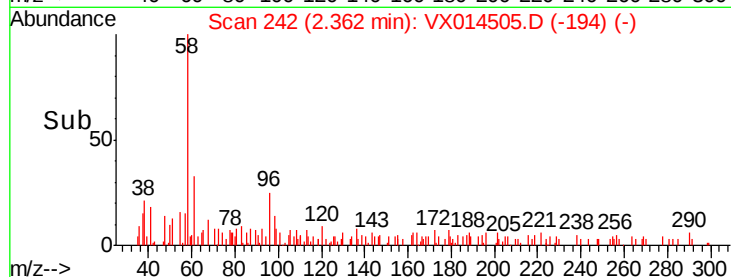
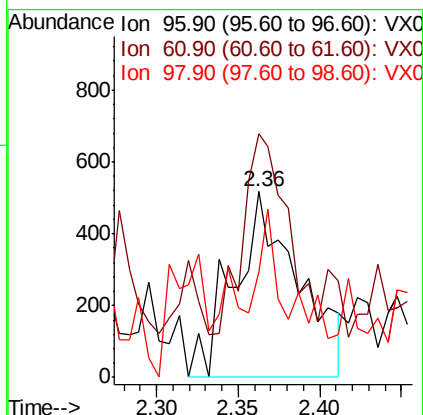
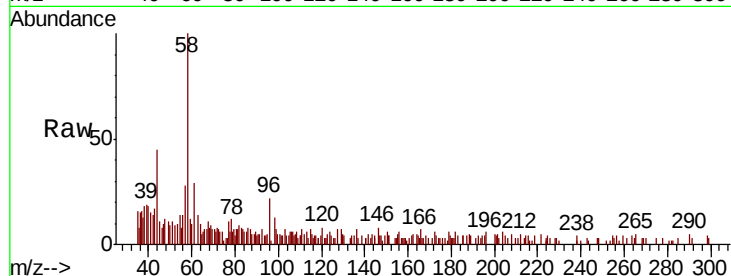
Tot Ion: 96 Resp: 1427

Ion Ratio Lower Upper

96 100

61 79.3 125.0 187.6#

98 34.2 50.2 75.2#



#20

Methylene Chloride

Concen: 0.349 ug/l

RT: 2.85 min Scan# 322

Delta R.T. -0.00 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Tgt Ion: 84 Resp: 2045

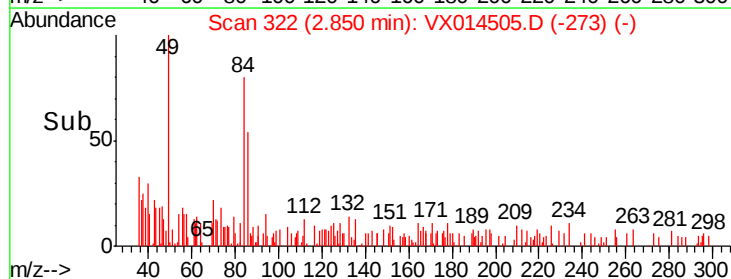
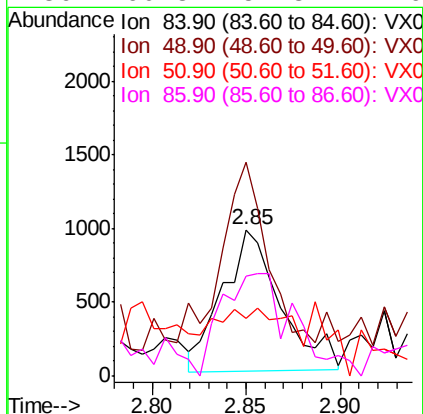
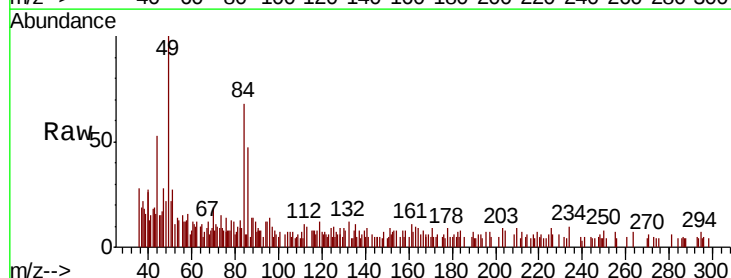
Ion Ratio Lower Upper

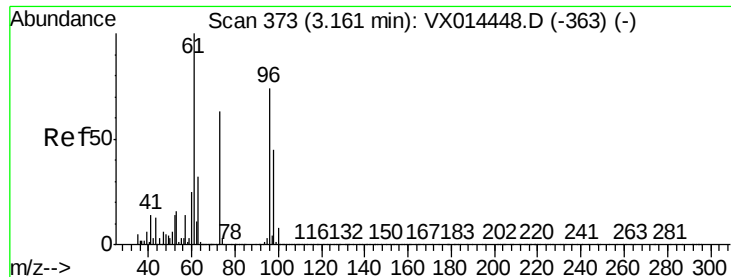
84 100

49 130.7 95.8 143.8

51 10.5 30.2 45.4#

86 60.8 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 0.470 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

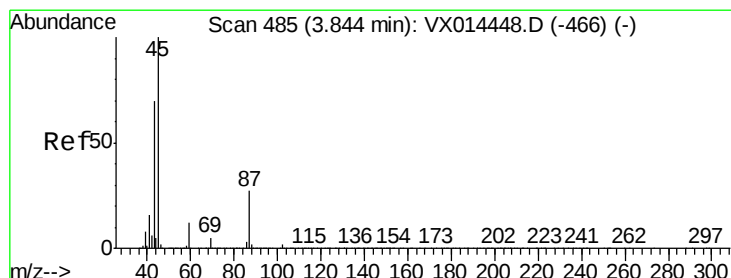
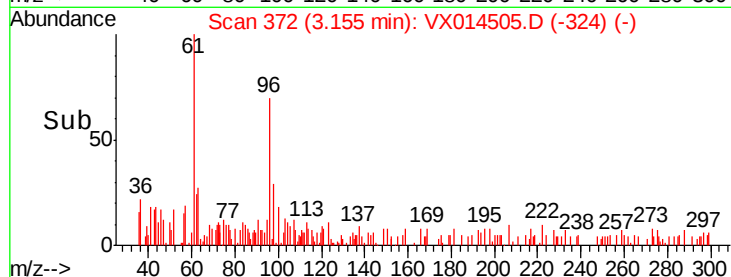
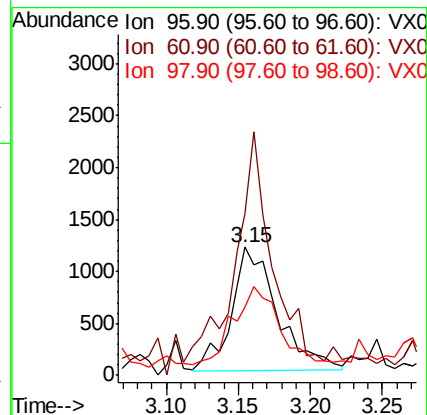
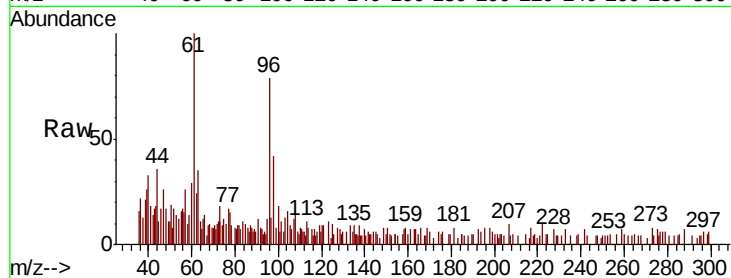
Tot Ion: 96 Resp: 2643

Ion Ratio Lower Upper

96 100

61 119.8 108.2 162.4

98 47.1 48.8 73.2#



#22

Diisopropyl ether

Concen: 0.785 ug/l

RT: 3.85 min Scan# 486

Delta R.T. 0.01 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Tgt Ion: 45 Resp: 13715

