

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX013860.D
 Acq On : 09 Dec 2019 18:54
 Operator : JC/SP
 Sample : K6185-06DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20191205DL

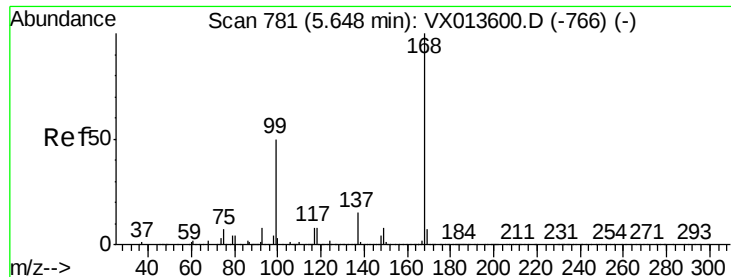
Quant Time: Dec 12 08:12:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	615446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	946670	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	851679	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	366184	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	343596	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	5.49	113	280885	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	8.71	98	1127474	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.14	95	371893	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.37	101	6320	1.077	ug/l	90
11) Tert butyl alcohol	3.01	59	16721	9.482	ug/l #	85
13) Acrolein	2.29	56	175	6.149	ug/l #	15
16) Acetone	2.44	43	10313	2.924	ug/l	92
20) Methylene Chloride	2.85	84	3722	0.549	ug/l #	72
24) 1,1-Dichloroethane	3.69	63	2324	0.208	ug/l #	66
25) 2-Butanone	4.68	43	2141	0.408	ug/l #	75
27) cis-1,2-Dichloroethene	4.59	96	7484	1.021	ug/l	84
36) 1,1-Dichloropropene	5.65	75	40783	4.746	ug/l #	49
38) Carbon Tetrachloride	5.65	117	52774	6.660	ug/l #	15
44) Trichloroethene	7.21	130	279728	38.943	ug/l	97
49) 1,4-Dioxane	7.74	88	667	3.864	ug/l #	72
51) 4-Methyl-2-Pentanone	8.62	43	2118	0.212	ug/l	93
64) Tetrachloroethene	9.33	164	17511	2.757	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	180353	21.898	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	180353	59.908	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	468	0.241	ug/l	66

(#) = 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. 0.01 min

Lab File: VX013860.D

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MSVOA_X

ClientSampleId :

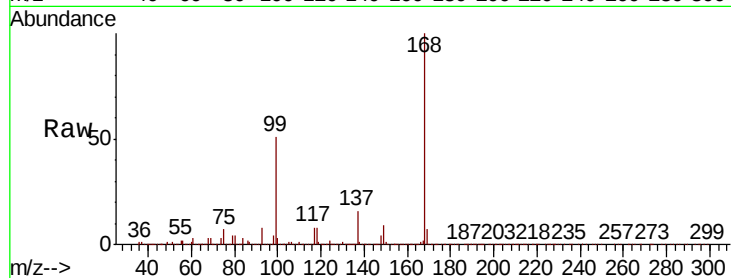
RE131D1-20191205DL

Tot Ion:168 Resp: 615446

Ion Ratio Lower Upper

168 100

99 50.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

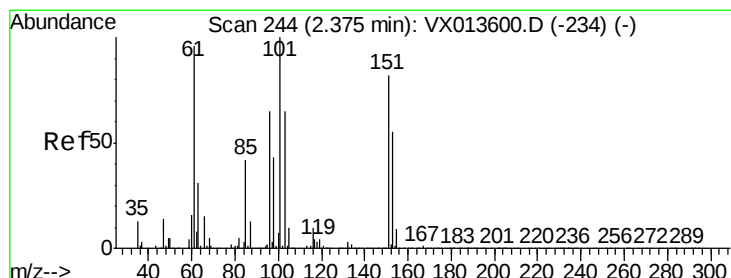
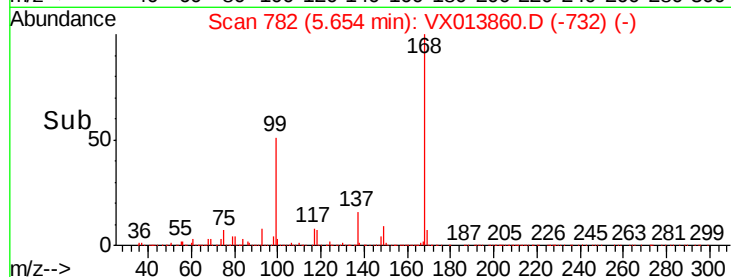
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.077 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

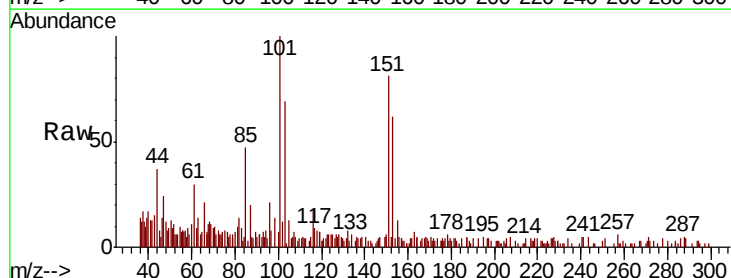
Tgt Ion:101 Resp: 6320

Ion Ratio Lower Upper

101 100

85 42.8 33.9 50.9

151 93.9 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

4000

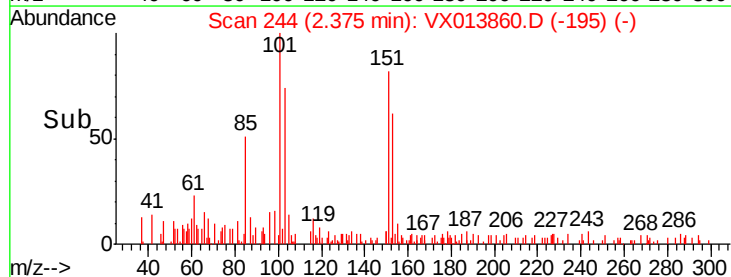
3000

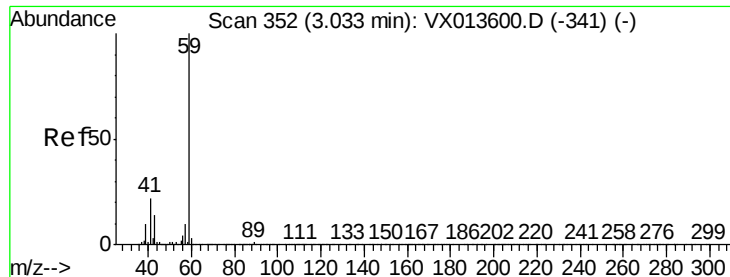
2000

1000

0

Time-->



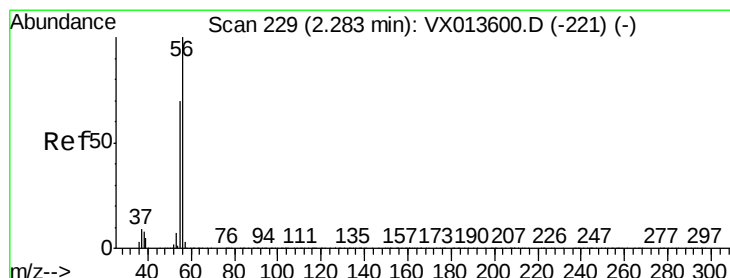
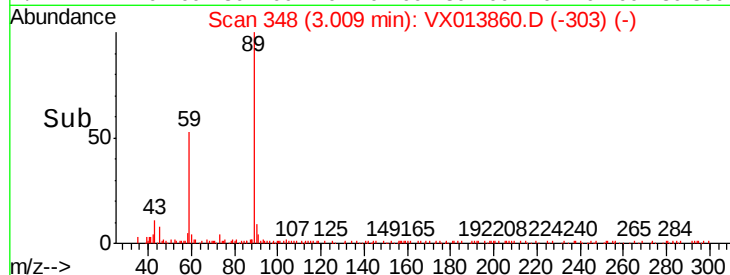
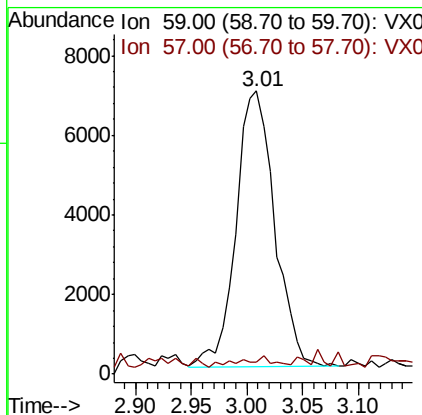
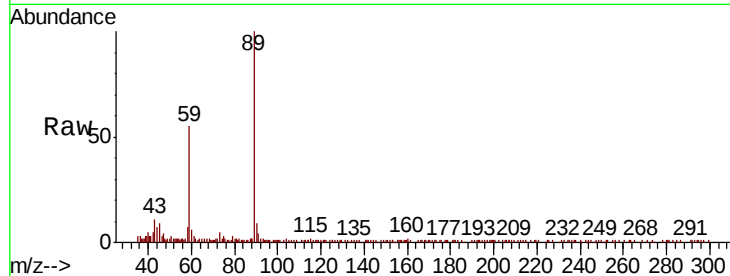


