

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031020\
 Data File : VX015165.D
 Acq On : 10 Mar 2020 13:03
 Operator : JC/SP
 Sample : L1842-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D2-20200305

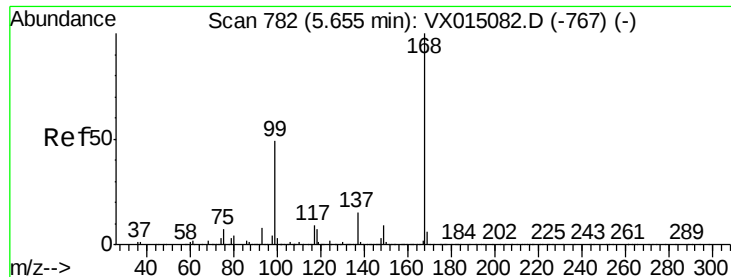
Quant Time: Mar 11 07:28:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	304616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	500260	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	496754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	253700	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	173056	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
35) Dibromofluoromethane	5.49	113	150890	47.81	ug/l	0.00
Spiked Amount			Recovery	=	95.62%	
50) Toluene-d8	8.71	98	614200	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	11.13	95	227173	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	538	0.202	ug/l #	58
3) Chloromethane	1.32	50	1612	0.427	ug/l	94
5) Bromomethane	1.65	94	491	0.208	ug/l #	63
7) Trichlorofluoromethane	1.93	101	1370	0.301	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.38	101	75575	26.349	ug/l	98
11) Tert butyl alcohol	3.03	59	804	1.282	ug/l	96
12) 1,1-Dichloroethene	2.37	96	818	0.276	ug/l #	70
13) Acrolein	2.30	56	172	0.292	ug/l	84
15) Acrylonitrile	3.14	53	466	0.298	ug/l #	90
16) Acetone	2.44	43	6555	4.479	ug/l	98
20) Methylene Chloride	2.85	84	1125	0.328	ug/l #	46
21) trans-1,2-Dichloroethene	3.16	96	1074	0.340	ug/l	85
24) 1,1-Dichloroethane	3.69	63	2662	0.466	ug/l #	92
27) cis-1,2-Dichloroethene	4.58	96	7246	2.043	ug/l	89
29) Tetrahydrofuran	5.11	42	283	0.205	ug/l #	79
31) Cyclohexane	5.65	56	5702	1.120	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	19998	4.324	ug/l #	42
38) Carbon Tetrachloride	5.65	117	26049	5.967	ug/l #	16
44) Trichloroethene	7.21	130	473943	124.031	ug/l	97
49) 1,4-Dioxane	7.75	88	2865	34.498	ug/l	89
55) 1,1,2-Trichloroethane	9.20	97	1109	0.321	ug/l #	43
60) Dibromochloromethane	9.33	129	55448	15.286	ug/l #	11
64) Tetrachloroethene	9.33	164	62033	15.103	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	108723	21.484	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	108723	60.973	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	231	0.214	ug/l #	38
95) Naphthalene	13.82	128	1279	1.494	ug/l #	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015165.D

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MSVOA_X

ClientSampleId :

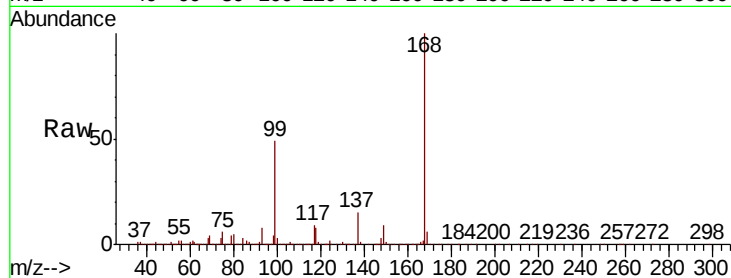
RE134D2-20200305

Tot Ion:168 Resp: 304616

Ion Ratio Lower Upper

168 100

99 48.8 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

120000

100000

80000

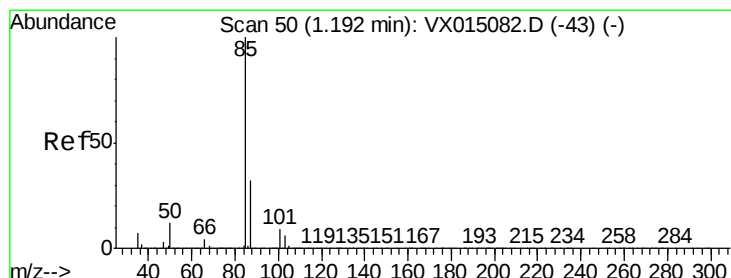
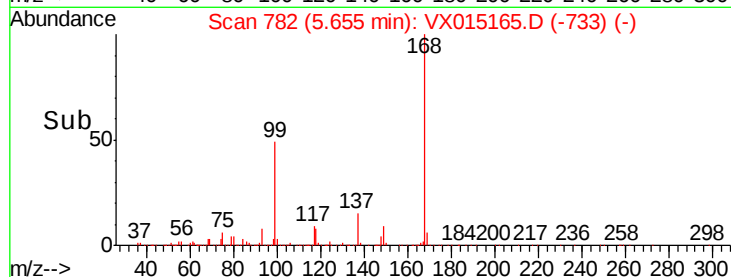
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.202 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015165.D

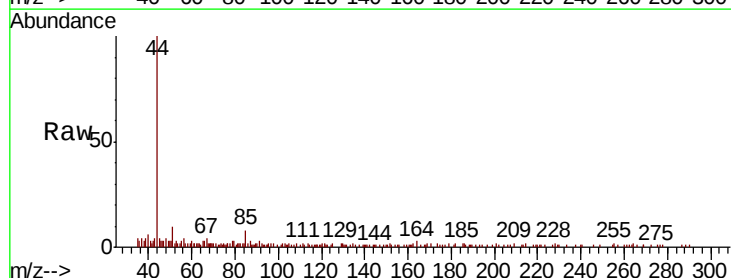
Acq: 10 Mar 2020 13:03

Tgt Ion: 85 Resp: 538

Ion Ratio Lower Upper

85 100

87 55.9 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

600

500

400

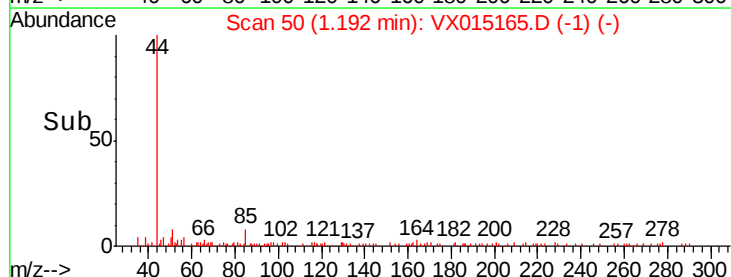
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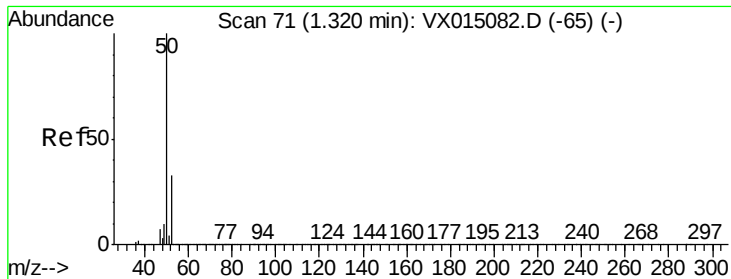
200

100

0

Time-->





#3

Chloromethane

Concen: 0.427 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

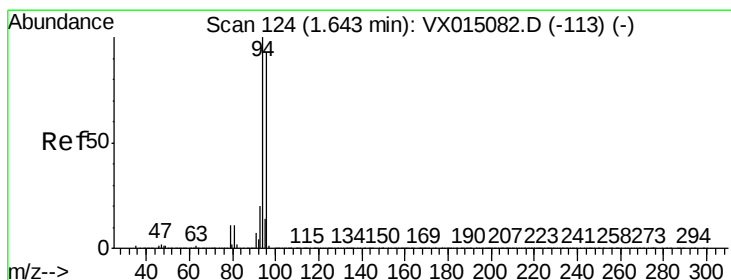
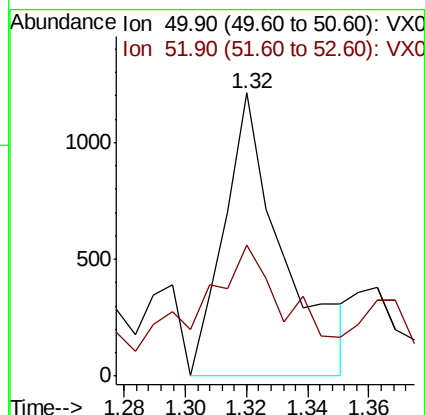
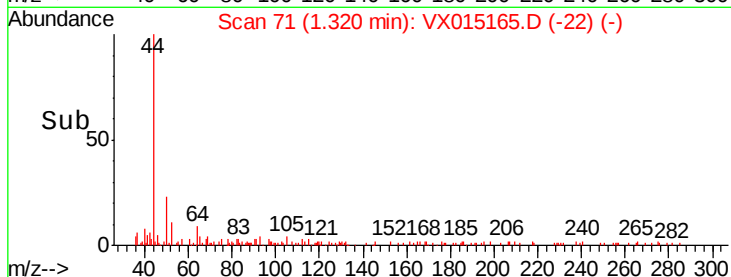
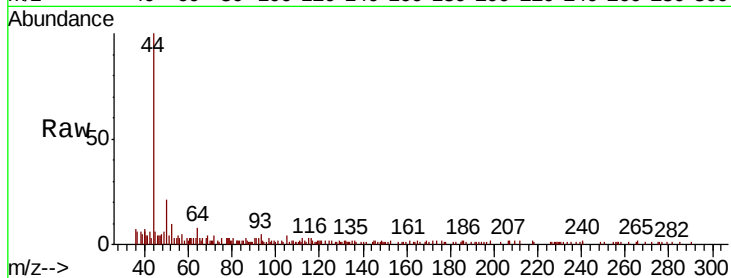
RE134D2-20200305