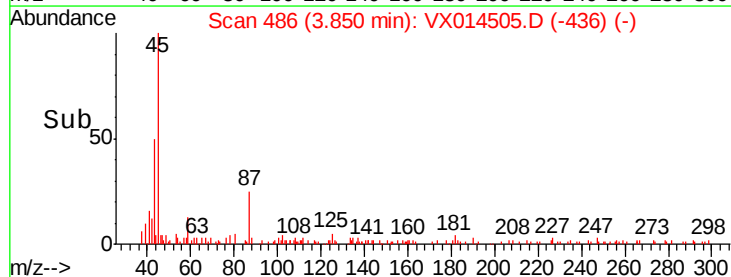
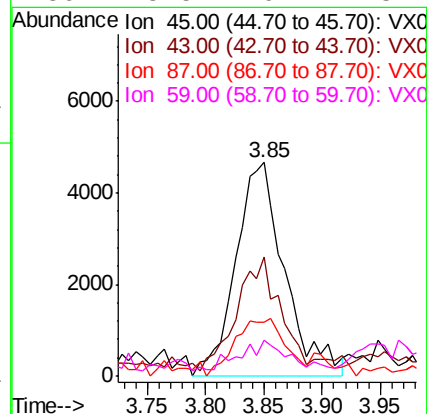
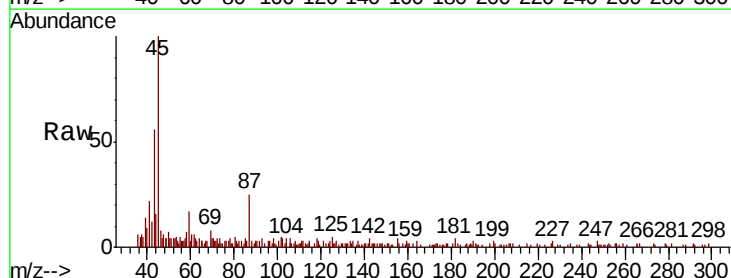
Ion Ratio Lower Upper

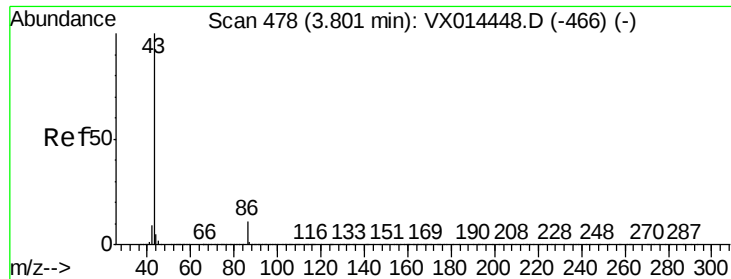
45 100

43 52.5 55.8 83.6#

87 23.6 21.8 32.8

59 15.5 9.1 13.7#





#23

Vinyl Acetate

Concen: 0.475 ug/l

RT: 3.85 min Scan# 486

Delta R.T. 0.05 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

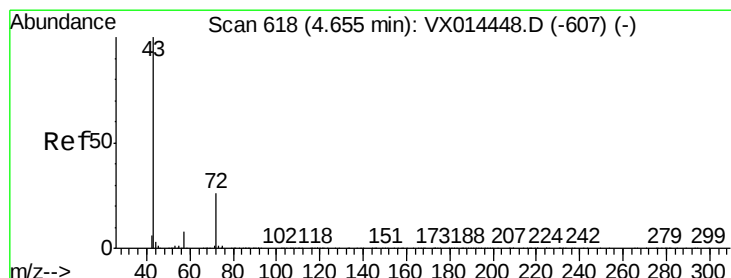
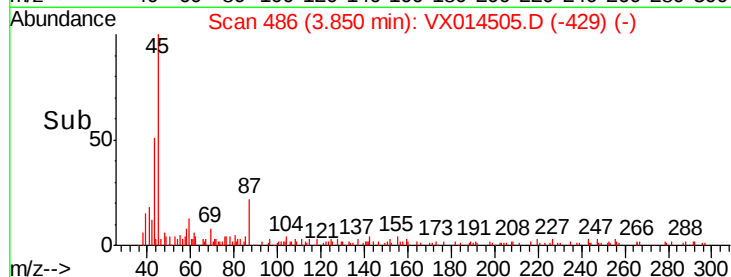
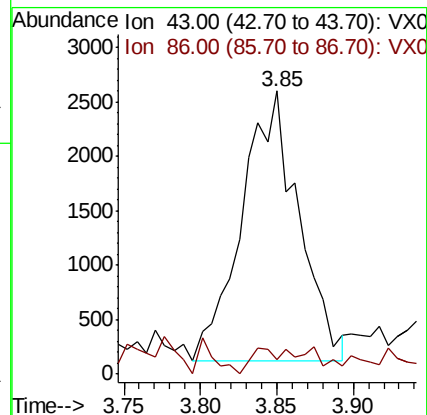
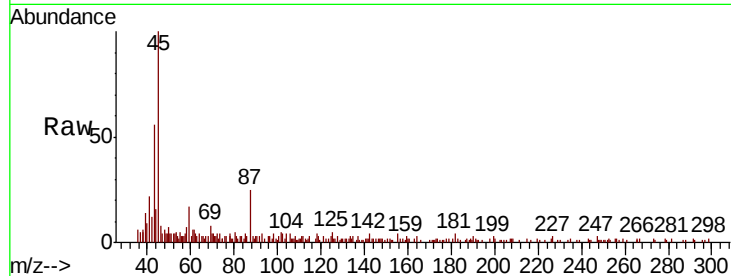
MW-14DL

Tot Ion: 43 Resp: 6431

Ion Ratio Lower Upper

43 100

86 5.4 8.4 12.6#



#25

2-Butanone

Concen: 0.867 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX014505.D

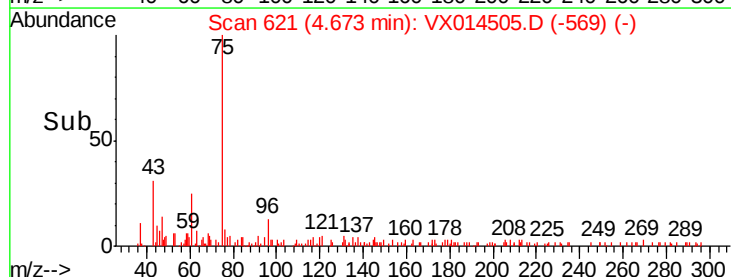
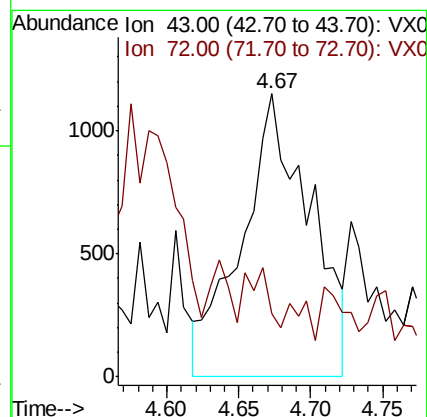
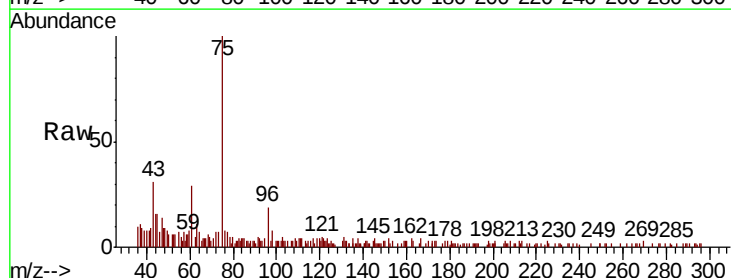
Acq: 09 Jan 2020 18:33