#11

Tert butyl alcohol
Concen: 9.482 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013860.D
Acq: 09 Dec 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205DL

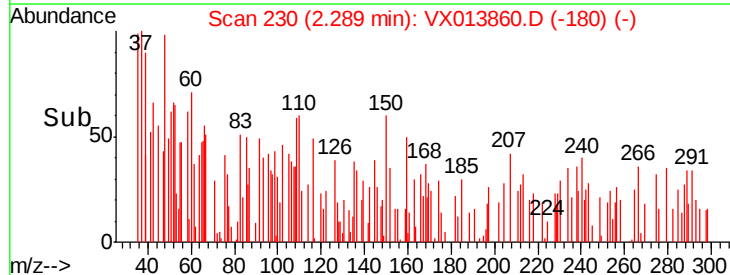
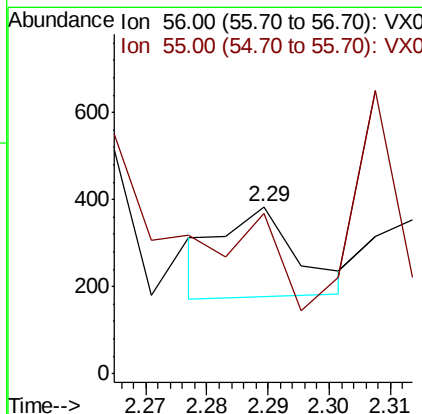
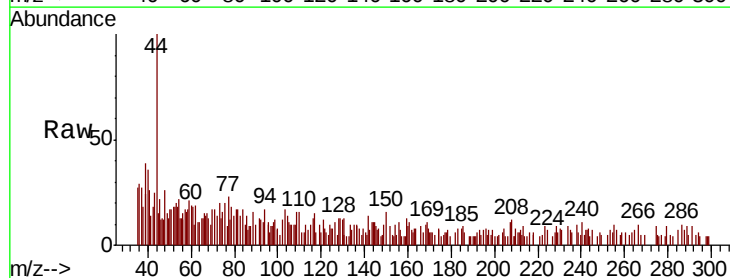
Tot Ion: 59 Resp: 16721
Ion Ratio Lower Upper
59 100
57 4.3 7.8 11.6#

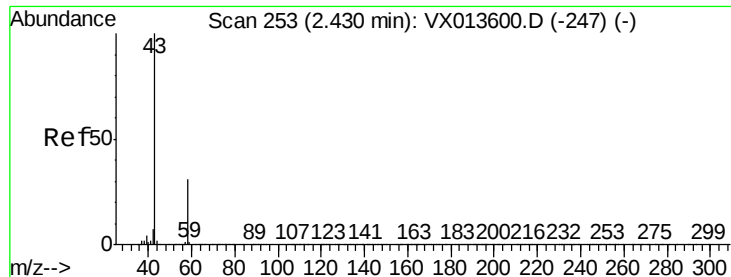


#13

Acrolein
Concen: 6.149 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013860.D
Acq: 09 Dec 2019 18:54

Tgt Ion: 56 Resp: 175
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

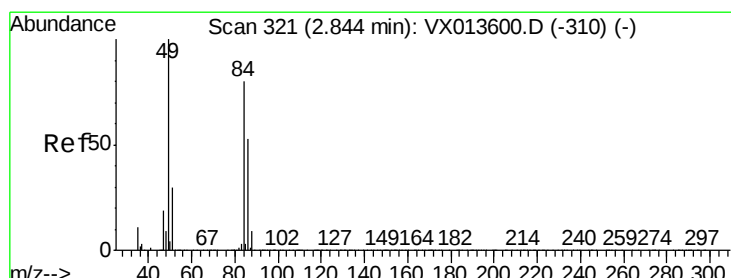
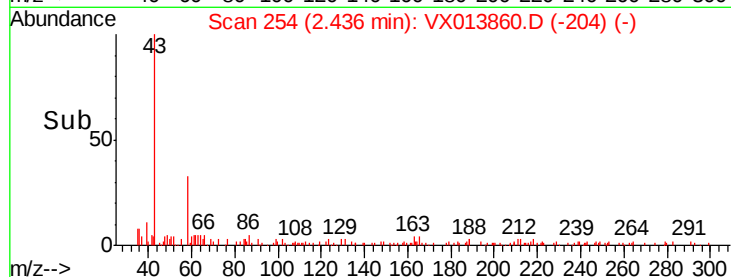
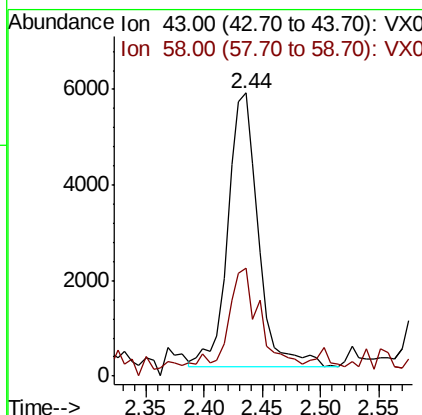
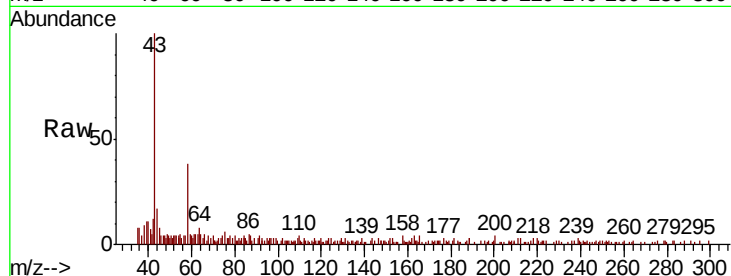




#16
Acetone
Concen: 2.924 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013860.D
Acq: 09 Dec 2019 18:54

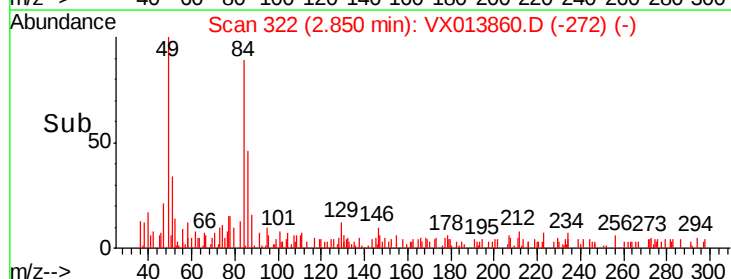
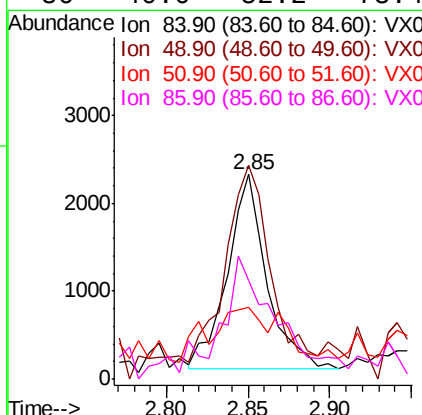
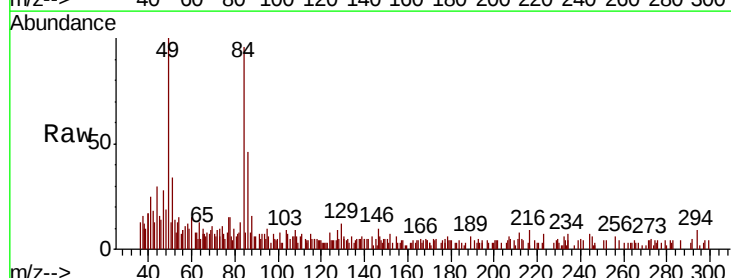
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205DL