Tot Ion: 50 Resp: 1612

Ion Ratio Lower Upper

50 100

52 36.1 26.2 39.2



#5

Bromomethane

Concen: 0.208 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015165.D

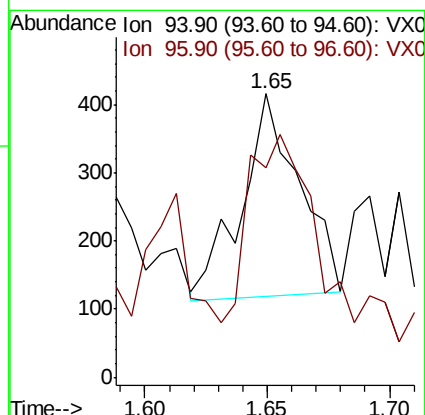
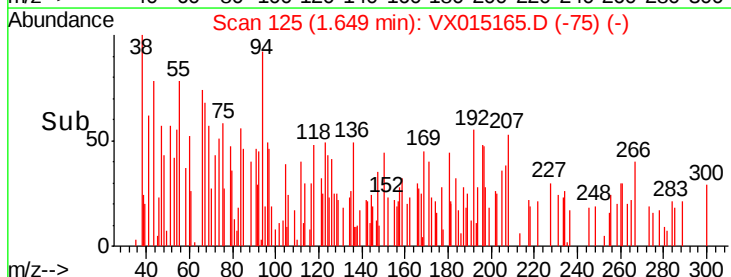
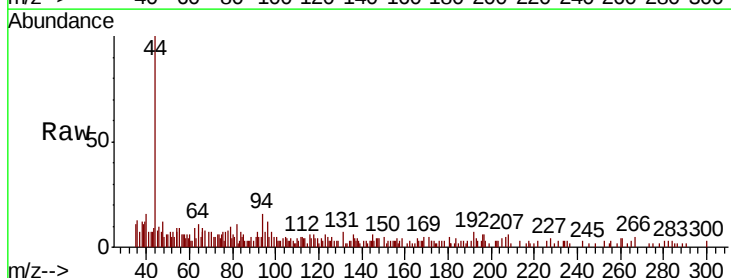
Acq: 10 Mar 2020 13:03

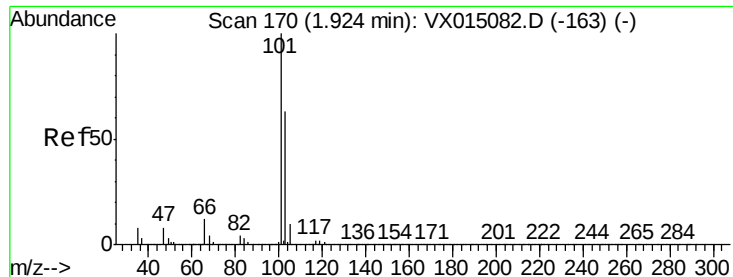
Tgt Ion: 94 Resp: 491

Ion Ratio Lower Upper

94 100

96 57.7 74.6 111.8#



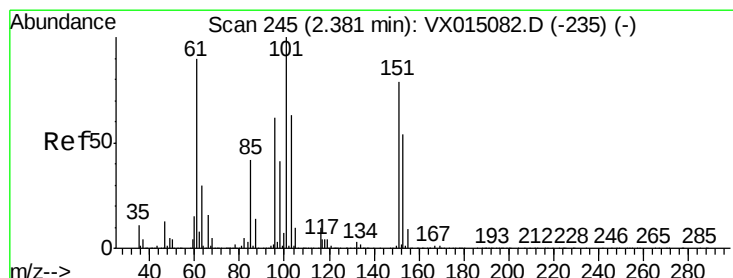
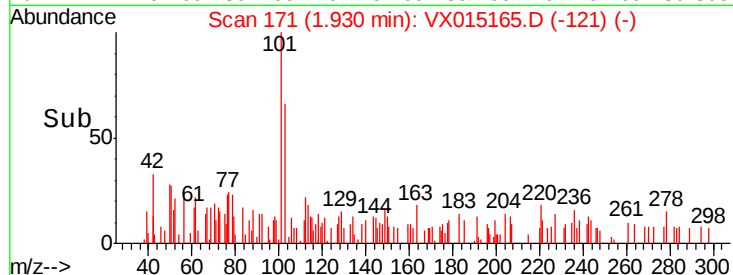
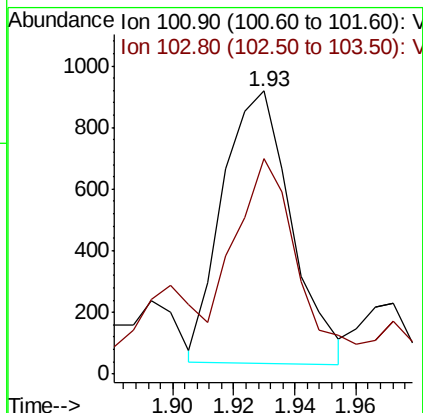
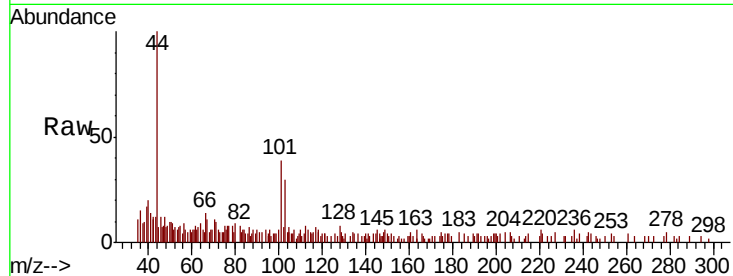


#7

Trichlorofluoromethane
 Concen: 0.301 ug/l
 RT: 1.93 min Scan# 171
 Delta R.T. 0.01 min
 Lab File: VX015165.D
 Acq: 10 Mar 2020 13:03

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D2-20200305

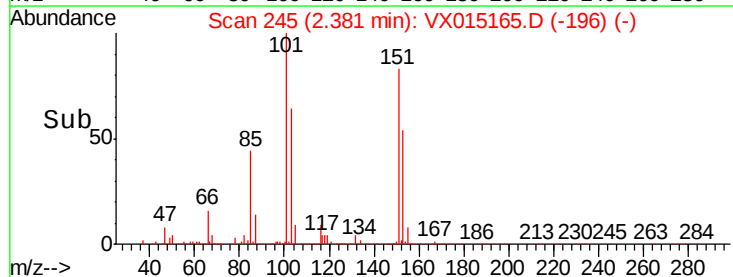
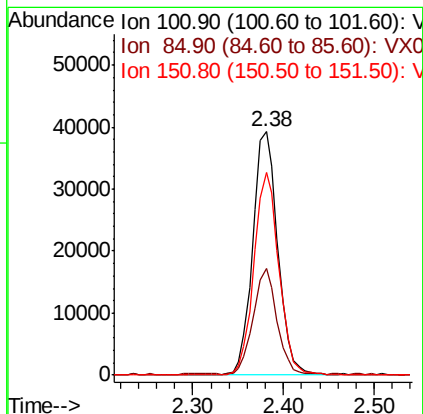
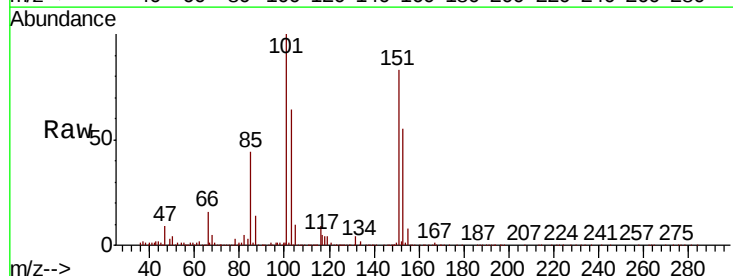
Tot Ion:101 Resp: 1370
 Ion Ratio Lower Upper
 101 100
 103 68.3 50.4 75.6

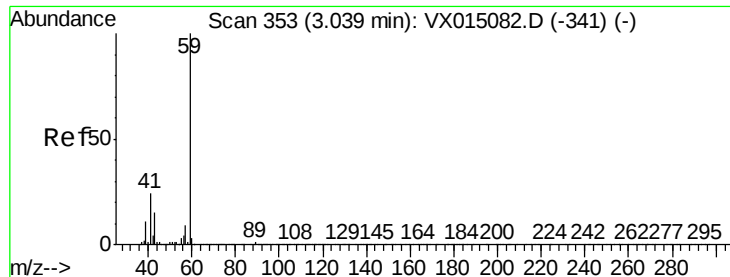


#9

1,1,2-Trichlorotrifluoroethane
 Concen: 26.349 ug/l
 RT: 2.38 min Scan# 245
 Delta R.T. 0.00 min
 Lab File: VX015165.D
 Acq: 10 Mar 2020 13:03

Tgt Ion:101 Resp: 75575
 Ion Ratio Lower Upper
 101 100
 85 41.3 33.7 50.5
 151 82.6 64.0 96.0

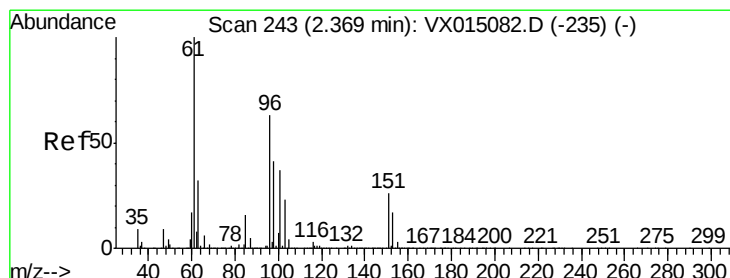
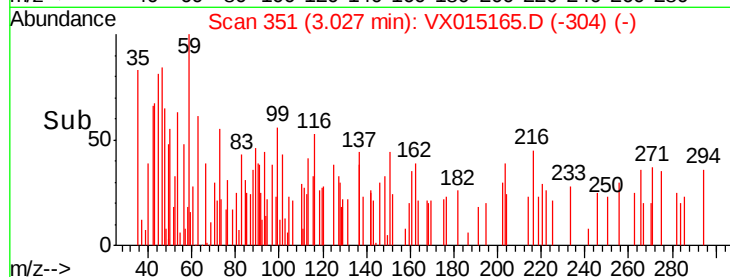
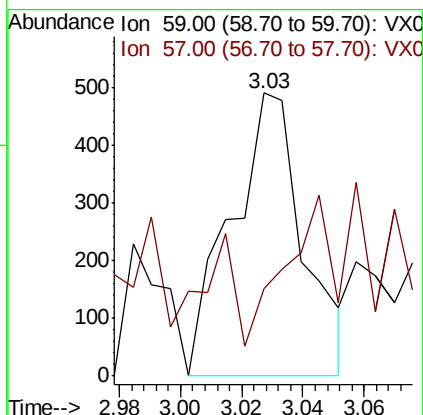
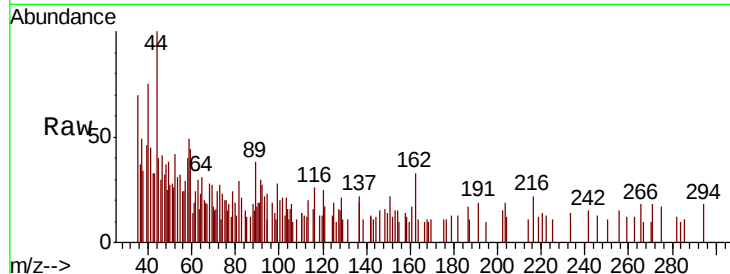




#11
Tert butyl alcohol
Concen: 1.282 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