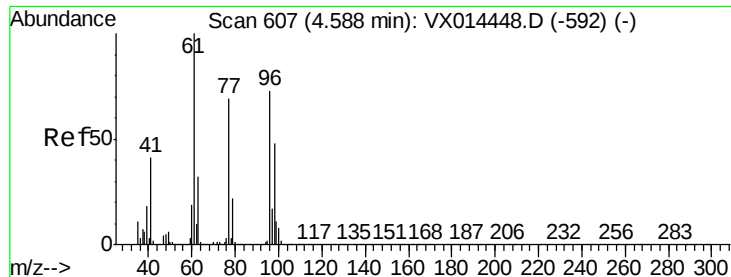
Tgt Ion: 43 Resp: 3771

Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#





#27

cis-1,2-Dichloroethene

Concen: 56.723 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

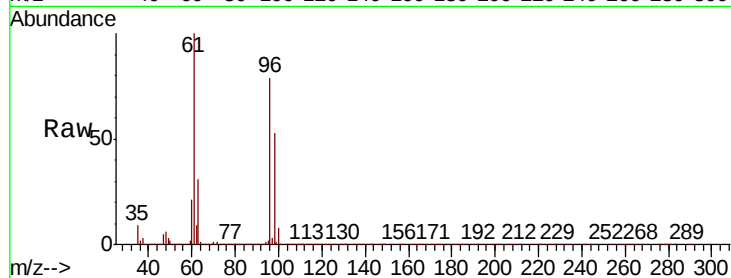
Tot Ion: 96 Resp: 356649

Ion Ratio Lower Upper

96 100

61 124.3 0.0 285.4

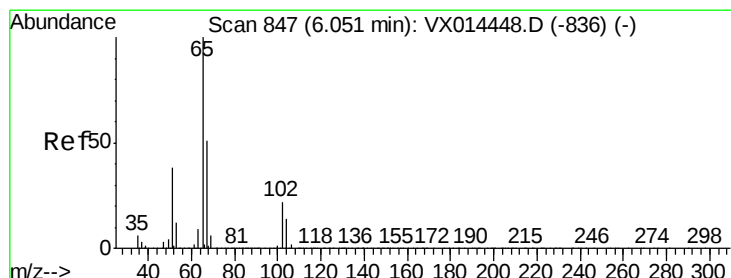
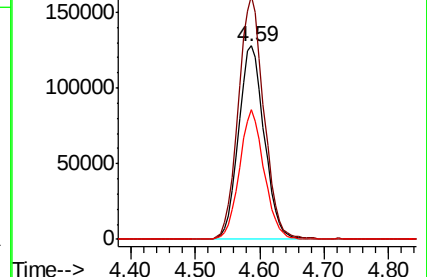
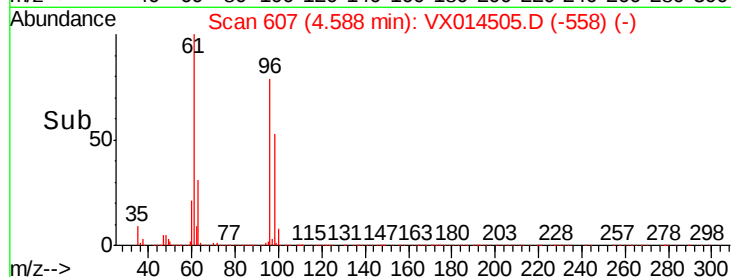
98 63.7 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.228 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014505.D

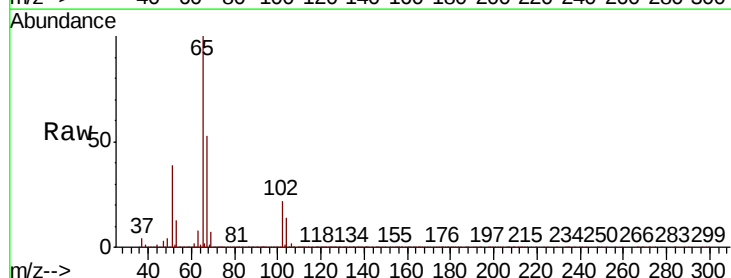
Acq: 09 Jan 2020 18:33

Tgt Ion: 65 Resp: 286664

Ion Ratio Lower Upper

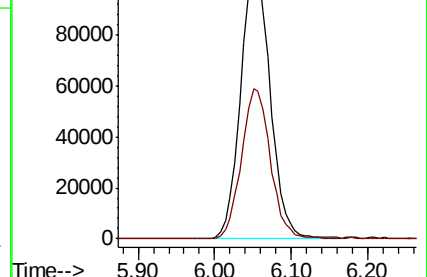
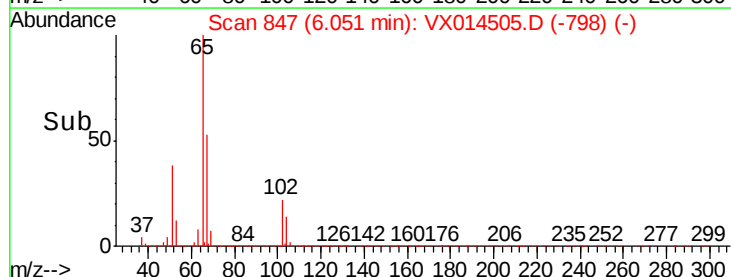
65 100

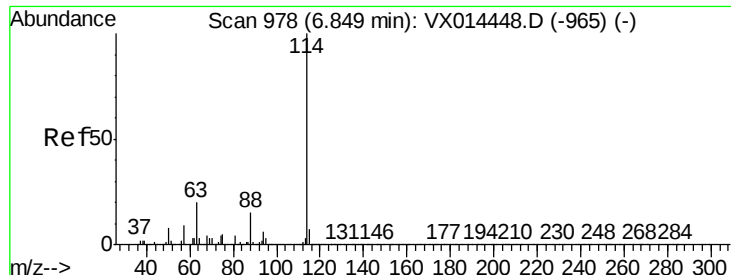
67 53.4 0.0 106.2



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: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

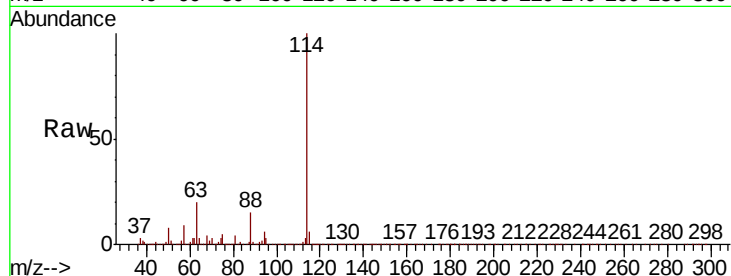
Tot Ion:114 Resp: 800570

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

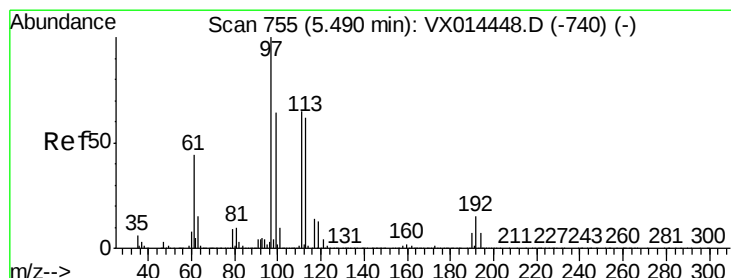
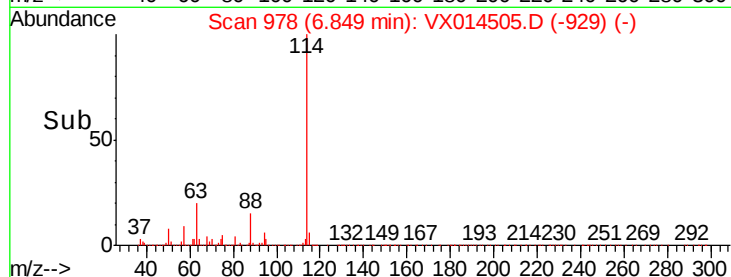
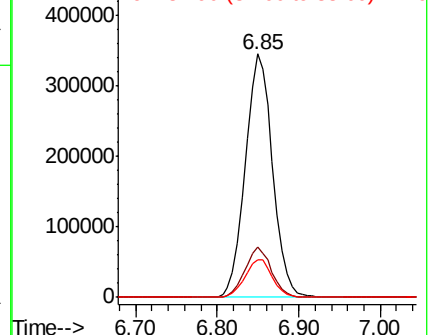
88 15.4 0.0 30.8



