

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX030920\
 Data File : VX015147.D
 Acq On : 09 Mar 2020 16:52
 Operator : JC/SP
 Sample : L1842-20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20200305

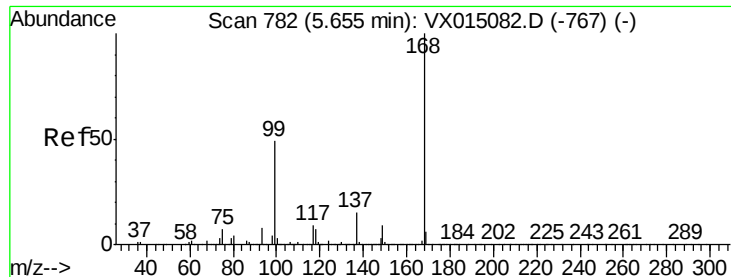
Quant Time: Mar 10 11:21:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	343041	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	568030	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	552164	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	278314	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	214136	52.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.24%	
35) Dibromofluoromethane	5.49	113	175865	49.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.16%	
50) Toluene-d8	8.71	98	692973	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
62) 4-Bromofluorobenzene	11.13	95	250154	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1165	0.39	ug/l #	60
3) Chloromethane	1.32	50	1977	0.46	ug/l #	86
5) Bromomethane	1.65	94	570	0.21	ug/l #	50
9) 1,1,2-Trichlorotrifluoroet	2.38	101	595113	184.24	ug/l	99
11) Tert butyl alcohol	3.04	59	295	0.42	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	3965	1.19	ug/l	89
16) Acetone	2.44	43	2149	1.30	ug/l #	86
27) cis-1,2-Dichloroethene	4.59	96	3526	0.88	ug/l	89
29) Tetrahydrofuran	5.09	42	676	0.43	ug/l #	49
32) 1,1,1-Trichloroethane	5.50	97	1160	0.22	ug/l #	40
36) 1,1-Dichloropropene	5.65	75	25486	4.85	ug/l #	41
38) Carbon Tetrachloride	5.78	117	1169	0.24	ug/l #	61
44) Trichloroethene	7.20	130	98029	22.59	ug/l	100
49) 1,4-Dioxane	7.75	88	514	5.45	ug/l #	35
60) Dibromochloromethane	9.33	129	24917	6.05	ug/l #	11
64) Tetrachloroethene	9.33	164	29285	6.41	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	125706	22.64	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	125706	64.26	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.12	75	242	0.20	ug/l	77
95) Naphthalene	13.84	128	361	1.44	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

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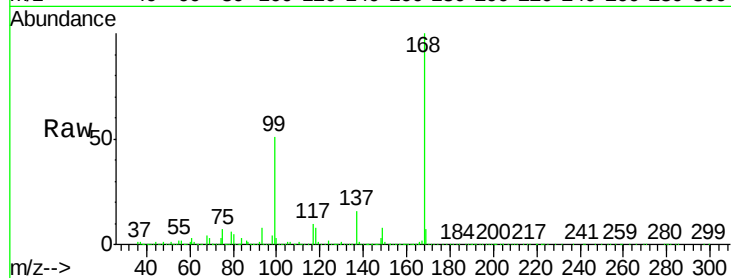
RE134D4-20200305

Tgt Ion:168 Resp: 343041

Ion Ratio Lower Upper

168 100

99 50.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

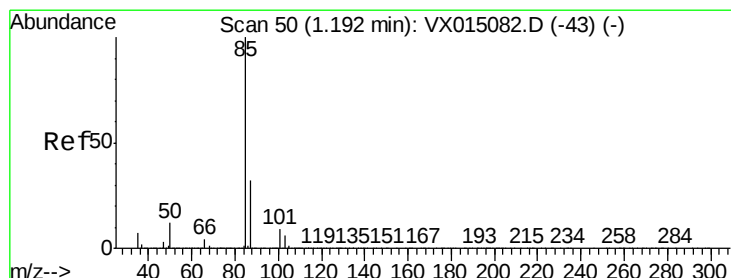
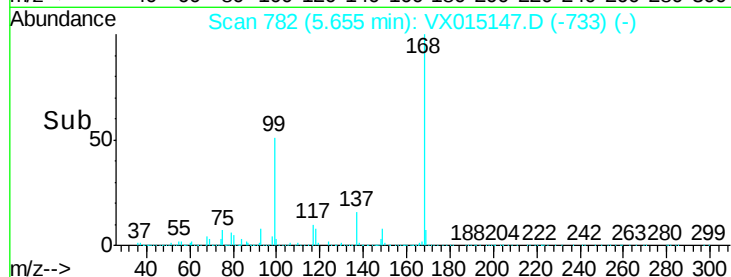
5.65

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.39 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015147.D

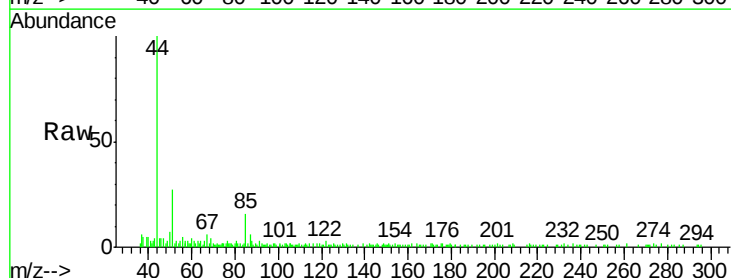
Acq: 09 Mar 2020 16:52

Tgt Ion: 85 Resp: 1165

Ion Ratio Lower Upper

85 100

87 54.8 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

1200

1000

800

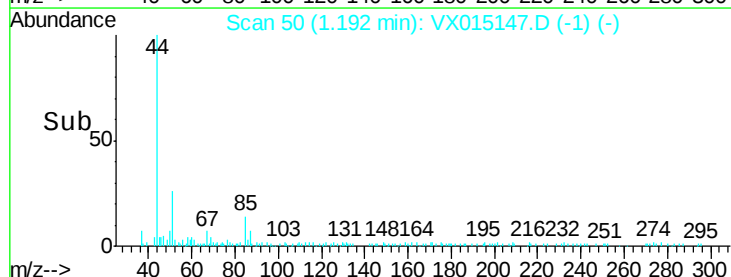
600

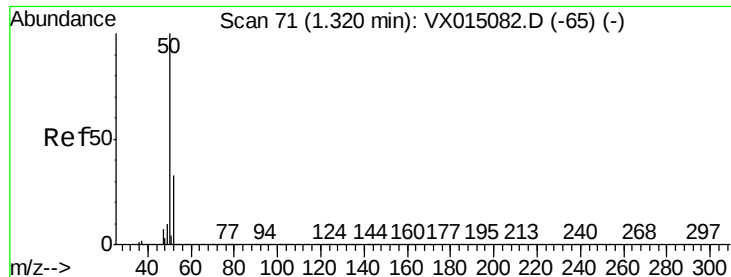
400

200

0

Time-->





#3

Chloromethane

Concen: 0.46 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

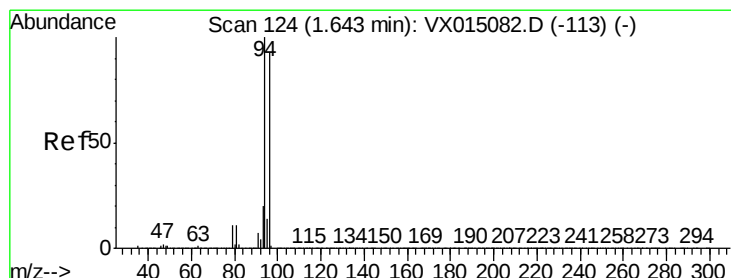
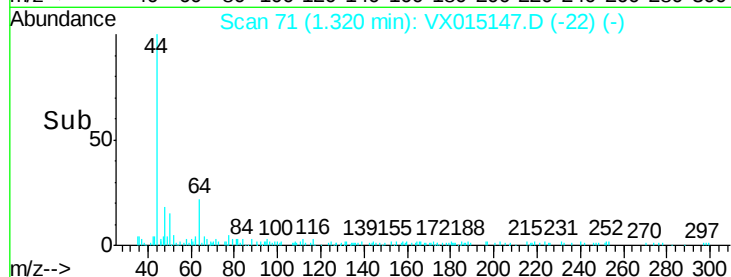
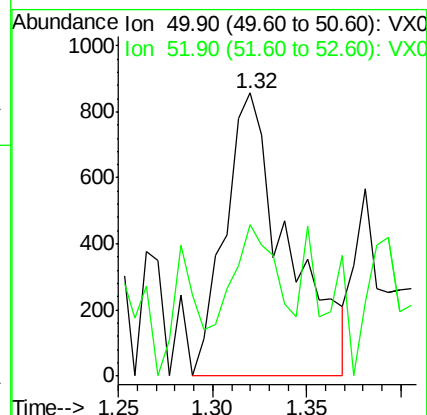
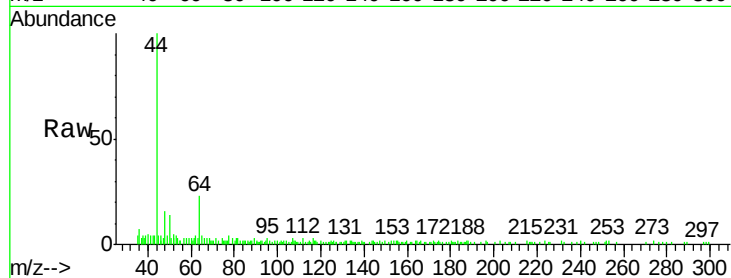
RE134D4-20200305