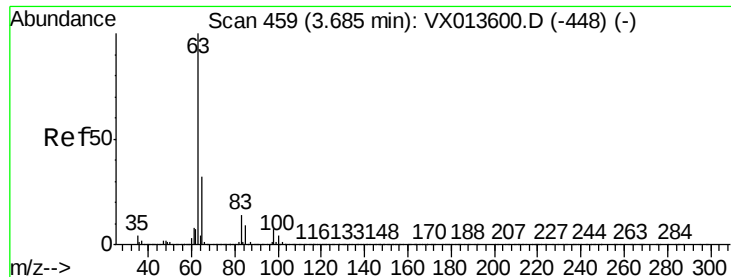
Tot Ion: 43 Resp: 10313
Ion Ratio Lower Upper
43 100
58 34.9 24.6 36.8



#20
Methylene Chloride
Concen: 0.549 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013860.D
Acq: 09 Dec 2019 18:54

Tgt Ion: 84 Resp: 3722
Ion Ratio Lower Upper
84 100
49 92.4 99.7 149.5#
51 26.6 29.9 44.9#
86 40.0 52.2 78.4#





#24

1,1-Dichloroethane

Concen: 0.208 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20191205DL

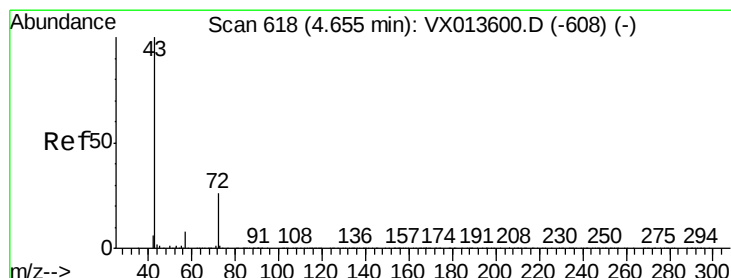
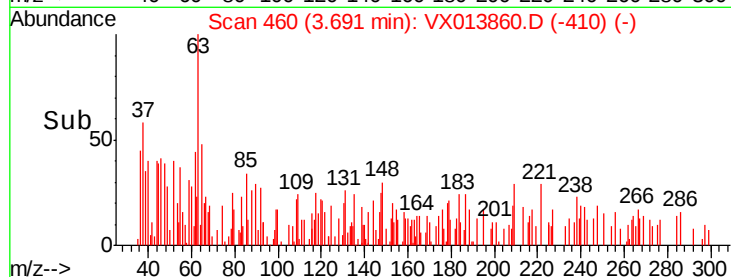
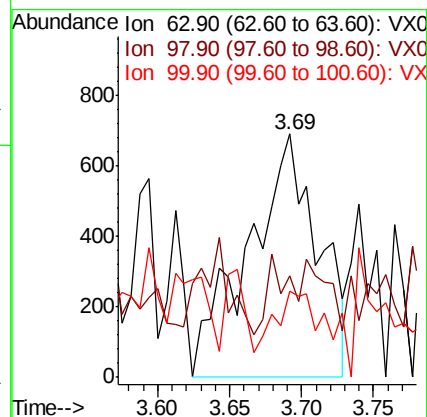
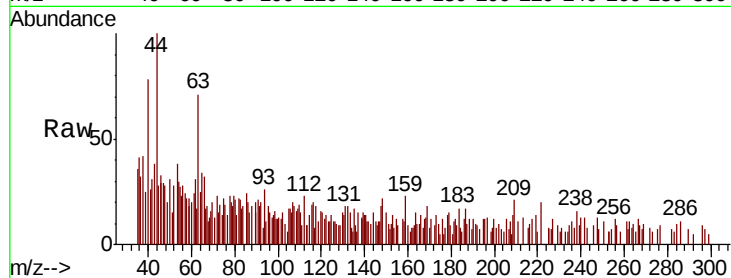
Tot Ion: 63 Resp: 2324

Ion Ratio Lower Upper

63 100

98 22.9 3.5 10.4#

100 8.8 2.1 6.3#



#25

2-Butanone

Concen: 0.408 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013860.D

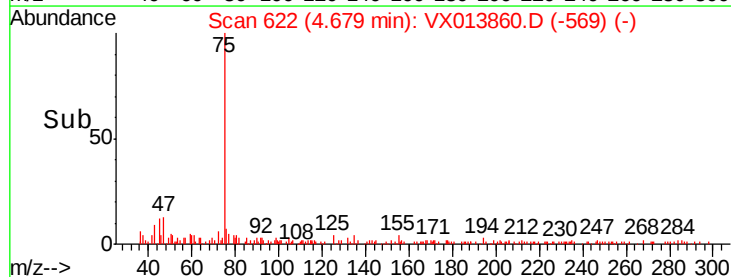
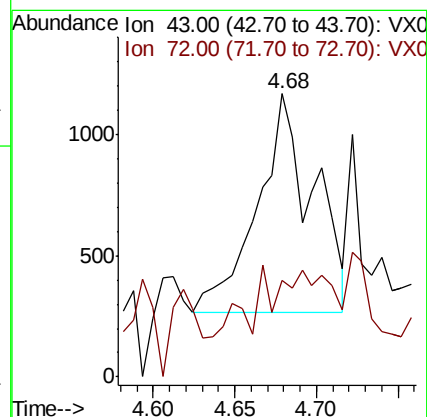
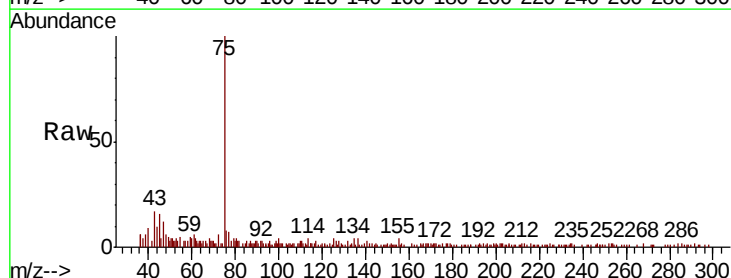
Acq: 09 Dec 2019 18:54

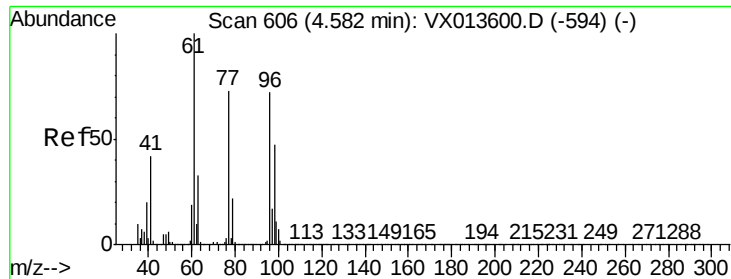
Tgt Ion: 43 Resp: 2141

Ion Ratio Lower Upper

43 100

72 13.2 20.6 31.0#

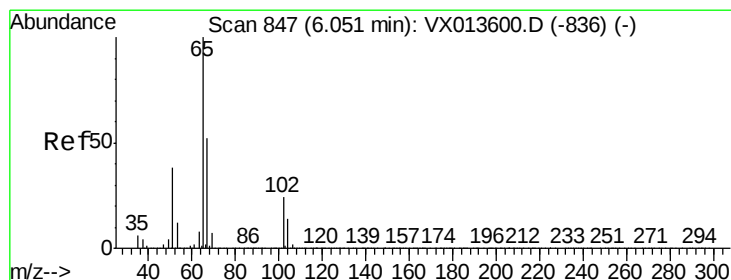
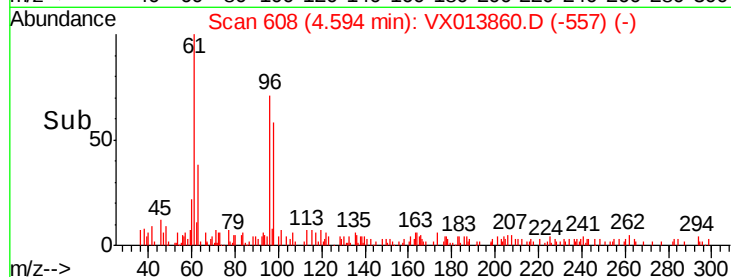
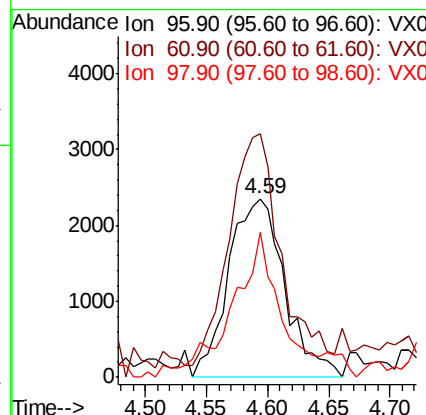
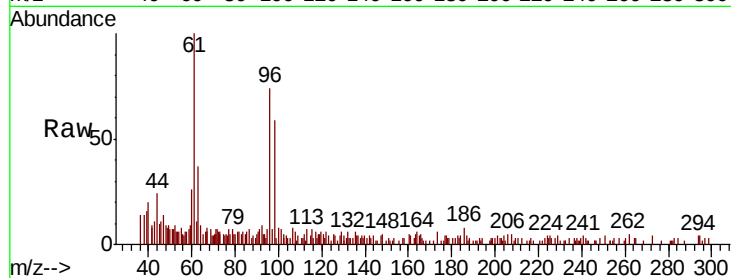




