

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\
 Data File : VX014151.D
 Acq On : 20 Dec 2019 04:29
 Operator : JC/SP
 Sample : K6372-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 05:02:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	556626	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	852163	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	764188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	337719	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	308002	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
35) Dibromofluoromethane	5.49	113	253562	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
50) Toluene-d8	8.71	98	1011487	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.13	95	340122	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	

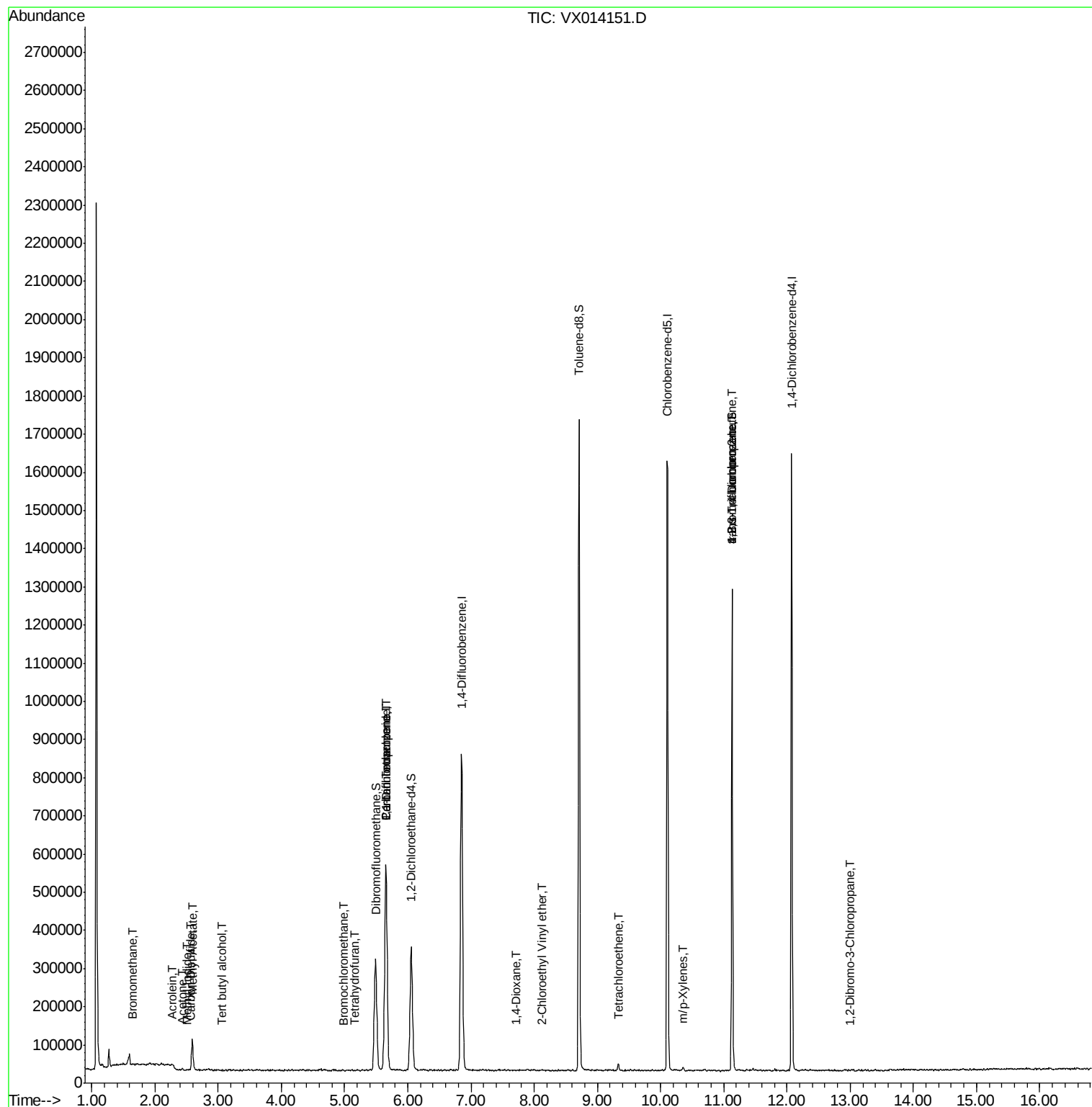
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1179	0.236	ug/l #	49
10) Methyl Iodide	2.50	142	360	2.670	ug/l #	5
11) Tert butyl alcohol	3.06	59	347	0.255	ug/l #	72
13) Acrolein	2.28	56	534	0.684	ug/l	100
16) Acetone	2.43	43	4260	1.040	ug/l #	78
17) Carbon Disulfide	2.56	76	1025	0.818	ug/l #	75
18) Methyl Acetate	2.59	43	24462	3.014	ug/l #	52
28) Bromochloromethane	5.00	49	270	0.519	ug/l #	1
29) Tetrahydrofuran	5.16	42	721	0.255	ug/l	95
36) 1,1-Dichloropropene	5.65	75	37648	4.815	ug/l #	41
38) Carbon Tetrachloride	5.65	117	48685	6.835	ug/l #	16
49) 1,4-Dioxane	7.72	88	205	1.440	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.12	63	863	0.238	ug/l	95
64) Tetrachloroethene	9.34	164	4010	0.593	ug/l #	79
68) m/p-Xylenes	10.36	106	2269	0.211	ug/l	77
76) 1,2,3-Trichloropropane	11.13	75	165447	22.566	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	165447	63.692	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	438	0.240	ug/l #	1

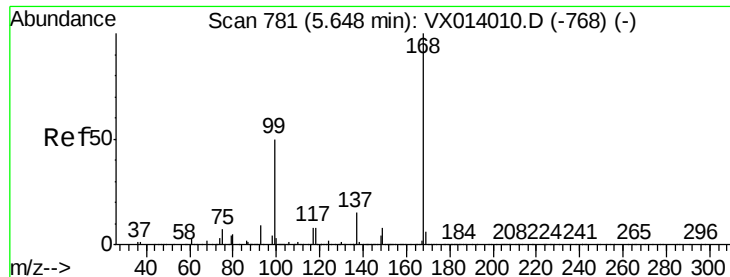
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :

MSVOA_X

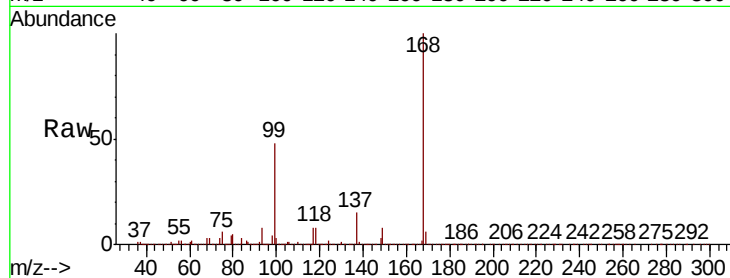
ClientSampled :

Tot Ion:168 Resp: 556626

Ion Ratio Lower Upper

168 100

99 48.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

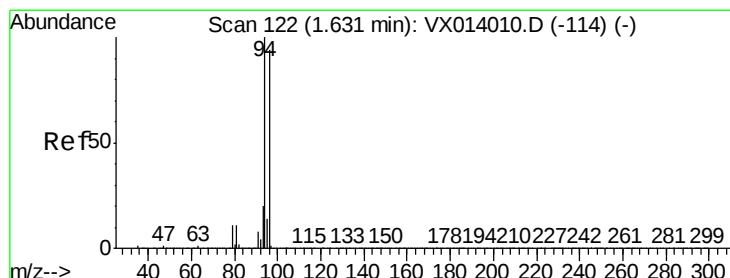
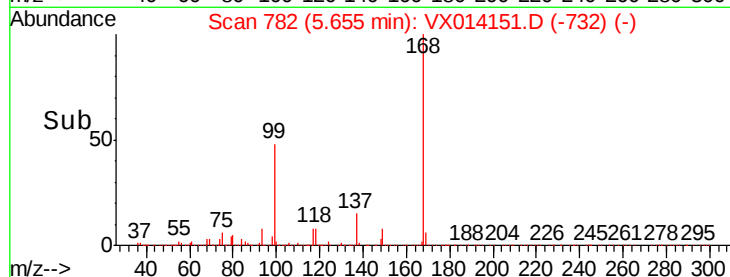
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.236 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014151.D