Tgt Ion: 50 Resp: 1977

Ion Ratio Lower Upper

50 100

52 24.9 26.2 39.2#



#5

Bromomethane

Concen: 0.21 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015147.D

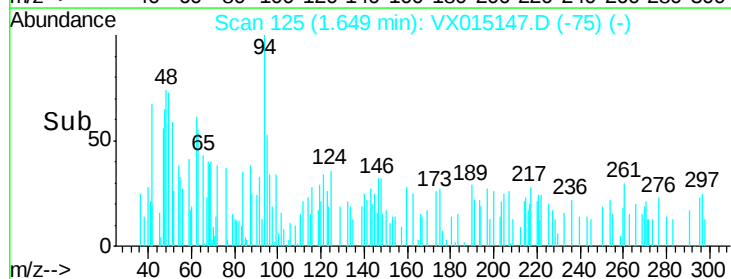
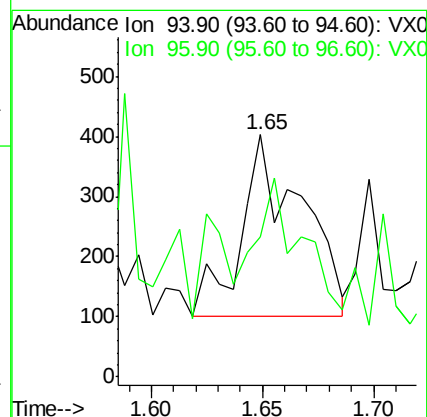
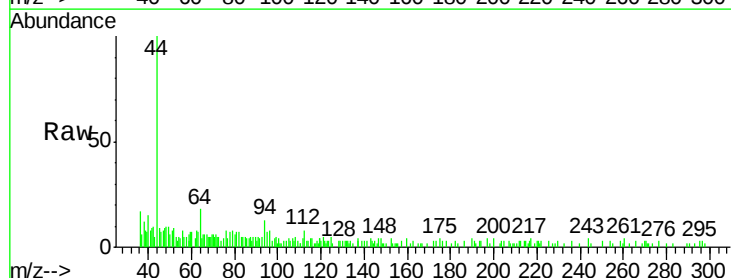
Acq: 09 Mar 2020 16:52

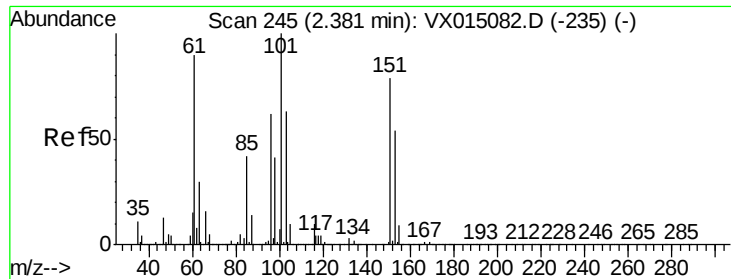
Tgt Ion: 94 Resp: 570

Ion Ratio Lower Upper

94 100

96 45.2 74.6 111.8#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 184.24 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

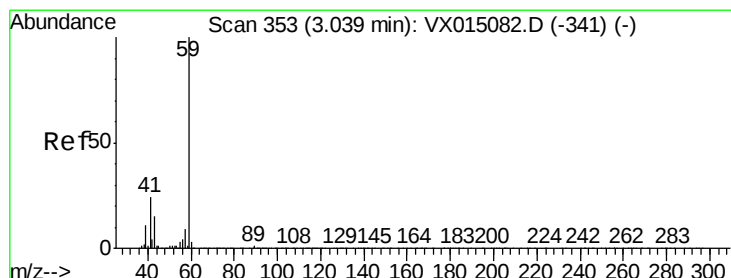
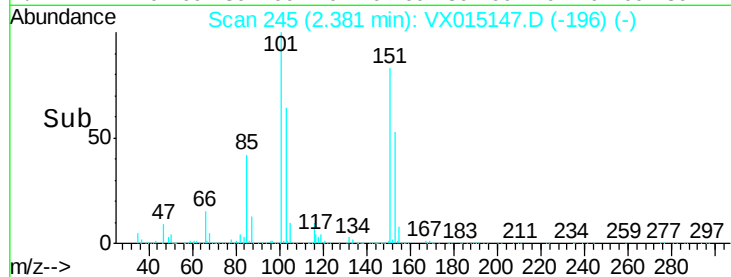
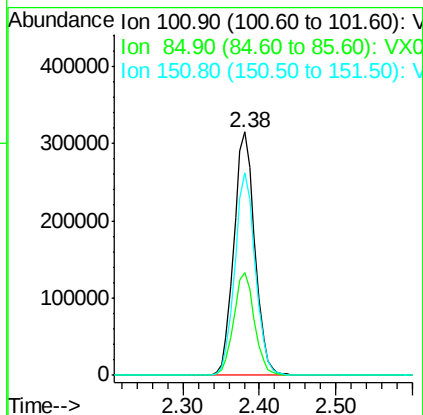
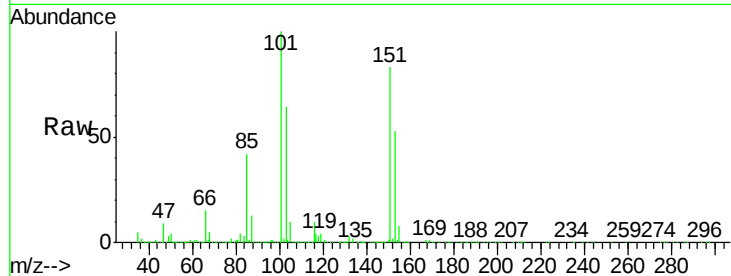
Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20200305

Tgt Ion:	101	Resp:	595113
Ion	Ratio	Lower	Upper
101	100		
85	42.0	33.7	50.5
151	81.7	64.0	96.0



#11

Tert butyl alcohol

Concen: 0.42 ug/l

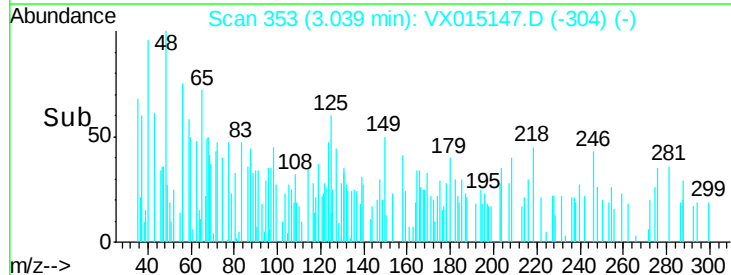
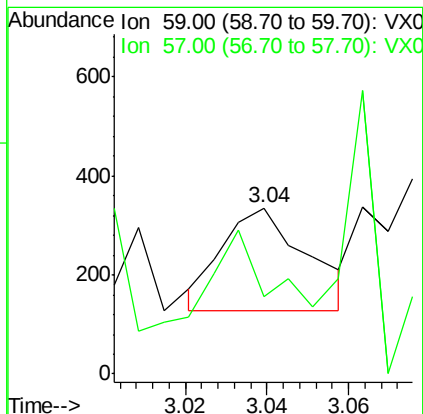
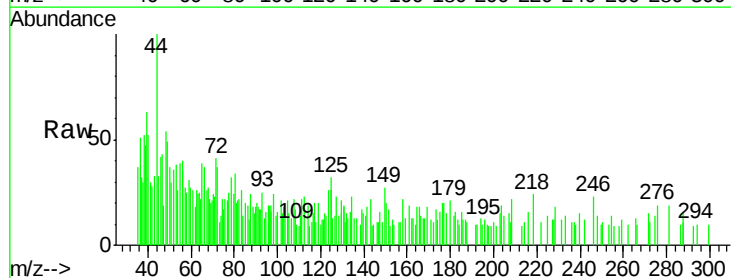
RT: 3.04 min Scan# 353

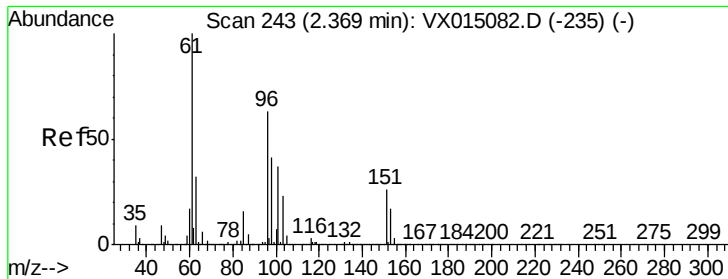
Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Tgt Ion:	59	Resp:	295
Ion	Ratio	Lower	Upper
59	100		
57	56.9	8.2	12.4#