#27
 cis-1,2-Dichloroethene
 Concen: 1.021 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX013860.D
 Acq: 09 Dec 2019 18:54

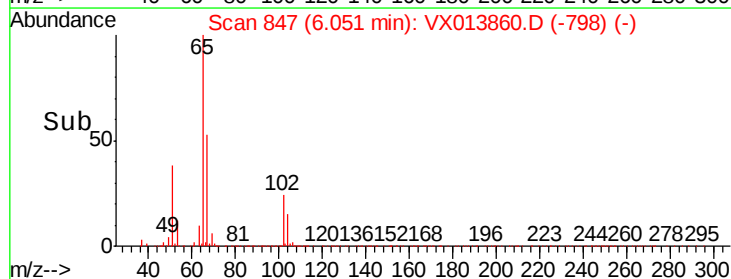
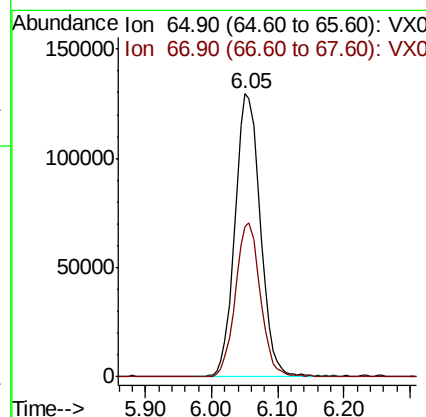
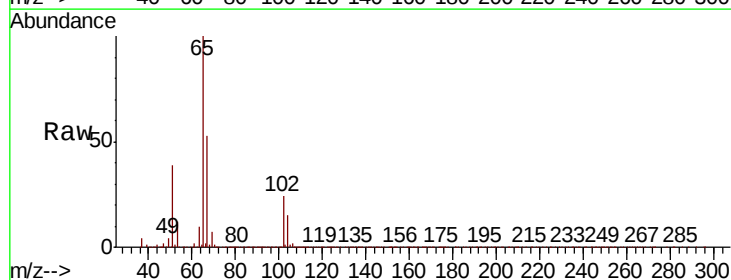
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20191205DL

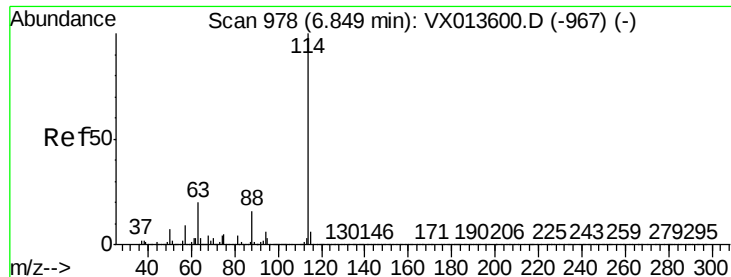
Tot Ion: 96 Resp: 7484
 Ion Ratio Lower Upper
 96 100
 61 118.2 0.0 286.4
 98 69.9 0.0 127.4



#33
 1,2-Dichloroethane-d4
 Concen: 48.096 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013860.D
 Acq: 09 Dec 2019 18:54

Tgt Ion: 65 Resp: 343596
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20191205DL

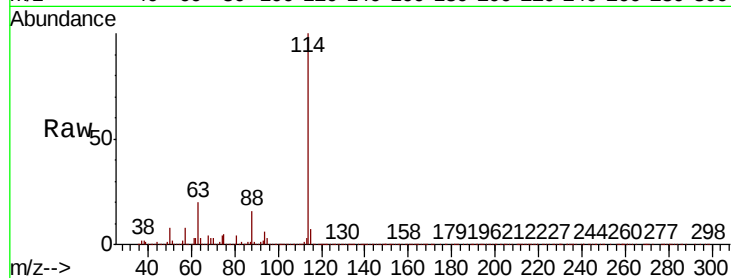
Tot Ion:114 Resp: 946670

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

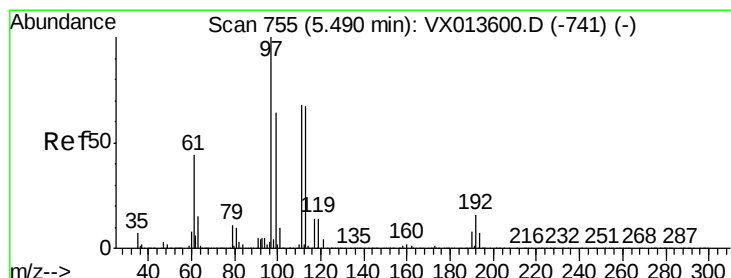
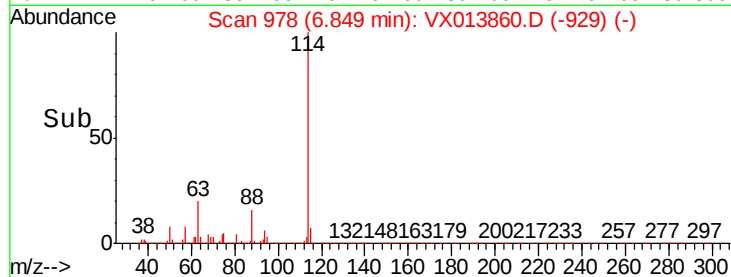
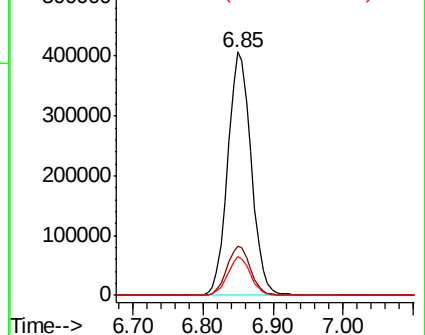
88 15.7 0.0 31.4



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: 47.995 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

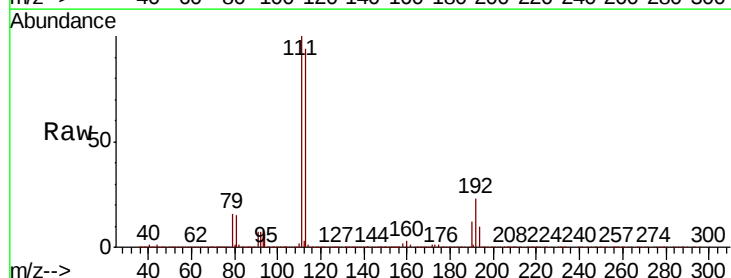
Tgt Ion:113 Resp: 280885

Ion Ratio Lower Upper

113 100

111 102.4 83.6 125.4

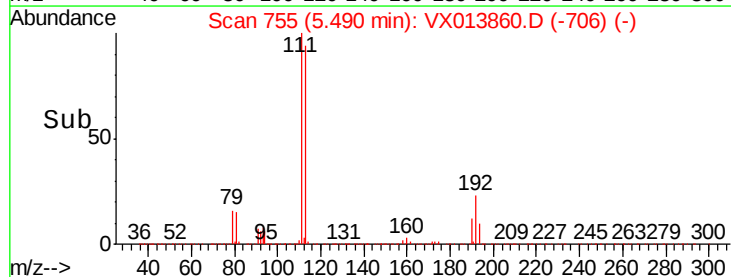
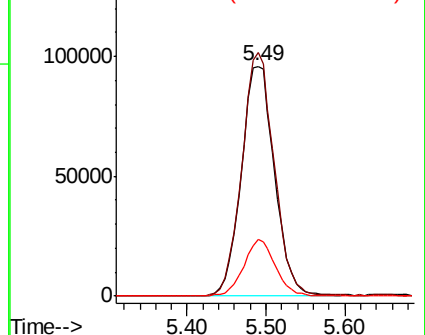
192 23.6 19.2 28.8