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: 49.246 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

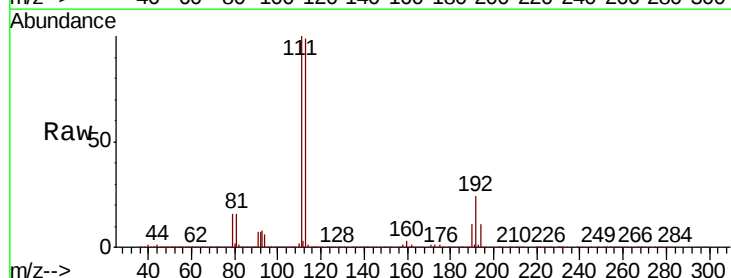
Tgt Ion:113 Resp: 238658

Ion Ratio Lower Upper

113 100

111 102.2 81.5 122.3

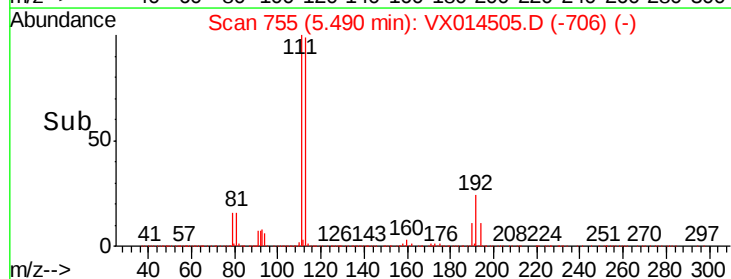
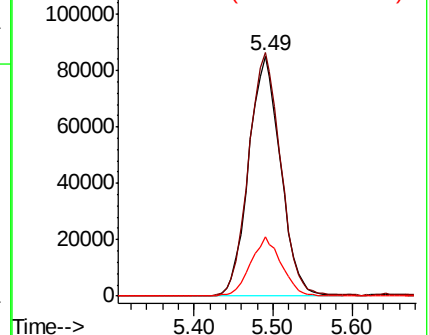
192 23.4 19.2 28.8

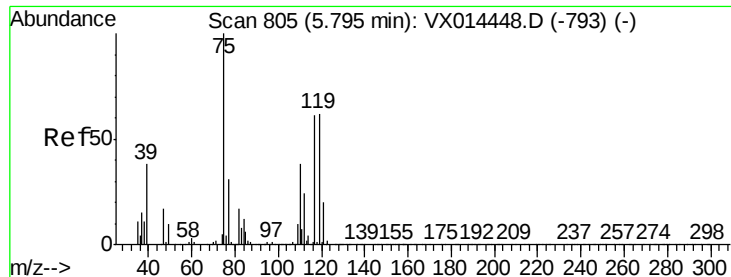


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

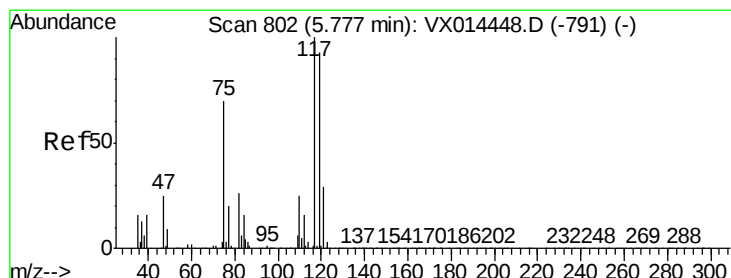
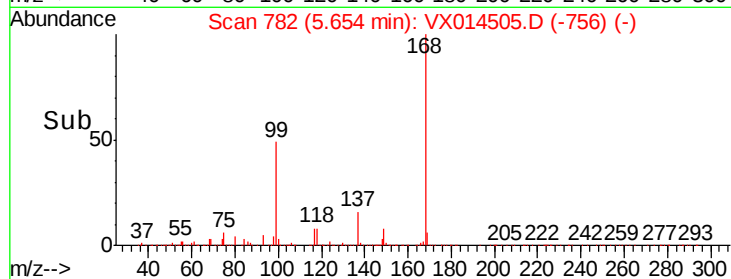
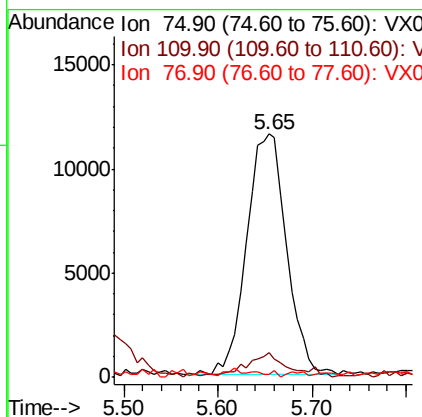
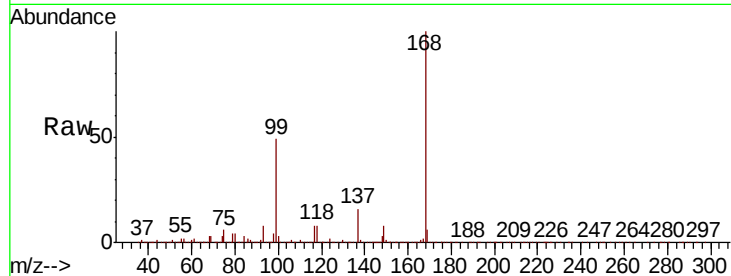




#36
 1,1-Dichloropropene
 Concen: 4.556 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014505.D
 Acq: 09 Jan 2020 18:33

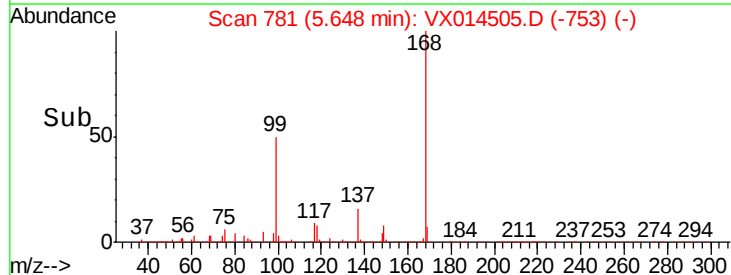
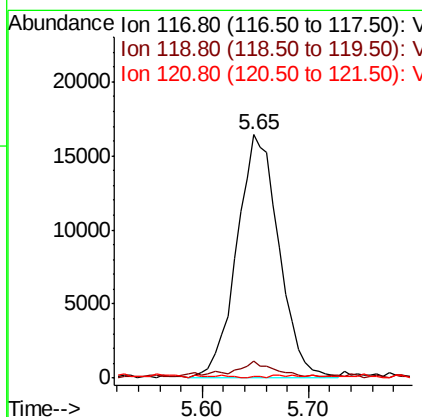
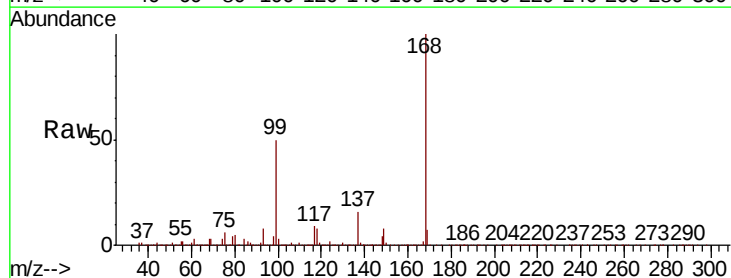
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14DL