#12

1,1-Dichloroethene

Concen: 1.19 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20200305

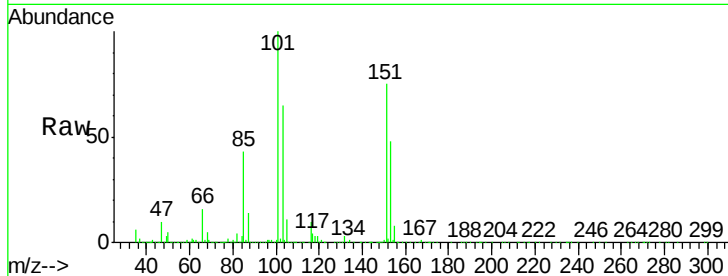
Tgt Ion: 96 Resp: 3965

Ion Ratio Lower Upper

96 100

61 143.0 126.2 189.4

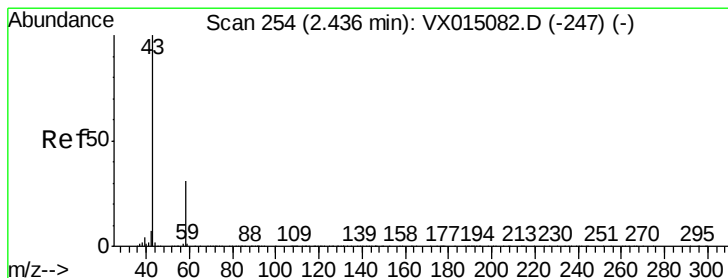
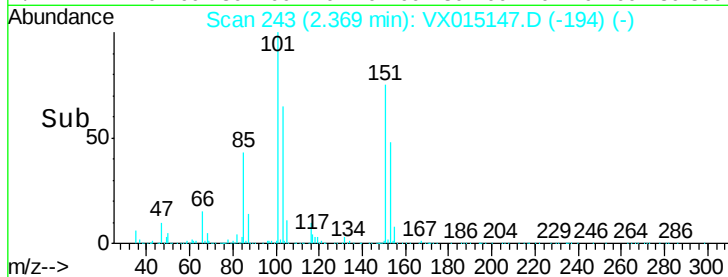
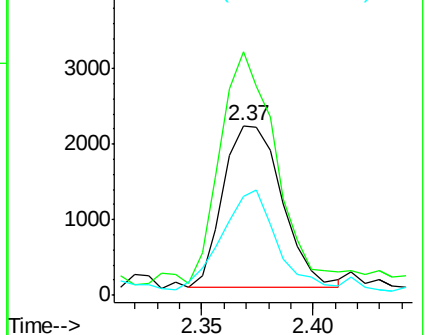
98 55.2 51.4 77.0



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



#16

Acetone

Concen: 1.30 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015147.D

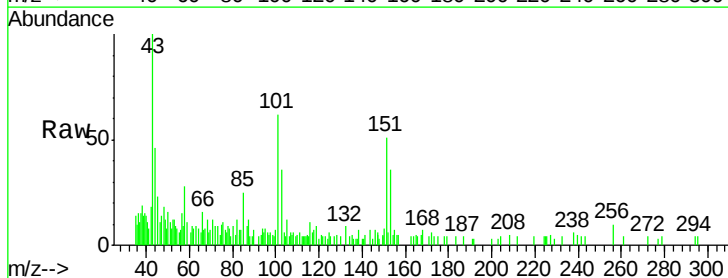
Acq: 09 Mar 2020 16:52

Tgt Ion: 43 Resp: 2149

Ion Ratio Lower Upper

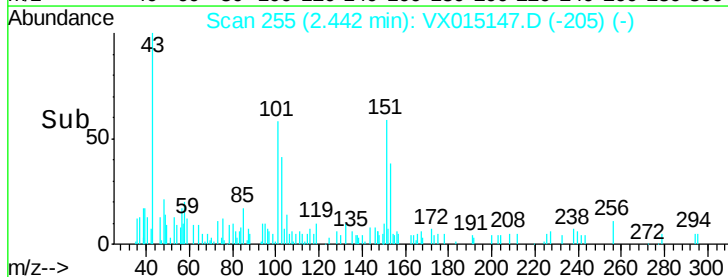
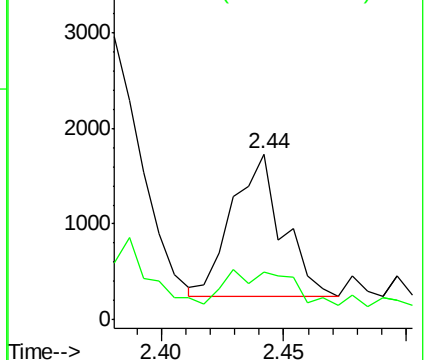
43 100

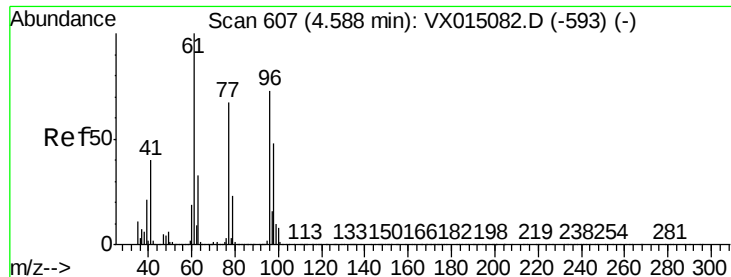
58 23.3 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



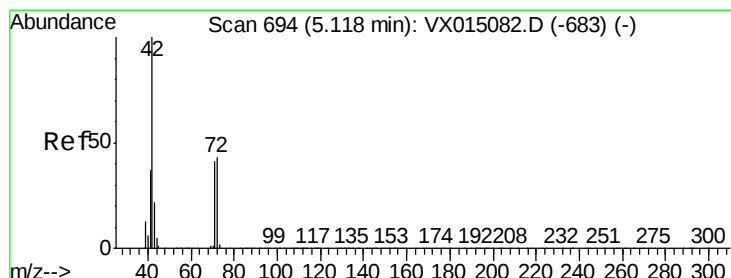
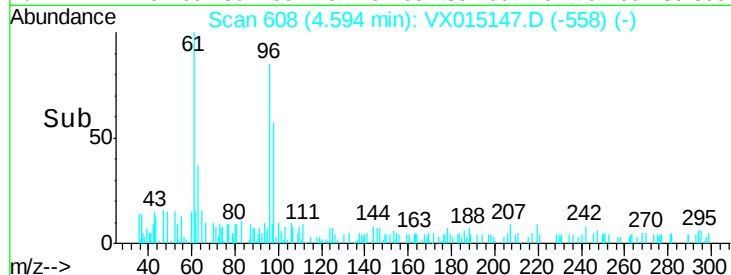
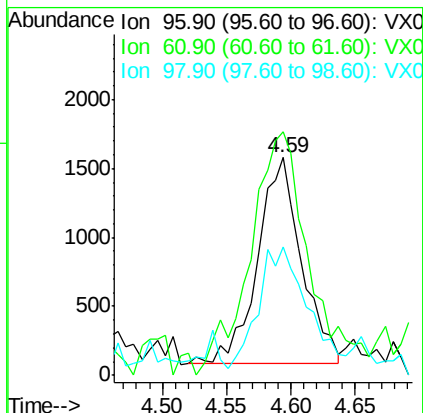
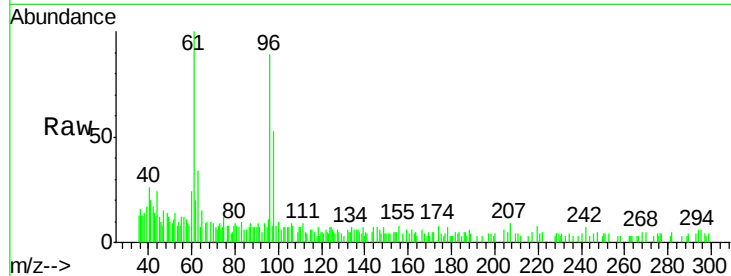


#27

cis-1,2-Dichloroethene
Concen: 0.88 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX015147.D
Acq: 09 Mar 2020 16:52

Instrument :
MSVOA_X
ClientSampleId :
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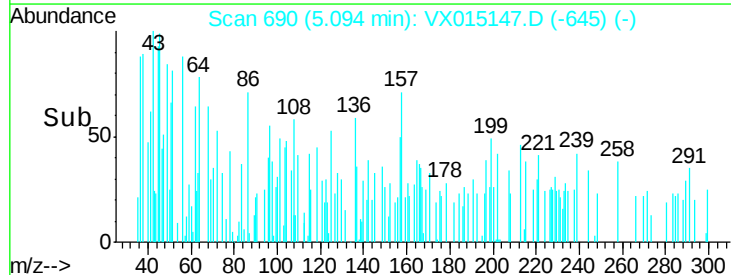
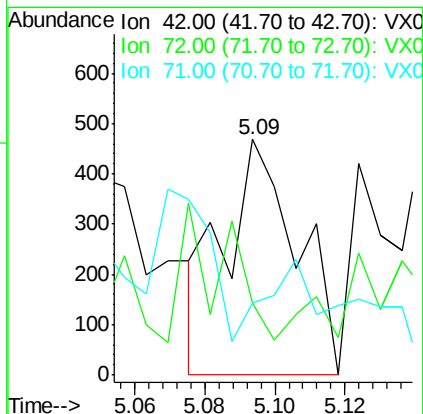
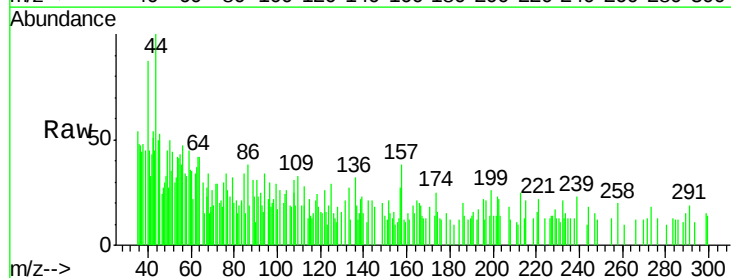
Tgt Ion: 96 Resp: 3526
Ion Ratio Lower Upper
96 100
61 161.1 0.0 286.8
98 66.8 0.0 128.4