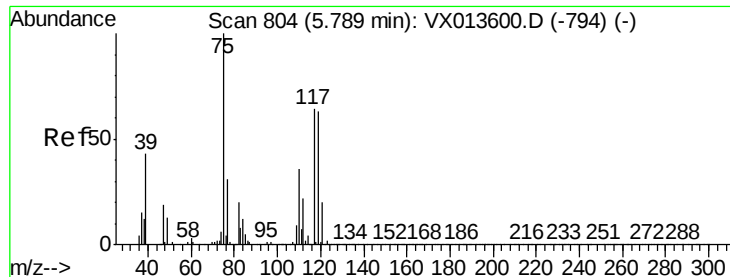


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

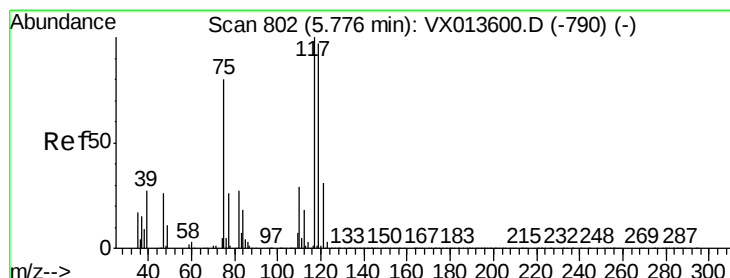
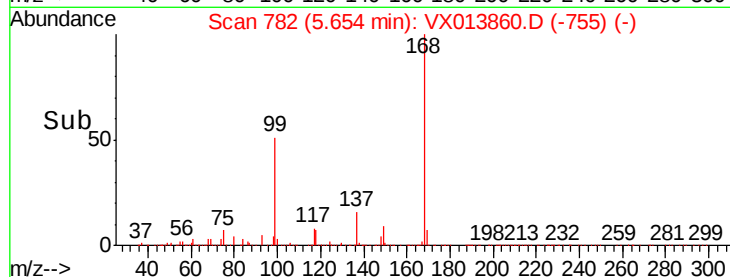
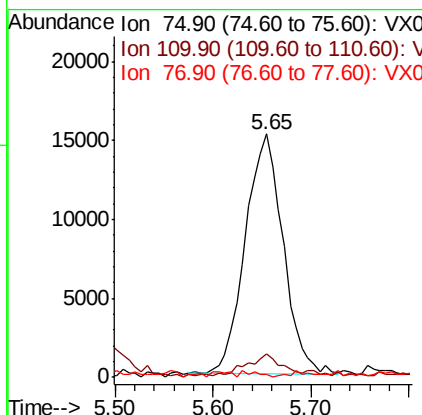
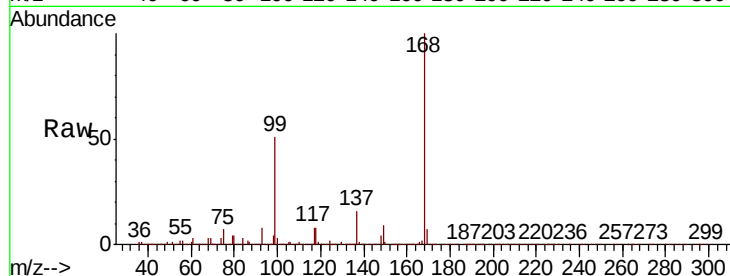




#36
 1,1-Dichloropropene
 Concen: 4.746 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013860.D
 Acq: 09 Dec 2019 18:54

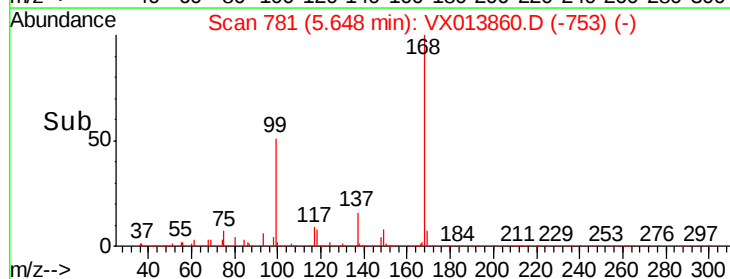
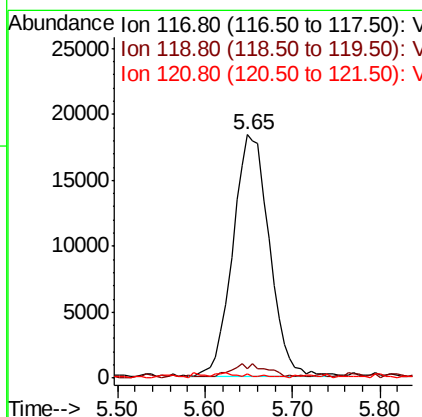
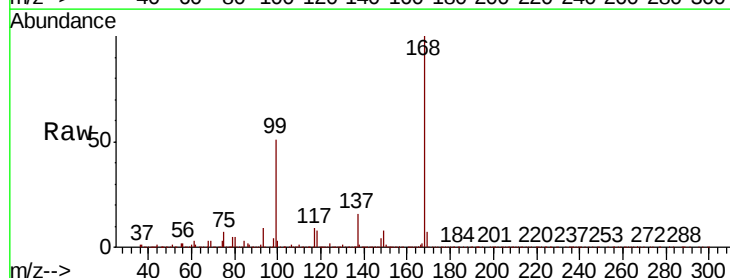
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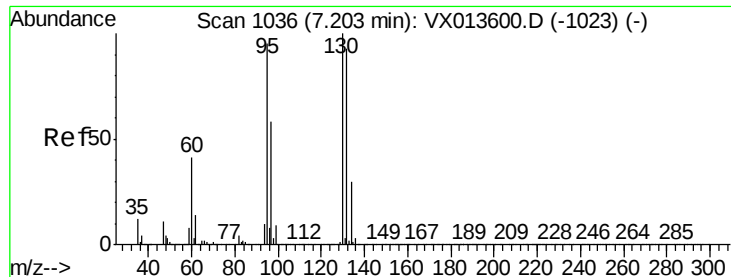
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.1	54.1#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.660 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013860.D
 Acq: 09 Dec 2019 18:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	2.9	77.5	116.3#
121	1.7	25.0	37.6#





#44

Trichloroethene

Concen: 38.943 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

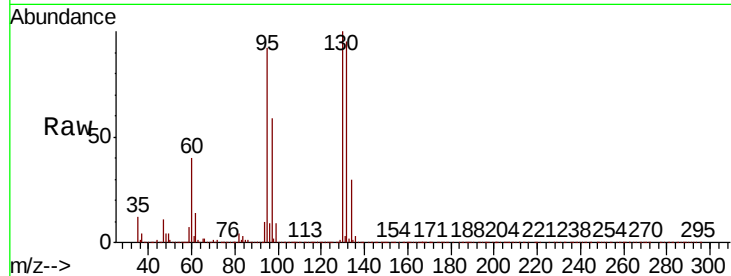
RE131D1-20191205DL

Tot Ion:130 Resp: 279728

Ion Ratio Lower Upper

130 100

95 92.0 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

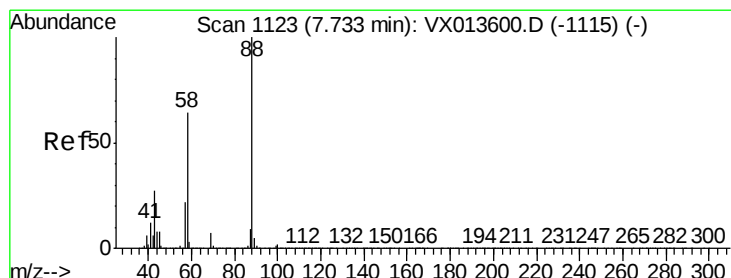
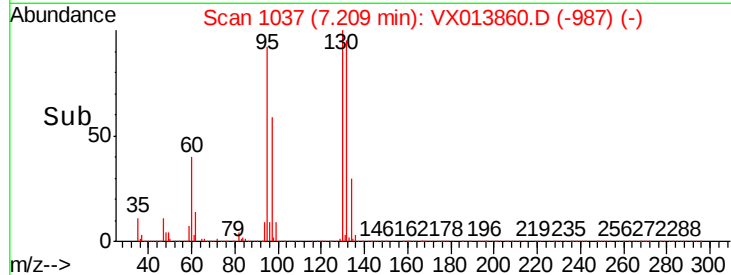
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 3.864 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