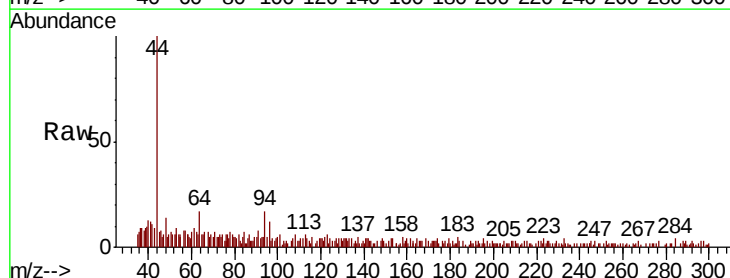
Acq: 20 Dec 2019 04:29

Tgt Ion: 94 Resp: 1179

Ion Ratio Lower Upper

94 100

96 45.1 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

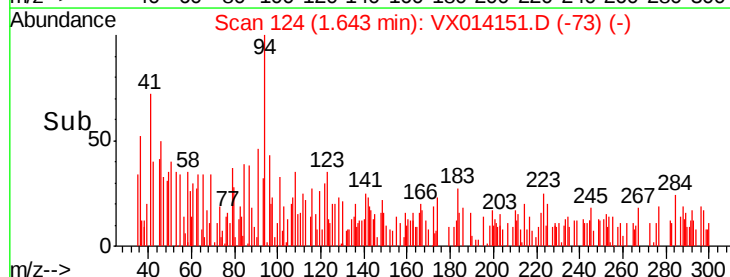
400

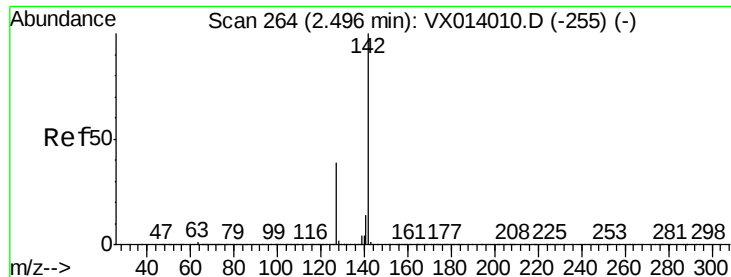
200

0

Time-->

1.60 1.65 1.70

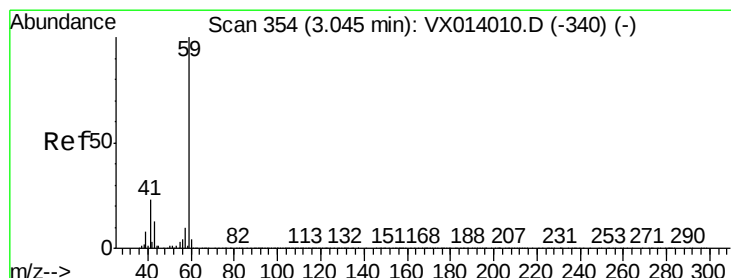
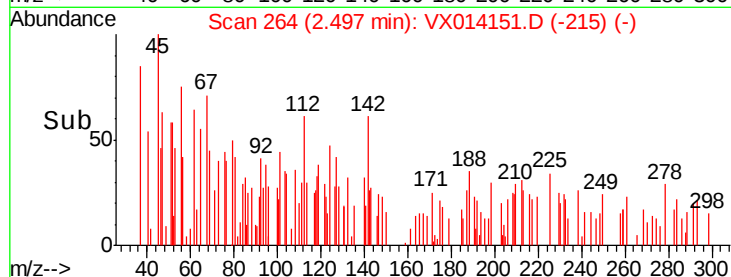
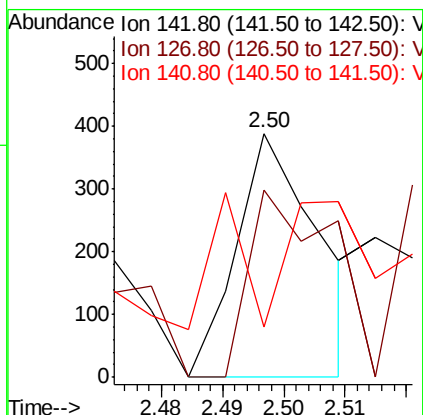
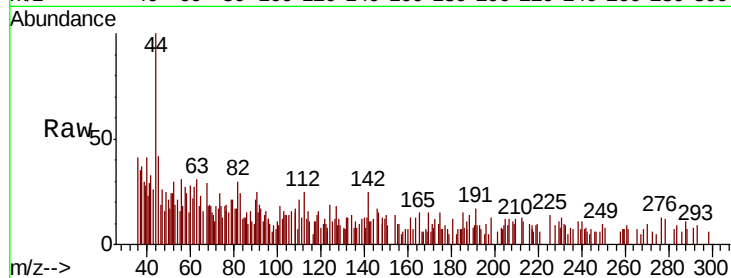




#10
Methyl Iodide
Concen: 2.670 ug/l
RT: 2.50 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

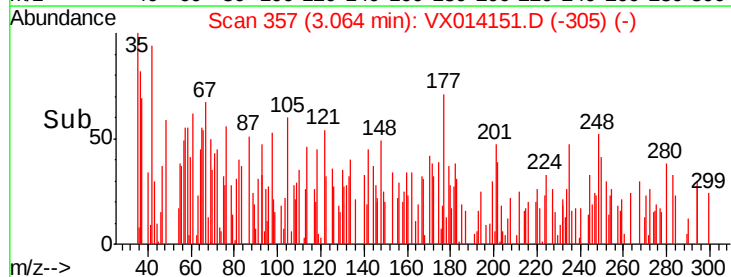
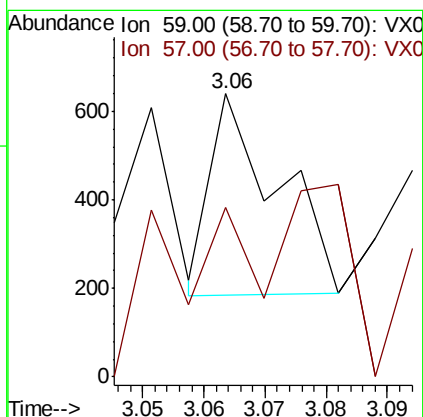
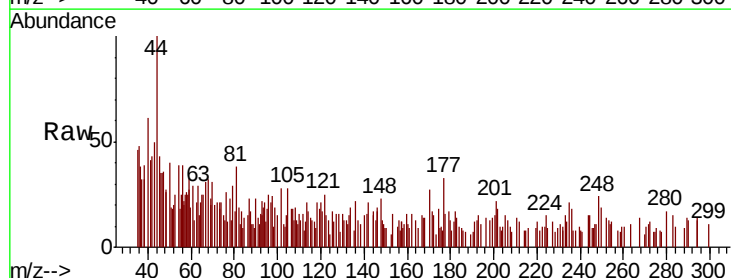
Instrument :
MSVOA_X
ClientSampled :

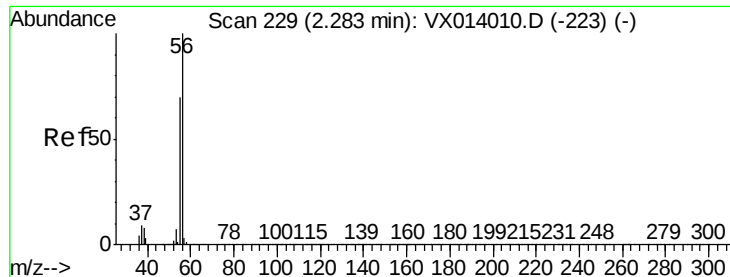
Tot Ion: 142 Resp: 360
Ion Ratio Lower Upper
142 100
127 77.8 31.6 47.4#
141 90.8 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.255 ug/l
RT: 3.06 min Scan# 357
Delta R.T. 0.02 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

Tgt Ion: 59 Resp: 347
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 0.684 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

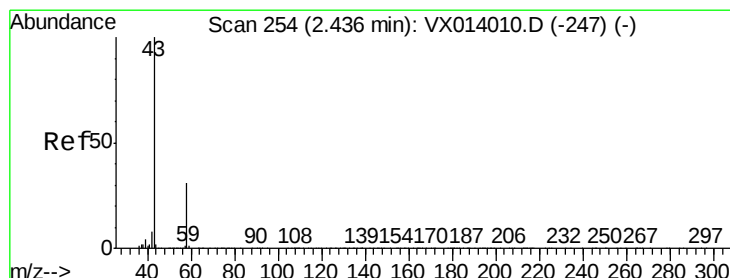
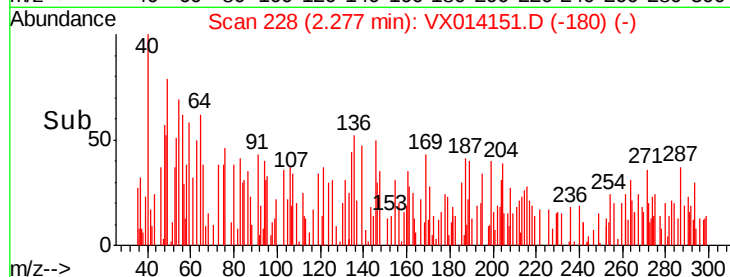
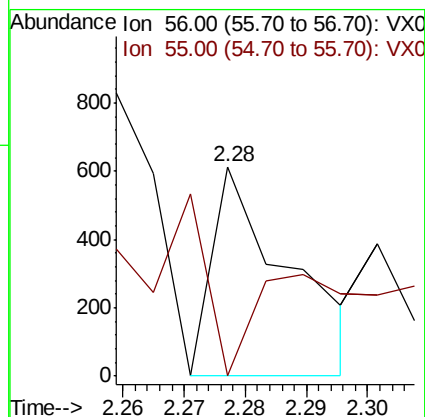
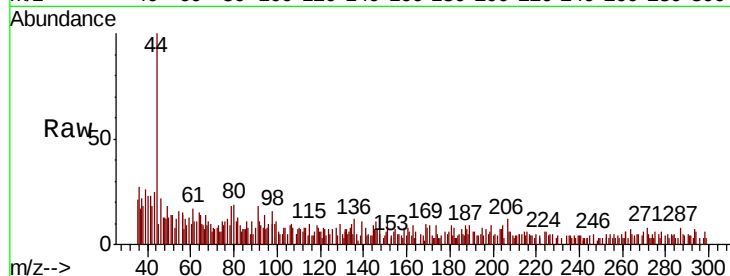
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 534