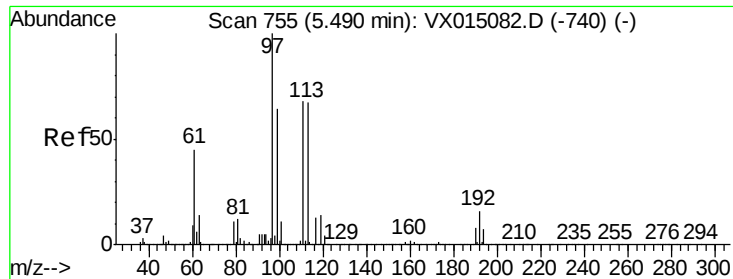


#29

Tetrahydrofuran
Concen: 0.43 ug/l
RT: 5.09 min Scan# 690
Delta R.T. -0.02 min
Lab File: VX015147.D
Acq: 09 Mar 2020 16:52

Tgt Ion: 42 Resp: 676
Ion Ratio Lower Upper
42 100
72 0.0 36.4 54.6#
71 22.5 33.3 49.9#





#32

1,1,1-Trichloroethane

Concen: 0.22 ug/l

RT: 5.50 min Scan# 756

Delta R.T. 0.01 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20200305

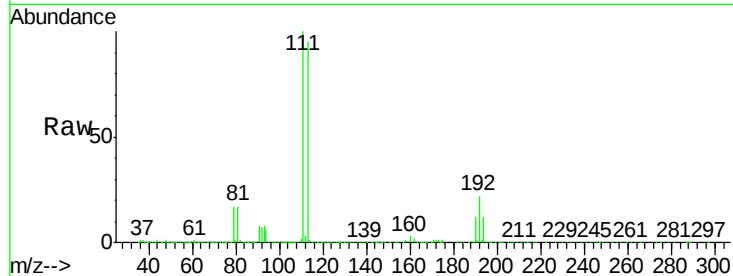
Tgt Ion: 97 Resp: 1160

Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

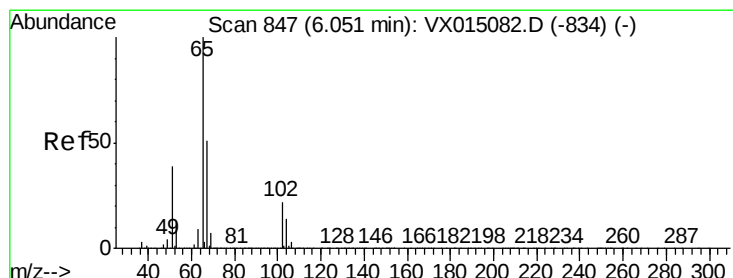
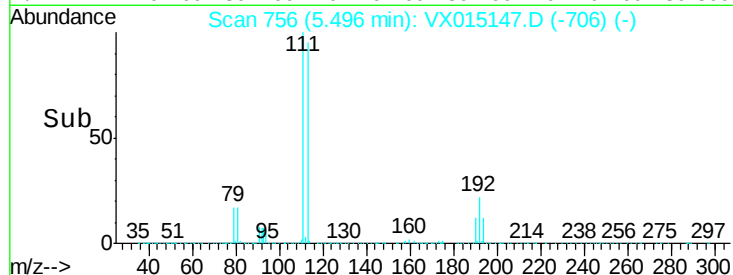
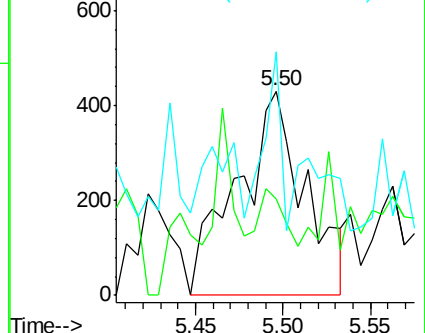
61 28.8 36.6 54.8#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.62 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015147.D

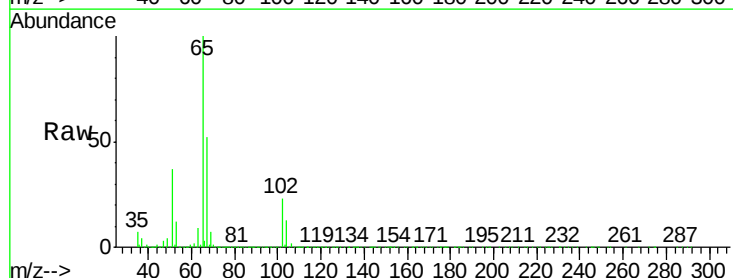
Acq: 09 Mar 2020 16:52

Tgt Ion: 65 Resp: 214136

Ion Ratio Lower Upper

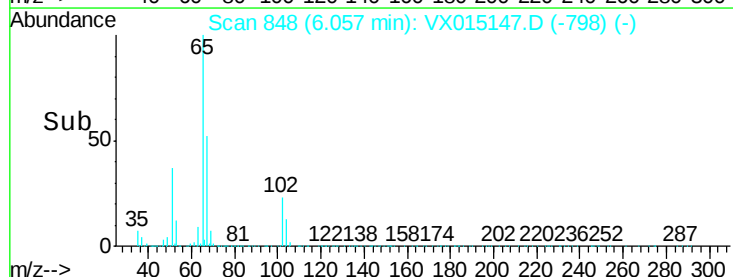
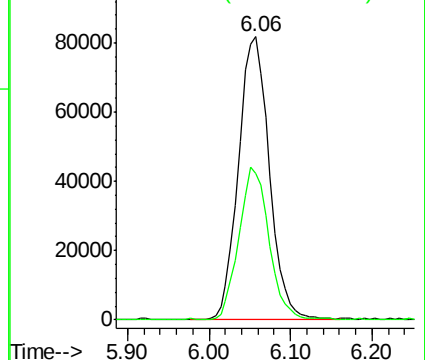
65 100

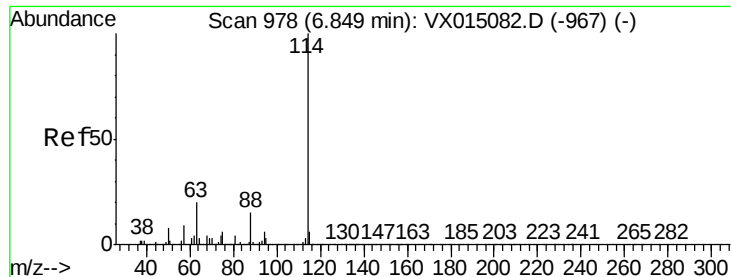
67 52.4 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

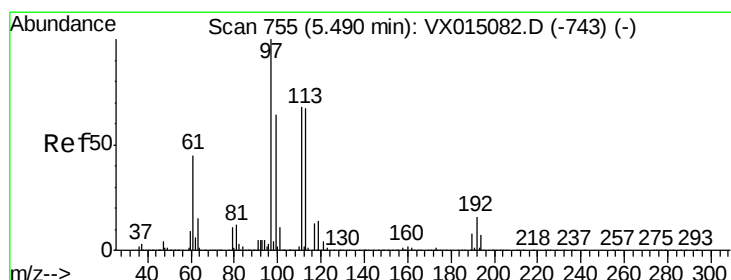
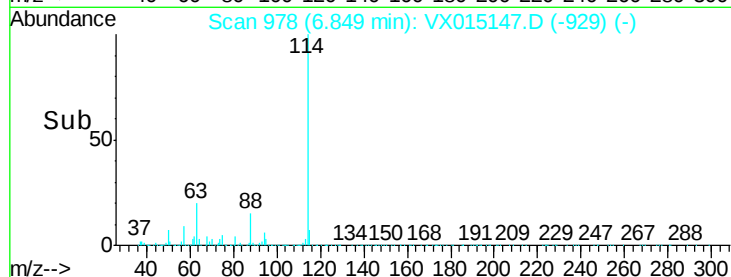
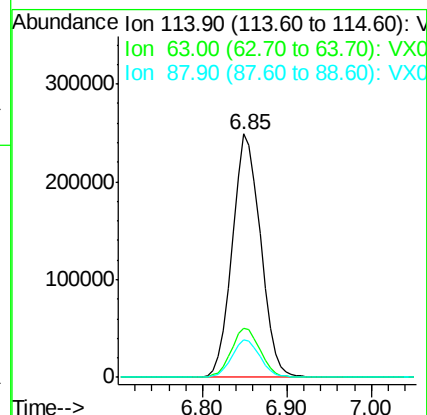
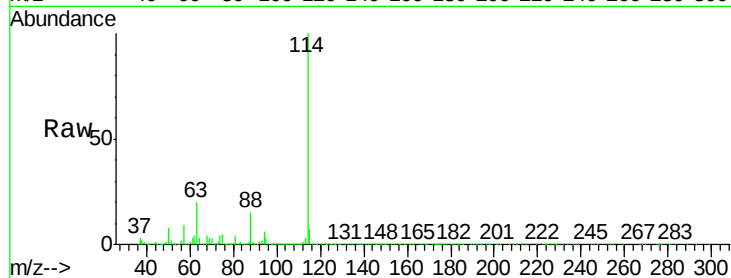




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX015147.D
Acq: 09 Mar 2020 16:52

