

Data File : VX013902.D
Acq On : 10 Dec 2019 16:46
Operator : JC/SP
Sample : K6185-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20191204

Quant Time: Dec 11 02:27:15 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	576511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	887326	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	798119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	342027	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	323472	48.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.68%	
35) Dibromofluoromethane	5.49	113	267830	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
50) Toluene-d8	8.71	98	1053265	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
62) 4-Bromofluorobenzene	11.14	95	350377	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	

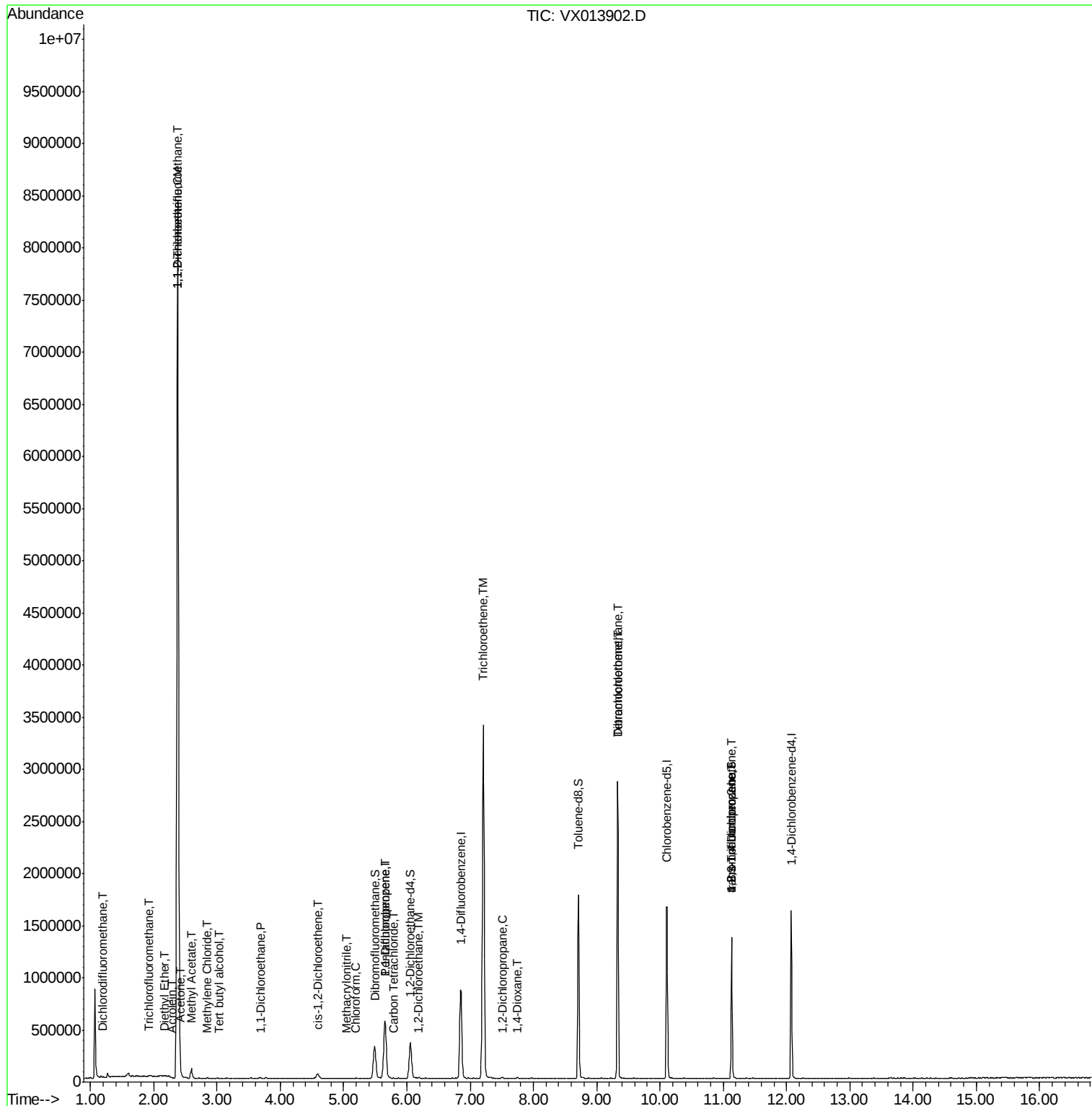
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.19	85	2017	0.314	ug/l	95
7) Trichlorofluoromethane	1.92	101	2103	0.234	ug/l	95
8) Diethyl Ether	2.16	74	829	0.204	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3412691	620.879	ug/l	99
11) Tert butyl alcohol	3.02	59	2733	1.655	ug/l #	84
12) 1,1-Dichloroethene	2.37	96	20609	3.756	ug/l	91
13) Acrolein	2.28	56	191	6.173	ug/l	91
16) Acetone	2.43	43	9976	3.019	ug/l #	85
18) Methyl Acetate	2.59	43	25522	2.774	ug/l #	54
20) Methylene Chloride	2.84	84	1670	0.263	ug/l #	75
24) 1,1-Dichloroethane	3.69	63	4014	0.383	ug/l #	86
27) cis-1,2-Dichloroethene	4.59	96	28550	4.159	ug/l	87
30) Chloroform	5.20	83	4586	0.431	ug/l #	67
36) 1,1-Dichloropropene	5.65	75	38671	4.801	ug/l #	49
38) Carbon Tetrachloride	5.78	117	1503	0.202	ug/l #	78
41) Methacrylonitrile	5.03	41	1188	0.240	ug/l #	49
42) 1,2-Dichloroethane	6.19	62	3095	0.370	ug/l	95
44) Trichloroethene	7.21	130	1333078	198.000	ug/l	99
45) 1,2-Dichloropropane	7.51	63	3249	0.529	ug/l	91
49) 1,4-Dioxane	7.74	88	5217	32.245	ug/l #	87
60) Dibromochloromethane	9.33	129	487011	76.410	ug/l #	11
64) Tetrachloroethene	9.33	164	561839	94.397	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	171937	22.350	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	171937	61.147	ug/l #	11

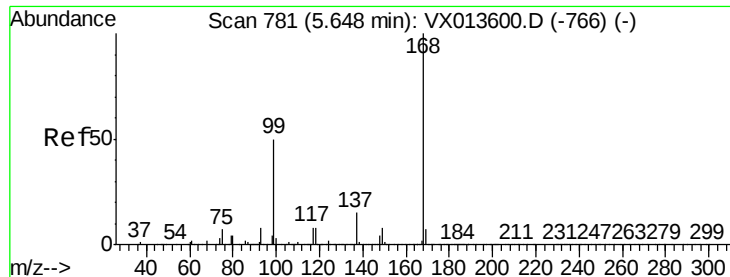
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

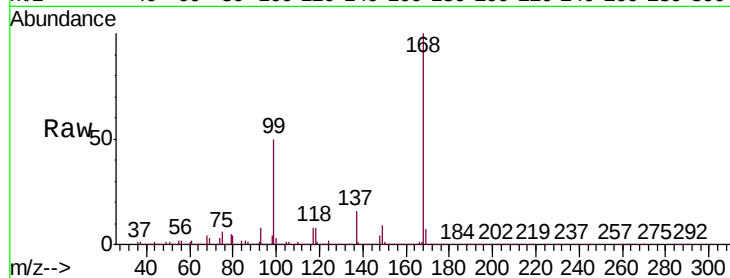
RE134D3-20191204

Tgt Ion:168 Resp: 576511

Ion Ratio Lower Upper

168 100

99 49.7 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

200000

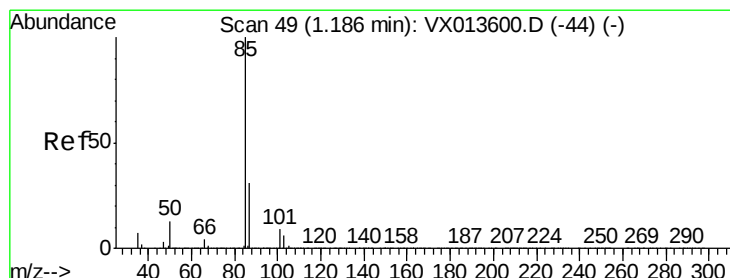
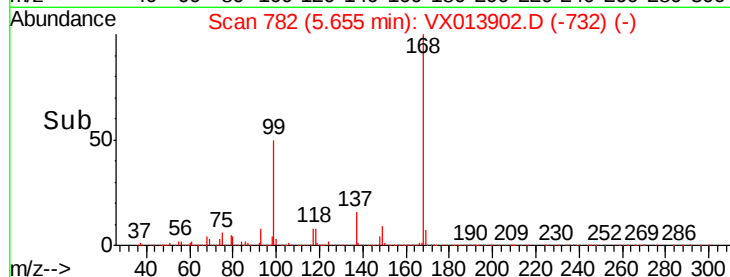
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.314 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013902.D