Ion Ratio Lower Upper

56 100

55 71.0 56.9 85.3



#16

Acetone

Concen: 1.040 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014151.D

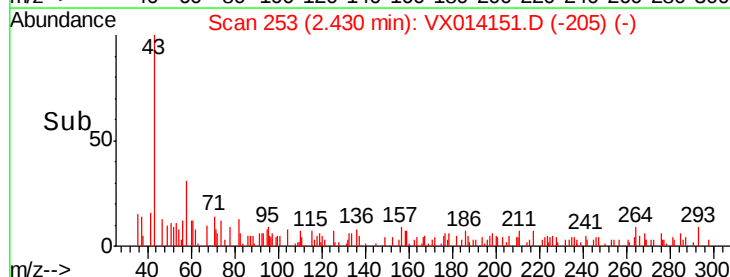
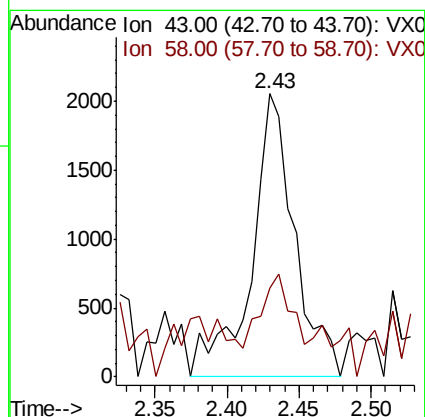
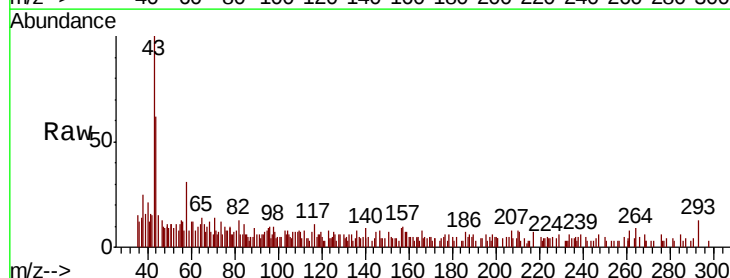
Acq: 20 Dec 2019 04:29

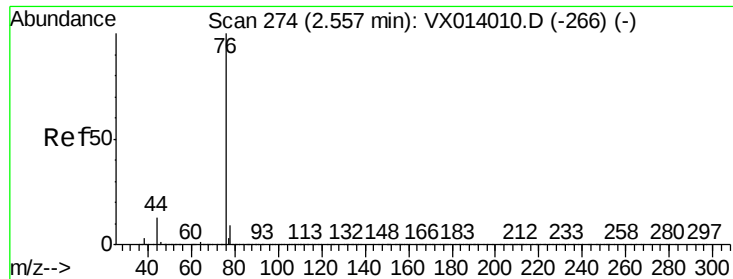
Tgt Ion: 43 Resp: 4260

Ion Ratio Lower Upper

43 100

58 18.8 24.9 37.3#

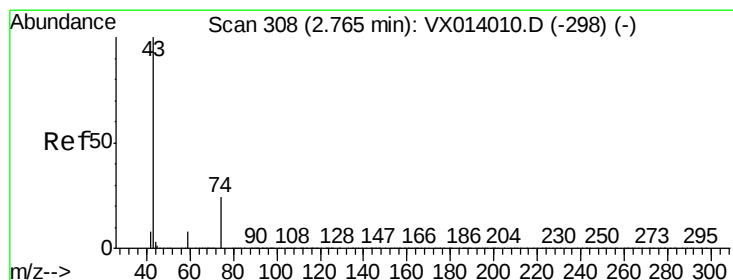
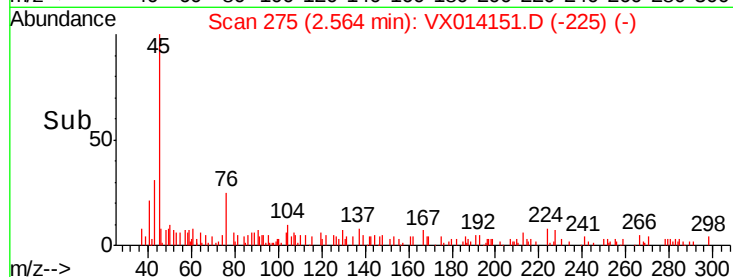
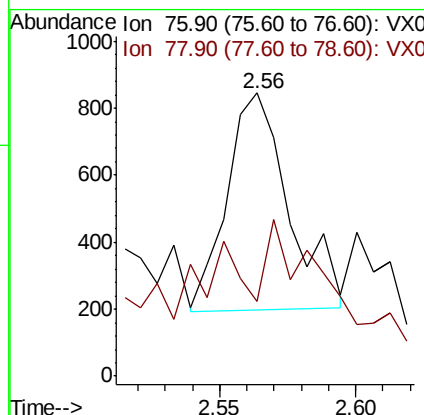
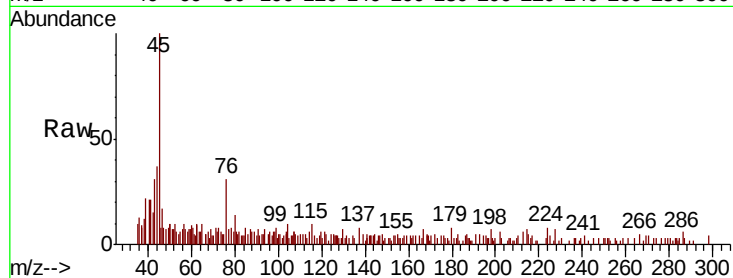




#17
Carbon Disulfide
Concen: 0.818 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

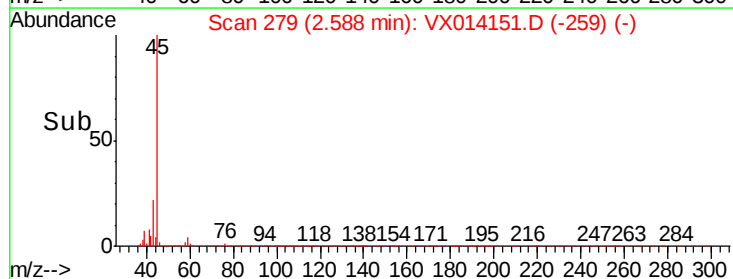
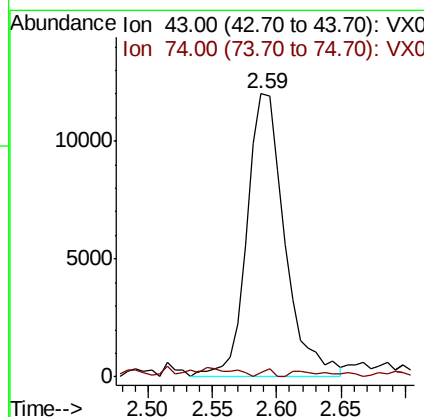
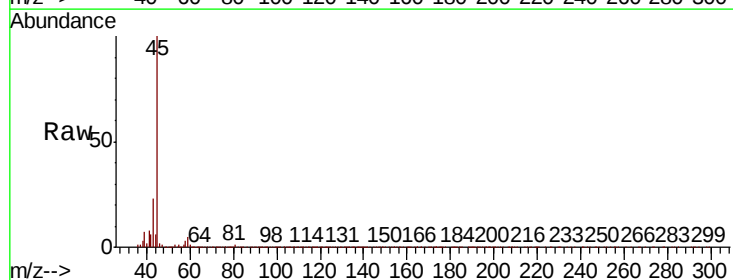
Instrument :
MSVOA_X
ClientSampled :

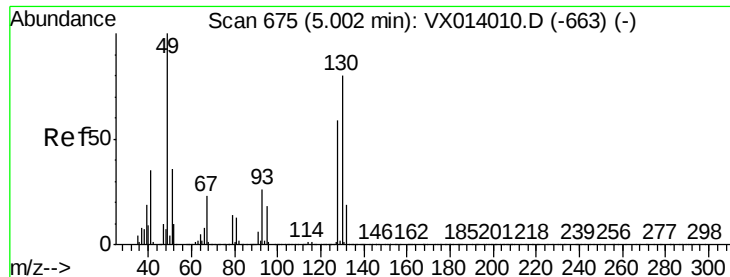
Tot Ion: 76 Resp: 1025
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 3.014 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.18 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