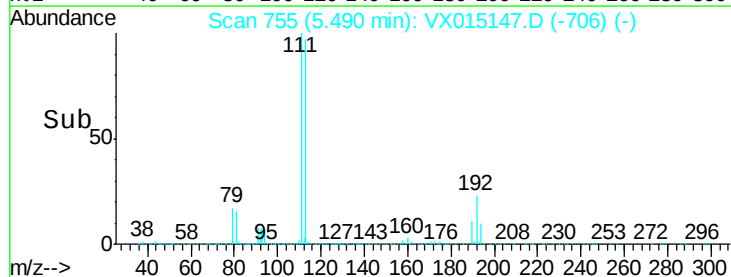
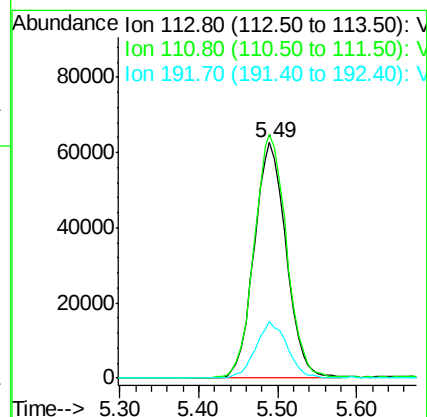
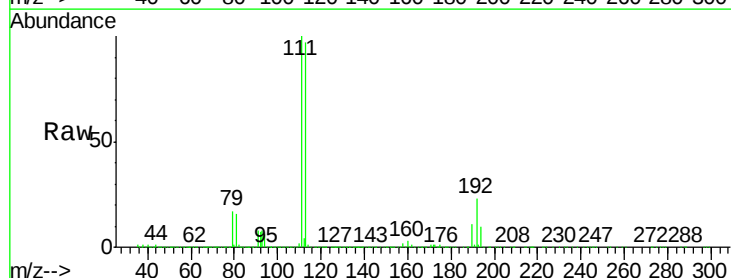
Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20200305

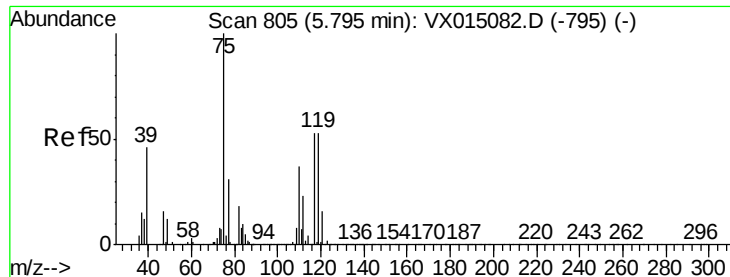
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.0
88	15.1	0.0	30.6



#35
Dibromofluoromethane
Concen: 49.08 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX015147.D
Acq: 09 Mar 2020 16:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.6	123.8
192	23.9	18.6	28.0

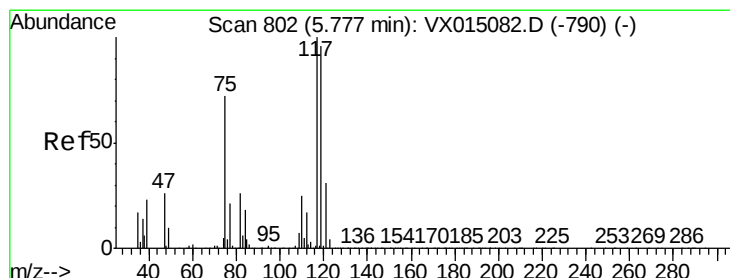
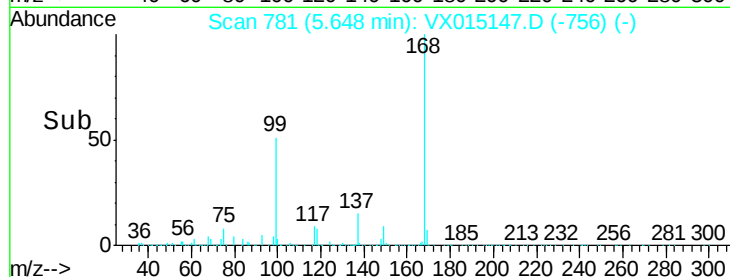
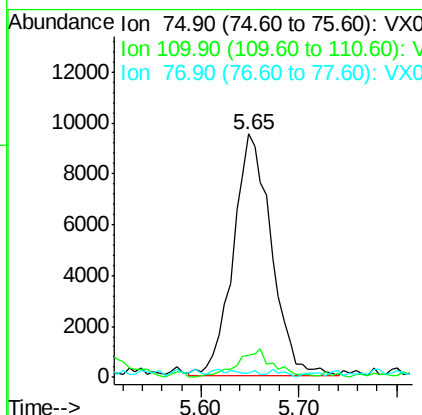
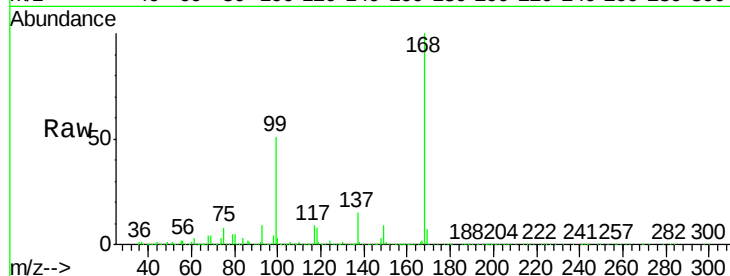




#36
 1,1-Dichloropropene
 Concen: 4.85 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015147.D
 Acq: 09 Mar 2020 16:52

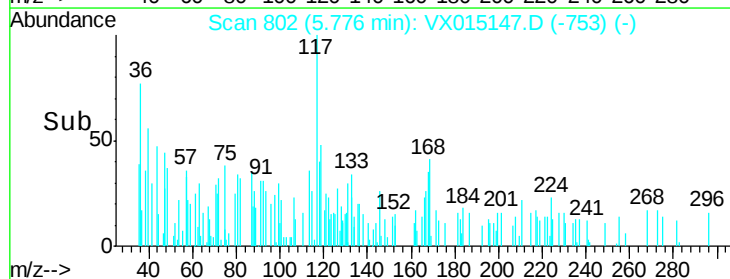
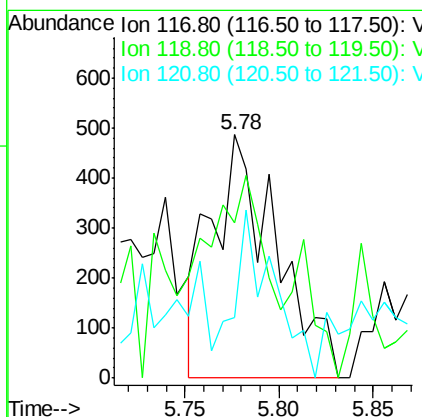
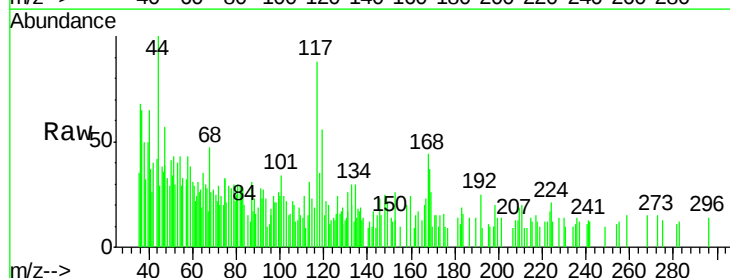
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20200305

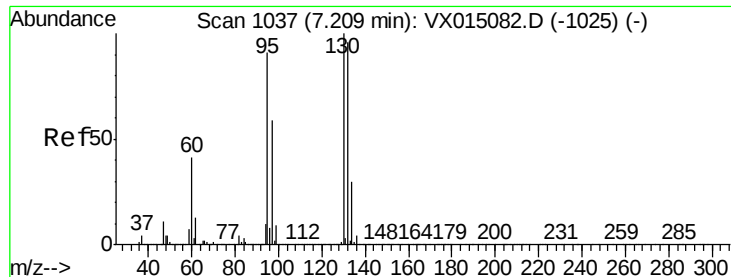
Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.9	53.8#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 0.24 ug/l
 RT: 5.78 min Scan# 802
 Delta R.T. -0.00 min
 Lab File: VX015147.D
 Acq: 09 Mar 2020 16:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	63.9	76.9	115.3#
121	0.0	24.6	37.0#





#44

Trichloroethene

Concen: 22.59 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

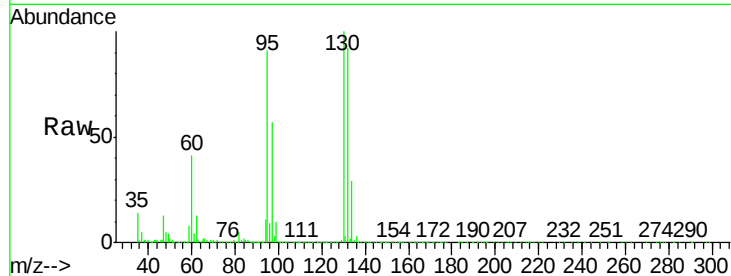
RE134D4-20200305

Tgt Ion:130 Resp: 98029

Ion Ratio Lower Upper

130 100

95 90.7 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

50000

40000

30000

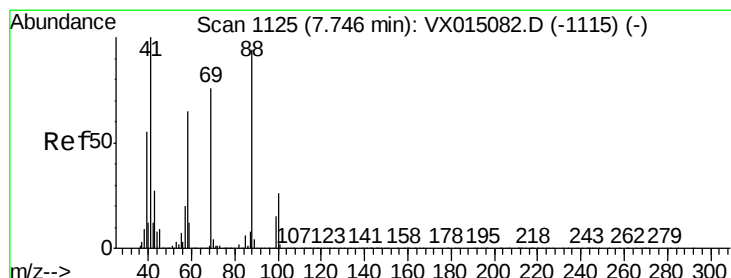
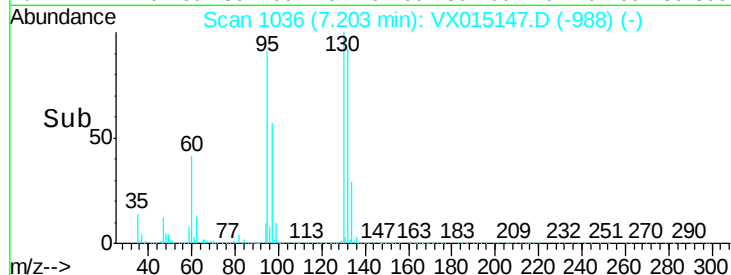
20000