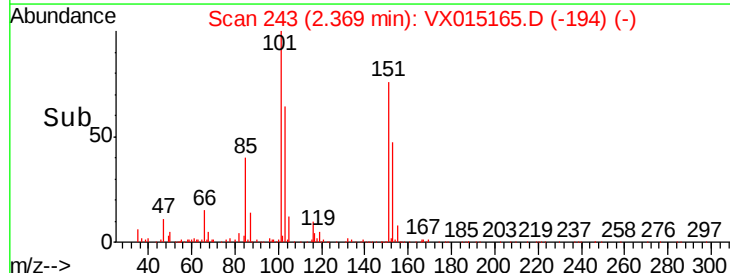
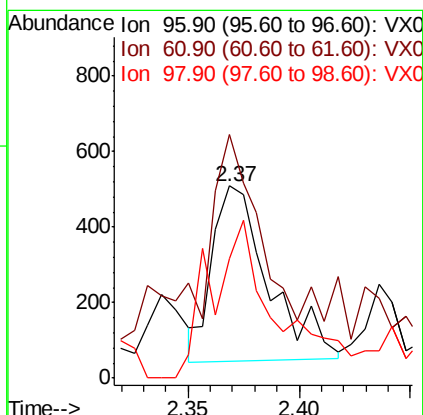
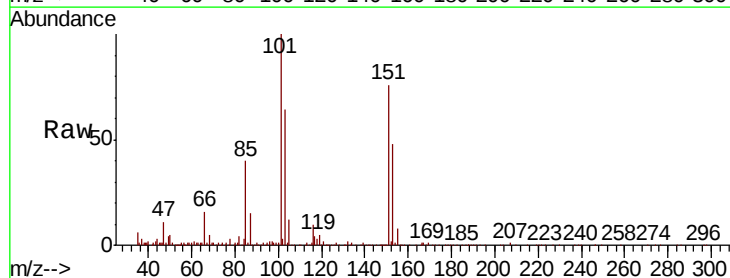
Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20200305

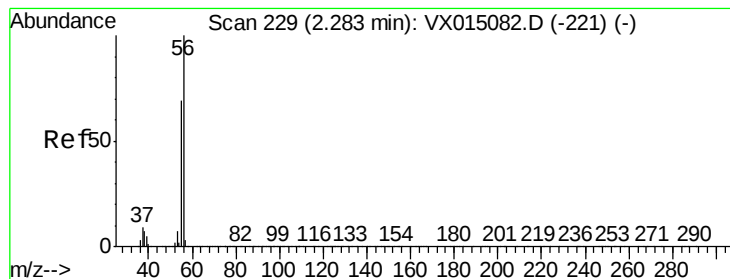
Tot Ion: 59 Resp: 804
Ion Ratio Lower Upper
59 100
57 8.8 8.2 12.4



#12
1,1-Dichloroethene
Concen: 0.276 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.00 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

Tgt Ion: 96 Resp: 818
Ion Ratio Lower Upper
96 100
61 104.0 126.2 189.4#
98 66.2 51.4 77.0





#13

Acrolein

Concen: 0.292 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

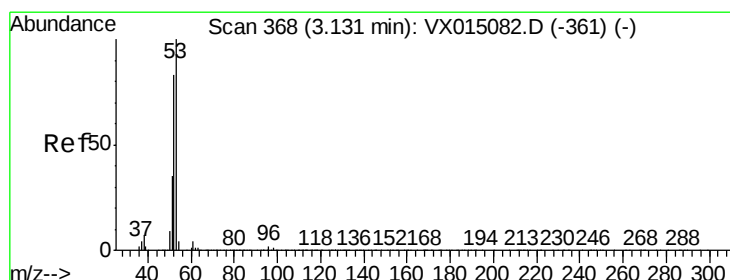
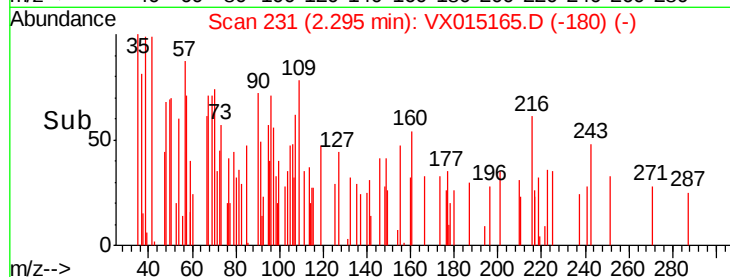
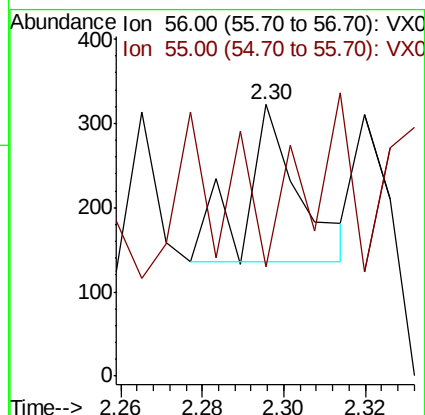
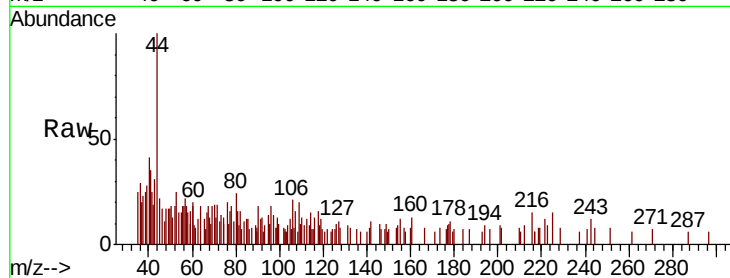
RE134D2-20200305

Tot Ion: 56 Resp: 172

Ion Ratio Lower Upper

56 100

55 55.8 55.4 83.0



#15

Acrylonitrile

Concen: 0.298 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

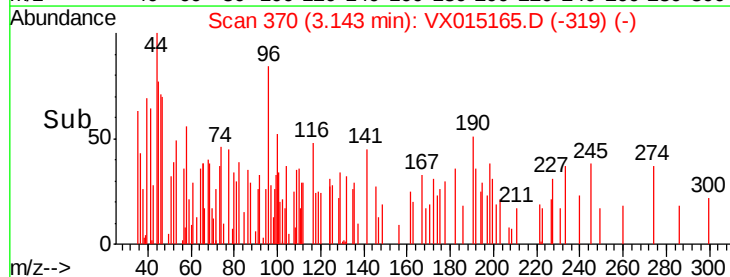
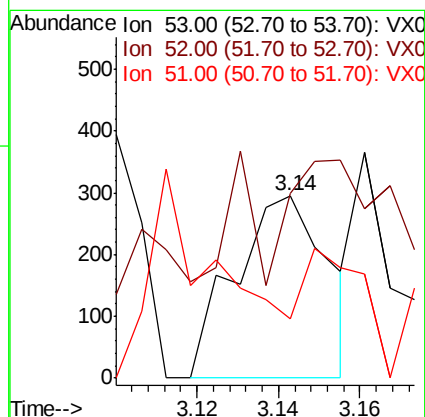
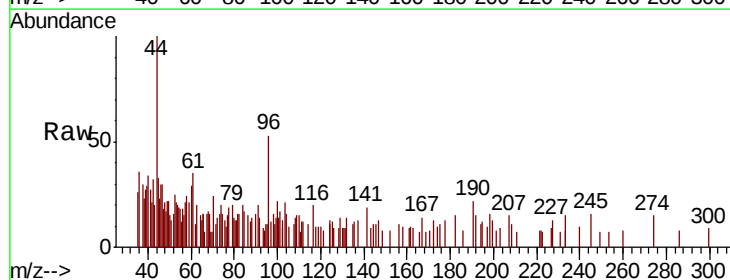
Tgt Ion: 53 Resp: 466

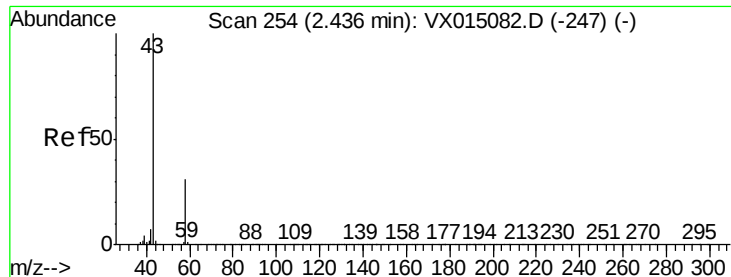
Ion Ratio Lower Upper

53 100

52 91.8 66.6 100.0

51 43.8 29.0 43.6#





#16

Acetone

Concen: 4.479 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

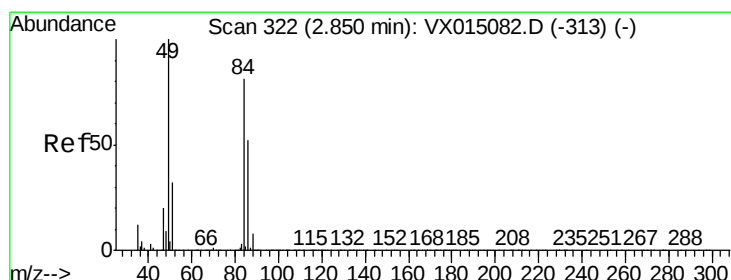
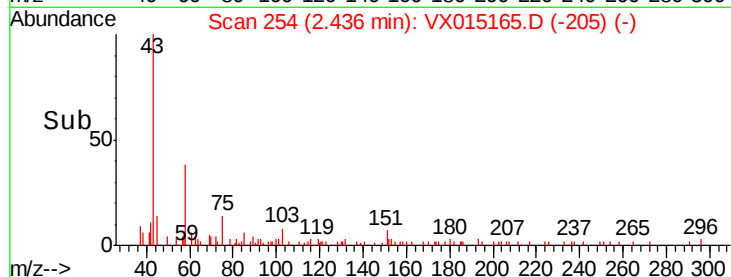
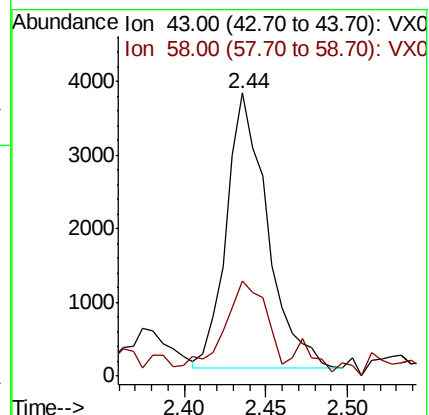
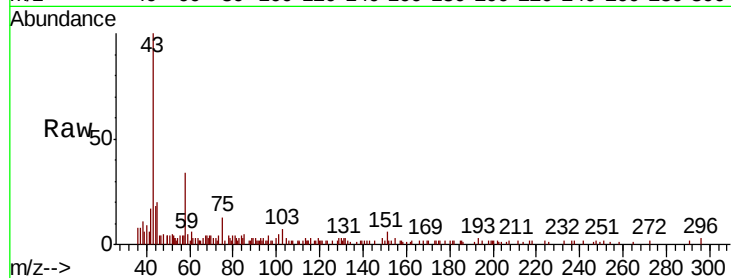
RE134D2-20200305

Tot Ion: 43 Resp: 6555

Ion Ratio Lower Upper

43 100

58 30.0 24.8 37.2



#20

Methylene Chloride

Concen: 0.328 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Tgt Ion: 84 Resp: 1125