Tgt Ion: 43 Resp: 24462
Ion Ratio Lower Upper
43 100
74 0.7 19.5 29.3#





#28

Bromochloromethane

Concen: 0.519 ug/l

RT: 5.00 min Scan# 674

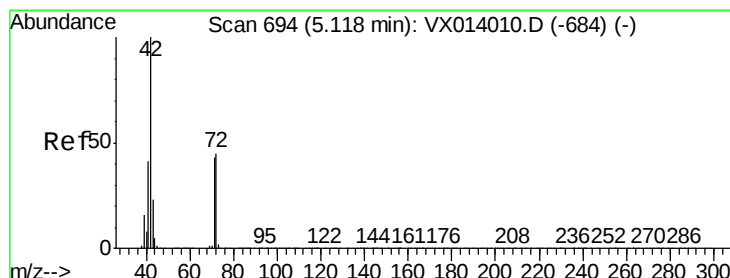
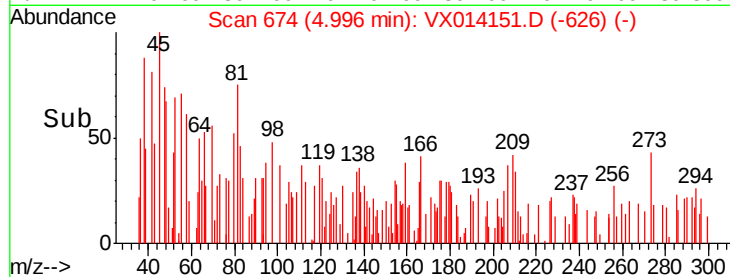
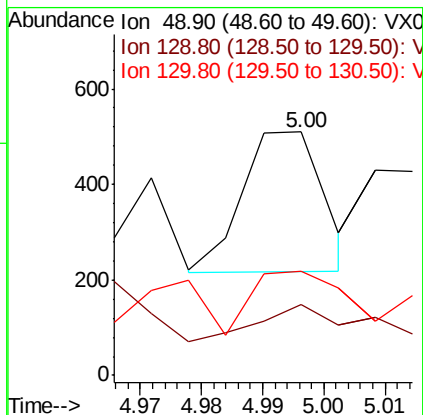
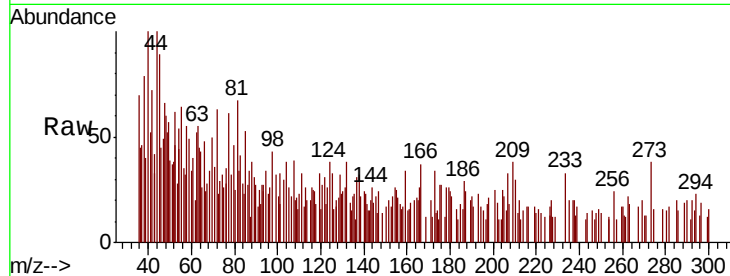
Delta R.T. -0.01 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	49	Resp:	270
Ion	Ratio	Lower	Upper
49	100		
129	98.1	0.0	5.0#
130	204.4	64.6	97.0#



#29

Tetrahydrofuran

Concen: 0.255 ug/l

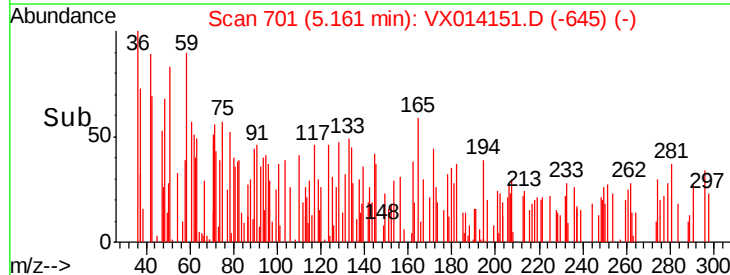
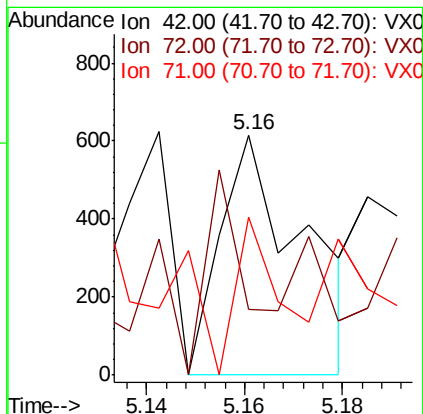
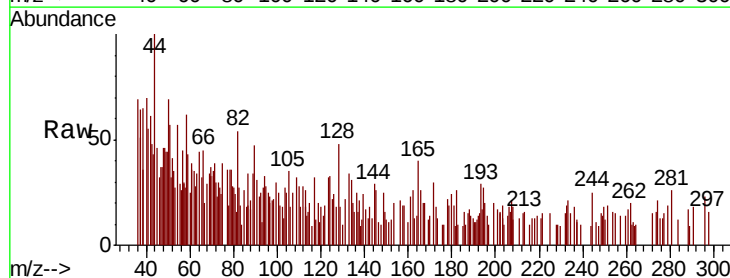
RT: 5.16 min Scan# 701

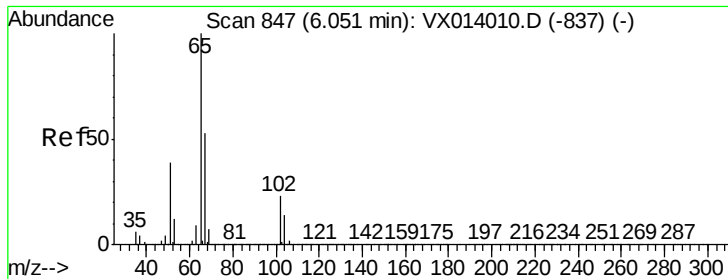
Delta R.T. 0.04 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Tgt Ion:	42	Resp:	721
Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.8	53.8
71	37.0	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 48.823 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :

MSVOA_X

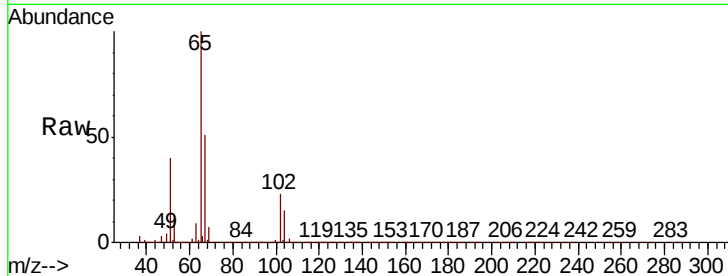
ClientSampleId :

Tot Ion: 65 Resp: 308002

Ion Ratio Lower Upper

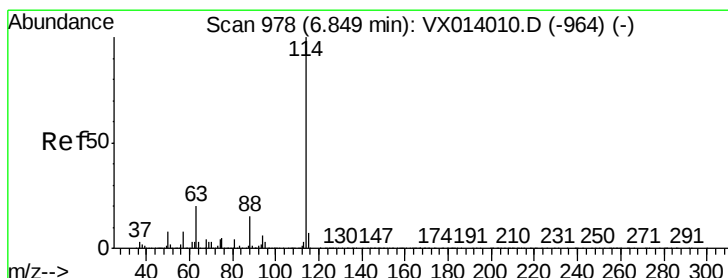
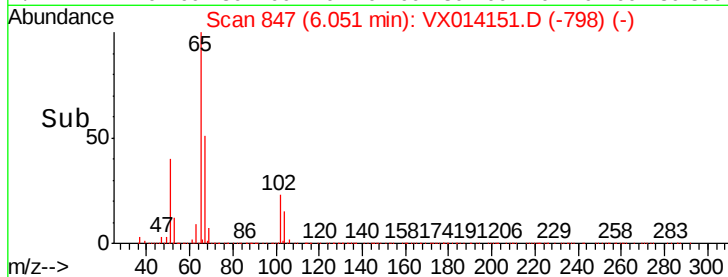
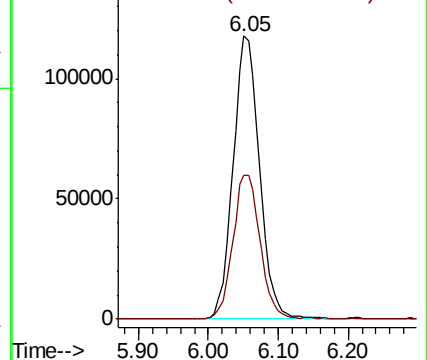
65 100

67 52.0 0.0 106.4



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: VX014151.D

Acq: 20 Dec 2019 04:29

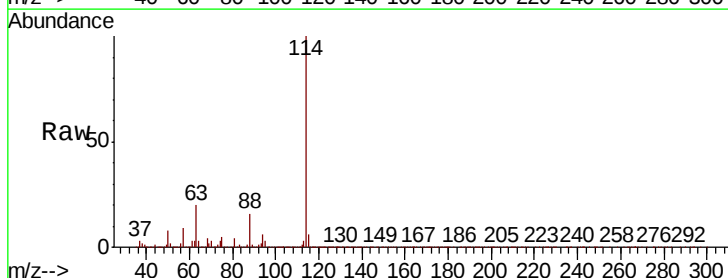
Tgt Ion: 114 Resp: 852163

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

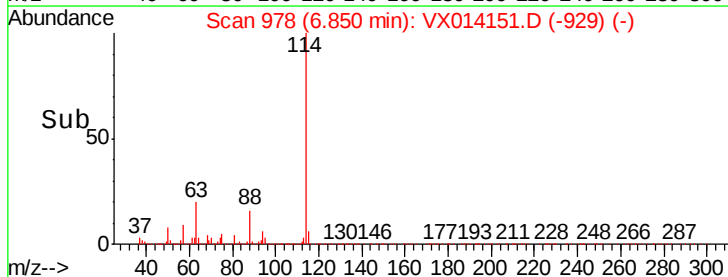
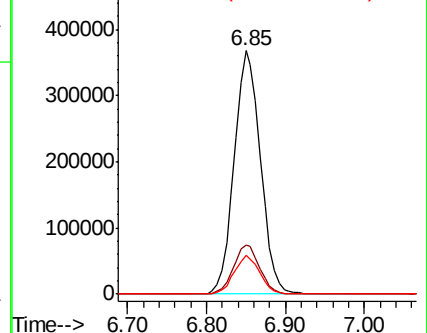
88 15.8 0.0 30.4