10000

0

7.10 7.20 7.30 7.40

Time-->



#49

1,4-Dioxane

Concen: 5.45 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

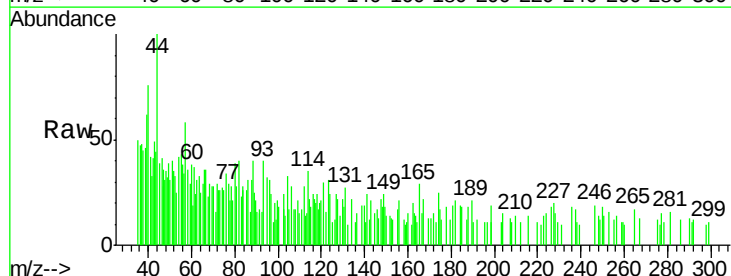
Tgt Ion: 88 Resp: 514

Ion Ratio Lower Upper

88 100

43 47.1 27.0 40.4#

58 0.0 55.6 83.4#



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

600

500

400

300

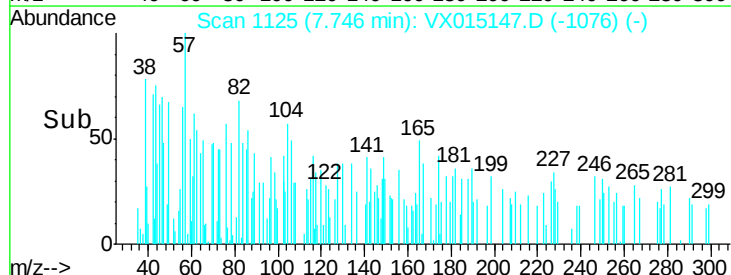
200

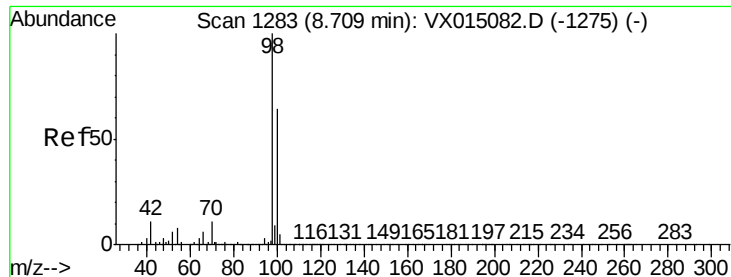
100

0

7.72 7.74 7.76

Time-->





#50

Toluene-d8

Concen: 50.84 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

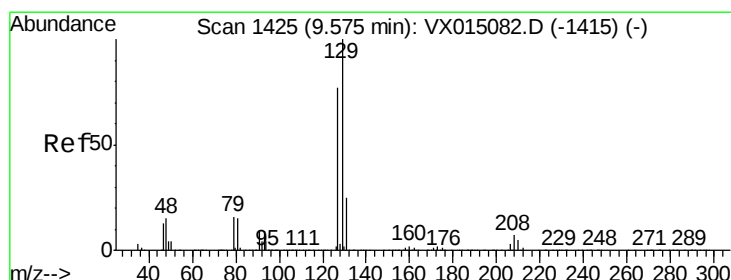
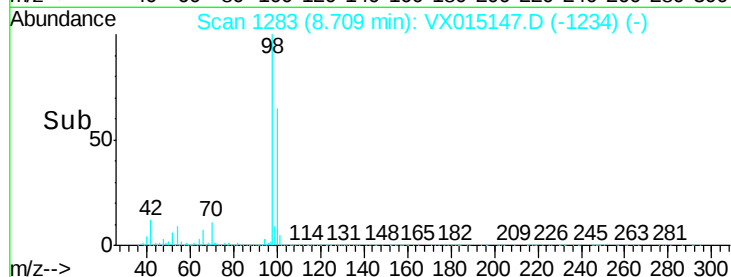
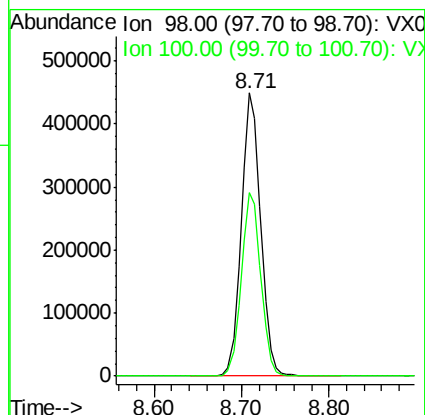
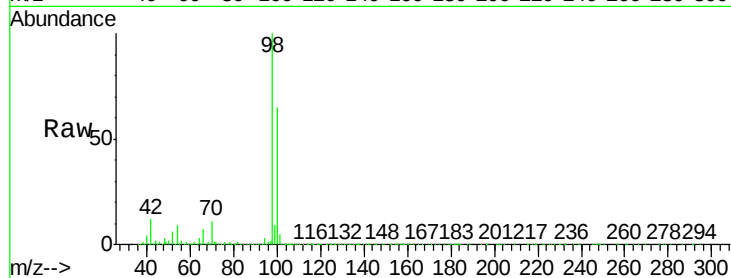
RE134D4-20200305

Tgt Ion: 98 Resp: 692973

Ion Ratio Lower Upper

98 100

100 65.2 52.4 78.6



#60

Dibromochloromethane

Concen: 6.05 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.24 min

Lab File: VX015147.D

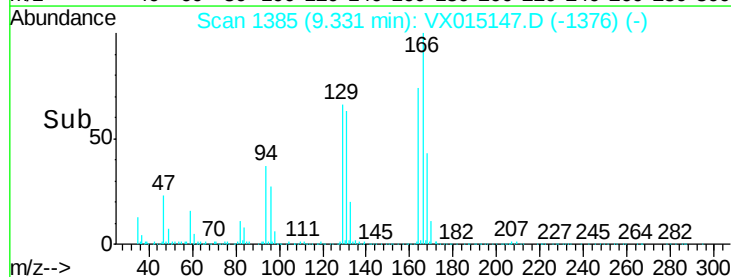
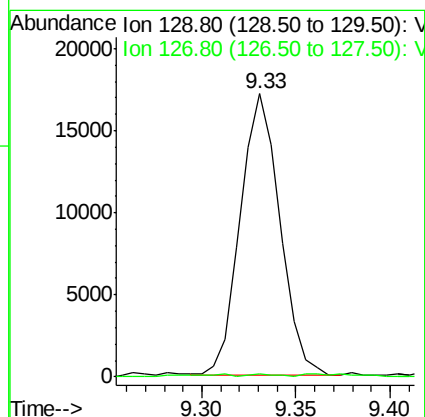
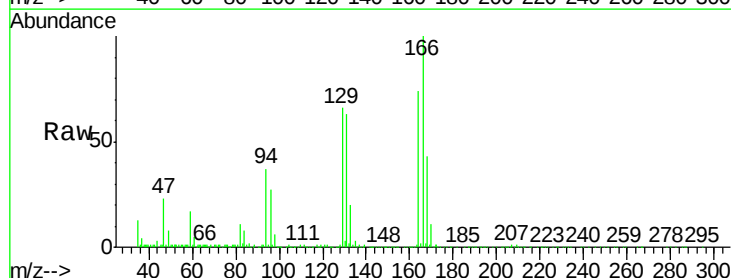
Acq: 09 Mar 2020 16:52