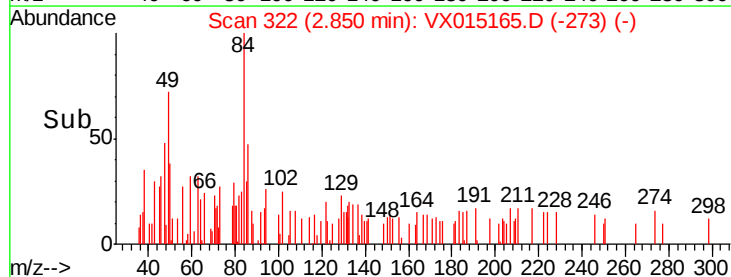
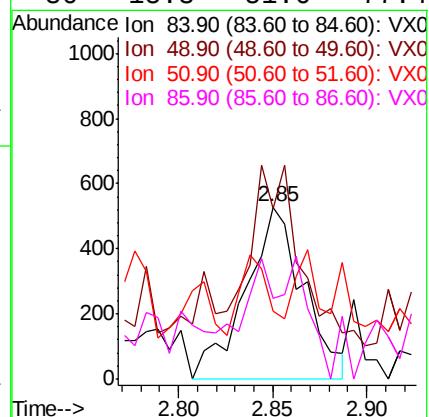
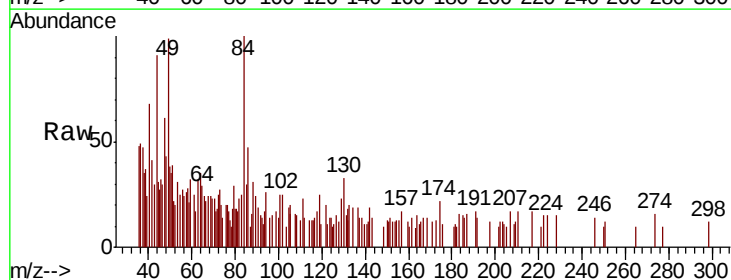
Ion Ratio Lower Upper

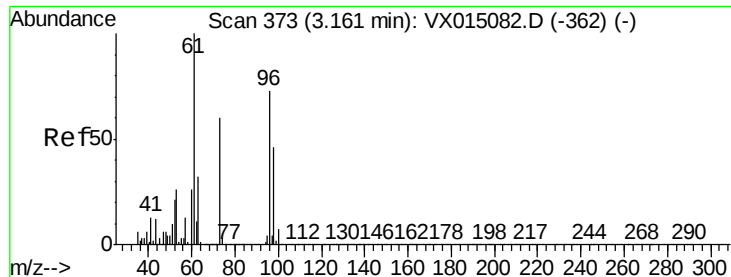
84 100

49 72.3 99.4 149.2#

51 0.0 31.5 47.3#

86 15.3 51.6 77.4#





#21

trans-1,2-Dichloroethene

Concen: 0.340 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

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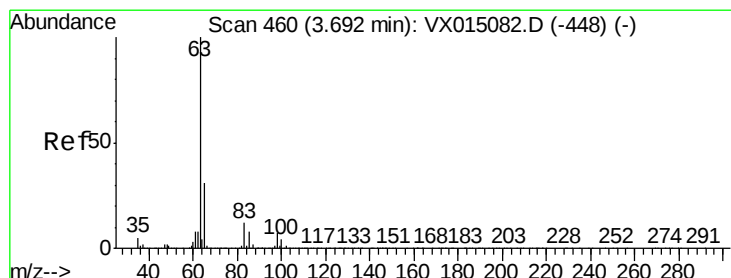
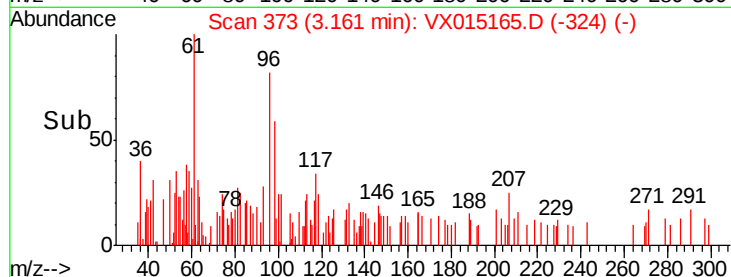
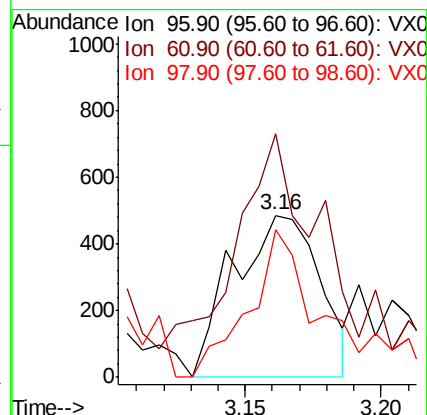
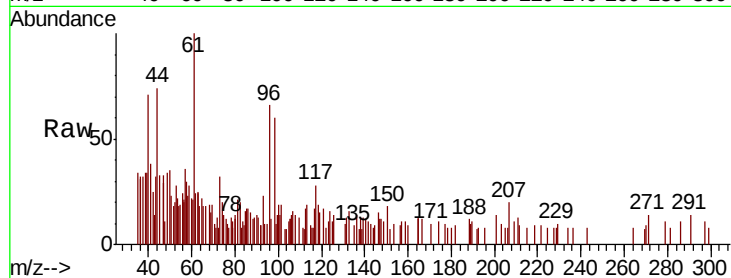
Tot Ion: 96 Resp: 1074

Ion Ratio Lower Upper

96 100

61 115.7 109.9 164.9

98 70.3 50.2 75.2



#24

1,1-Dichloroethane

Concen: 0.466 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

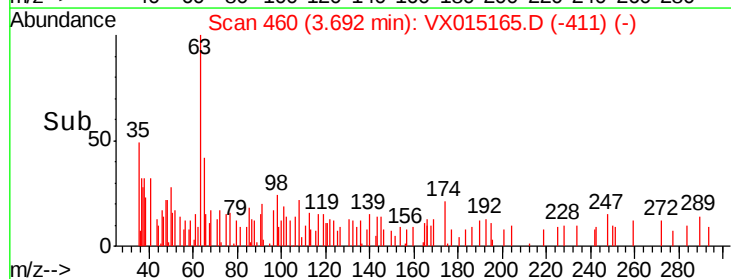
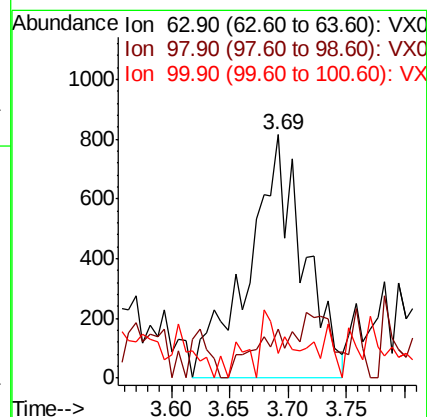
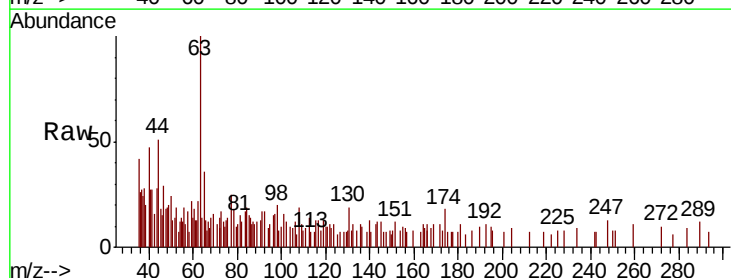
Tgt Ion: 63 Resp: 2662

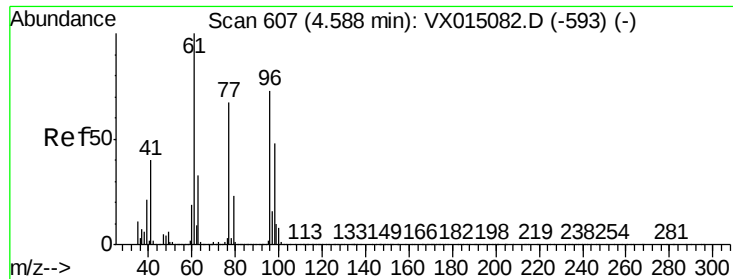
Ion Ratio Lower Upper

63 100

98 9.7 3.7 11.1

100 1.1 2.1 6.5#



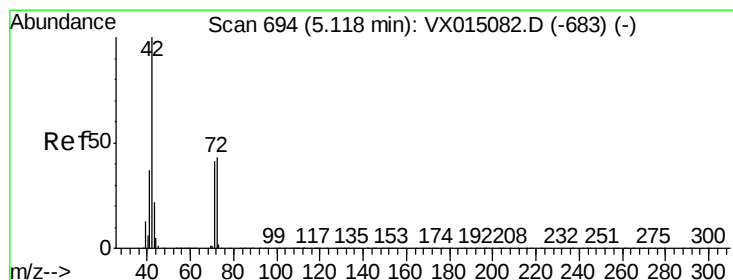
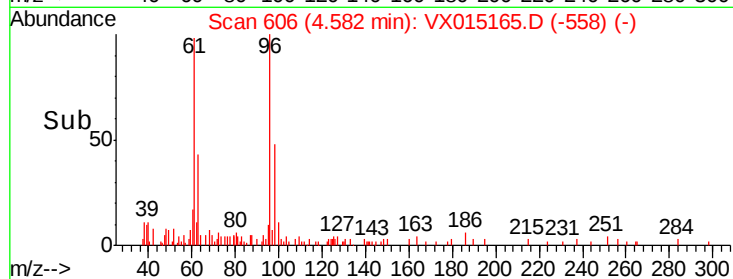
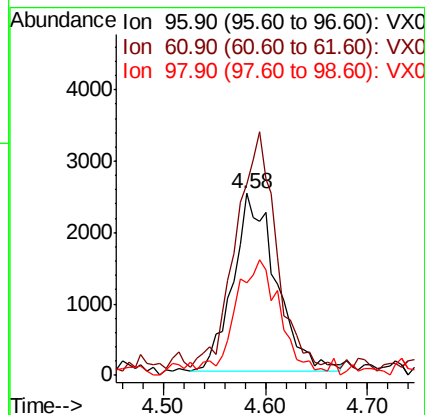
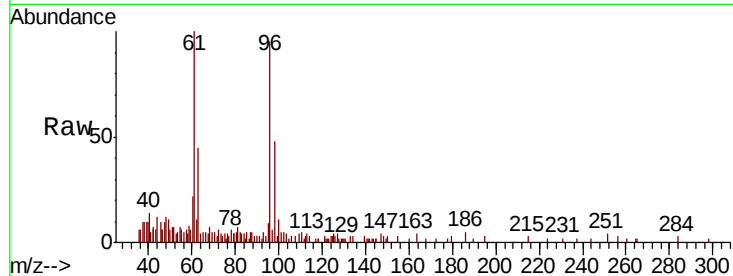


#27

cis-1,2-Dichloroethene
Concen: 2.043 ug/l
RT: 4.58 min Scan# 606
Delta R.T. -0.01 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20200305