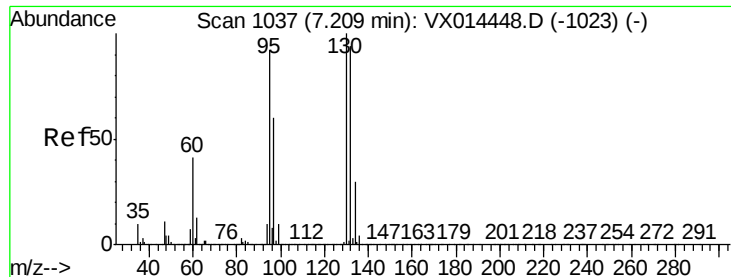
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.6	55.8#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.520 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014505.D
 Acq: 09 Jan 2020 18:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	73.8	110.8#
121	0.1	23.4	35.0#





#44

Trichloroethene

Concen: 4.039 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

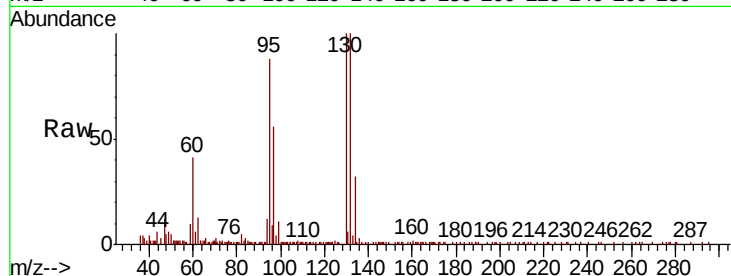
MW-14DL

Tot Ion:130 Resp: 25937

Ion Ratio Lower Upper

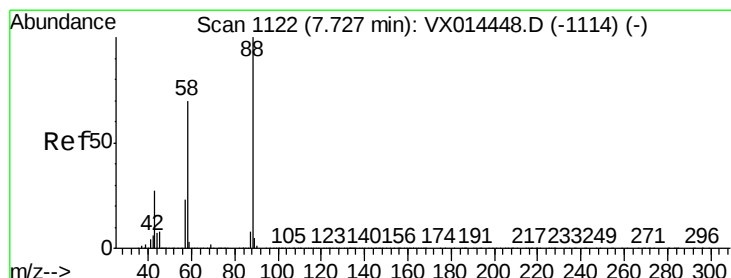
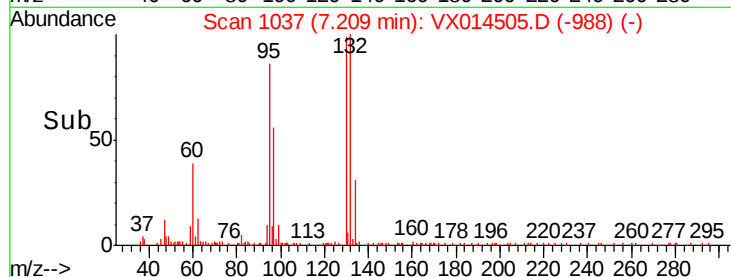
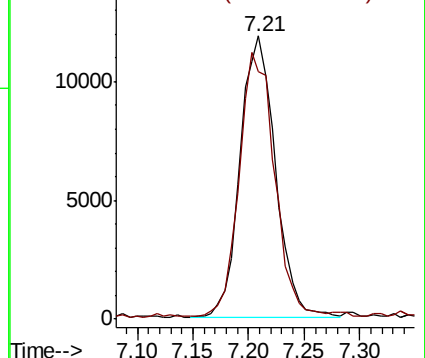
130 100

95 87.3 0.0 184.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 4.953 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

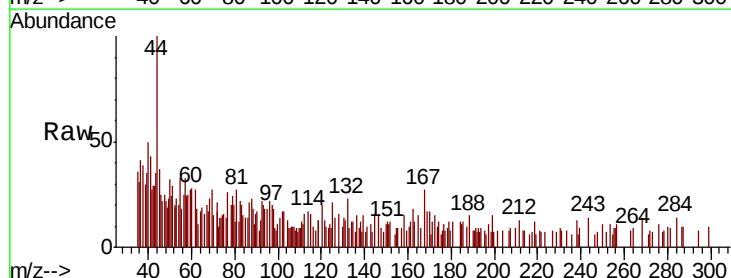
Tgt Ion: 88 Resp: 664

Ion Ratio Lower Upper

88 100

43 75.5 27.4 41.0#

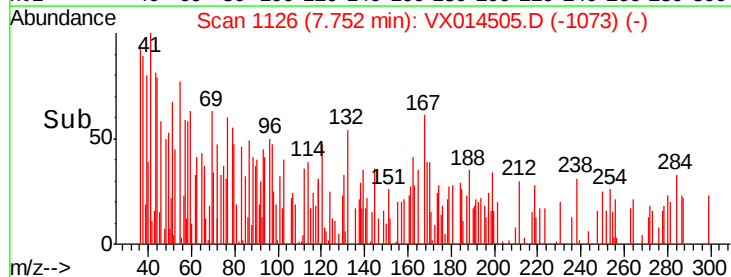
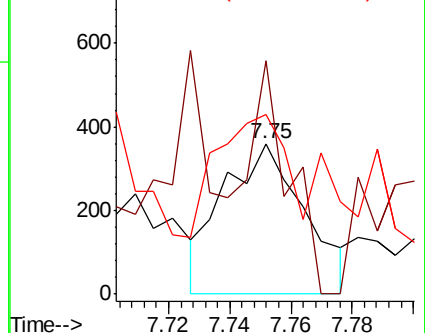
58 68.8 57.1 85.7

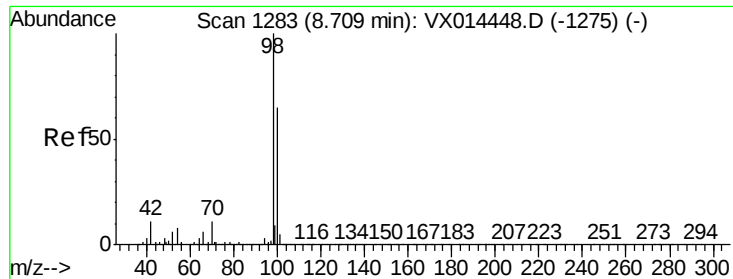


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.520 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

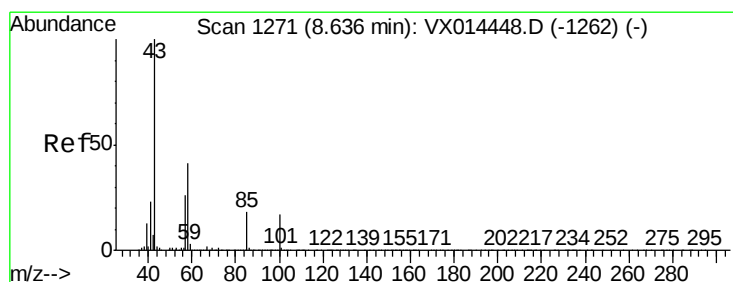
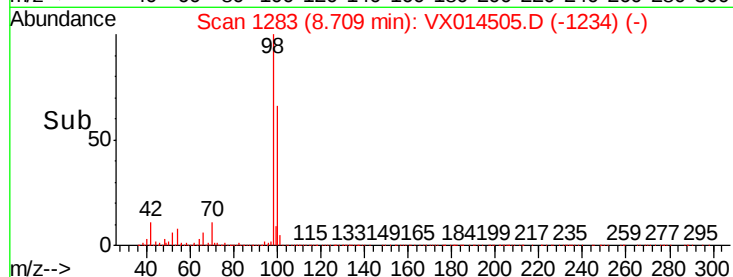
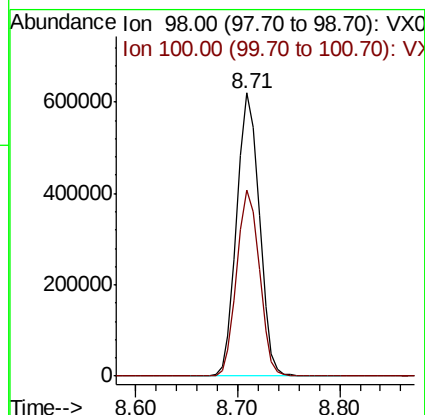
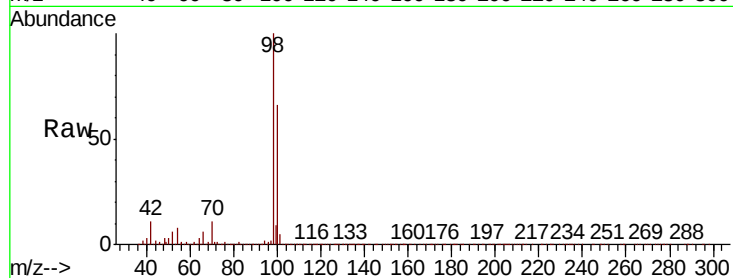
MW-14DL