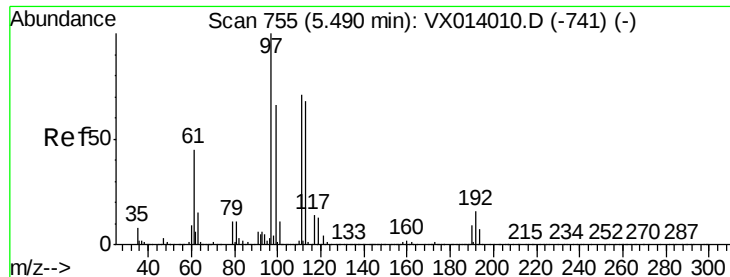


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.948 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :

MSVOA_X

ClientSampleId :

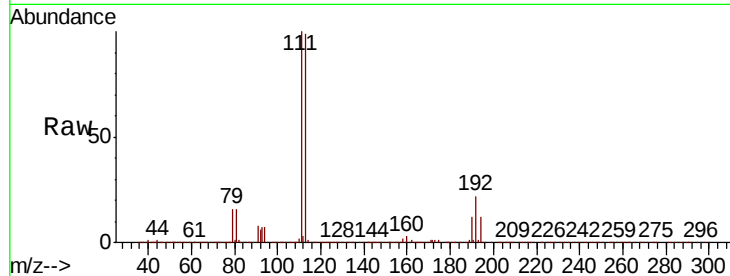
Tot Ion:113 Resp: 253562

Ion Ratio Lower Upper

113 100

111 102.0 82.0 123.0

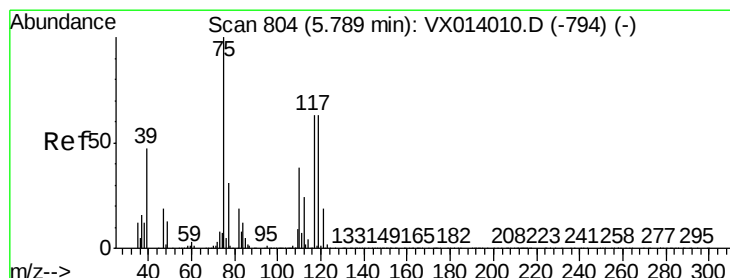
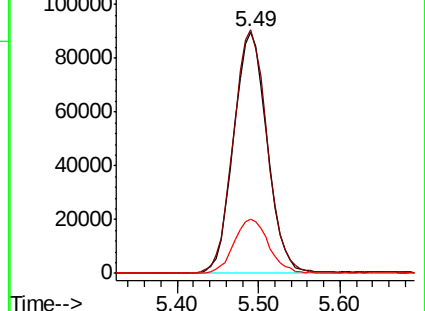
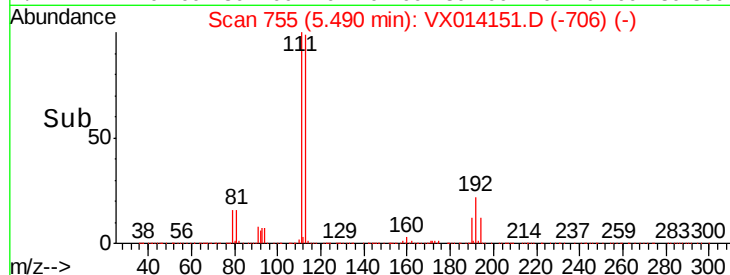
192 23.4 19.3 28.9



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: 4.815 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

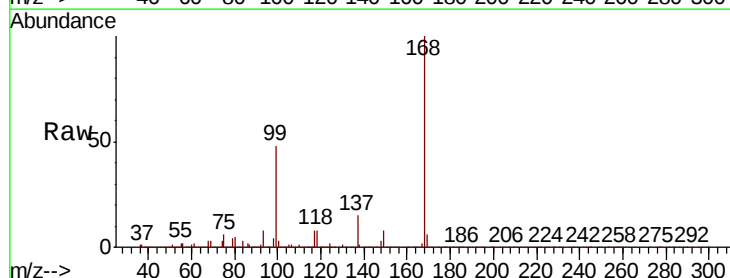
Tgt Ion: 75 Resp: 37648

Ion Ratio Lower Upper

75 100

110 0.0 18.3 54.9#

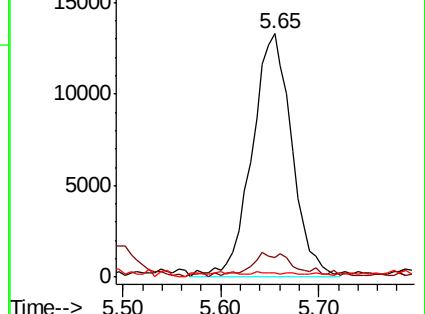
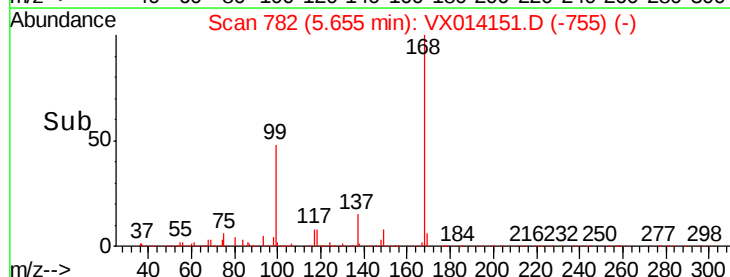
77 0.4 24.8 37.2#

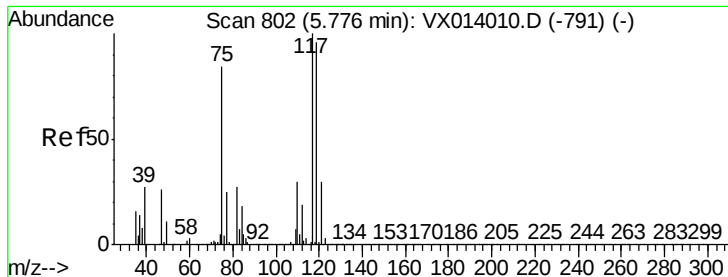


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.835 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :

MSVOA_X

ClientSampleId :

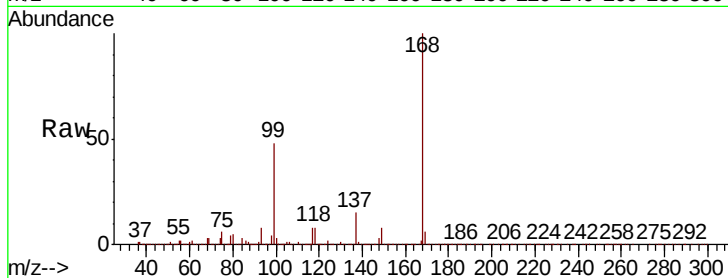
Tot Ion:117 Resp: 48685

Ion Ratio Lower Upper

117 100

119 4.2 76.2 114.4#

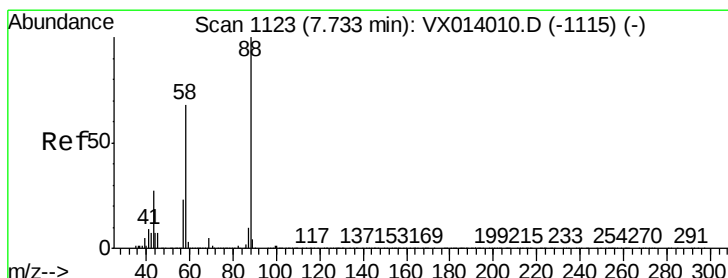
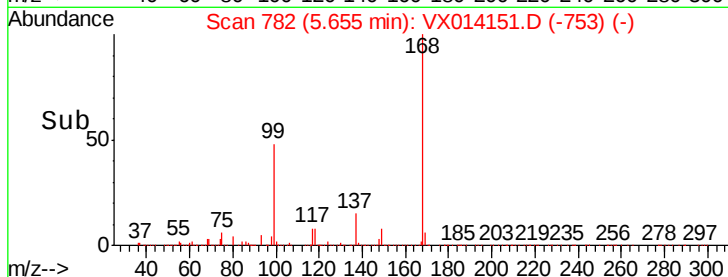
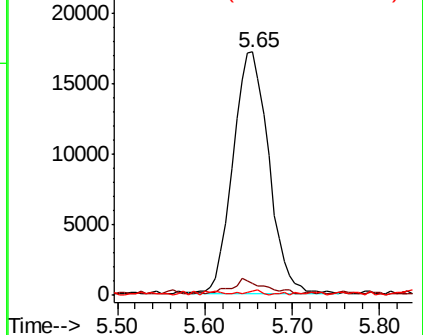
121 1.2 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.440 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