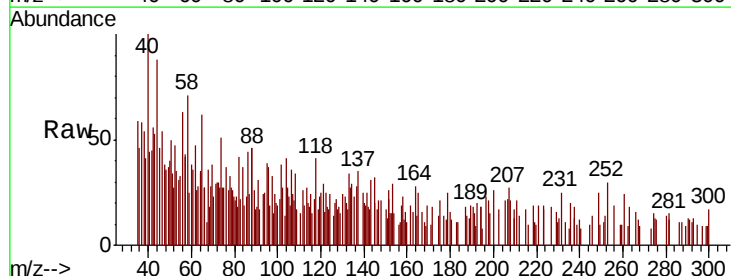
Tgt Ion: 88 Resp: 667

Ion Ratio Lower Upper

88 100

43 79.8 25.8 38.6#

58 69.4 54.6 82.0



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

1000

800

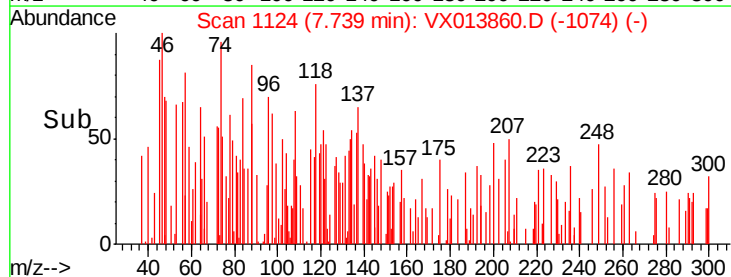
600

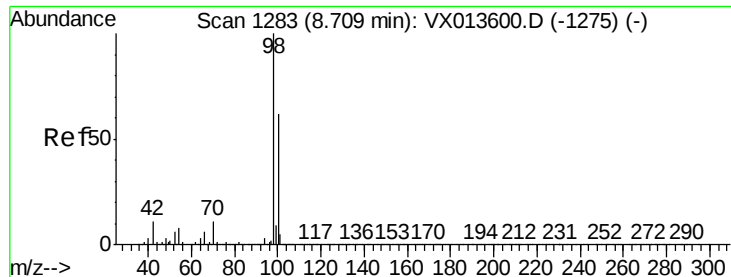
400

200

0

Time-->





#50

Toluene-d8

Concen: 49.447 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

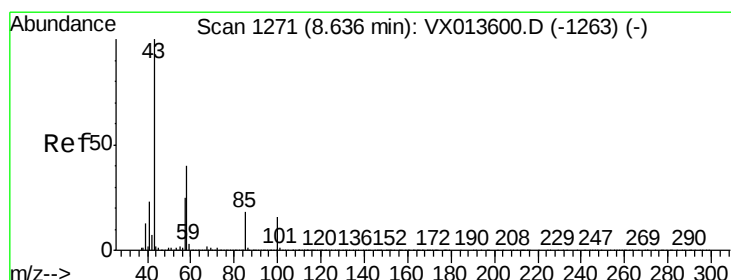
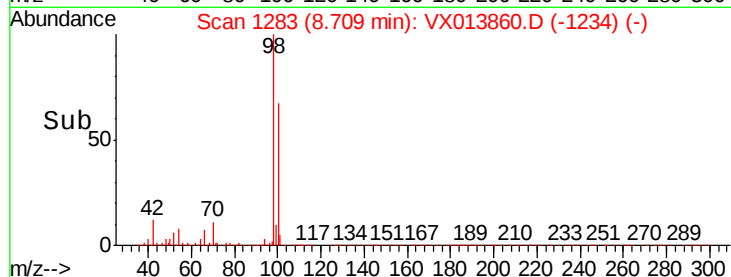
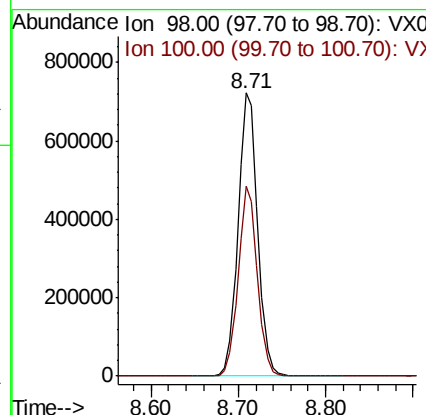
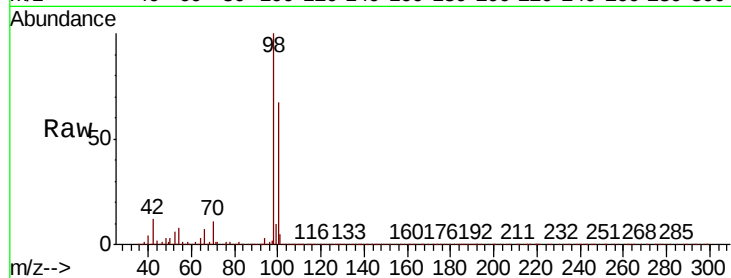
RE131D1-20191205DL

Tot Ion: 98 Resp: 1127474

Ion Ratio Lower Upper

98 100

100 65.5 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.212 ug/l

RT: 8.62 min Scan# 1268

Delta R.T. -0.02 min

Lab File: VX013860.D

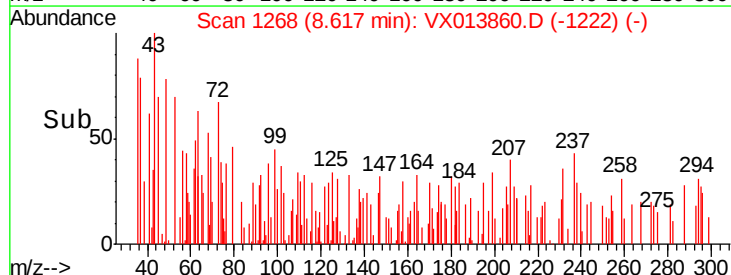
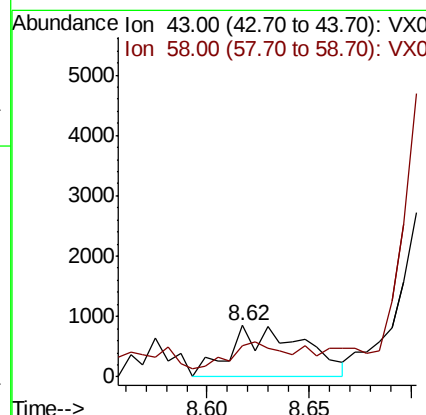
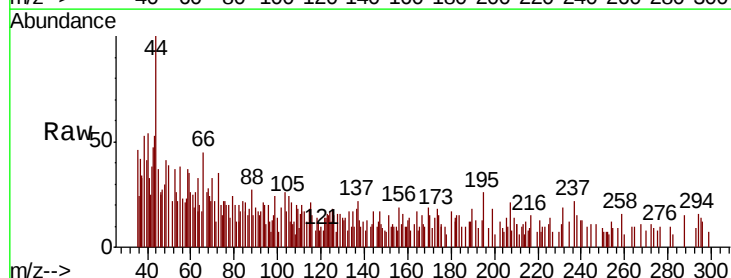
Acq: 09 Dec 2019 18:54