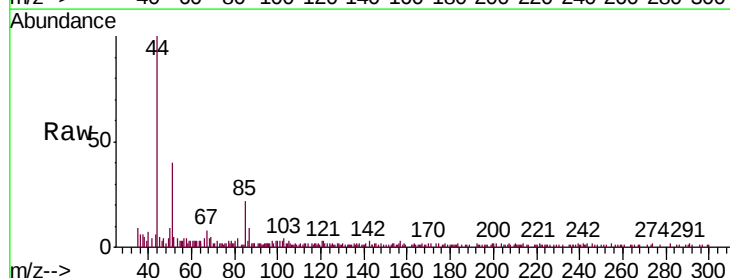
Acq: 10 Dec 2019 16:46

Tgt Ion: 85 Resp: 2017

Ion Ratio Lower Upper

85 100

87 34.0 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

2000

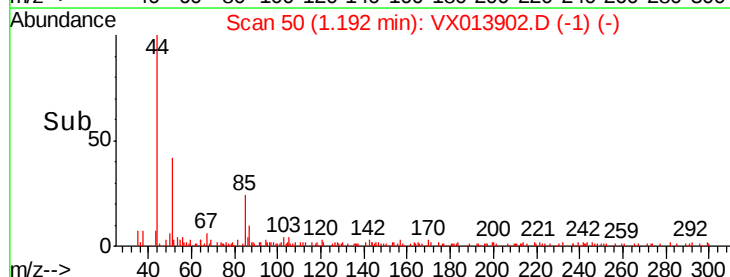
1500

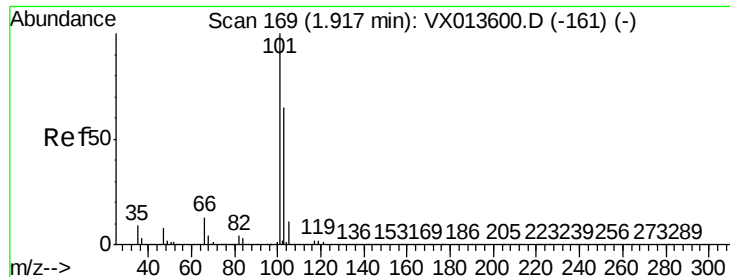
1000

500

0

Time-->



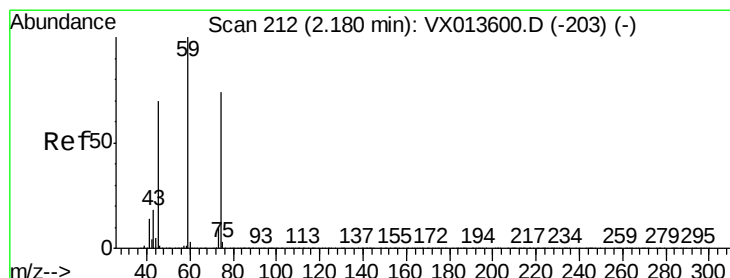
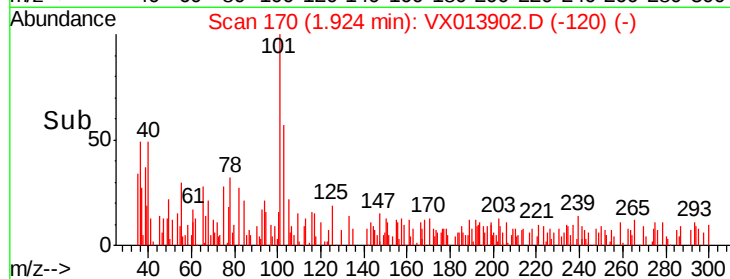
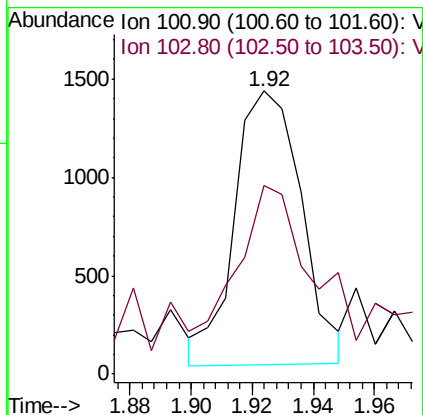
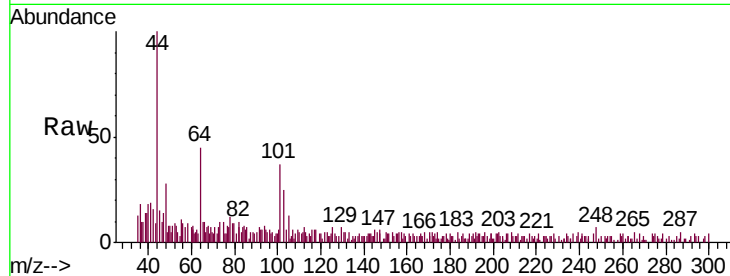


#7

Trichlorofluoromethane
Concen: 0.234 ug/l
RT: 1.92 min Scan# 170
Delta R.T. 0.01 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20191204

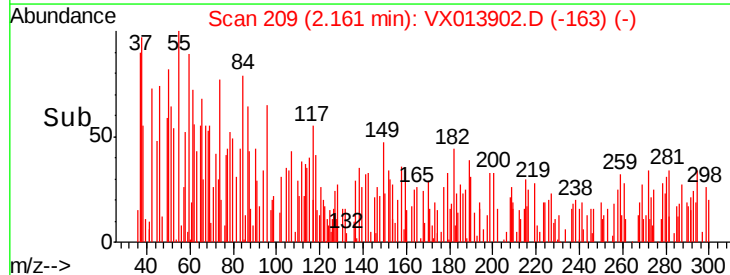
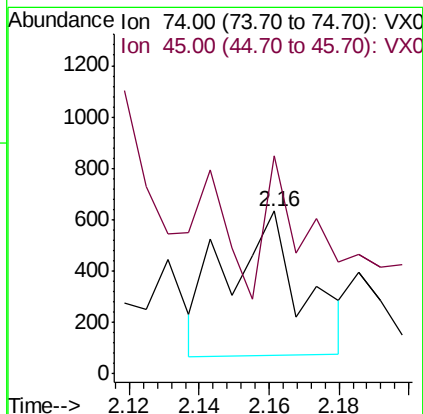
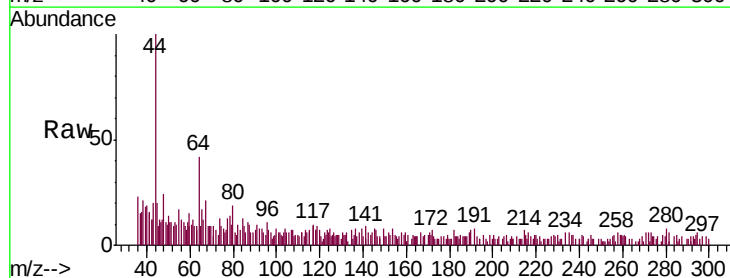
Tgt Ion: 101 Resp: 2103
Ion Ratio Lower Upper
101 100
103 60.5 51.8 77.6

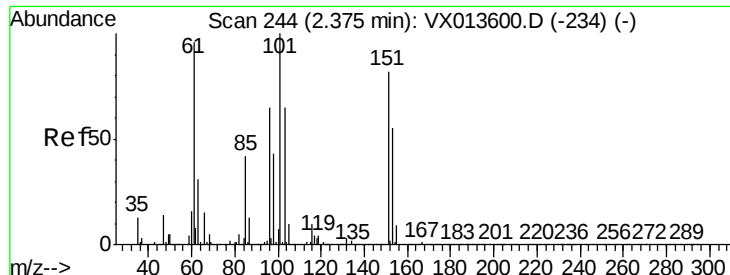


#8

Diethyl Ether
Concen: 0.204 ug/l
RT: 2.16 min Scan# 209
Delta R.T. -0.02 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

Tgt Ion: 74 Resp: 829
Ion Ratio Lower Upper
74 100
45 66.6 48.9 146.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 620.879 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

RE134D3-20191204

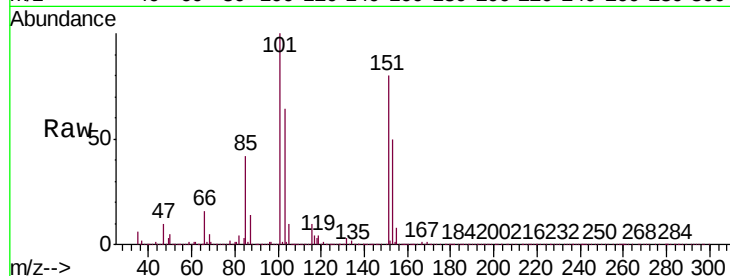
Tgt Ion:101 Resp: 3412691

Ion Ratio Lower Upper

101 100

85 42.2 33.9 50.9

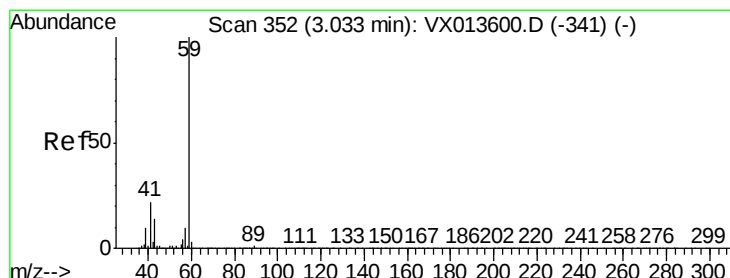
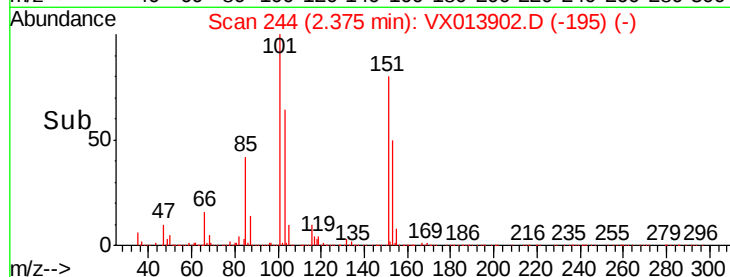
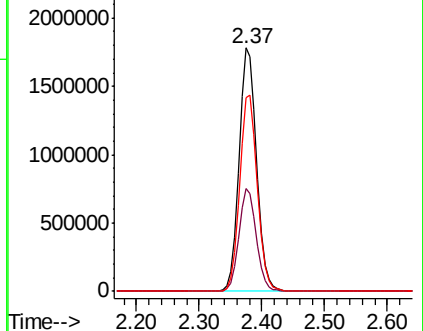
151 81.5 64.2 96.2



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



#11

Tert butyl alcohol

Concen: 1.655 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX013902.D

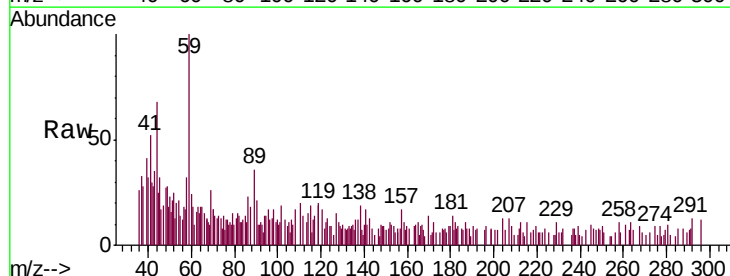
Acq: 10 Dec 2019 16:46

Tgt Ion: 59 Resp: 2733

Ion Ratio Lower Upper

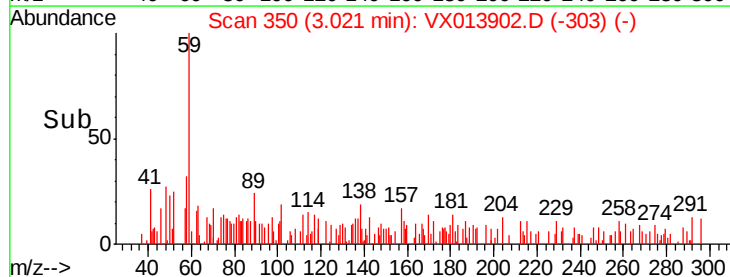
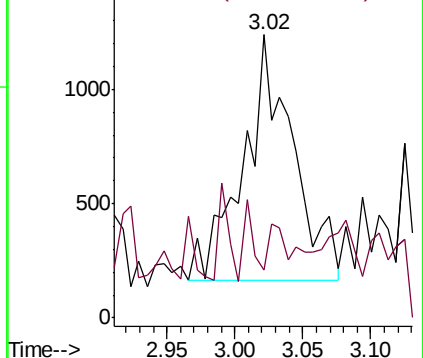
59 100

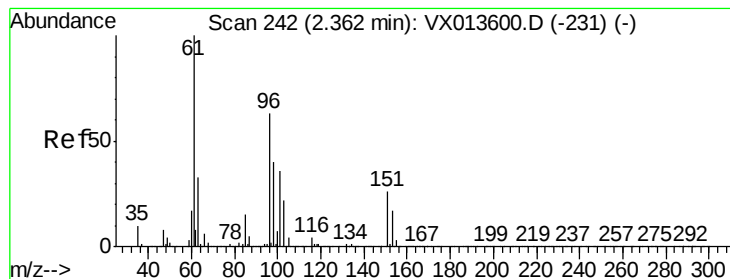
57 15.6 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 3.756 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