Tot Ion: 98 Resp: 950105

Ion Ratio Lower Upper

98 100

100 66.1 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 0.208 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX014505.D

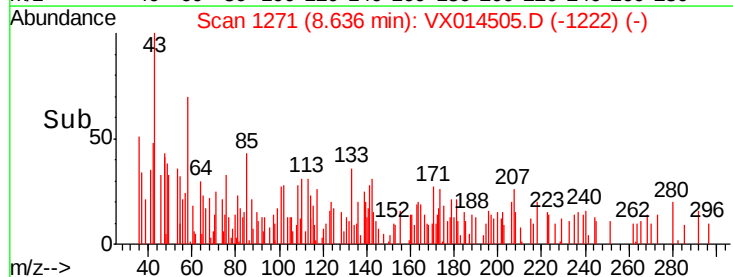
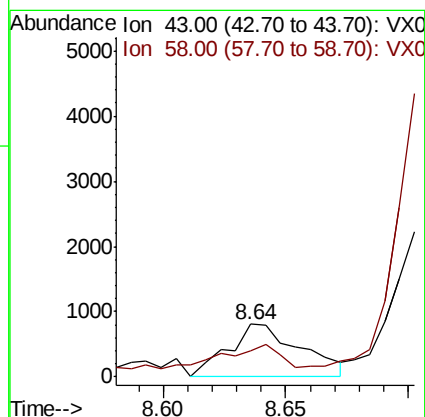
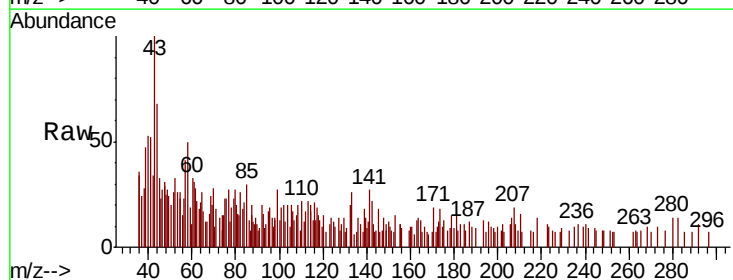
Acq: 09 Jan 2020 18:33

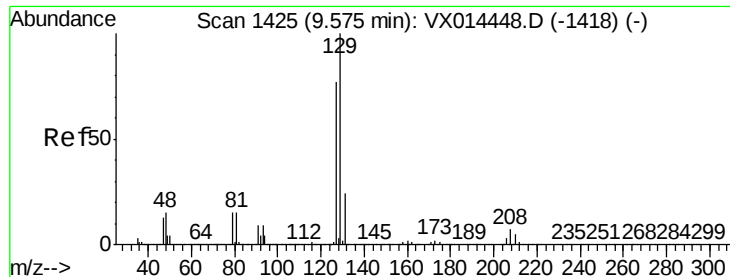
Tgt Ion: 43 Resp: 1676

Ion Ratio Lower Upper

43 100

58 34.0 32.4 48.6





#60

Dibromochloromethane

Concen: 4.280 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.24 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

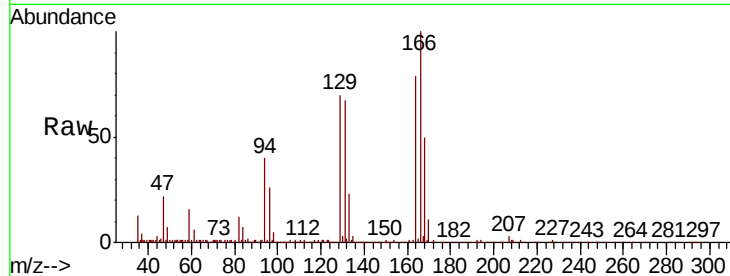
MW-14DL

Tot Ion:129 Resp: 24713

Ion Ratio Lower Upper

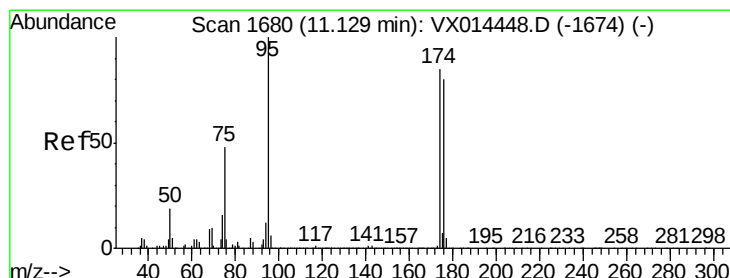
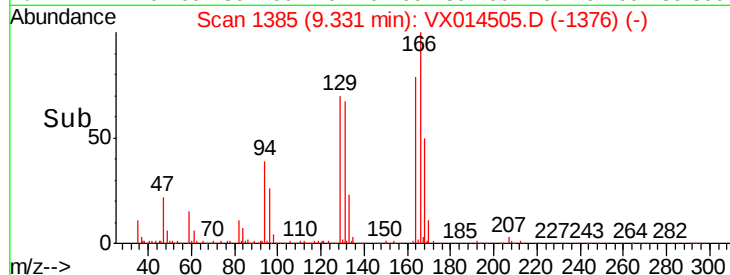
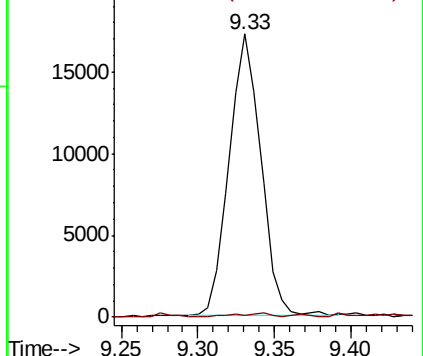
129 100

127 0.9 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.435 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014505.D

Acq: 09 Jan 2020 18:33

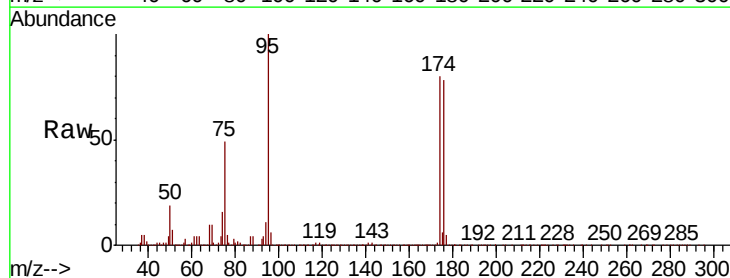
Tgt Ion: 95 Resp: 327497

Ion Ratio Lower Upper

95 100

174 90.0 0.0 180.8

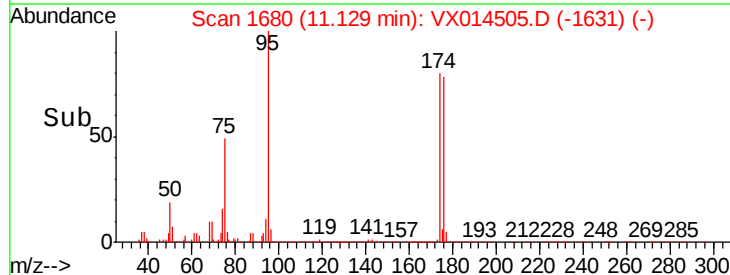
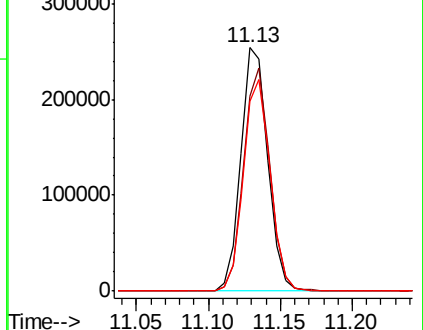
176 86.8 0.0 172.8