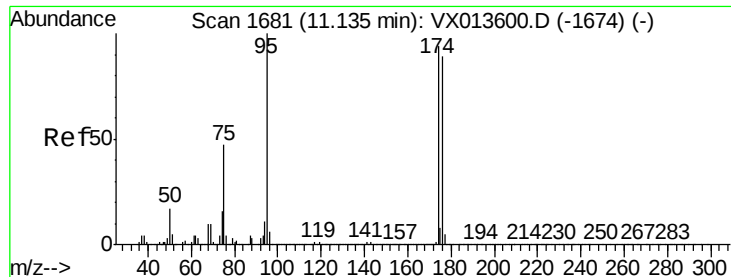
Tgt Ion: 43 Resp: 2118

Ion Ratio Lower Upper

43 100

58 35.5 32.1 48.1





#62

4-Bromofluorobenzene

Concen: 45.229 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20191205DL

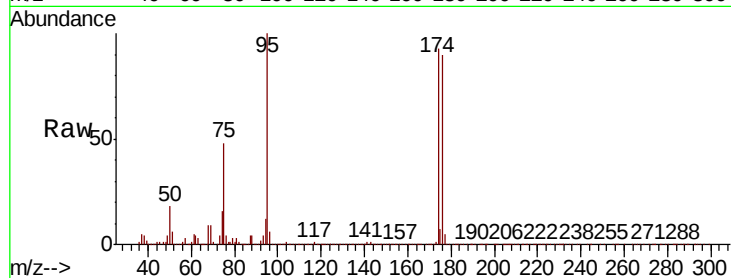
Tot Ion: 95 Resp: 371893

Ion Ratio Lower Upper

95 100

174 88.4 0.0 180.0

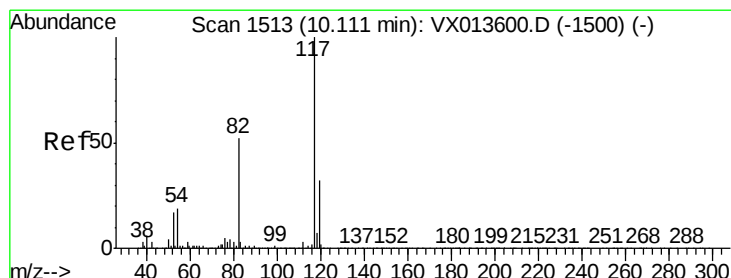
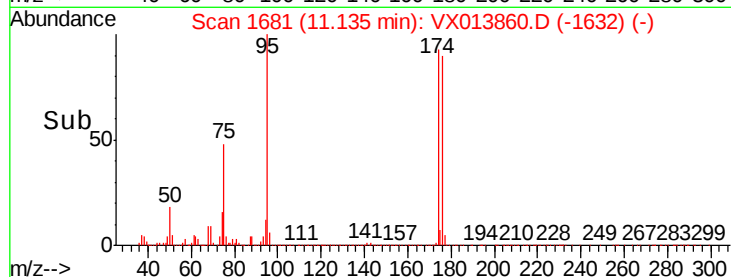
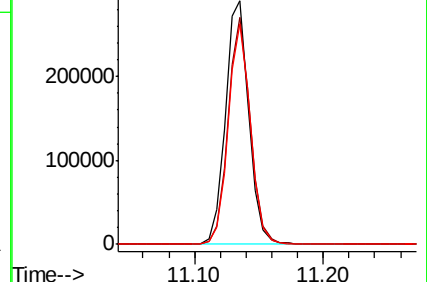
176 86.0 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013860.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013860.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013860.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

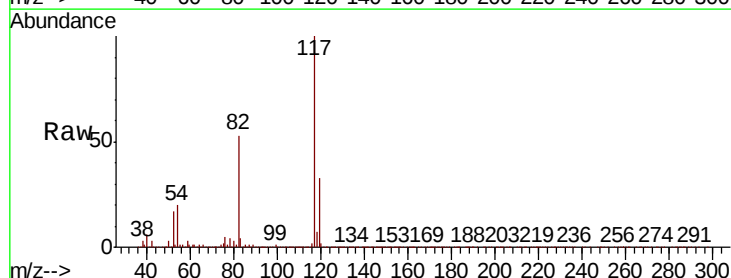
Tgt Ion: 117 Resp: 851679

Ion Ratio Lower Upper

117 100

82 52.7 41.8 62.8

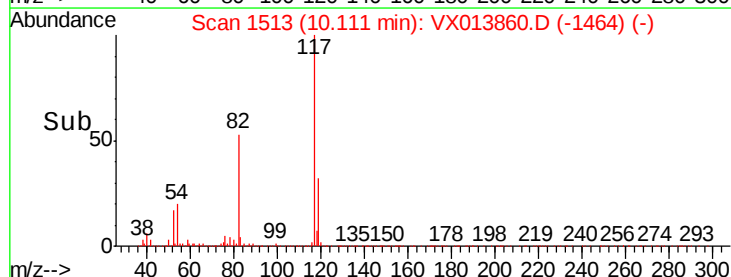
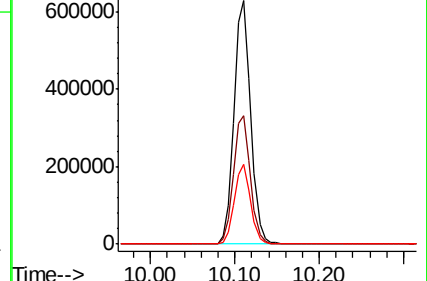
119 32.5 25.8 38.8

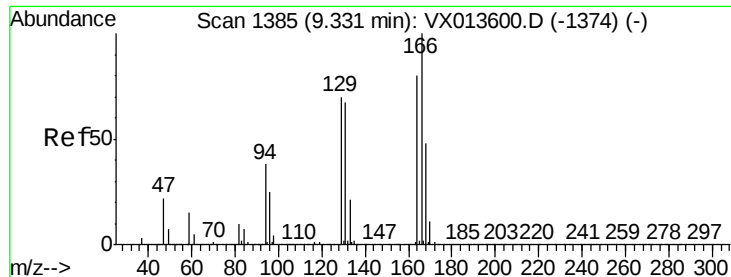


Abundance Ion 116.90 (116.60 to 117.60): VX013860.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013860.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013860.D (-1464) (-)

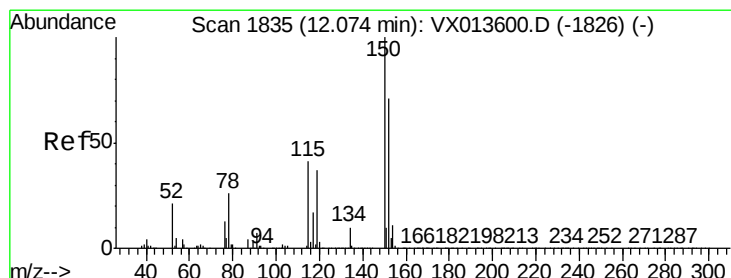
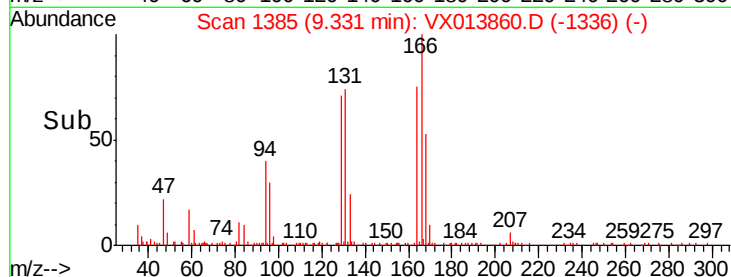
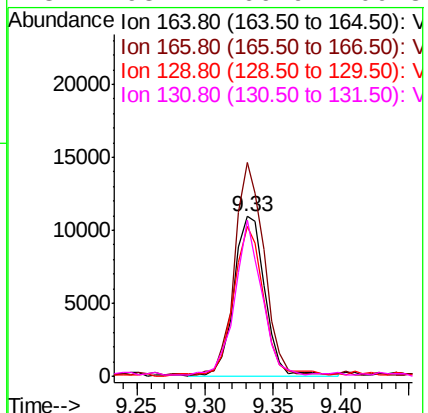
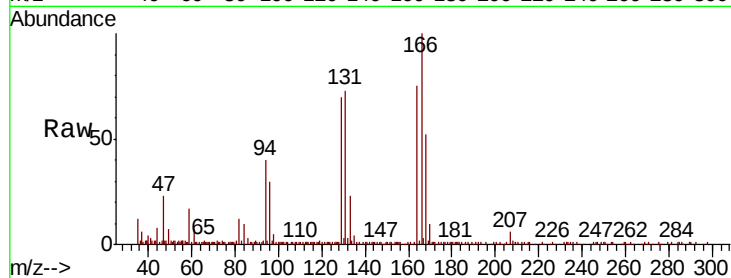




#64
Tetrachloroethene
Concen: 2.757 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013860.D
Acq: 09 Dec 2019 18:54