RE134D3-20191204

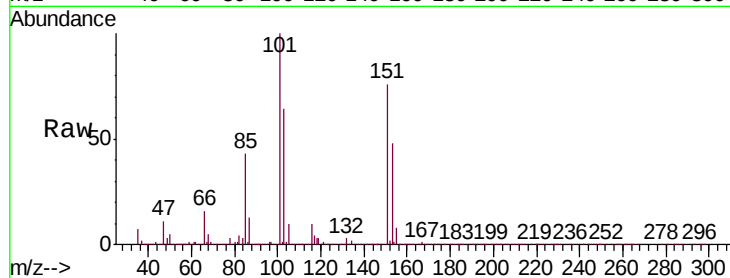
Tgt Ion: 96 Resp: 20609

Ion Ratio Lower Upper

96 100

61 143.0 126.6 190.0

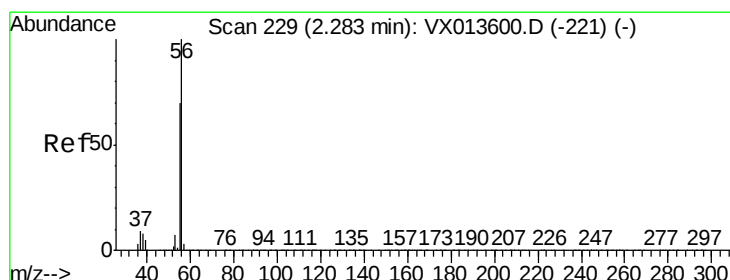
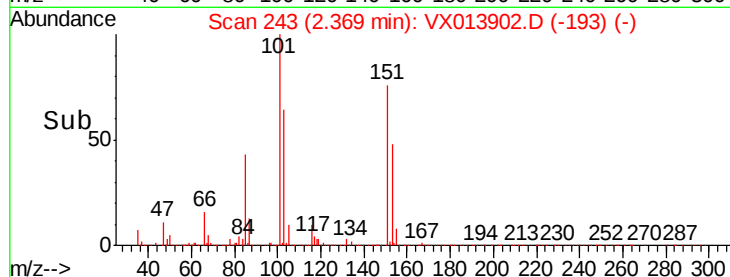
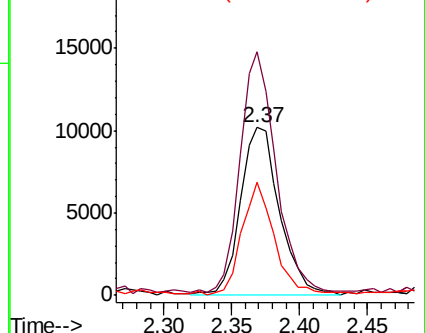
98 65.2 50.6 76.0



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



#13

Acrolein

Concen: 6.173 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013902.D

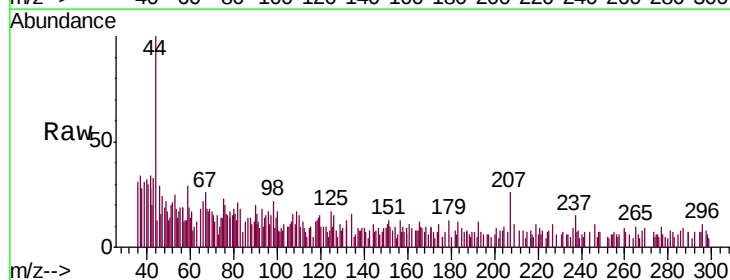
Acq: 10 Dec 2019 16:46

Tgt Ion: 56 Resp: 191

Ion Ratio Lower Upper

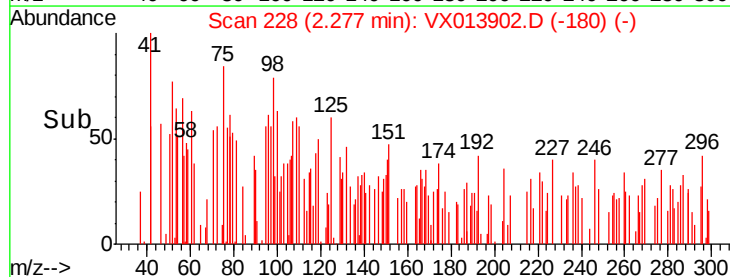
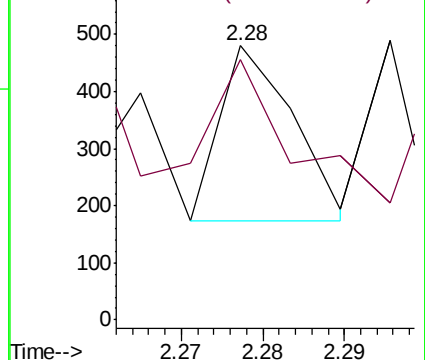
56 100

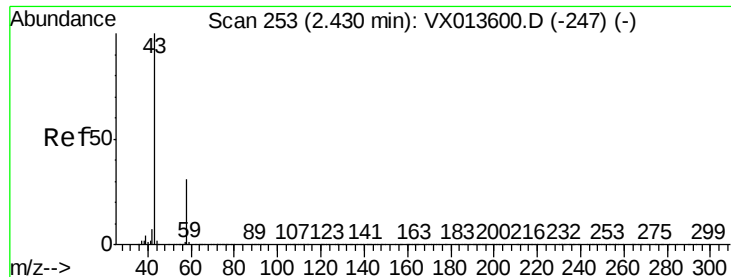
55 78.0 56.2 84.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

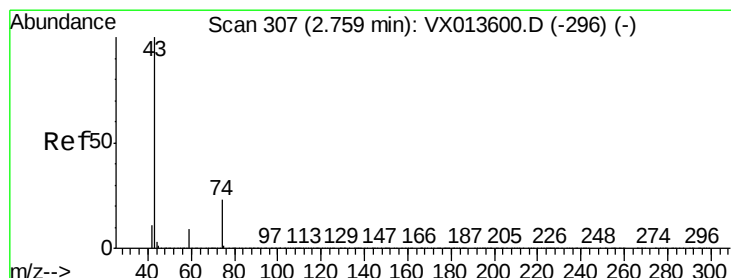
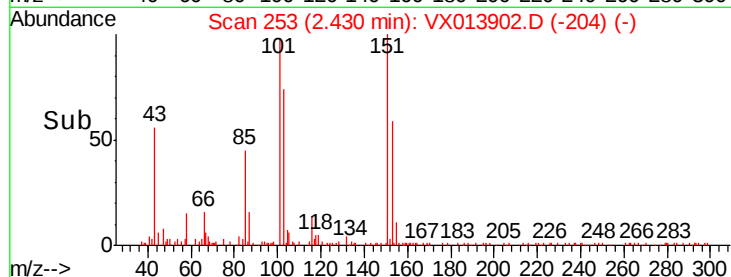
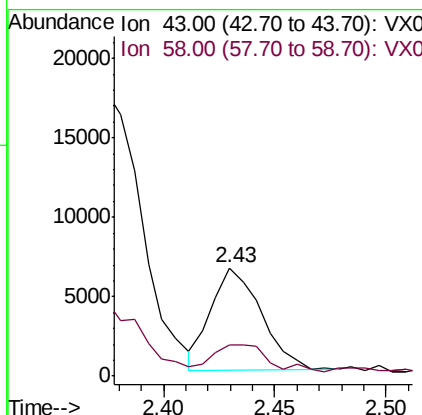
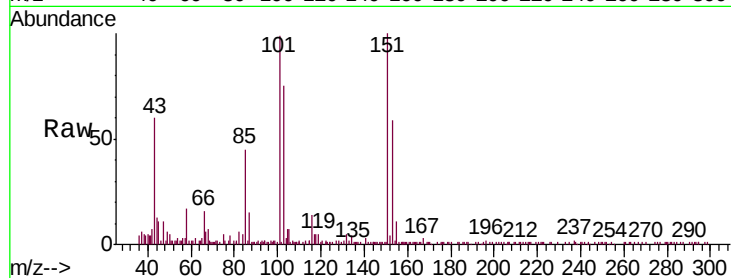




#16
Acetone
Concen: 3.019 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

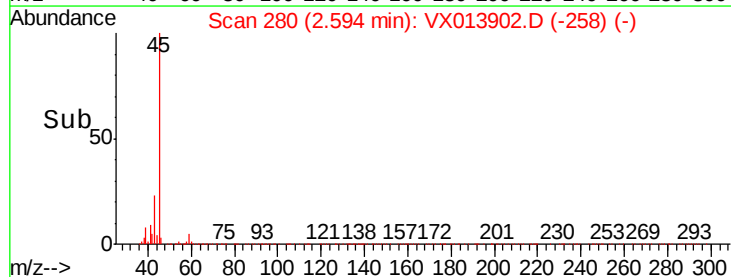
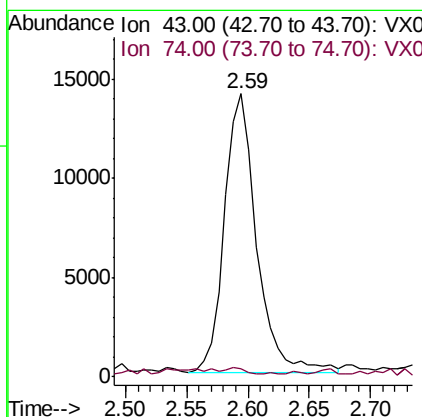
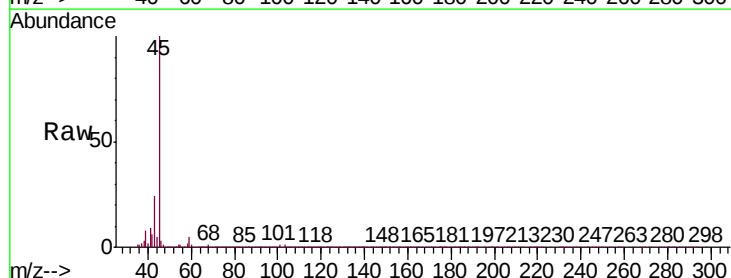
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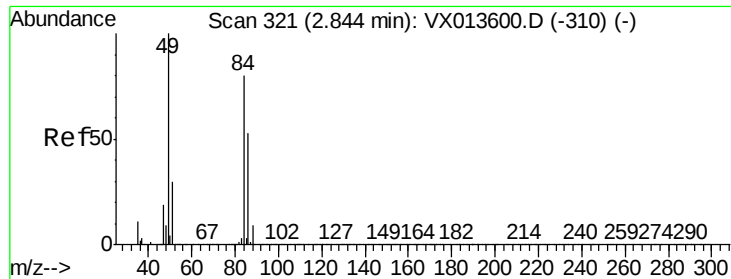
Tgt Ion: 43 Resp: 9976
Ion Ratio Lower Upper
43 100
58 22.6 24.6 36.8#



#18
Methyl Acetate
Concen: 2.774 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