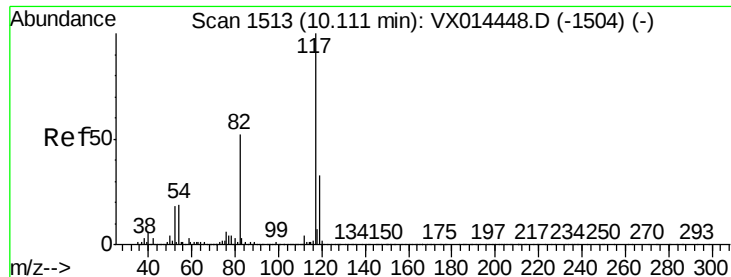


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

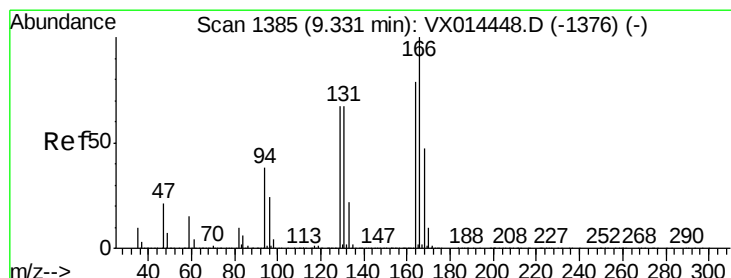
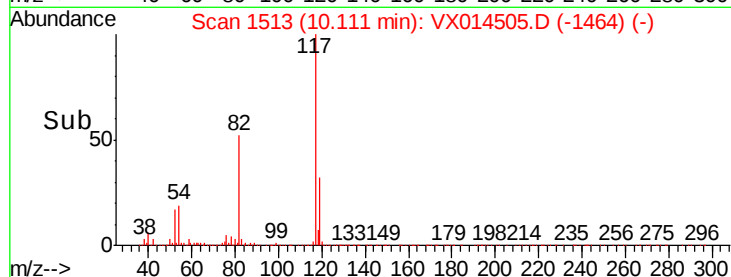
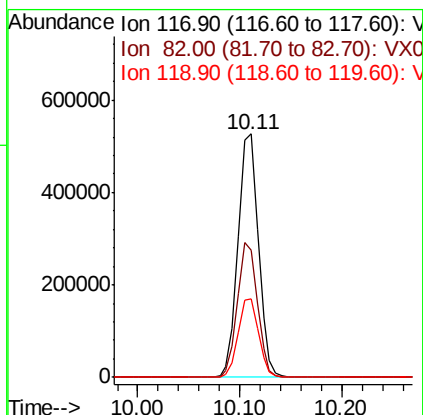
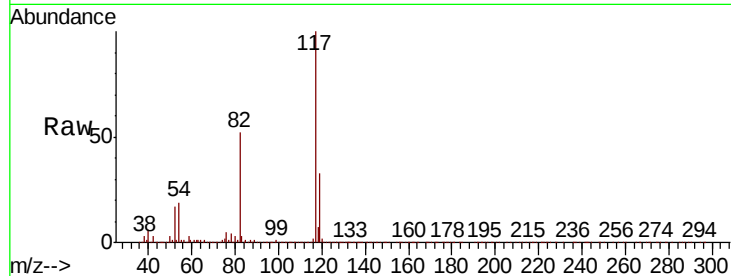




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

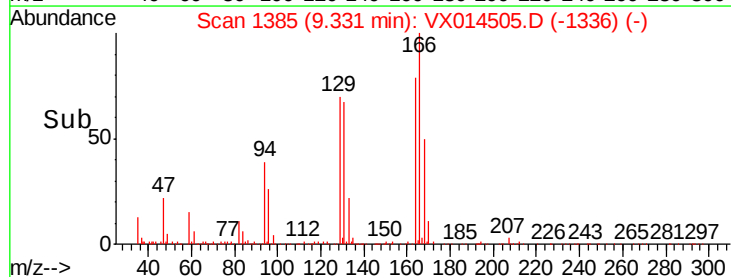
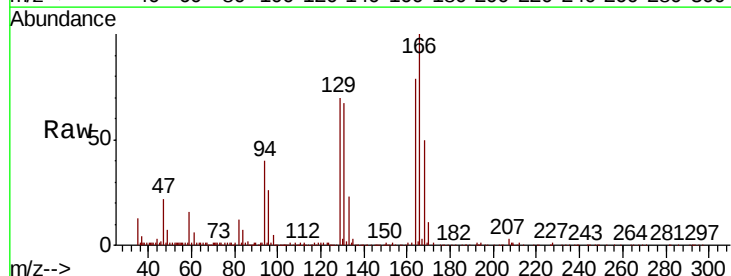
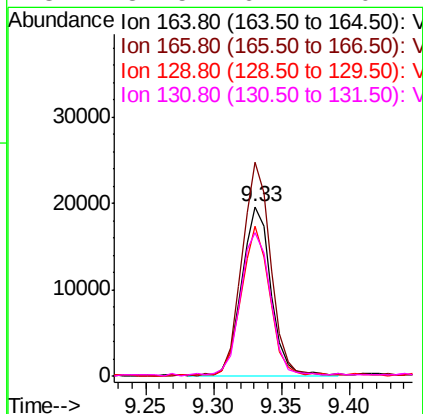
Instrument :
MSVOA_X
ClientSampleId :
MW-14DL

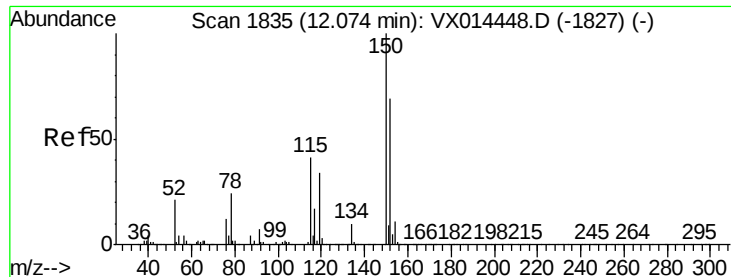
Tot Ion:117 Resp: 726289
Ion Ratio Lower Upper
117 100
82 52.3 41.8 62.6
119 32.5 26.2 39.4



#64
Tetrachloroethene
Concen: 4.011 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

Tgt Ion:164 Resp: 29198
Ion Ratio Lower Upper
164 100
166 126.0 101.2 151.8
129 88.1 68.3 102.5
131 84.5 67.4 101.2