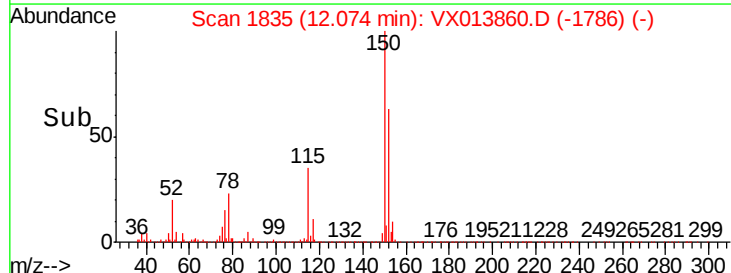
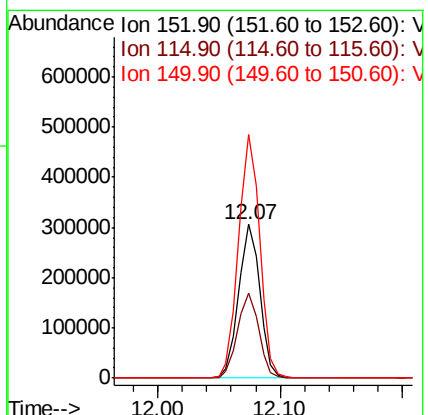
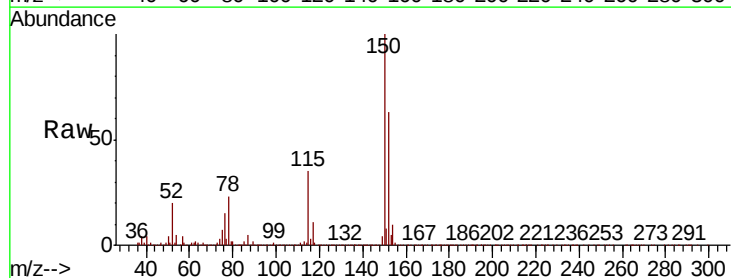
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205DL

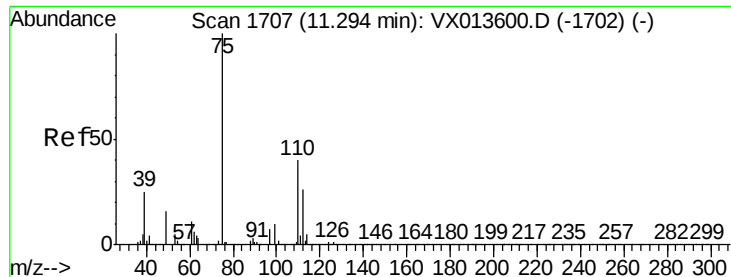
Tot Ion	Ratio	Lower	Upper
164	100		
166	134.5	99.7	149.5
129	93.5	70.1	105.1
131	98.1	66.9	100.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013860.D
Acq: 09 Dec 2019 18:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	38.4	115.1
150	158.6	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 21.898 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

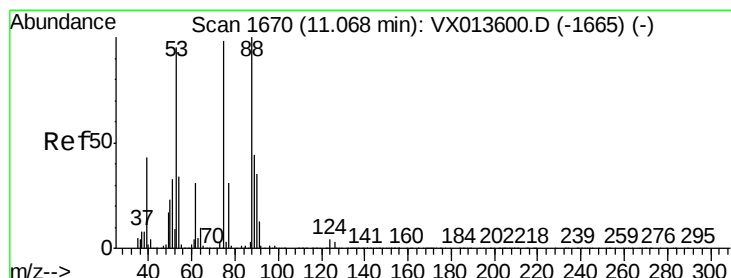
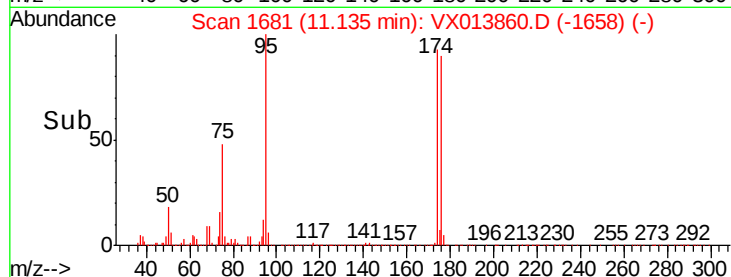
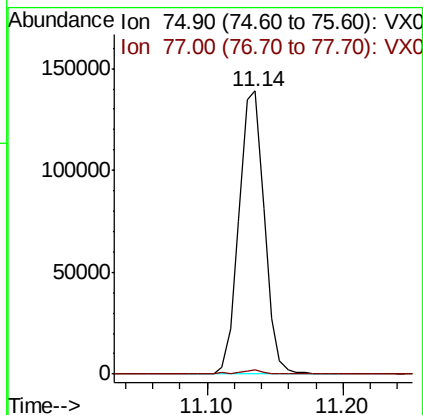
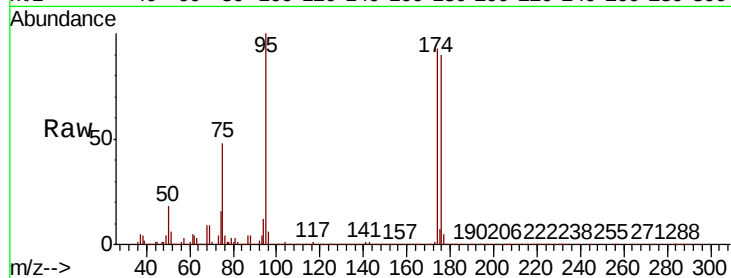
RE131D1-20191205DL

Tot Ion: 75 Resp: 180353

Ion Ratio Lower Upper

75 100

77 1.7 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.908 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

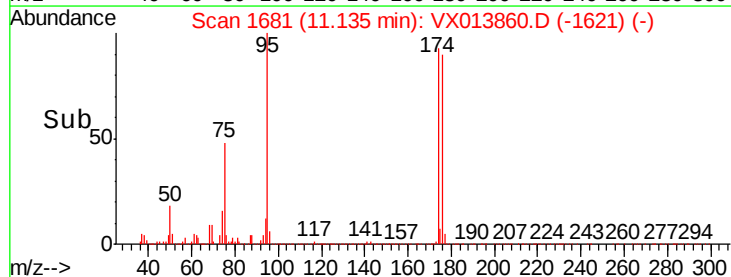
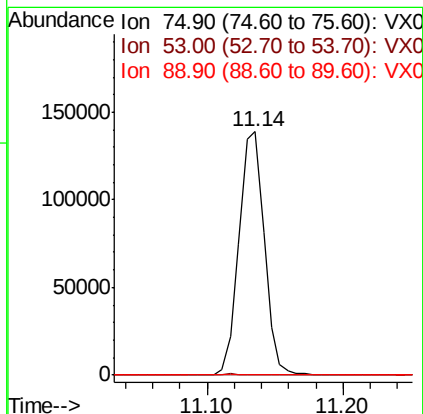
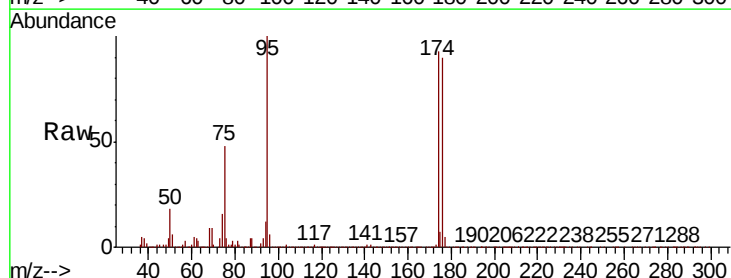
Tgt Ion: 75 Resp: 180353

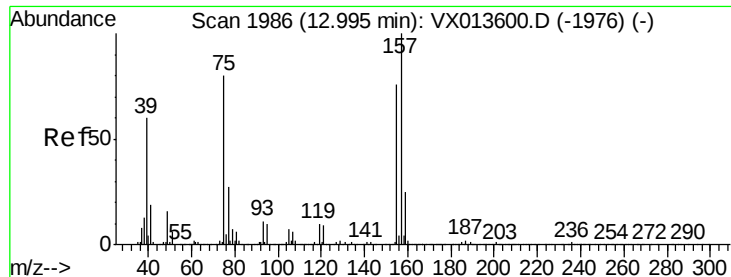
Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.241 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VX013860.D

Acq: 09 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20191205DL

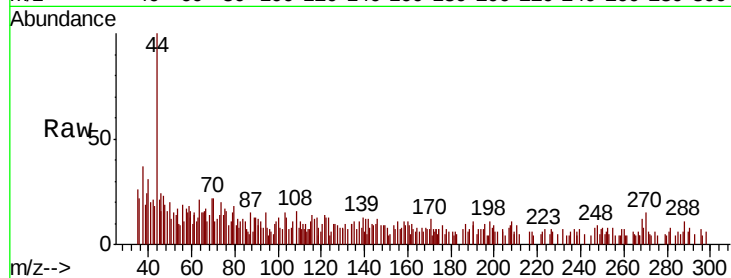
Tot Ion: 75 Resp: 468

Ion Ratio Lower Upper

75 100

155 84.2 47.6 142.8

157 65.2 62.1 186.2



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