Tgt Ion: 43 Resp: 25522
Ion Ratio Lower Upper
43 100
74 1.4 19.5 29.3#

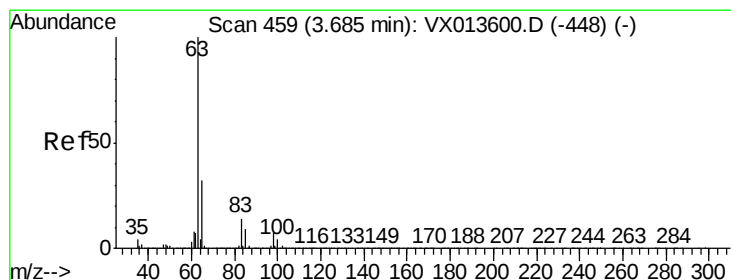
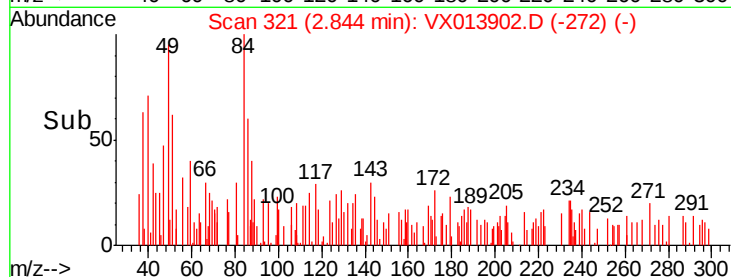
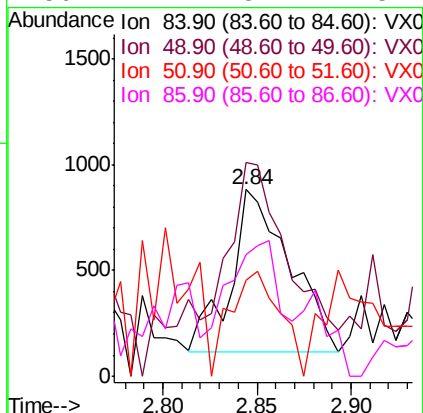
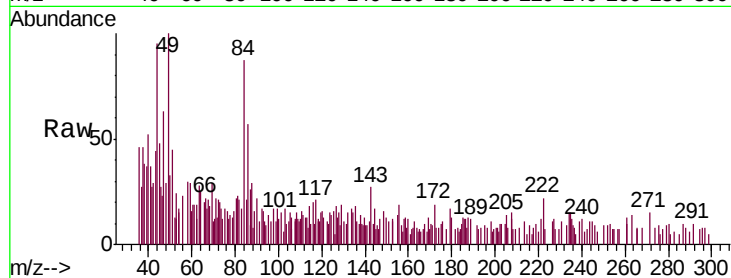




#20
Methylene Chloride
Concen: 0.263 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

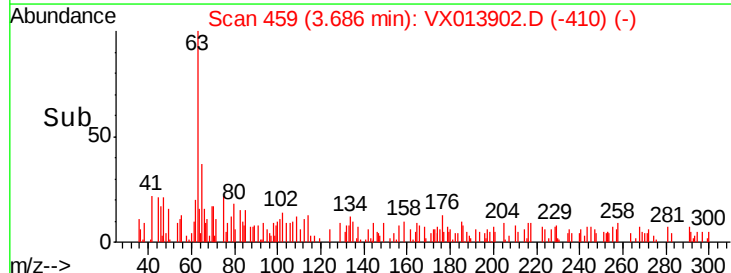
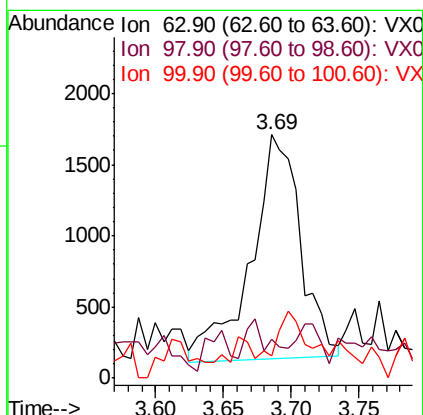
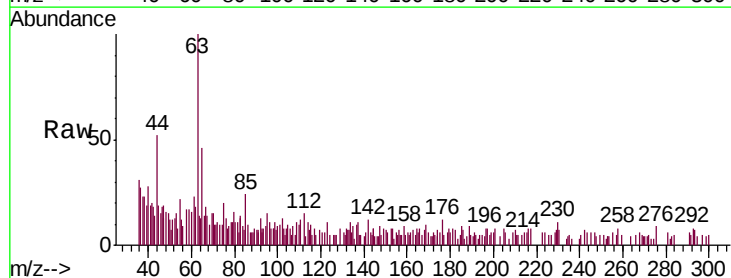
Instrument :
MSVOA_X
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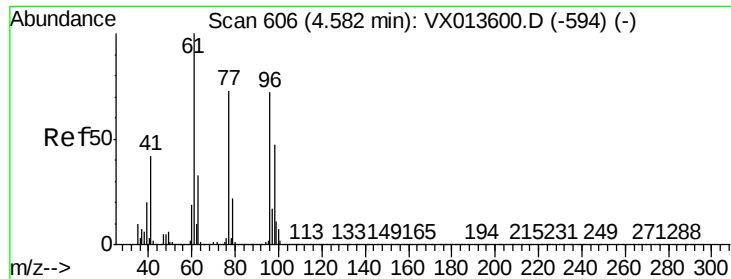
Tgt Ion: 84 Resp: 1670
Ion Ratio Lower Upper
84 100
49 104.3 99.7 149.5
51 5.1 29.9 44.9#
86 47.4 52.2 78.4#



#24
1,1-Dichloroethane
Concen: 0.383 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

Tgt Ion: 63 Resp: 4014
Ion Ratio Lower Upper
63 100
98 0.4 3.5 10.4#
100 2.0 2.1 6.3#

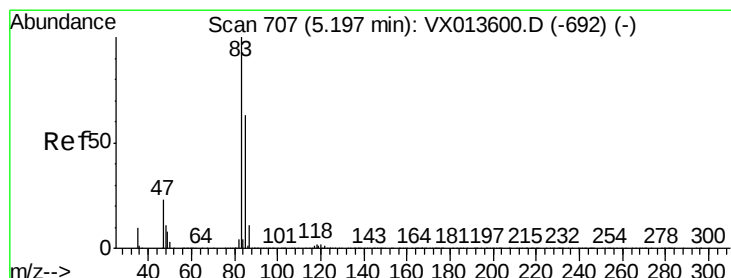
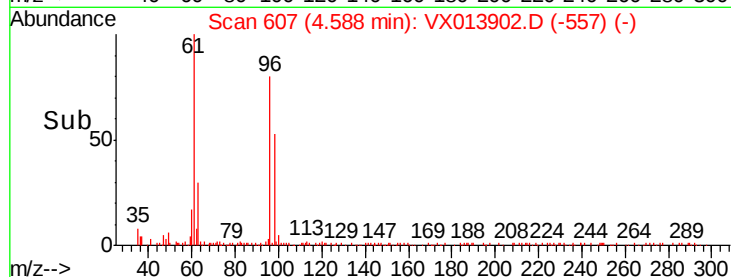
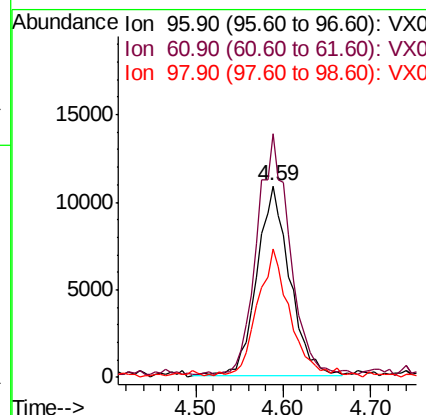
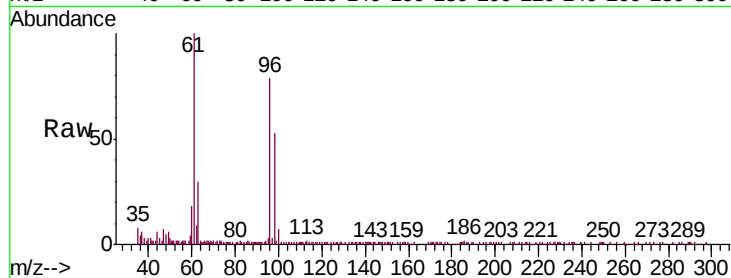




#27
 cis-1,2-Dichloroethene
 Concen: 4.159 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013902.D
 Acq: 10 Dec 2019 16:46

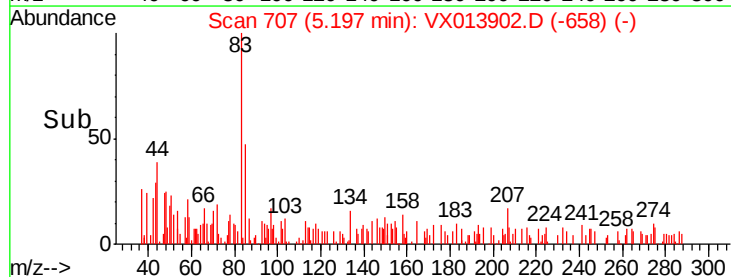
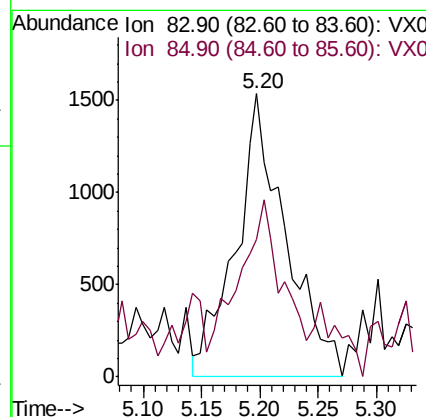
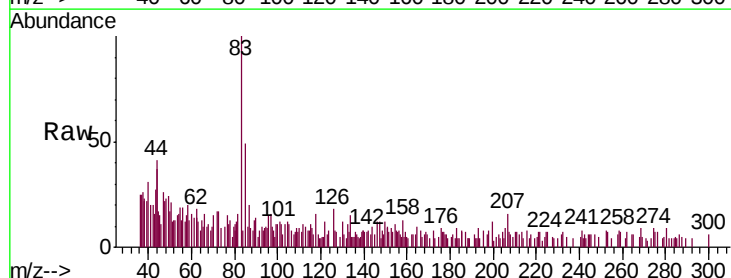
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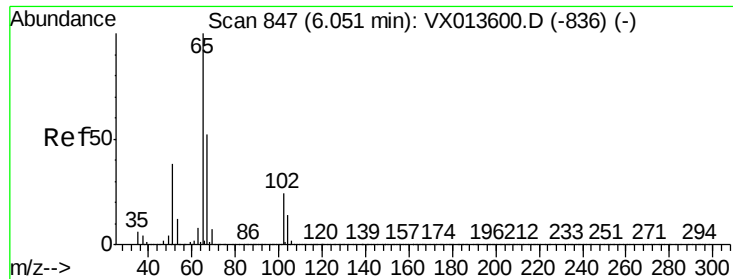
Tgt Ion	Ratio	Lower	Upper
96	100		
61	123.0	0.0	286.4
98	68.3	0.0	127.4



#30
 Chloroform
 Concen: 0.431 ug/l
 RT: 5.20 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VX013902.D
 Acq: 10 Dec 2019 16:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	37.6	50.2	75.4#