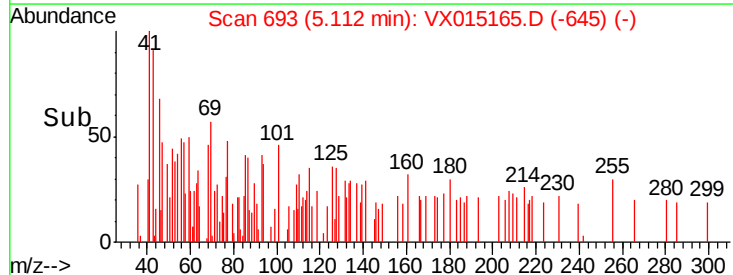
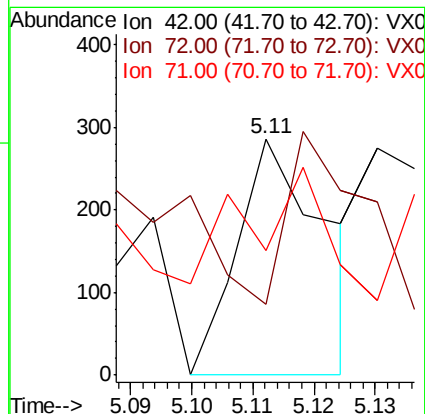
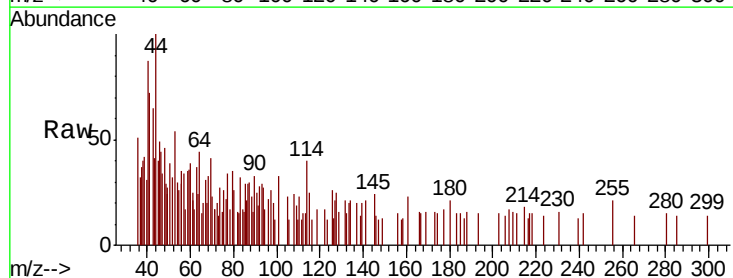
Tot Ion: 96 Resp: 7246
Ion Ratio Lower Upper
96 100
61 127.4 0.0 286.8
98 68.5 0.0 128.4

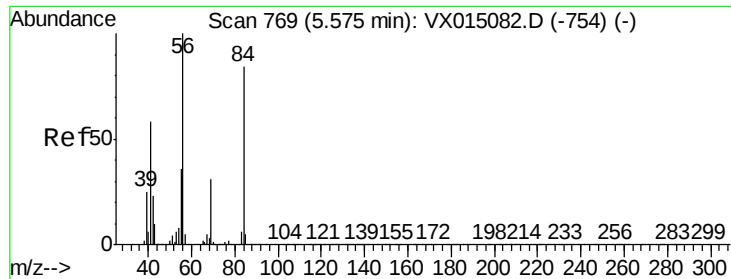


#29

Tetrahydrofuran
Concen: 0.205 ug/l
RT: 5.11 min Scan# 693
Delta R.T. -0.01 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

Tgt Ion: 42 Resp: 283
Ion Ratio Lower Upper
42 100
72 62.9 36.4 54.6#
71 50.5 33.3 49.9#

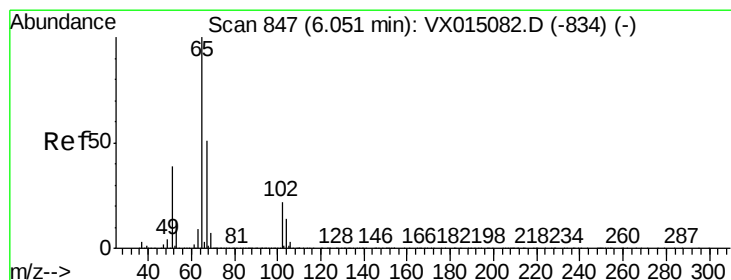
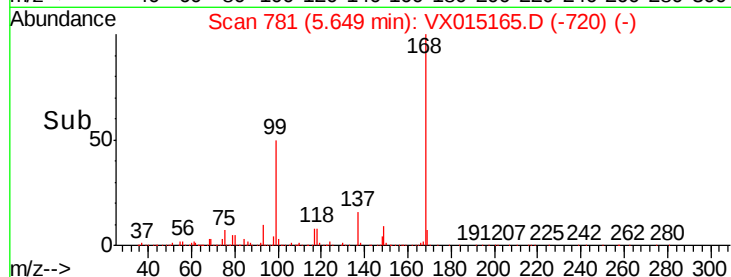
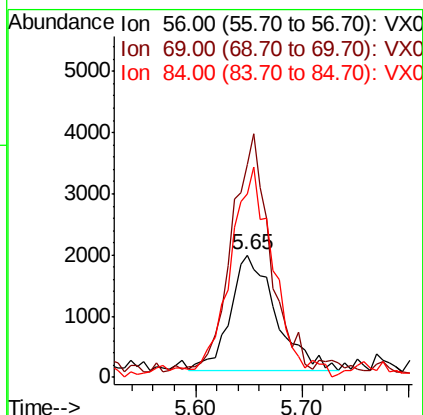
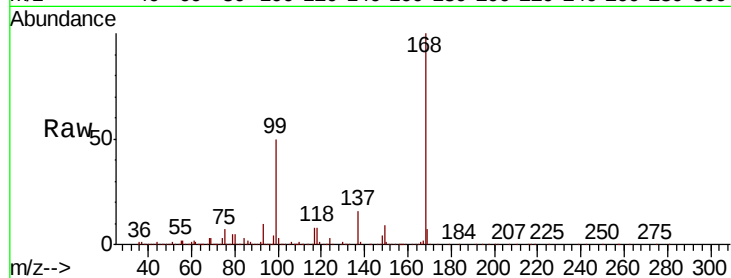




#31
Cyclohexane
Concen: 1.120 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.07 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

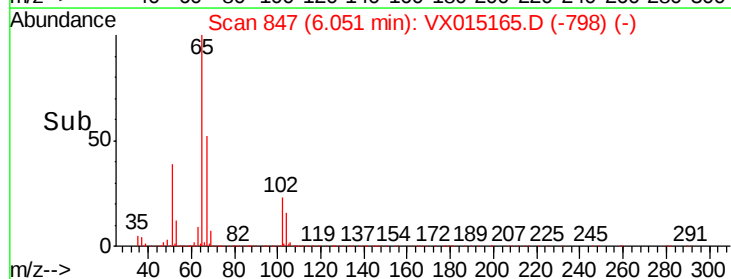
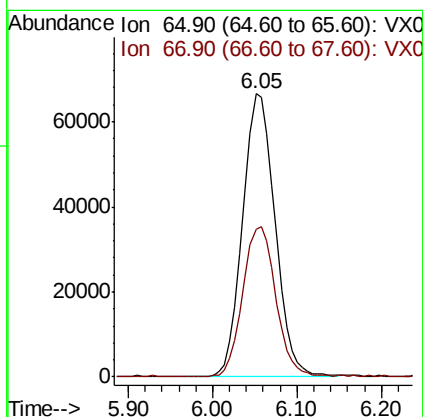
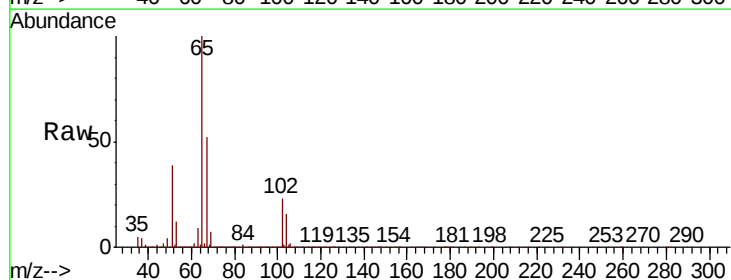
Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20200305

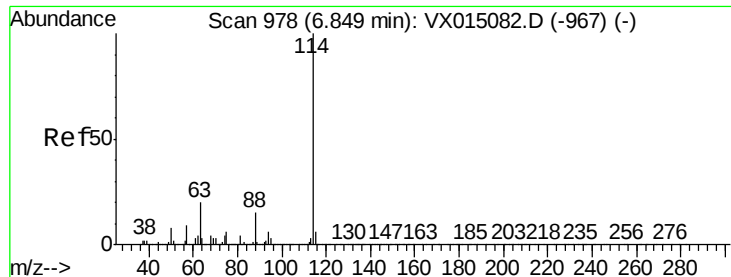
Tot Ion: 56 Resp: 5702
Ion Ratio Lower Upper
56 100
69 175.2 25.0 37.6#
84 155.7 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 47.886 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

Tgt Ion: 65 Resp: 173056
Ion Ratio Lower Upper
65 100
67 53.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20200305

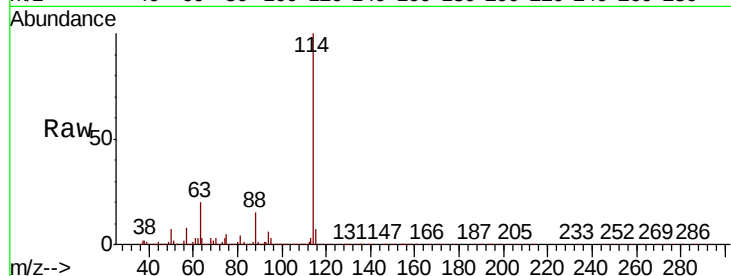
Tot Ion:114 Resp: 500260

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

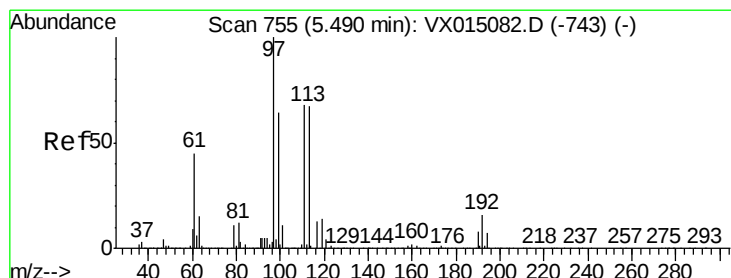
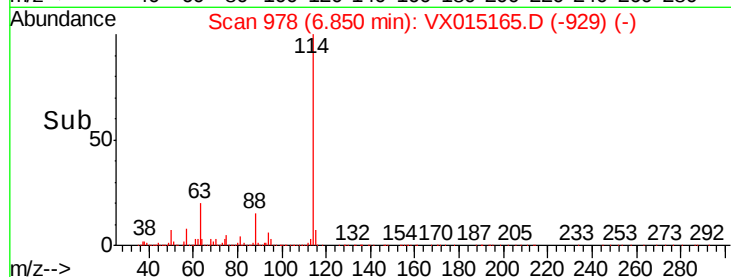
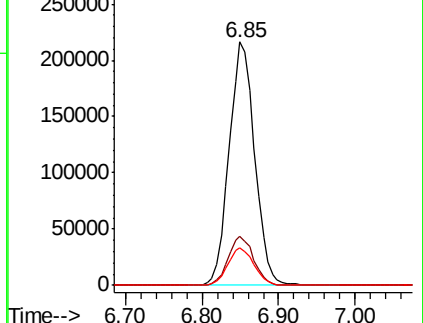
88 15.2 0.0 30.6