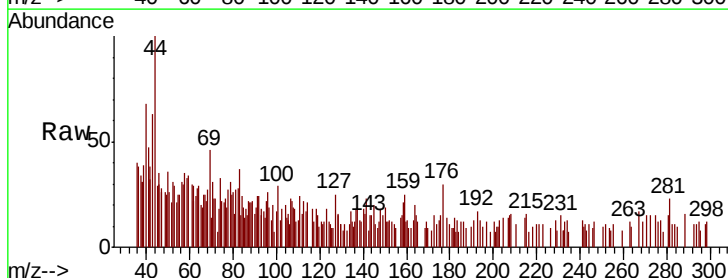
Tgt Ion: 88 Resp: 205

Ion Ratio Lower Upper

88 100

43 483.4 26.5 39.7#

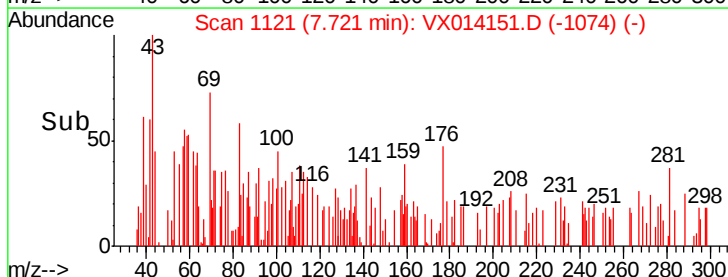
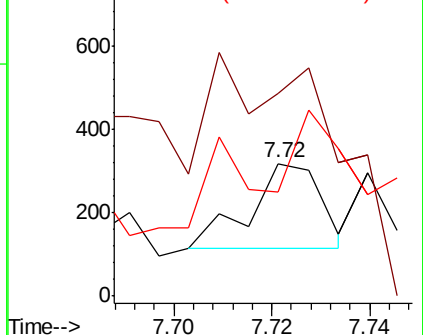
58 279.0 56.8 85.2#

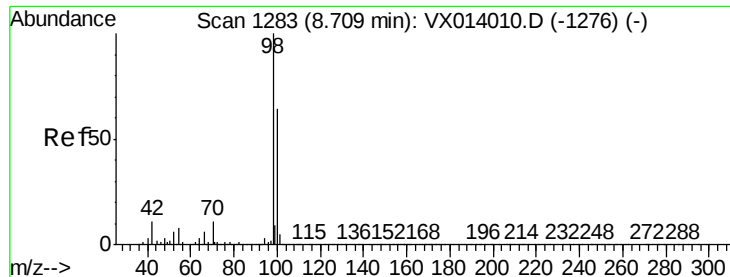


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.153 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :

MSVOA_X

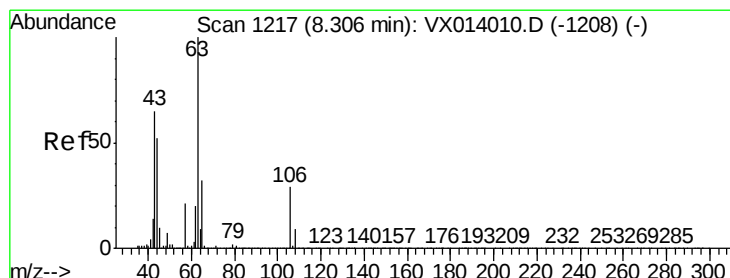
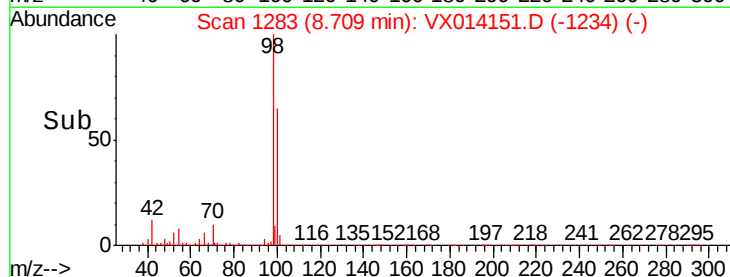
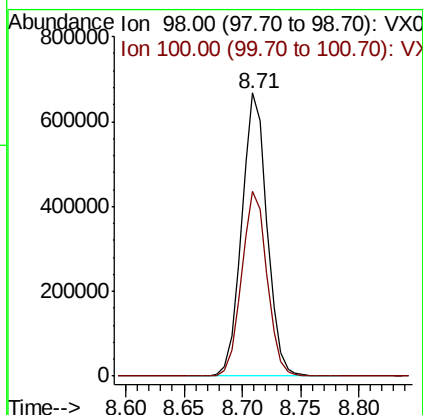
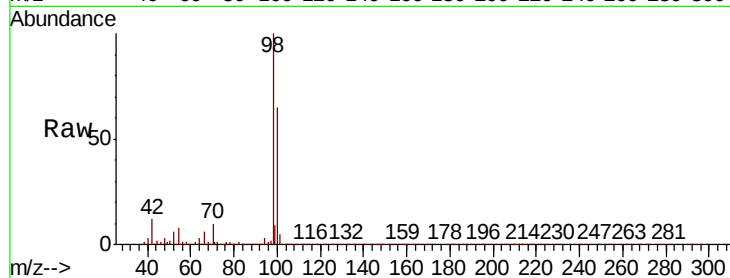
ClientSampleId :

Tot Ion: 98 Resp: 1011487

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3



#58

2-Chloroethyl Vinyl ether

Concen: 0.238 ug/l

RT: 8.12 min Scan# 1186

Delta R.T. -0.19 min

Lab File: VX014151.D

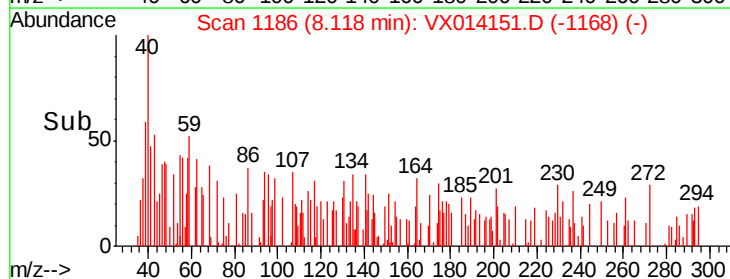
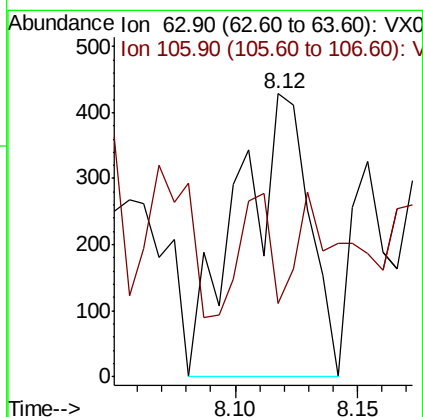
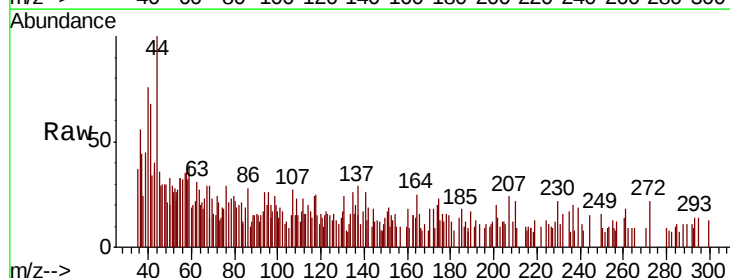
Acq: 20 Dec 2019 04:29

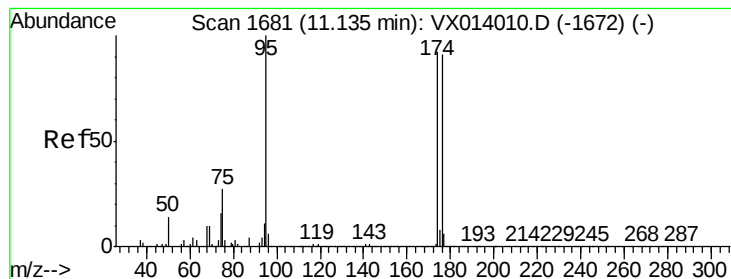
Tgt Ion: 63 Resp: 863

Ion Ratio Lower Upper

63 100

106 31.3 23.0 34.6





#62

4-Bromofluorobenzene

Concen: 46.135 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :

MSVOA_X

ClientSampleId :