#33

1,2-Dichloroethane-d4

Concen: 48.337 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

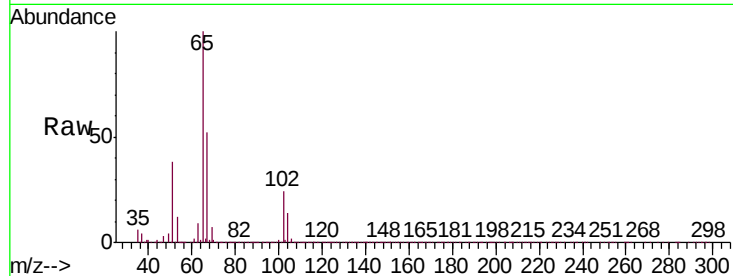
RE134D3-20191204

Tgt Ion: 65 Resp: 323472

Ion Ratio Lower Upper

65 100

67 52.6 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

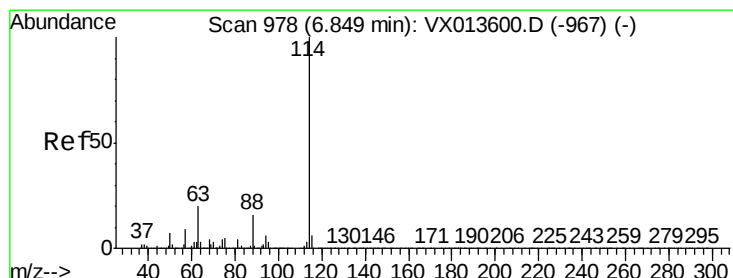
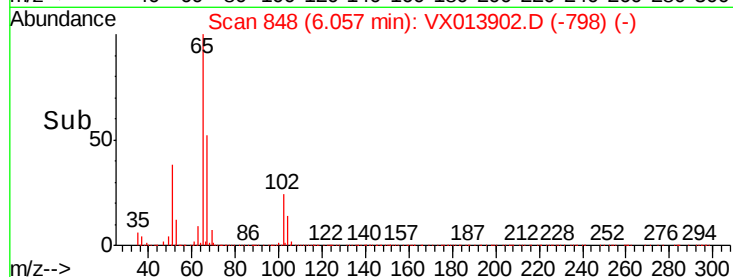
6.06

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

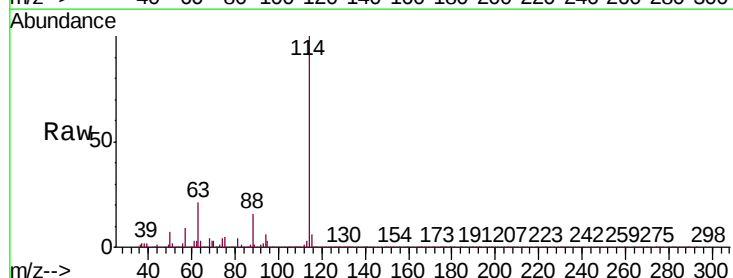
Tgt Ion: 114 Resp: 887326

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.6

88 15.5 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

500000

400000

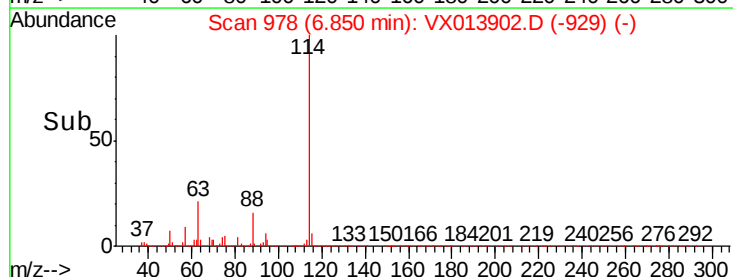
300000

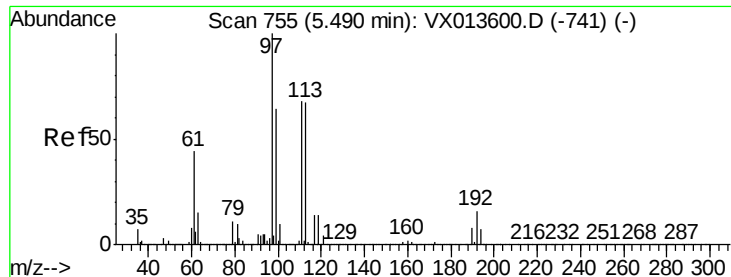
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.825 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

RE134D3-20191204

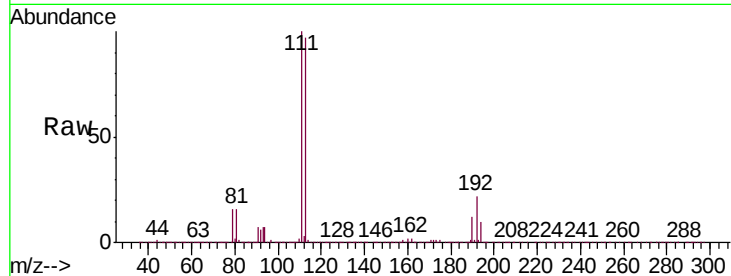
Tgt Ion:113 Resp: 267830

Ion Ratio Lower Upper

113 100

111 102.5 83.6 125.4

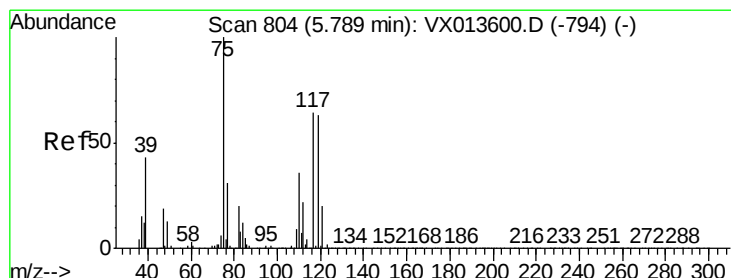
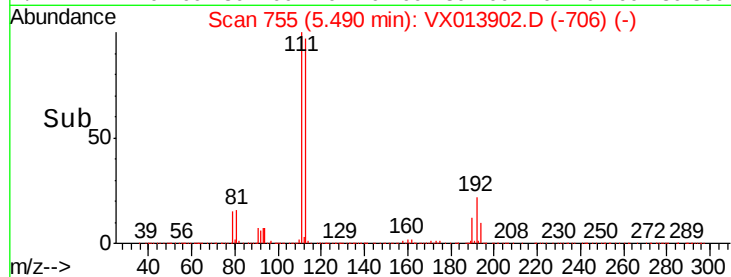
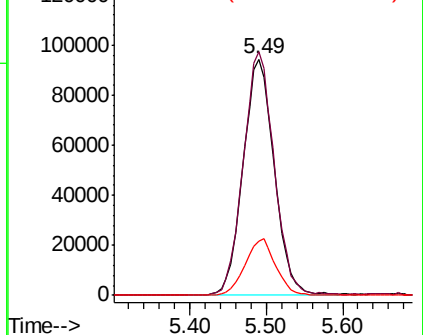
192 23.5 19.2 28.8



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: 4.801 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

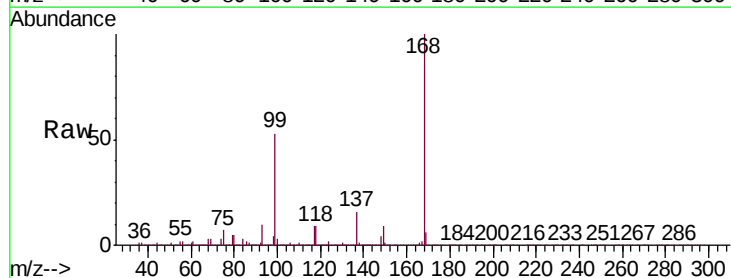
Tgt Ion: 75 Resp: 38671

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.1#

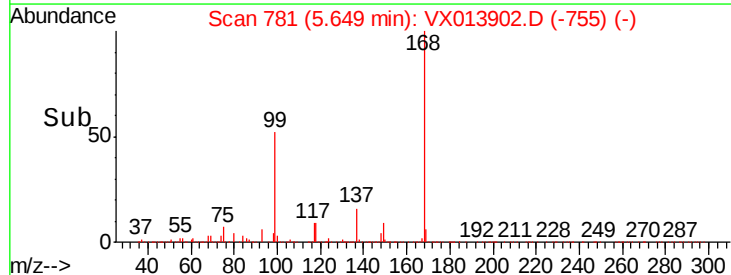
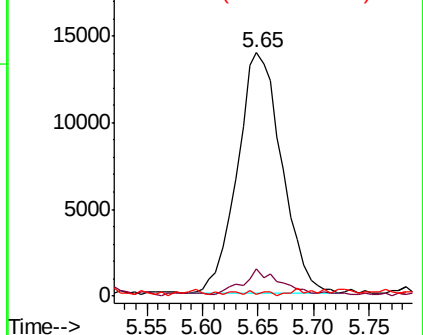
77 0.0 24.5 36.7#

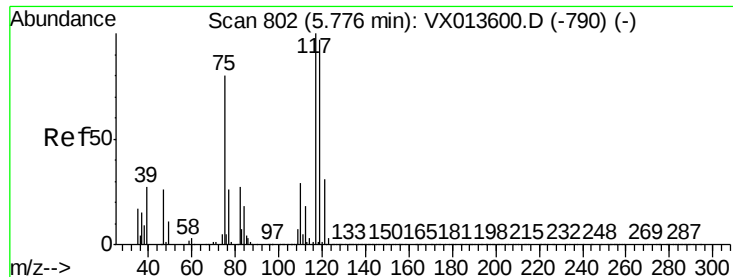


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.202 ug/l

RT: 5.78 min Scan# 803

Delta R.T. 0.01 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

RE134D3-20191204

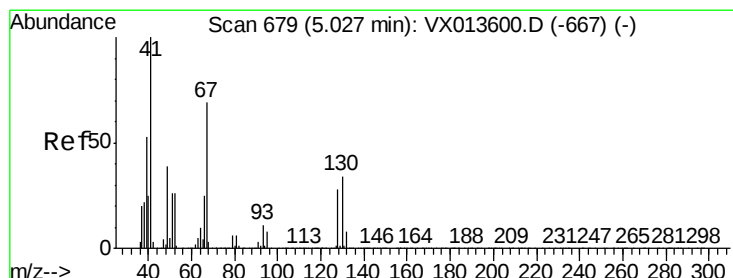
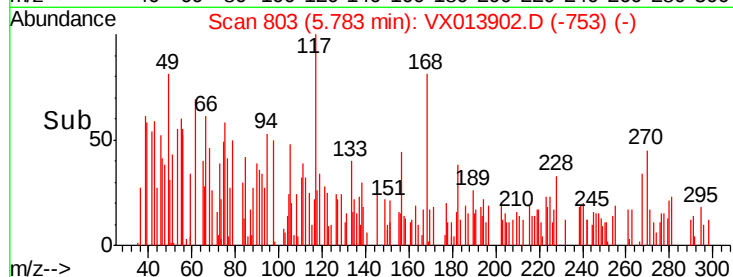
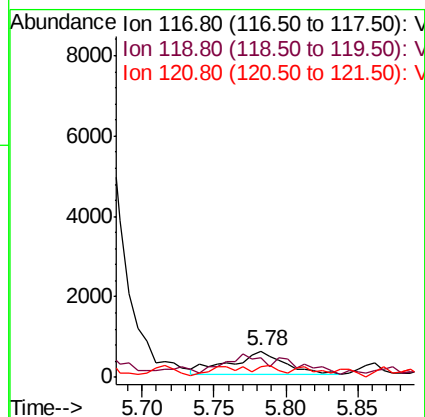
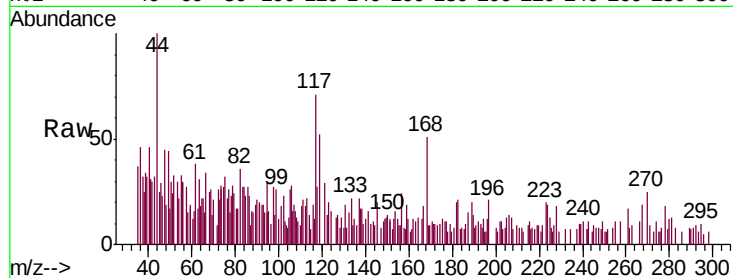
Tgt Ion: 117 Resp: 1503