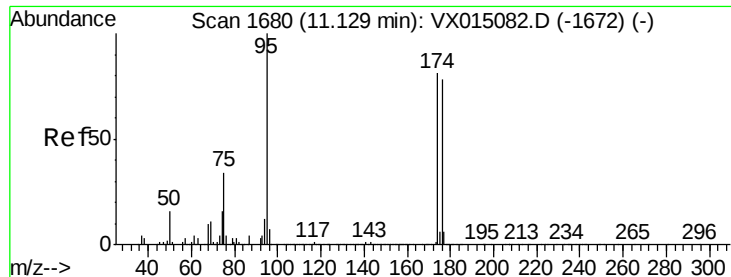
Tgt Ion: 129 Resp: 24917

Ion Ratio Lower Upper

129 100

127 0.5 38.8 116.3#





#62

4-Bromofluorobenzene

Concen: 51.45 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20200305

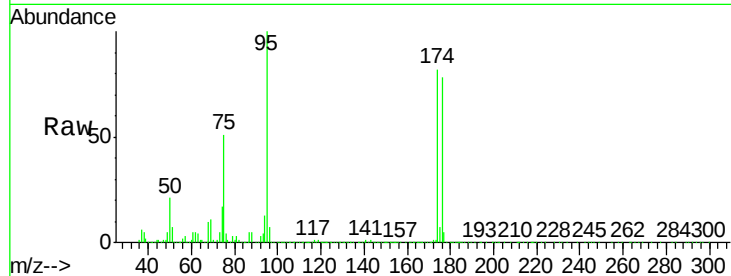
Tgt Ion: 95 Resp: 250154

Ion Ratio Lower Upper

95 100

174 90.5 0.0 177.6

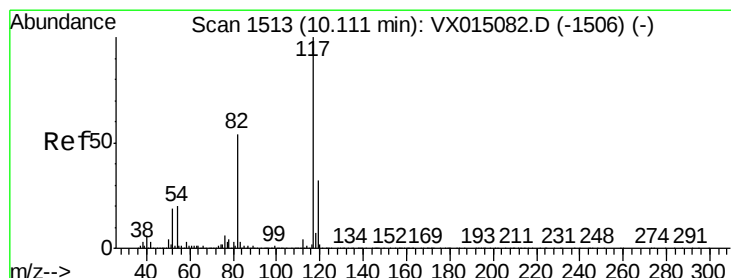
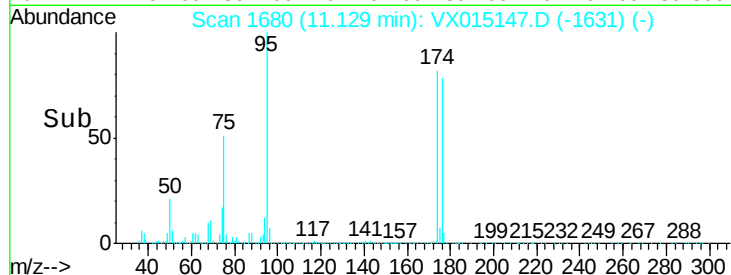
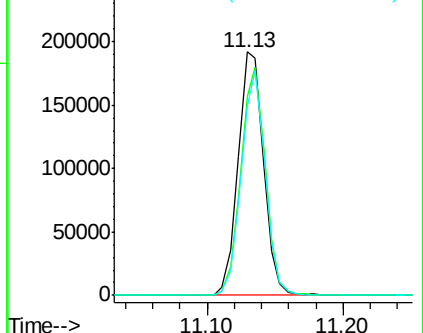
176 86.8 0.0 170.2



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: 50.00 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

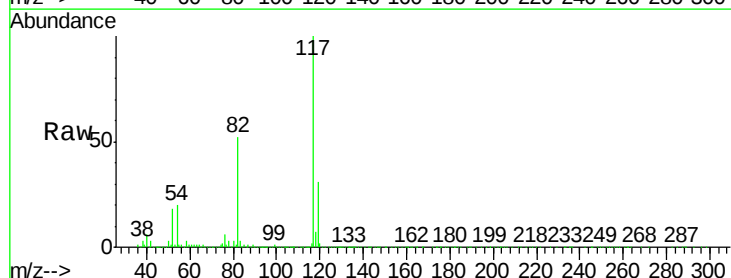
Tgt Ion: 117 Resp: 552164

Ion Ratio Lower Upper

117 100

82 51.9 43.3 64.9

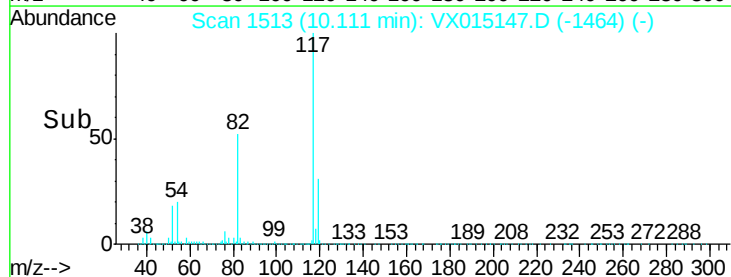
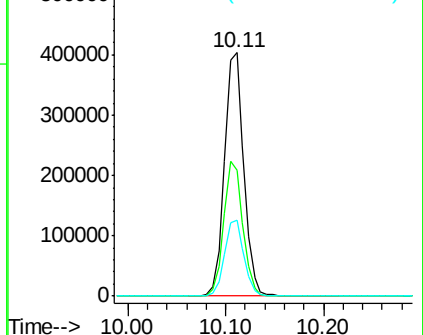
119 31.2 25.8 38.8

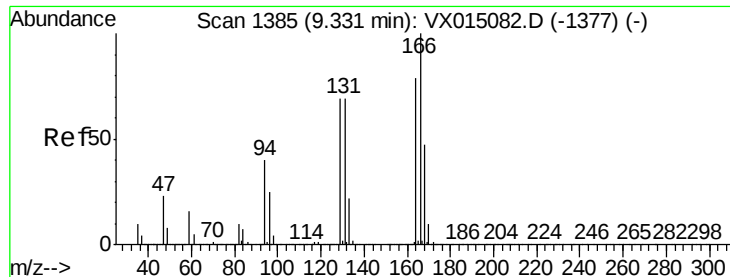


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 6.41 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20200305

Tgt Ion:164 Resp: 29285

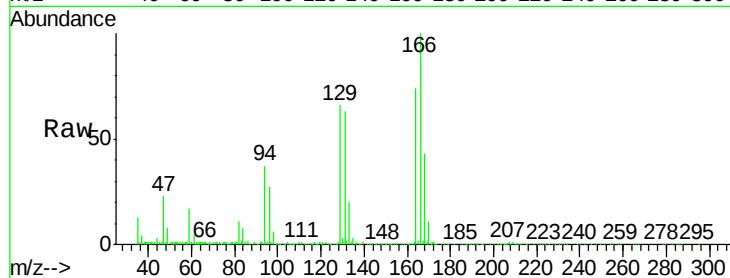
Ion Ratio Lower Upper

164 100

166 134.1 101.1 151.7

129 87.6 69.4 104.0

131 83.9 69.8 104.8

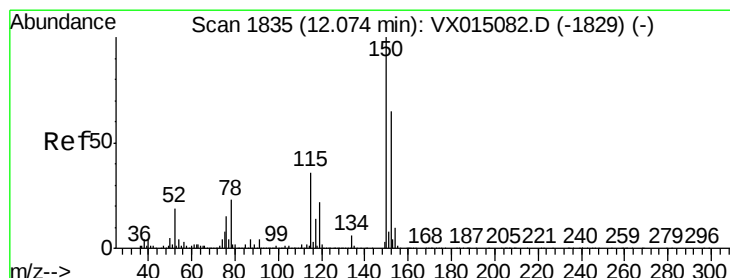
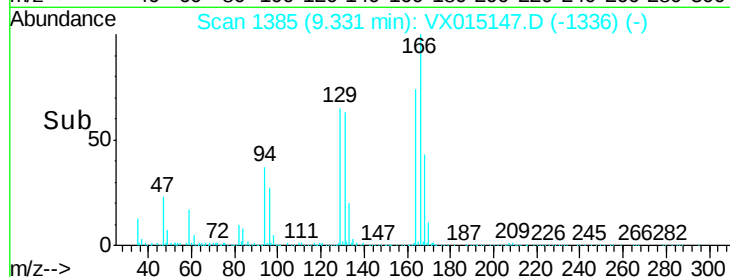
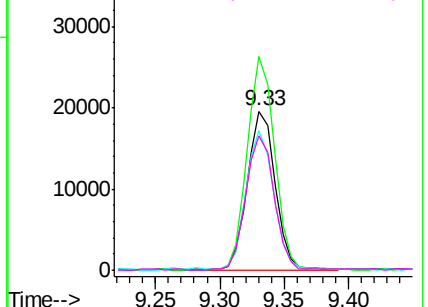


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

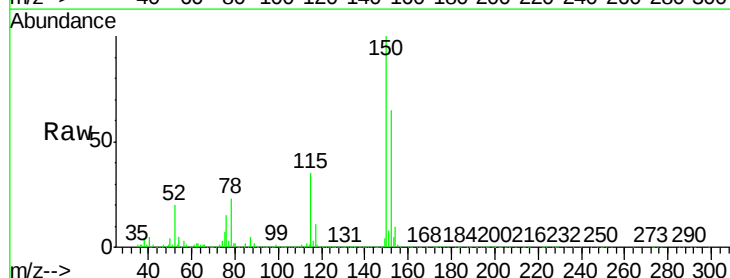
Tgt Ion:152 Resp: 278314

Ion Ratio Lower Upper

152 100

115 55.9 38.2 114.6

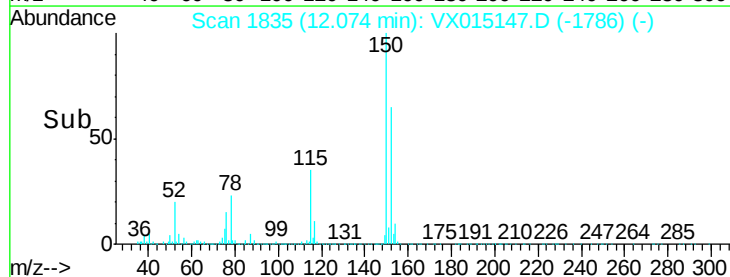
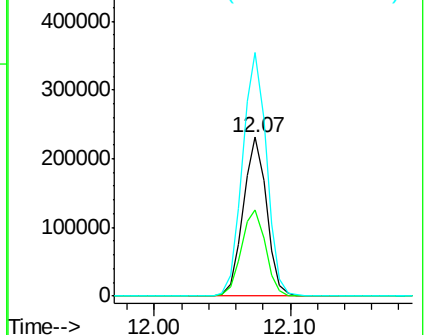
150 157.3 0.0 343.8