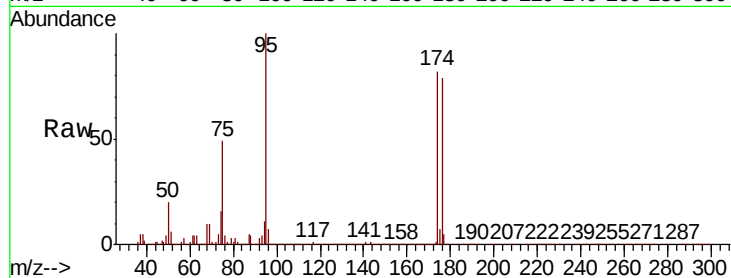
Tot Ion: 95 Resp: 340122

Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.8

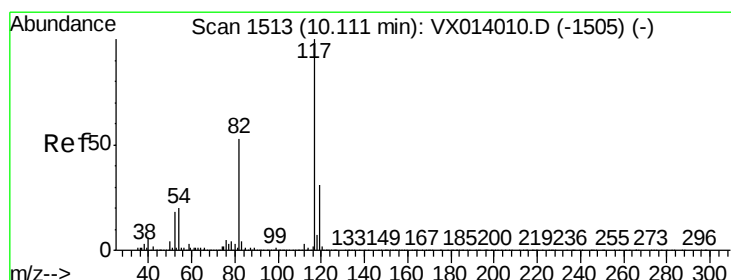
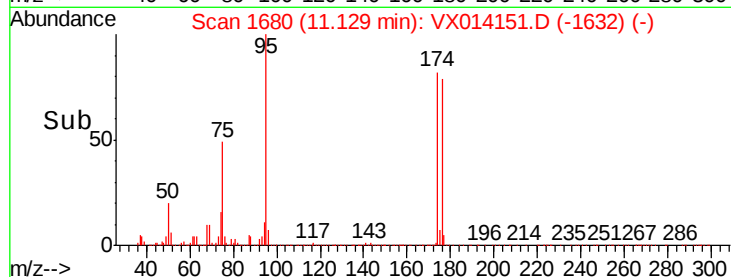
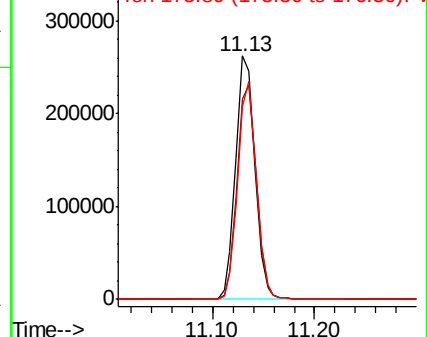
176 86.7 0.0 173.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

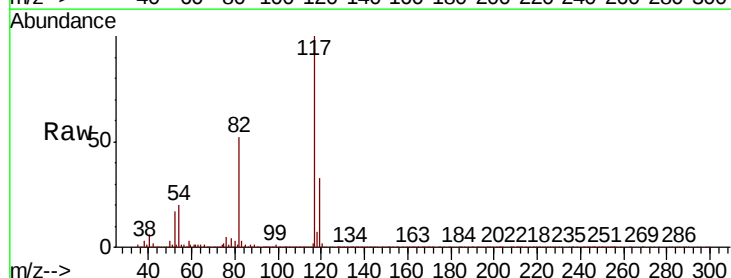
Tgt Ion: 117 Resp: 764188

Ion Ratio Lower Upper

117 100

82 51.8 42.2 63.4

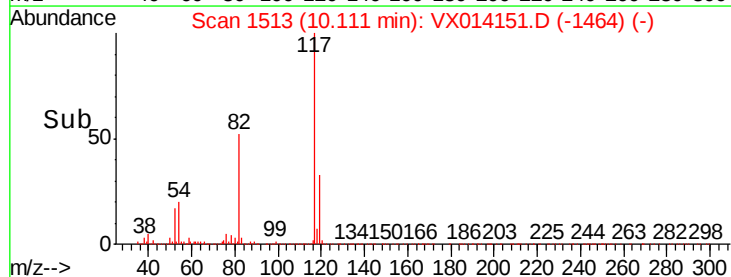
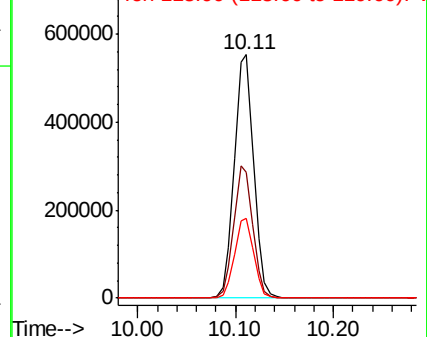
119 32.9 25.1 37.7

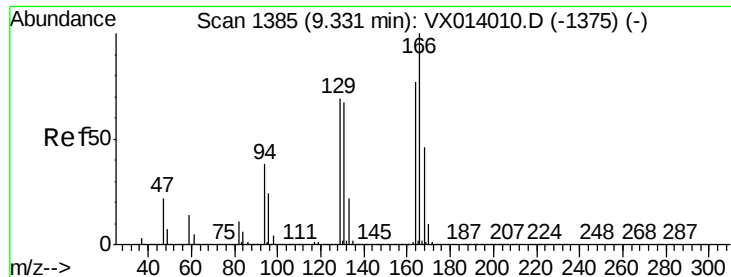


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

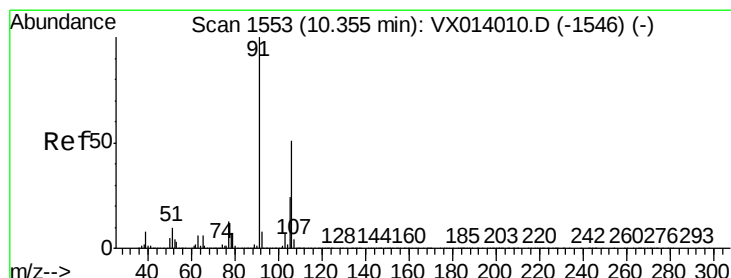
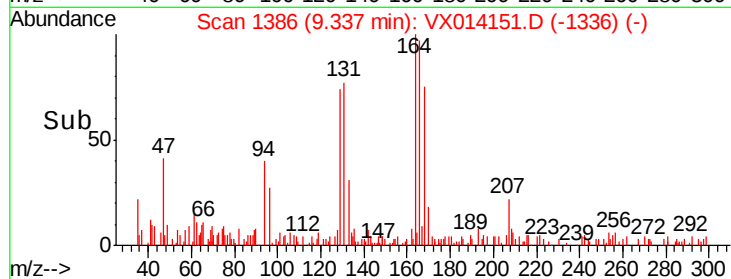
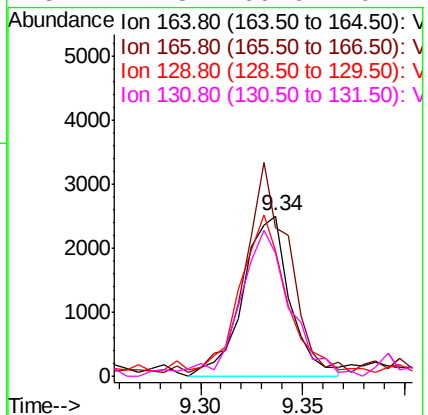
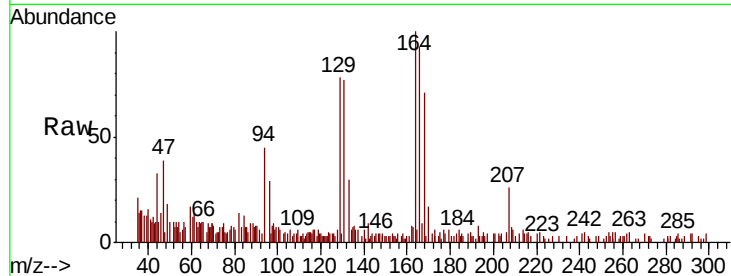




#64
Tetrachloroethene
Concen: 0.593 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

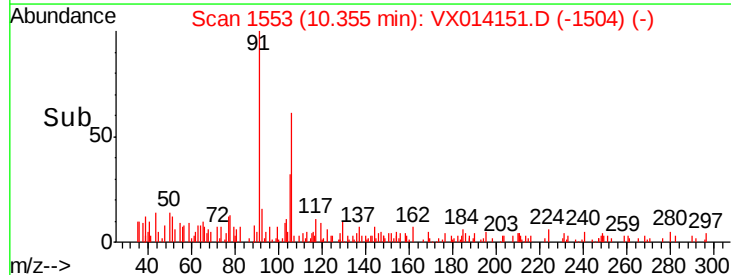
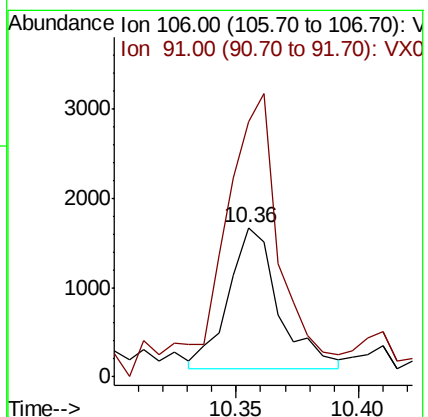
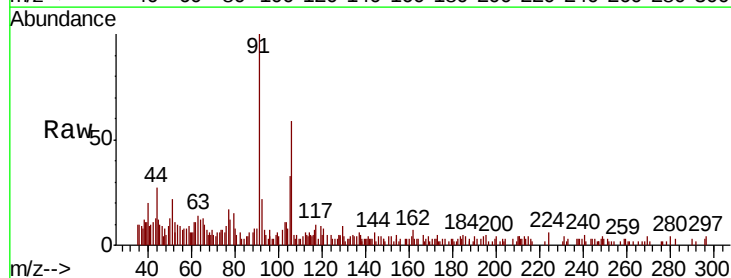
Instrument :
MSVOA_X
ClientSampleId :