Ion Ratio Lower Upper

117 100

119 72.0 77.5 116.3#

121 37.3 25.0 37.6



#41

Methacrylonitrile

Concen: 0.240 ug/l

RT: 5.03 min Scan# 680

Delta R.T. 0.01 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Tgt Ion: 41 Resp: 1188

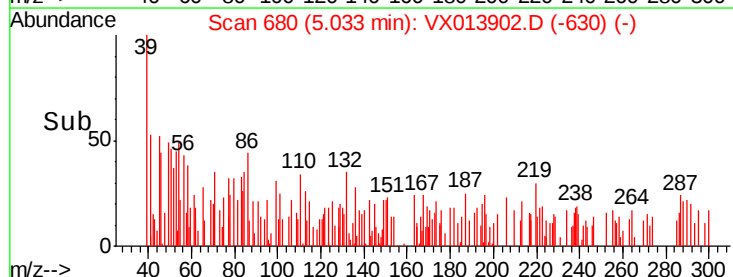
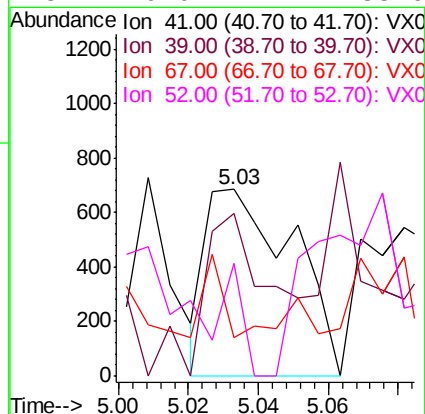
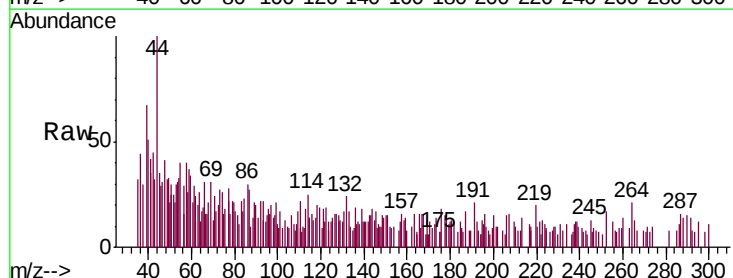
Ion Ratio Lower Upper

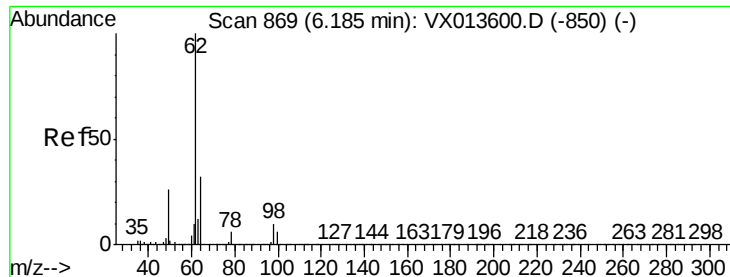
41 100

39 69.3 42.9 64.3#

67 12.6 57.4 86.0#

52 0.0 22.4 33.6#





#42

1,2-Dichloroethane

Concen: 0.370 ug/l

RT: 6.19 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

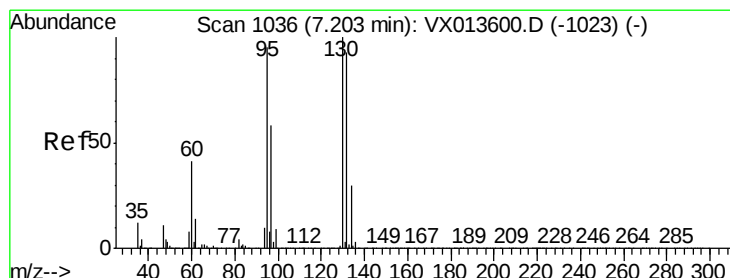
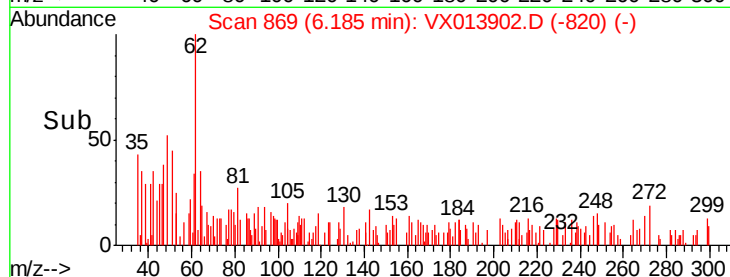
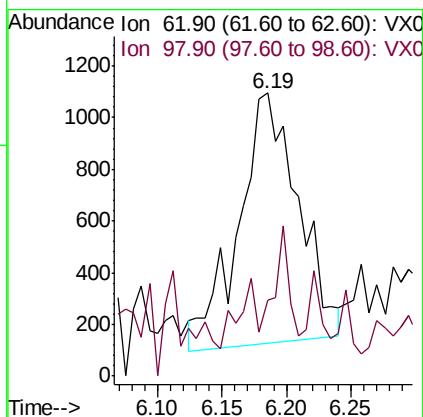
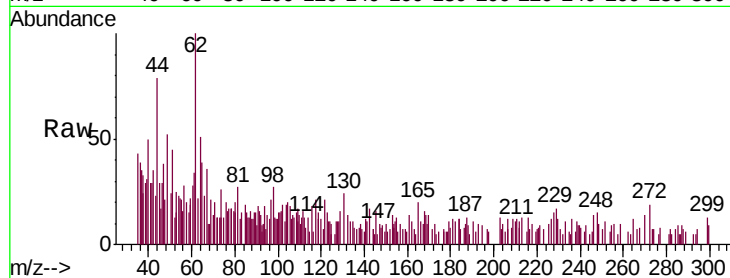
RE134D3-20191204

Tgt Ion: 62 Resp: 3095

Ion Ratio Lower Upper

62 100

98 8.4 0.0 20.8



#44

Trichloroethene

Concen: 198.000 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013902.D

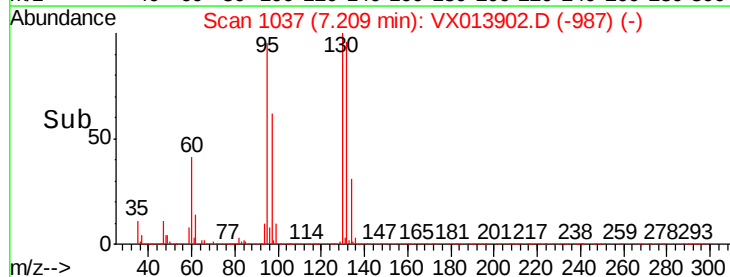
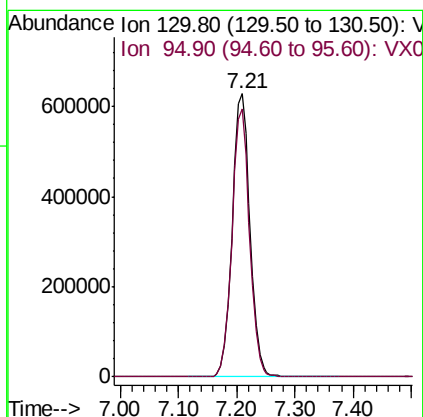
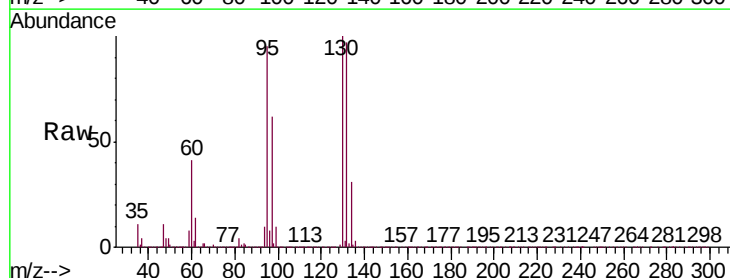
Acq: 10 Dec 2019 16:46

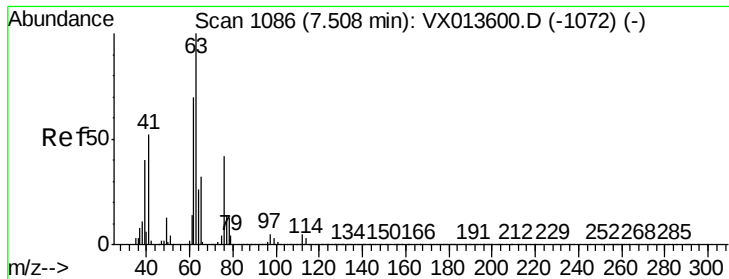
Tgt Ion: 130 Resp: 1333078

Ion Ratio Lower Upper

130 100

95 94.7 0.0 190.8

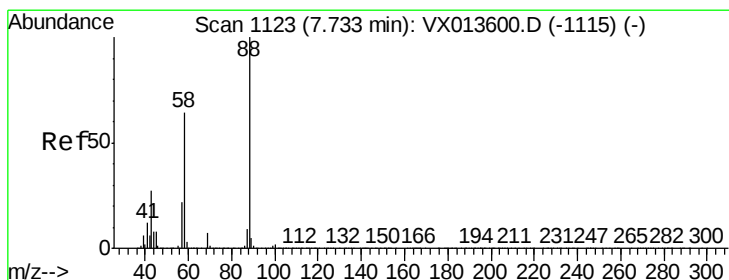
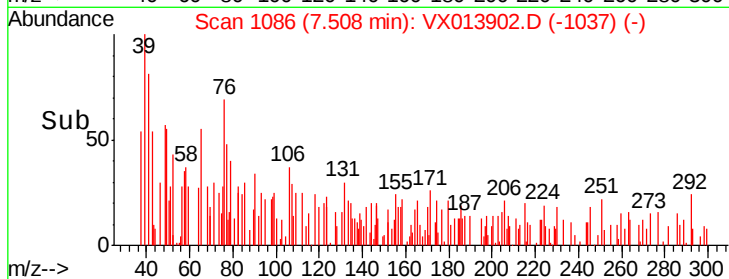
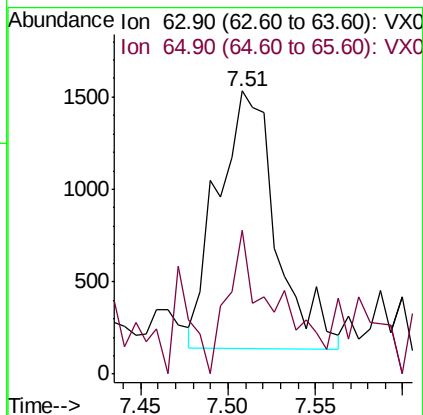
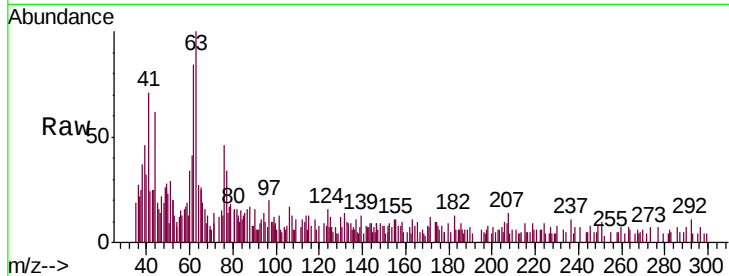