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: 47.811 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

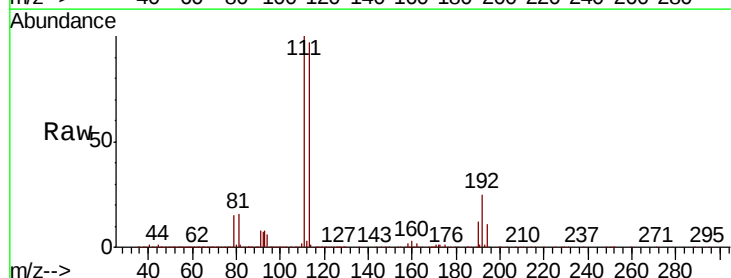
Tgt Ion:113 Resp: 150890

Ion Ratio Lower Upper

113 100

111 101.8 82.6 123.8

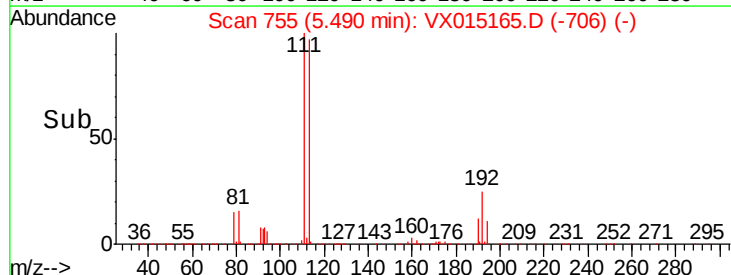
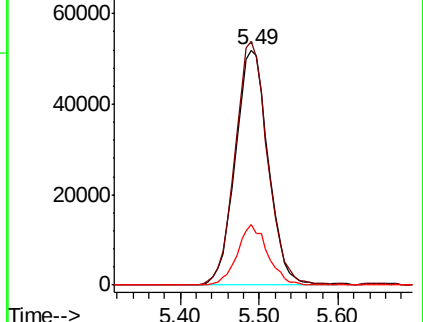
192 24.1 18.6 28.0

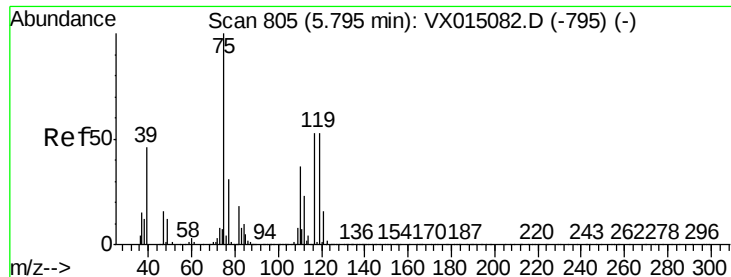


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

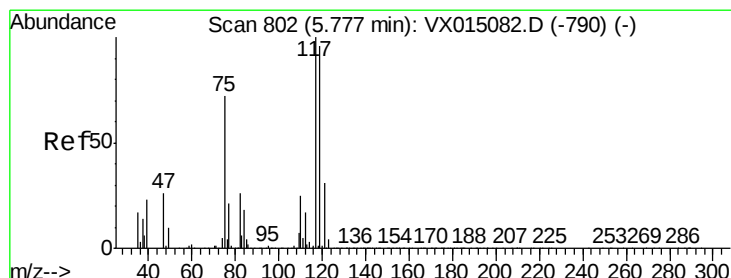
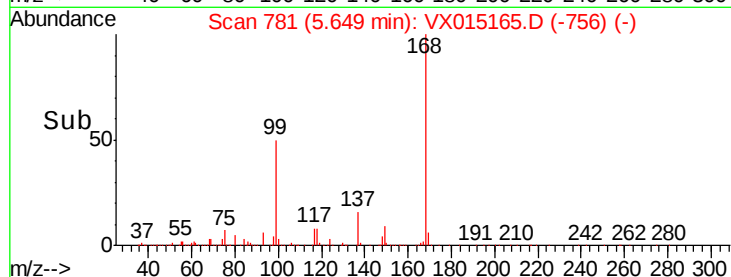
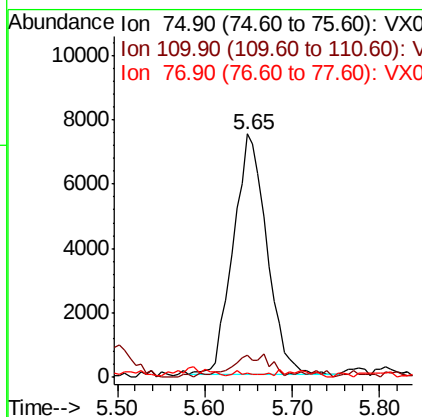
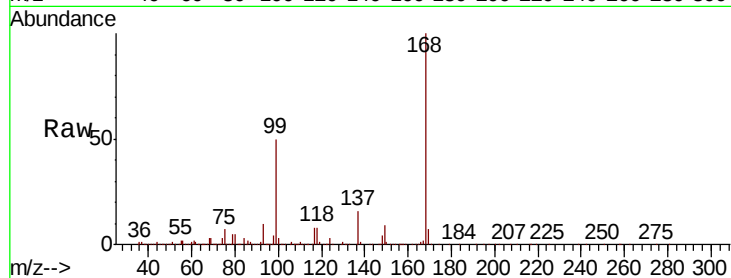




#36
 1,1-Dichloropropene
 Concen: 4.324 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015165.D
 Acq: 10 Mar 2020 13:03

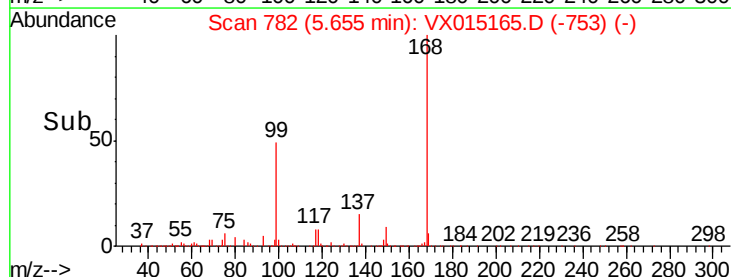
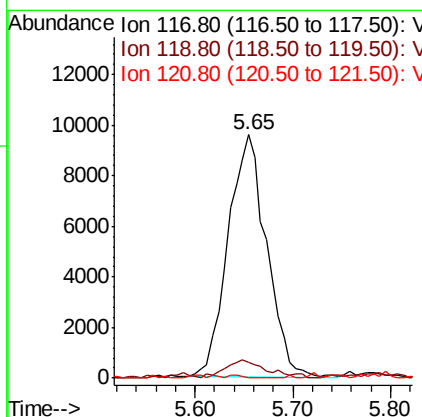
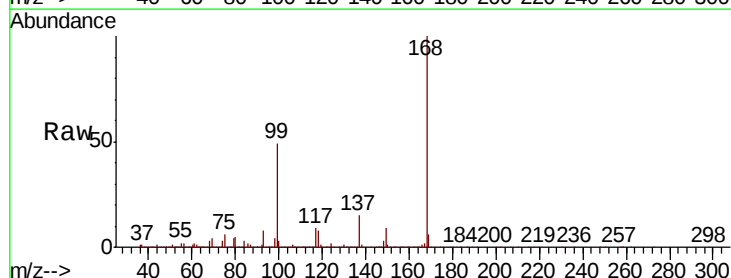
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D2-20200305

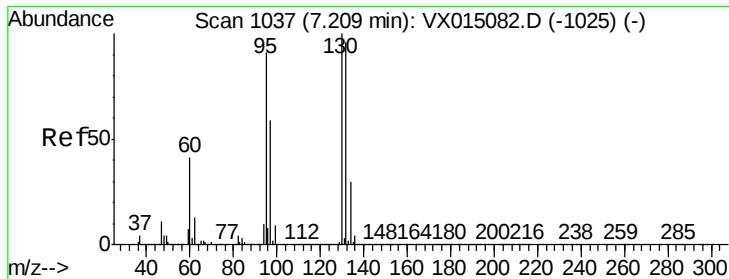
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.9	53.8#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.967 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX015165.D
 Acq: 10 Mar 2020 13:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.9	115.3#
121	0.0	24.6	37.0#





#44

Trichloroethene

Concen: 124.031 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

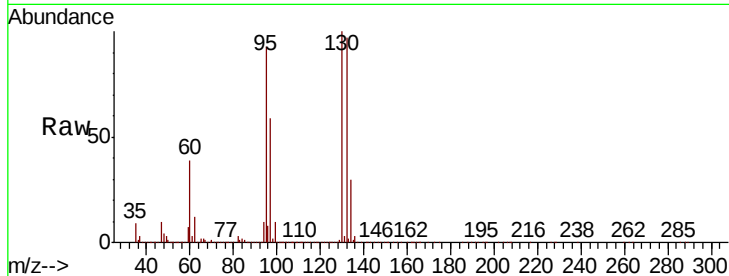
RE134D2-20200305

Tot Ion:130 Resp: 473943

Ion Ratio Lower Upper

130 100

95 93.1 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

250000

200000

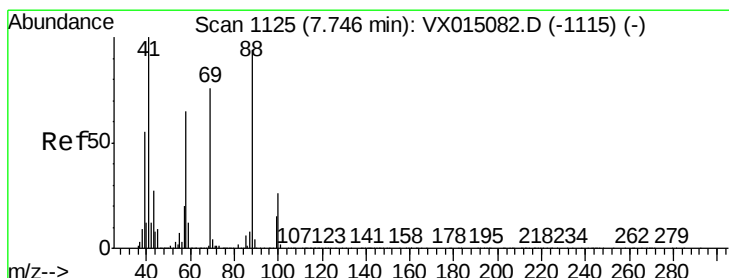
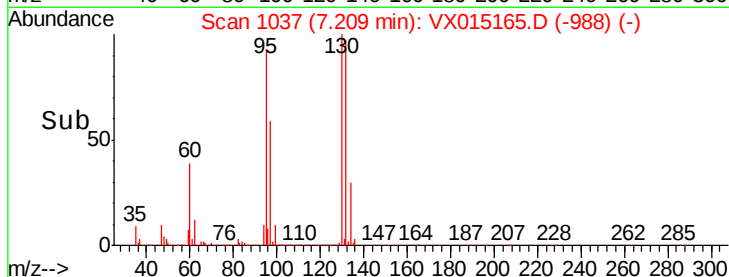
150000