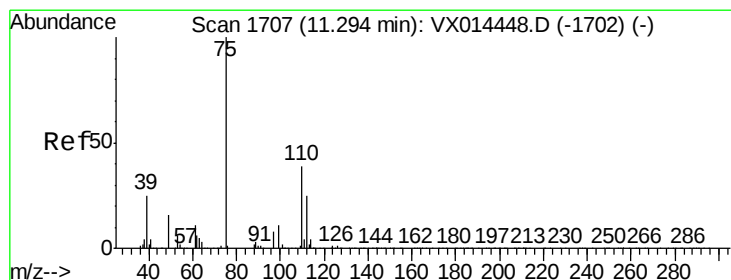
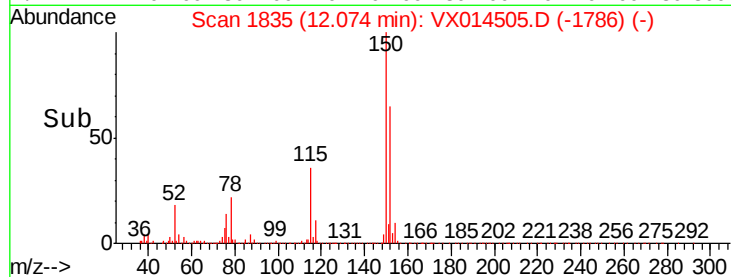
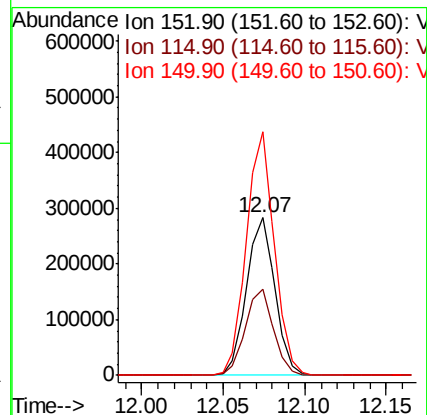
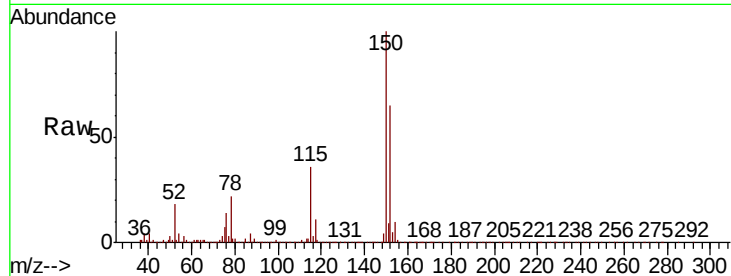


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

Instrument :
MSVOA_X
ClientSampleId :
MW-14DL

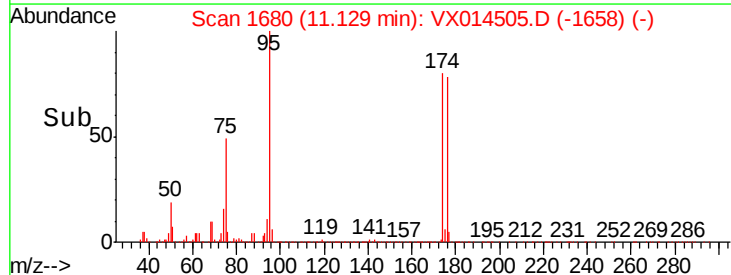
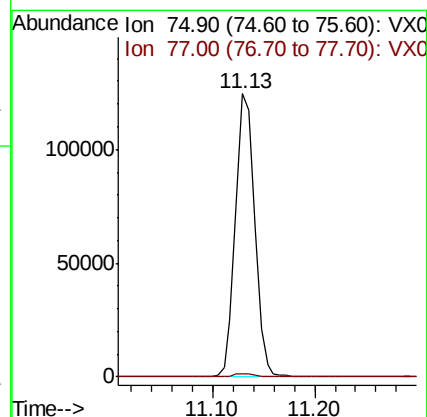
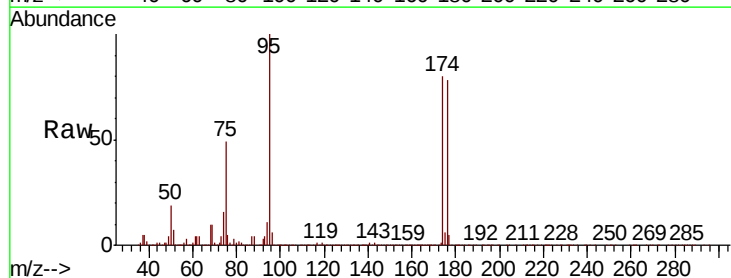
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.3	39.5	118.3
150	152.2	0.0	350.2

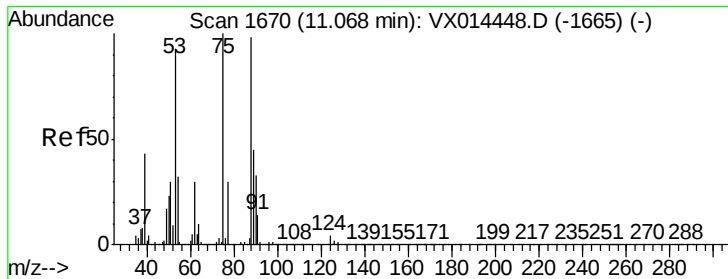


#76

1,2,3-Trichloropropane
Concen: 22.619 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	21.9	65.7#

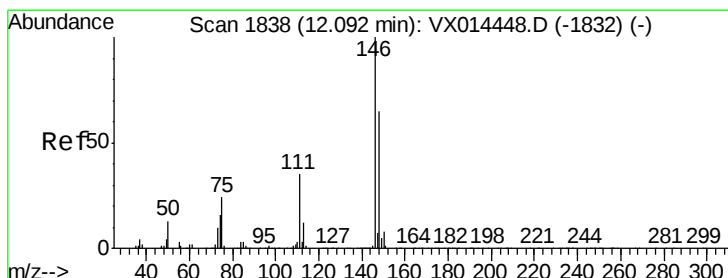
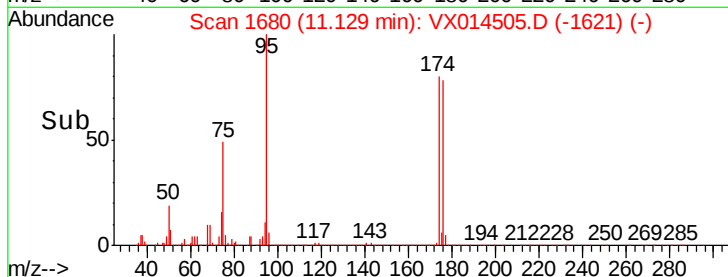
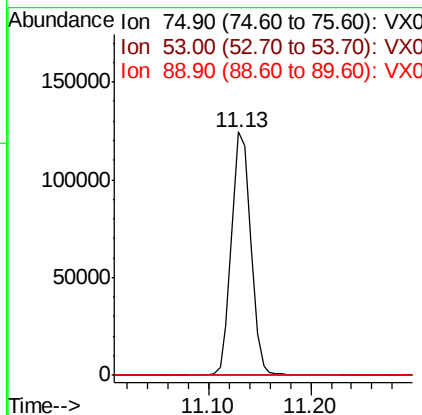
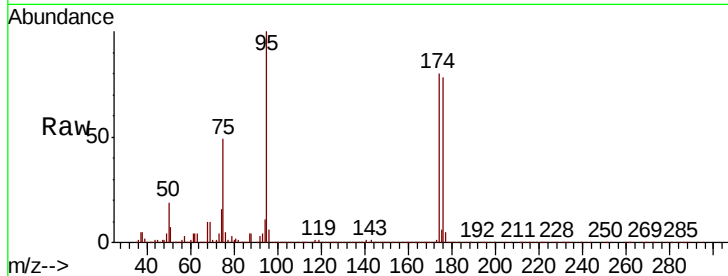




#81
trans-1,4-Dichloro-2-butene
Concen: 59.799 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

Instrument :
MSVOA_X
ClientSampleId :
MW-14DL

Tot Ion: 75 Resp: 161030
Ion Ratio Lower Upper
75 100
53 0.2 74.8 112.2#
89 0.0 36.3 54.5#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.02 min Scan# 1826
Delta R.T. -0.07 min
Lab File: VX014505.D
Acq: 09 Jan 2020 18:33

Tgt Ion: 146 Resp: 611
Ion Ratio Lower Upper
146 100
111 46.2 18.1 54.1
148 78.9 32.1 96.3