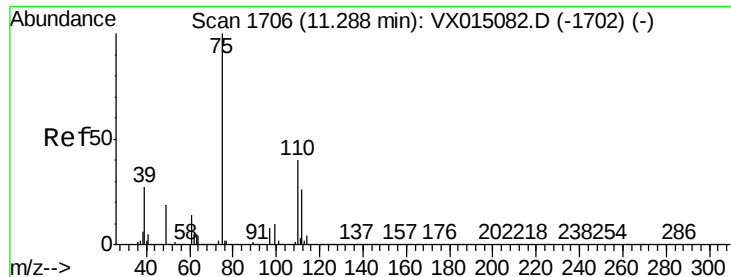


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.64 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

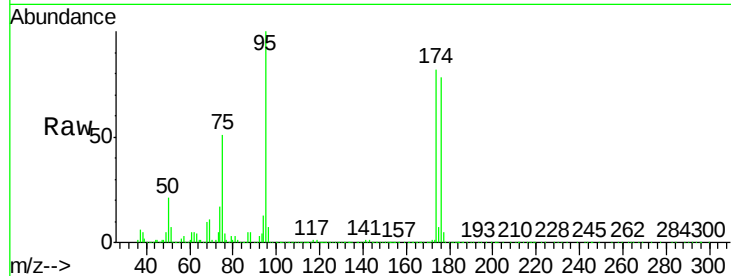
RE134D4-20200305

Tgt Ion: 75 Resp: 125706

Ion Ratio Lower Upper

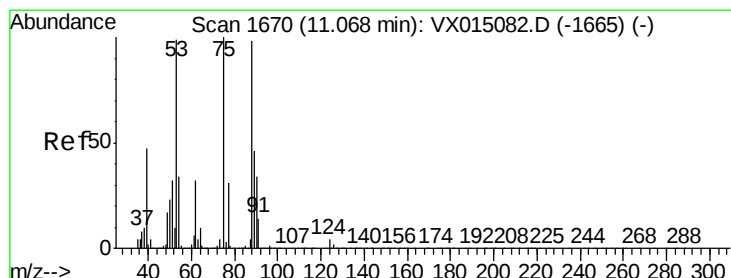
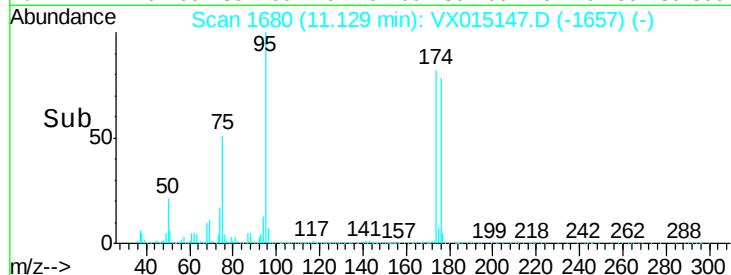
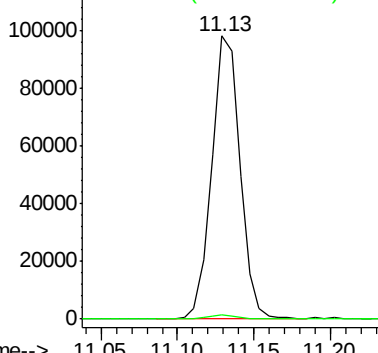
75 100

77 1.9 22.6 67.8#



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: 64.26 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015147.D

Acq: 09 Mar 2020 16:52

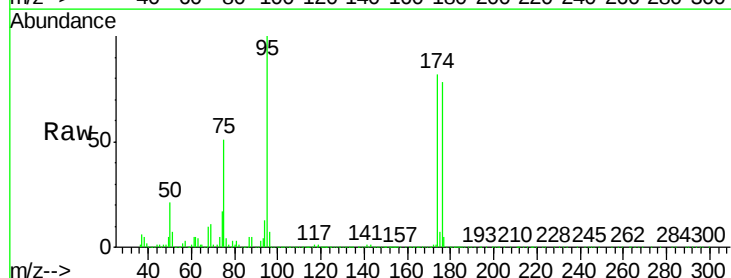
Tgt Ion: 75 Resp: 125706

Ion Ratio Lower Upper

75 100

53 0.1 77.9 116.9#

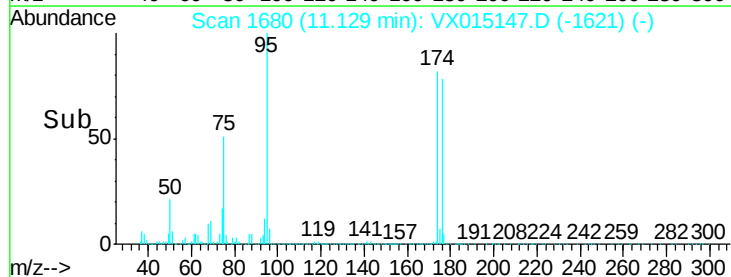
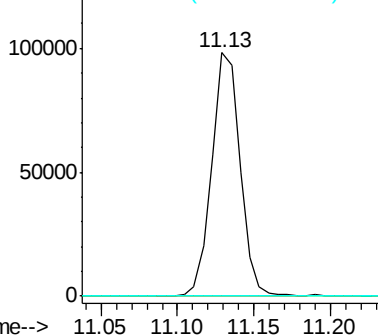
89 0.0 36.2 54.2#

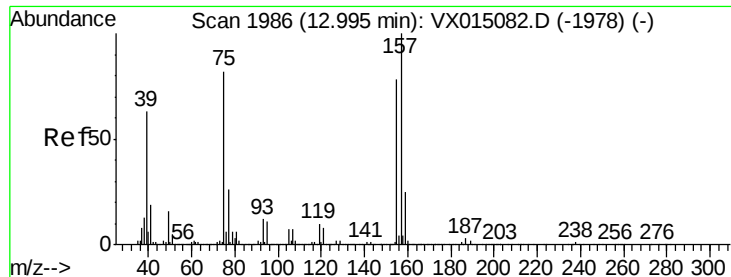


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

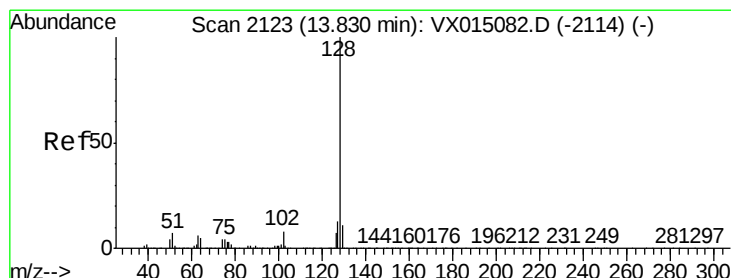
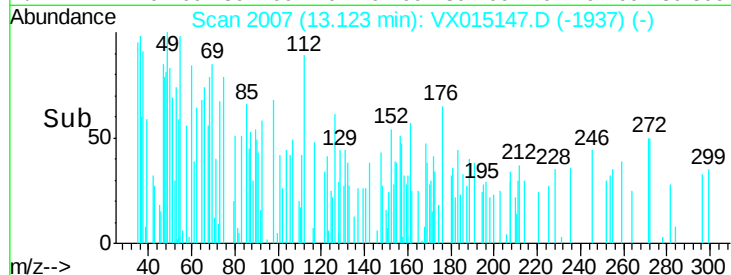
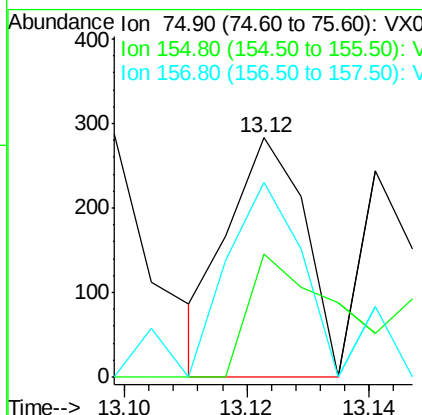
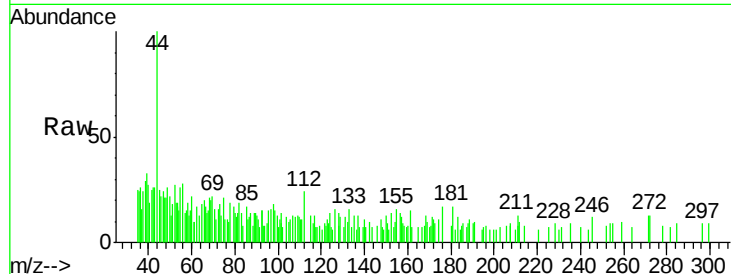




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.20 ug/l
RT: 13.12 min Scan# 2007
Delta R.T. 0.13 min
Lab File: VX015147.D
Acq: 09 Mar 2020 16:52

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20200305

Tgt Ion: 75 Resp: 242
Ion Ratio Lower Upper
75 100
155 73.1 46.6 139.7
157 91.3 59.2 177.5



#95
Naphthalene
Concen: 1.44 ug/l
RT: 13.84 min Scan# 2125
Delta R.T. 0.01 min
Lab File: VX015147.D
Acq: 09 Mar 2020 16:52

Tgt Ion: 128 Resp: 361
Ion Ratio Lower Upper
128 100
127 80.3 10.3 15.5#
129 29.1 8.6 13.0#