#45
 1,2-Dichloropropane
 Concen: 0.529 ug/l
 RT: 7.51 min Scan# 1086
 Delta R.T. 0.00 min
 Lab File: VX013902.D
 Acq: 10 Dec 2019 16:46

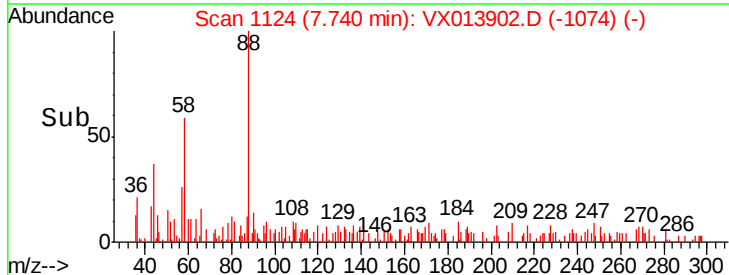
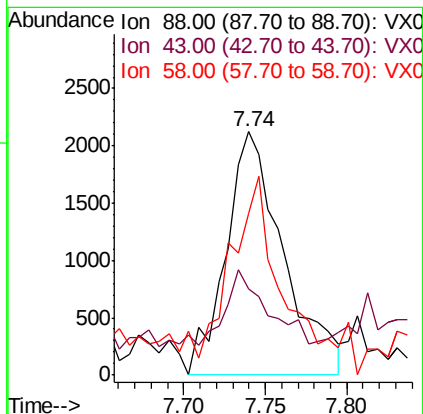
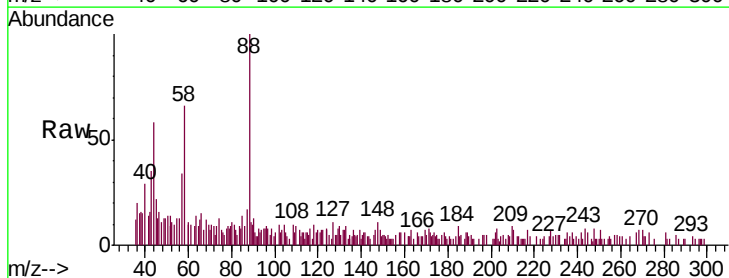
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D3-20191204

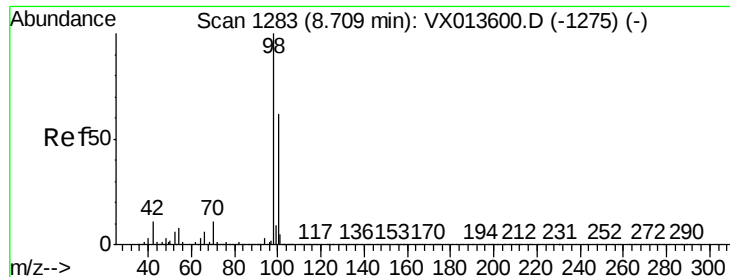
Tgt Ion: 63 Resp: 3249
 Ion Ratio Lower Upper
 63 100
 65 37.0 25.5 38.3



#49
 1,4-Dioxane
 Concen: 32.245 ug/l
 RT: 7.74 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VX013902.D
 Acq: 10 Dec 2019 16:46

Tgt Ion: 88 Resp: 5217
 Ion Ratio Lower Upper
 88 100
 43 22.4 25.8 38.6#
 58 76.8 54.6 82.0





#50

Toluene-d8

Concen: 49.282 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

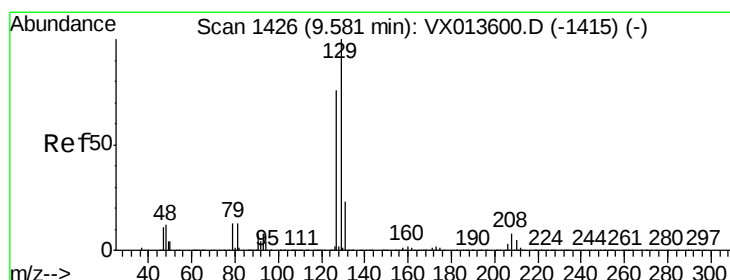
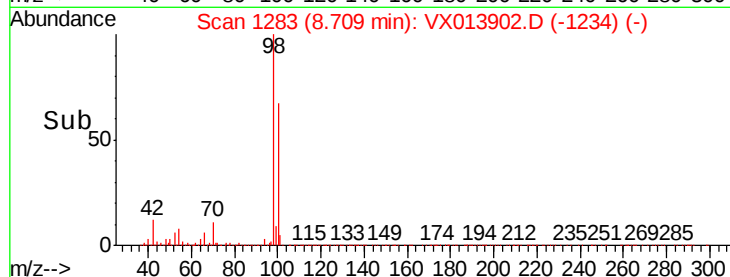
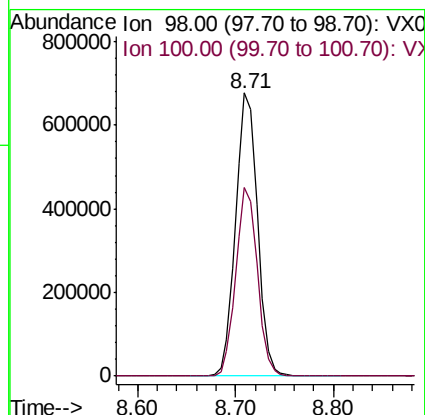
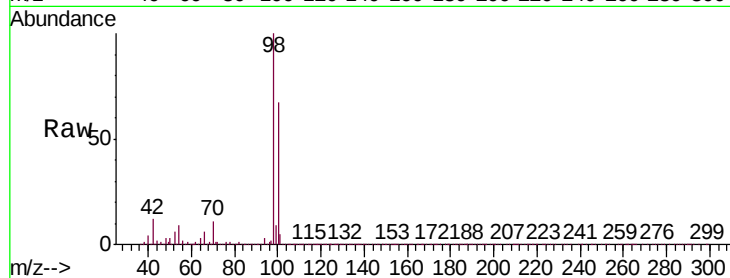
RE134D3-20191204

Tgt Ion: 98 Resp: 1053265

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7



#60

Dibromochloromethane

Concen: 76.410 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013902.D

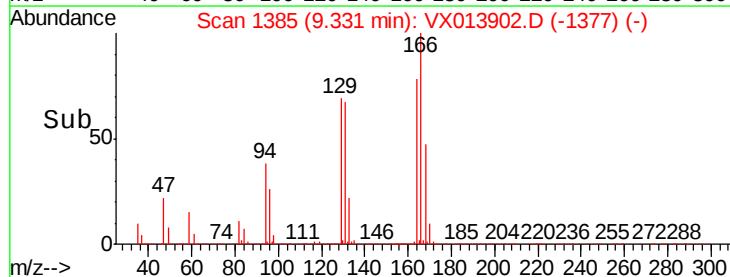
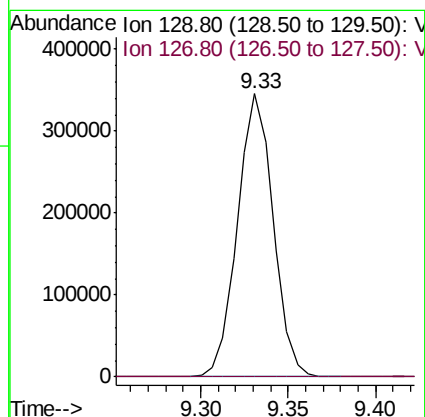
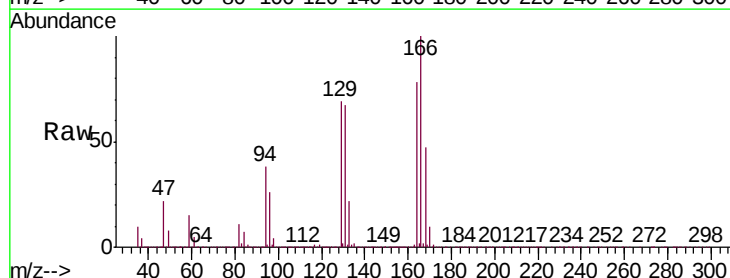
Acq: 10 Dec 2019 16:46

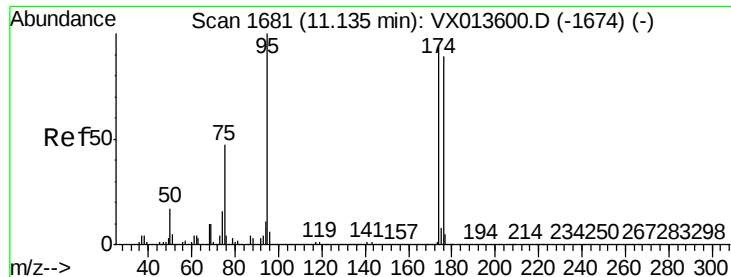
Tgt Ion: 129 Resp: 487011

Ion Ratio Lower Upper

129 100

127 0.2 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 45.463 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

RE134D3-20191204

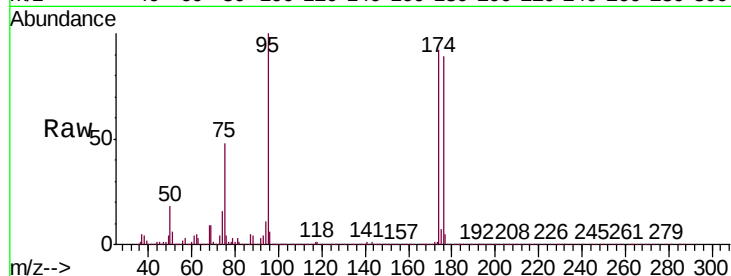
Tgt Ion: 95 Resp: 350377

Ion Ratio Lower Upper

95 100

174 89.2 0.0 180.0

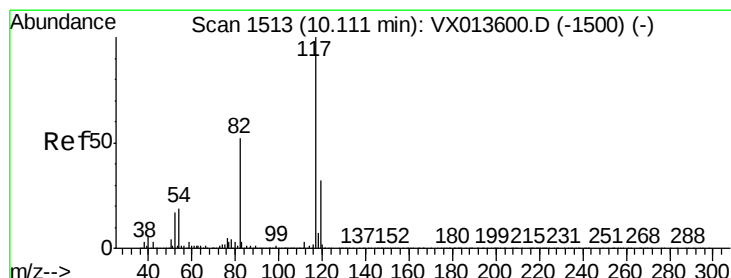
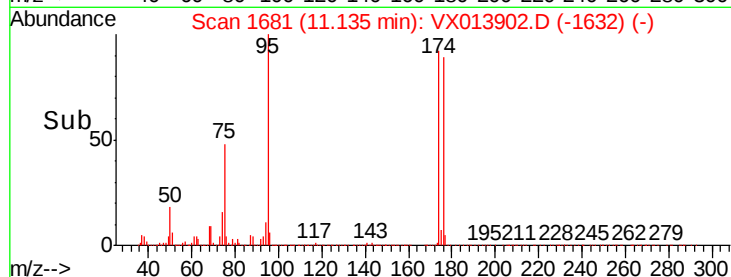
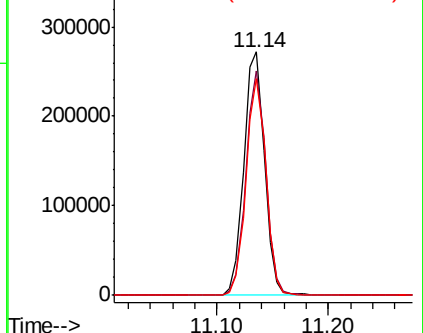
176 86.3 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