100000

50000

0

Time--> 7.10 7.20 7.30



#49

1,4-Dioxane

Concen: 34.498 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

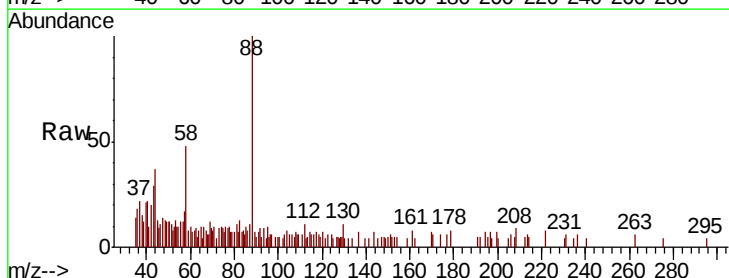
Tgt Ion: 88 Resp: 2865

Ion Ratio Lower Upper

88 100

43 37.0 27.0 40.4

58 58.5 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

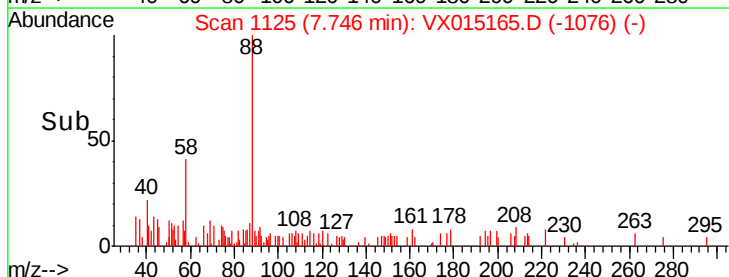
1500

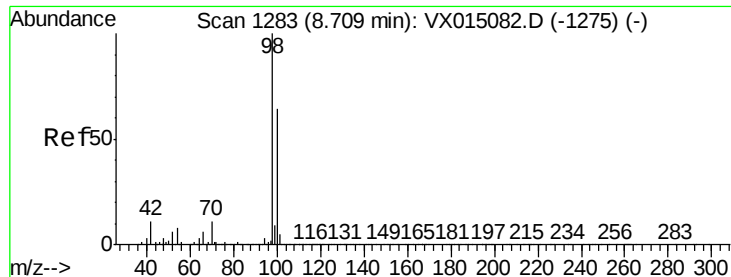
1000

500

0

Time--> 7.70 7.75 7.80





#50

Toluene-d8

Concen: 51.162 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

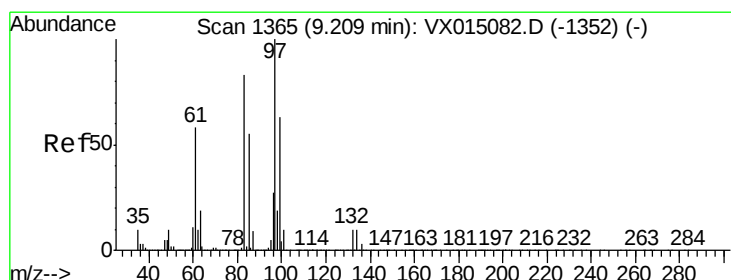
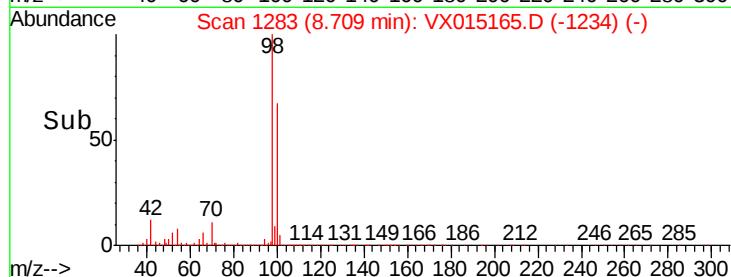
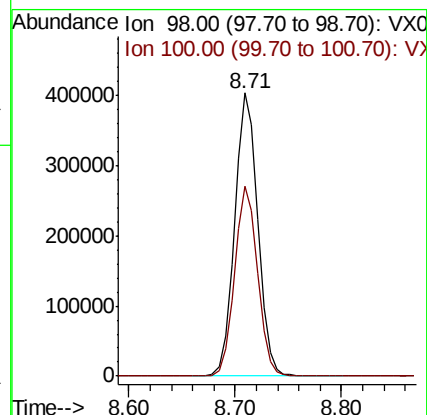
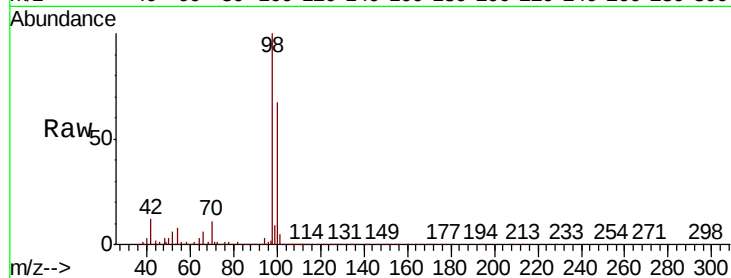
RE134D2-20200305

Tot Ion: 98 Resp: 614200

Ion Ratio Lower Upper

98 100

100 66.7 52.4 78.6



#55

1,1,2-Trichloroethane

Concen: 0.321 ug/l

RT: 9.20 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Tgt Ion: 97 Resp: 1109

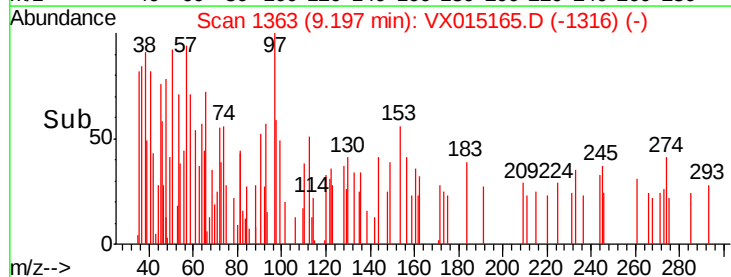
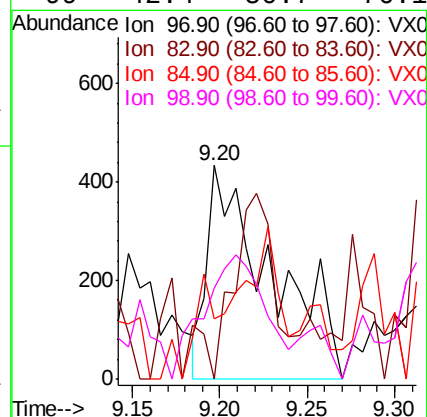
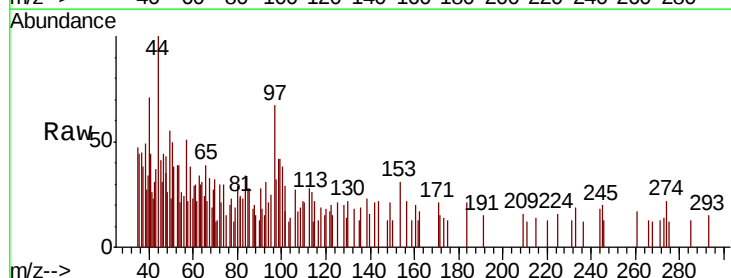
Ion Ratio Lower Upper

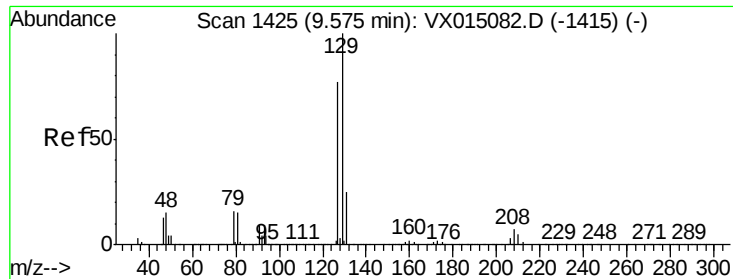
97 100

83 9.9 66.4 99.6#

85 14.1 43.5 65.3#

99 42.4 50.7 76.1#

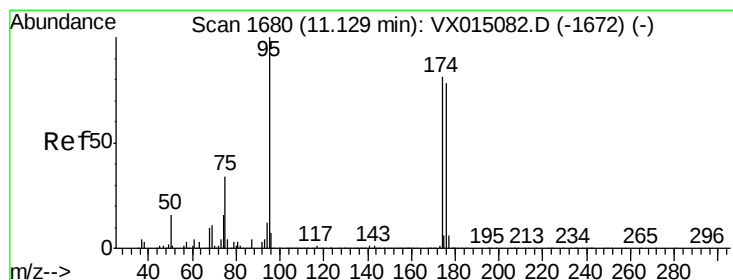
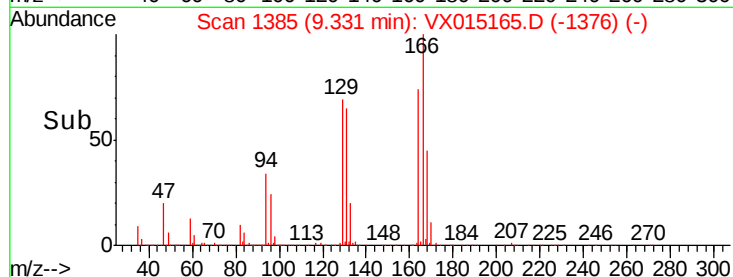
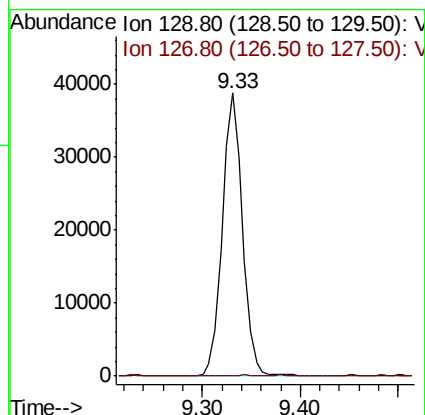
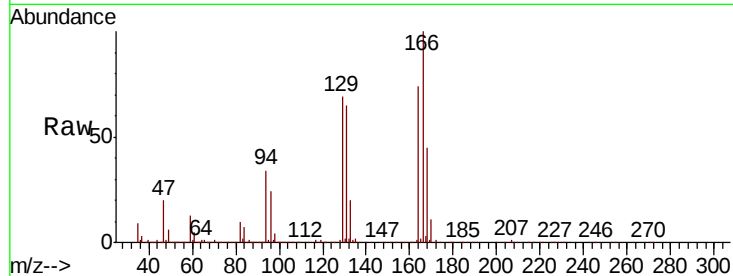




#60
Dibromochloromethane
Concen: 15.286 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.24 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