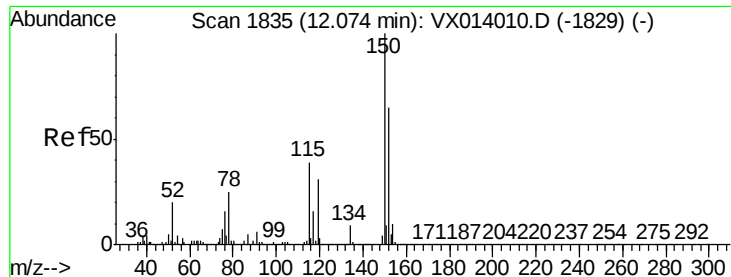
Tot Ion	Ratio	Lower	Upper
164	100		
166	91.2	104.0	156.0
129	76.4	72.2	108.4
131	77.3	69.6	104.4



#68
m/p-Xylenes
Concen: 0.211 ug/l
RT: 10.36 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

Tgt Ion	Ratio	Lower	Upper
106	100		
91	233.0	158.6	238.0



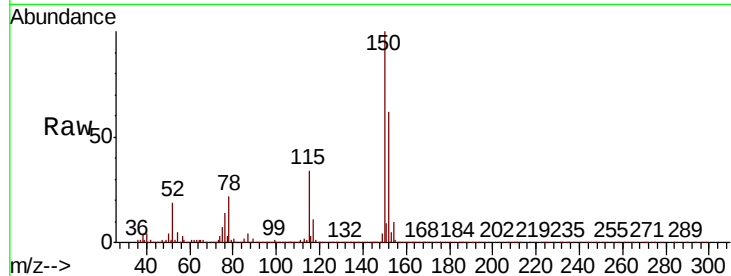


#72

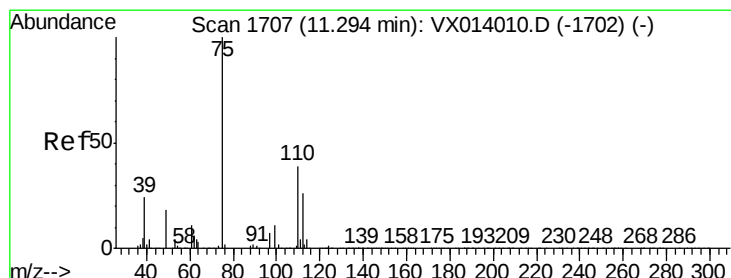
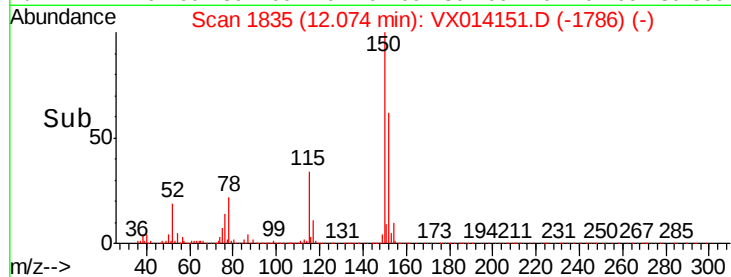
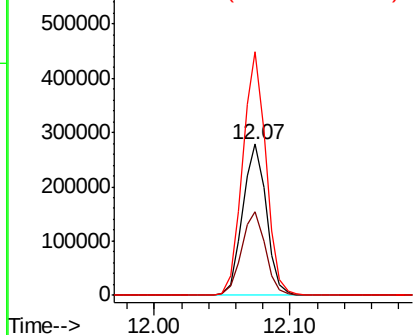
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.6	38.3	114.9
150	158.7	0.0	345.4



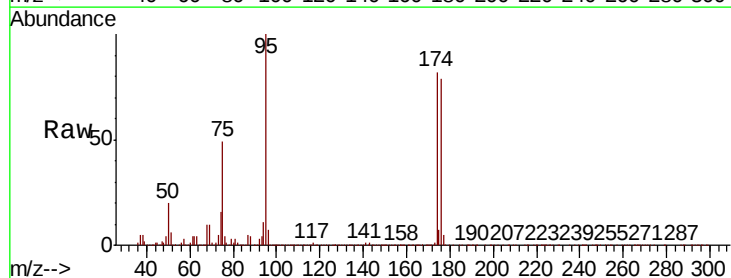
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



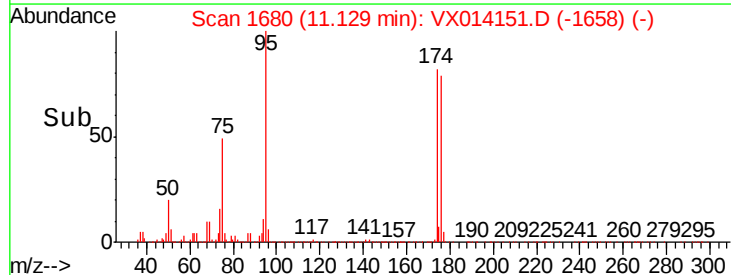
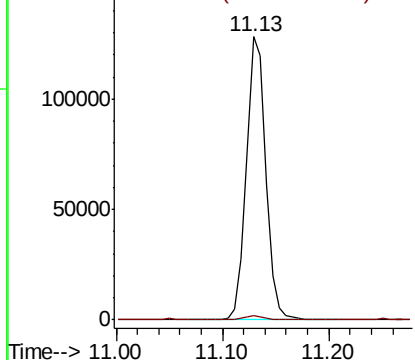
#76

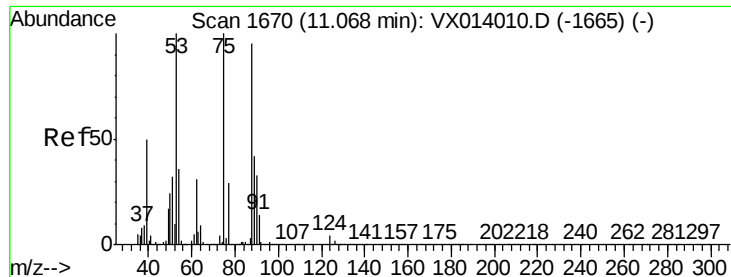
1,2,3-Trichloropropane
Concen: 22.566 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014151.D
Acq: 20 Dec 2019 04:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.7	19.3	57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.692 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Instrument :

MSVOA_X

ClientSampleId :

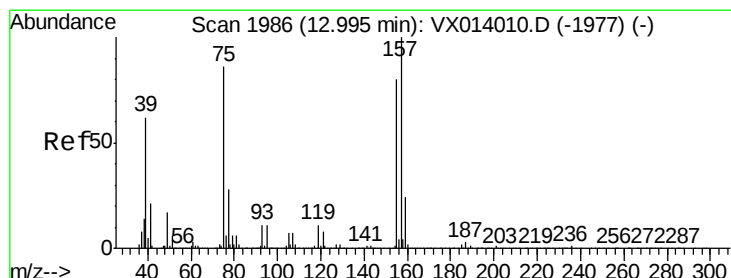
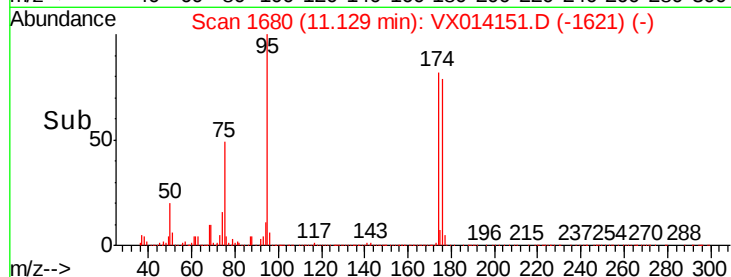
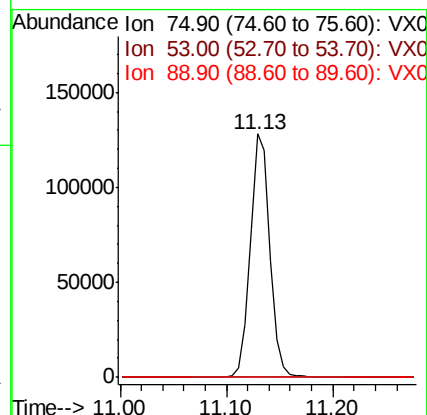
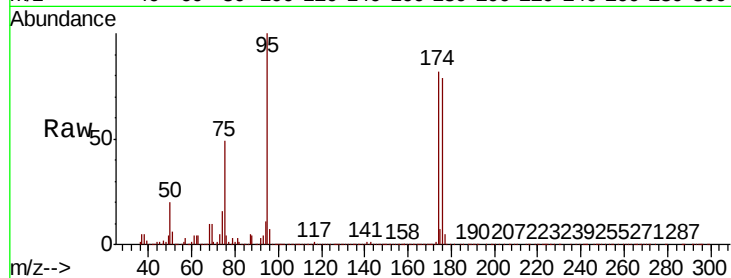
Tot Ion: 75 Resp: 165447

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.1 34.6 51.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.240 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX014151.D

Acq: 20 Dec 2019 04:29

Tgt Ion: 75 Resp: 438

Ion Ratio Lower Upper

75 100

155 0.0 46.9 140.6#

157 0.0 60.8 182.4#