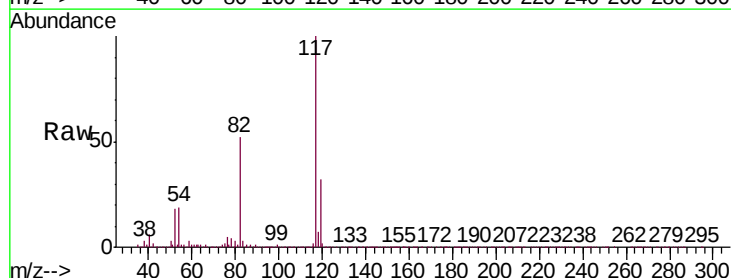
Tgt Ion: 117 Resp: 798119

Ion Ratio Lower Upper

117 100

82 52.5 41.8 62.8

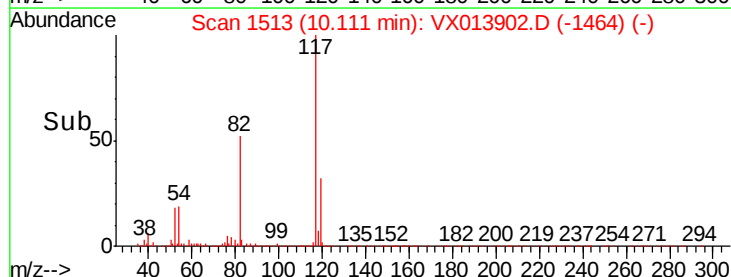
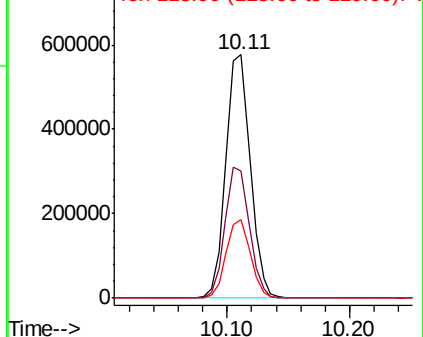
119 32.4 25.8 38.8

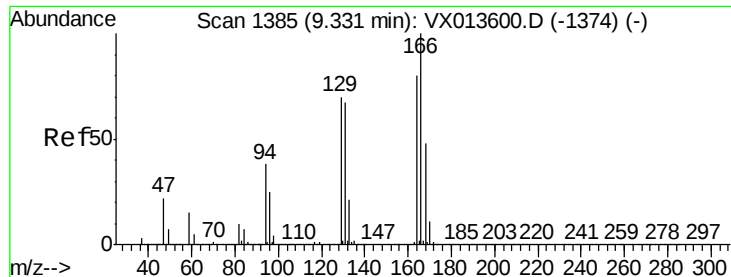


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)

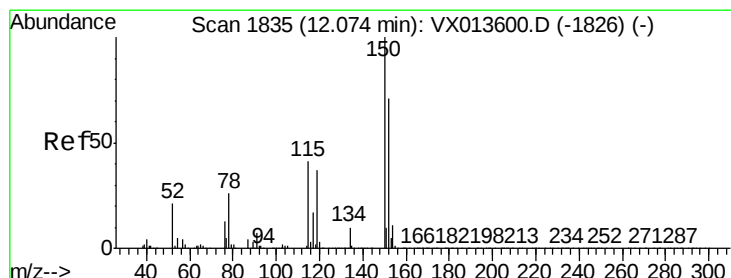
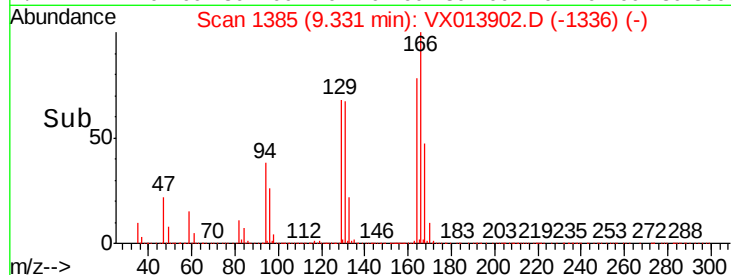
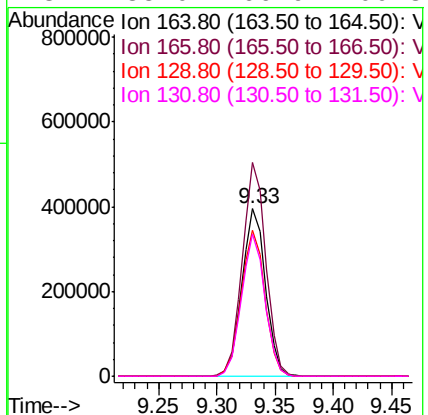
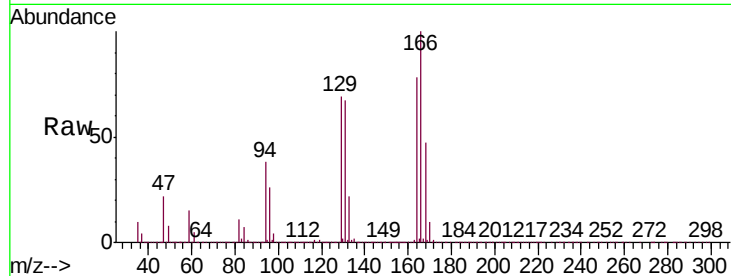




#64
Tetrachloroethene
Concen: 94.397 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

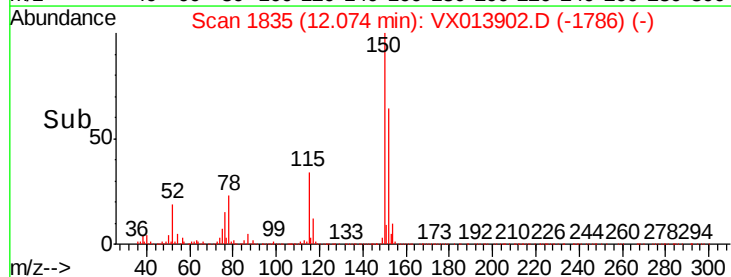
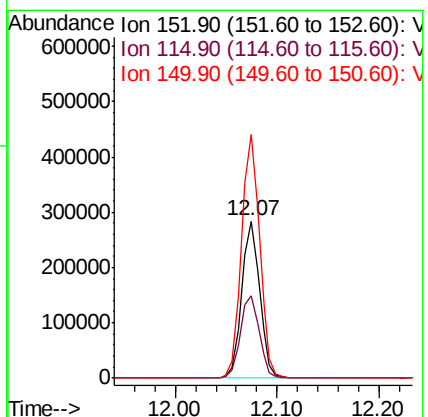
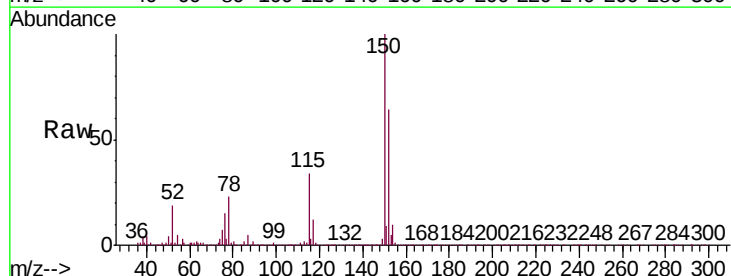
Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20191204

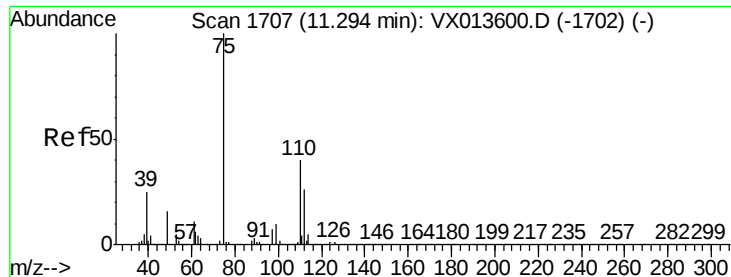
Tgt Ion:	164	Resp:	561839
Ion	Ratio	Lower	Upper
164	100		
166	127.6	99.7	149.5
129	87.4	70.1	105.1
131	85.0	66.9	100.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013902.D
Acq: 10 Dec 2019 16:46

Tgt Ion:	152	Resp:	342027
Ion	Ratio	Lower	Upper
152	100		
115	55.0	38.4	115.1
150	157.4	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 22.350 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

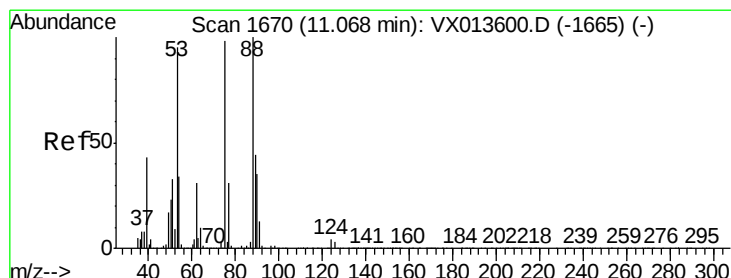
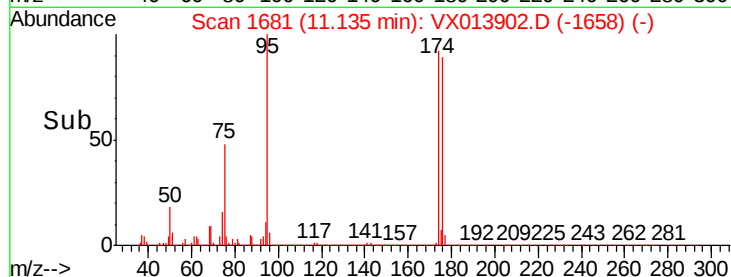
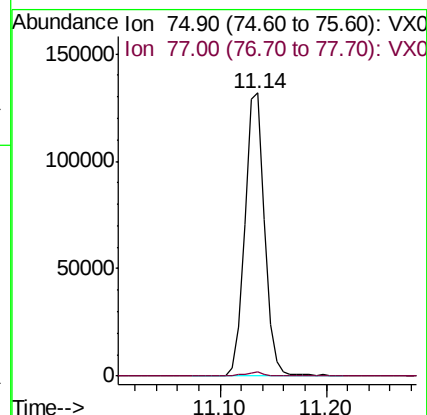
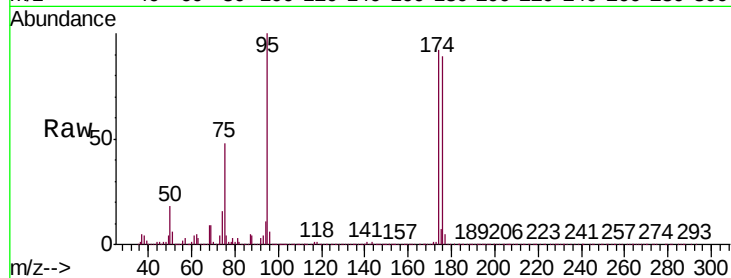
RE134D3-20191204

Tgt Ion: 75 Resp: 171937

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.147 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013902.D

Acq: 10 Dec 2019 16:46

Tgt Ion: 75 Resp: 171937

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.0 35.4 53.2#