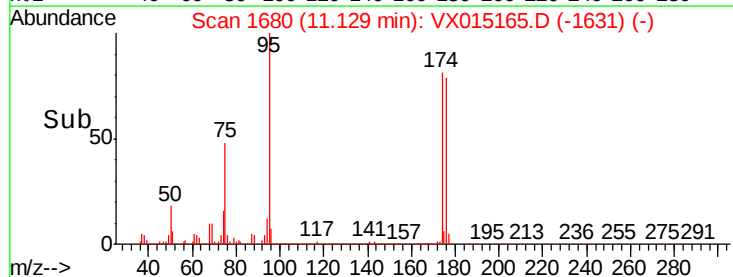
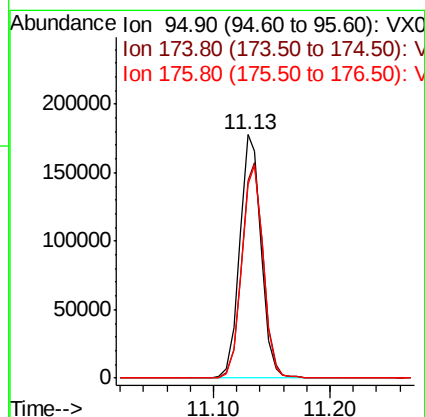
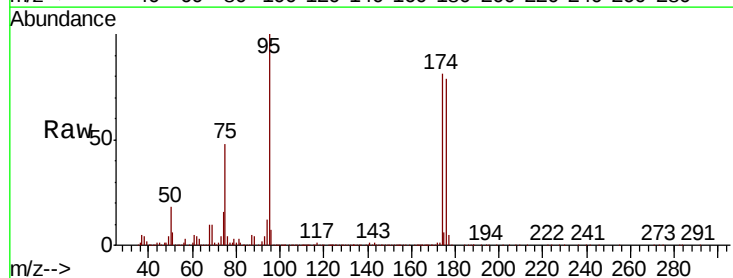
Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20200305

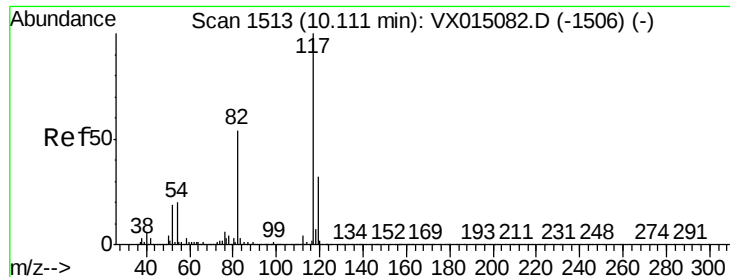
Tot Ion:129 Resp: 55448
Ion Ratio Lower Upper
129 100
127 0.2 38.8 116.3#



#62
4-Bromofluorobenzene
Concen: 53.053 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

Tgt Ion: 95 Resp: 227173
Ion Ratio Lower Upper
95 100
174 89.1 0.0 177.6
176 87.7 0.0 170.2

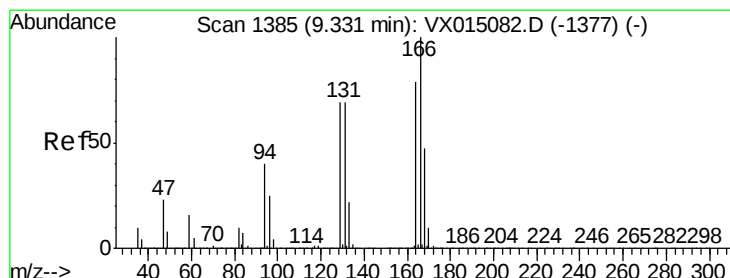
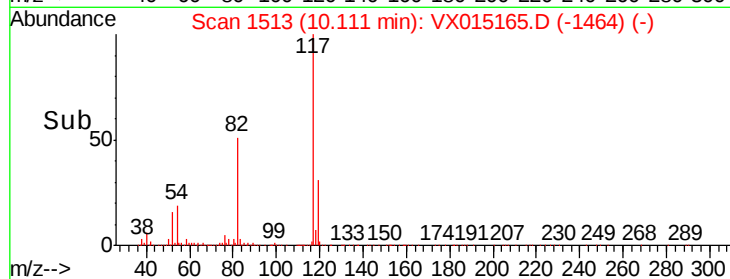
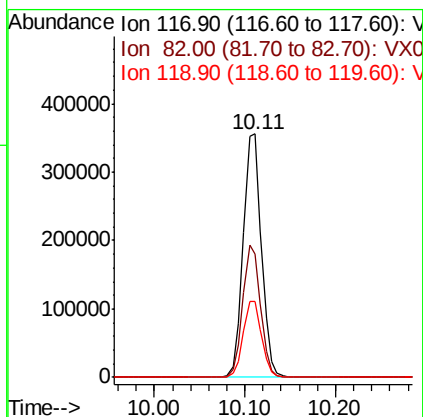
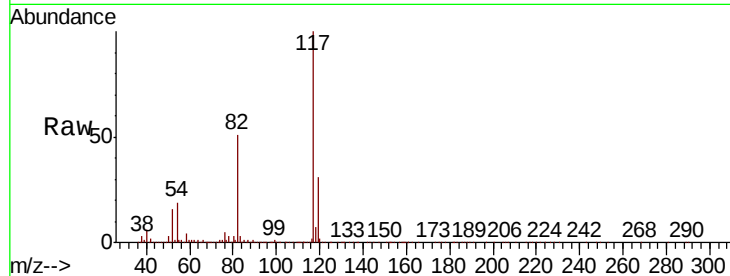




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

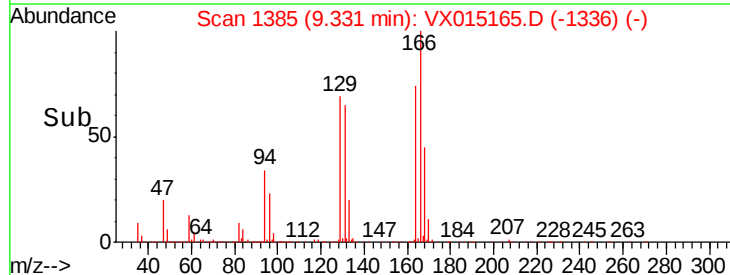
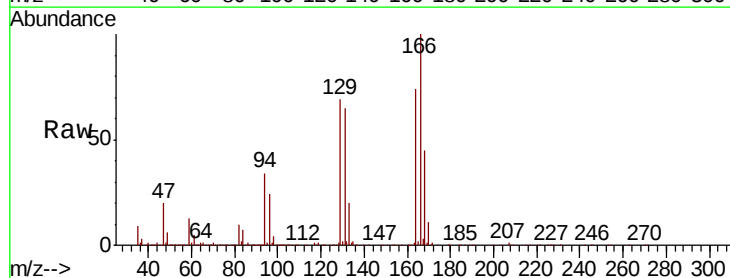
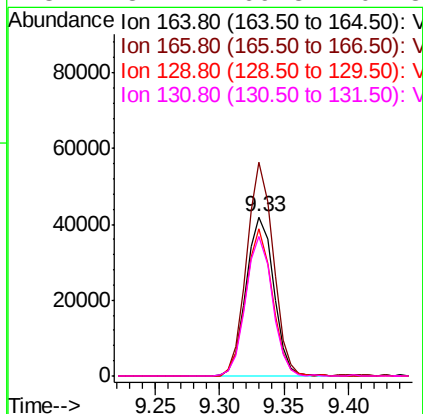
Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20200305

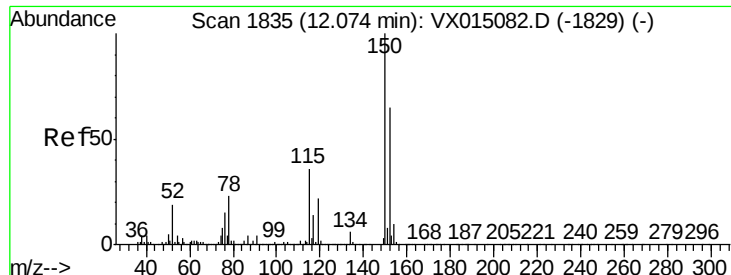
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.7	43.3	64.9
119	31.3	25.8	38.8



#64
Tetrachloroethene
Concen: 15.103 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.4	101.1	151.7
129	92.6	69.4	104.0
131	87.7	69.8	104.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20200305

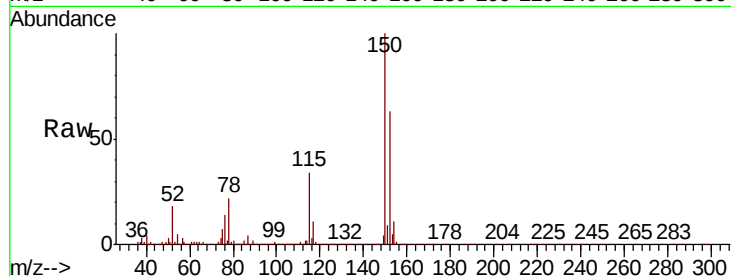
Tot Ion:152 Resp: 253700

Ion Ratio Lower Upper

152 100

115 54.9 38.2 114.6

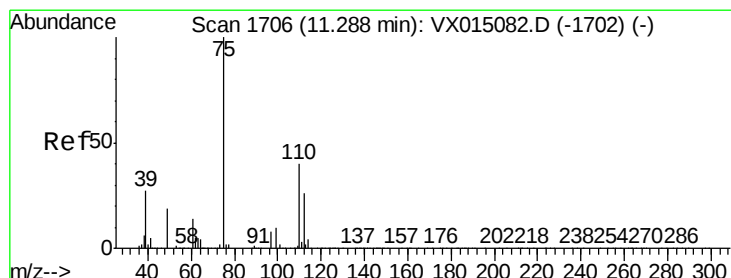
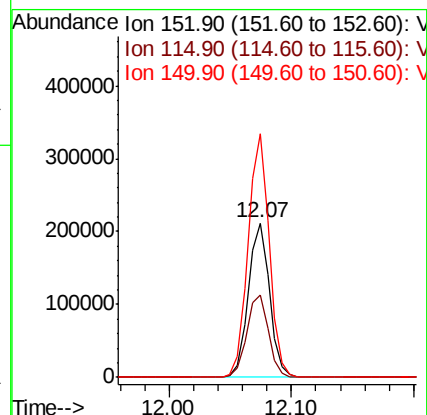
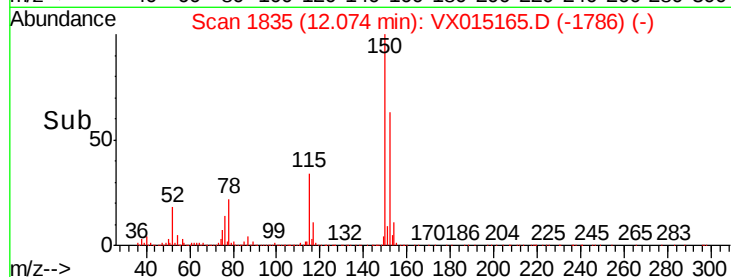
150 156.3 0.0 343.8



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: 21.484 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015165.D

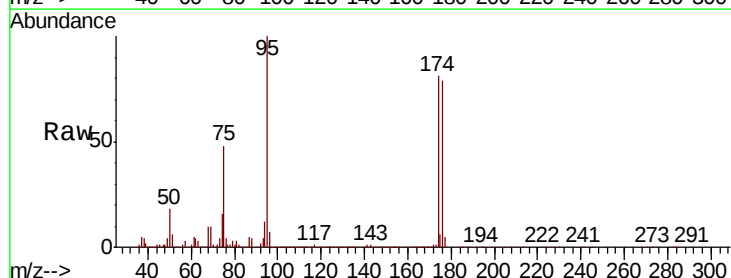
Acq: 10 Mar 2020 13:03

Tgt Ion: 75 Resp: 108723

Ion Ratio Lower Upper

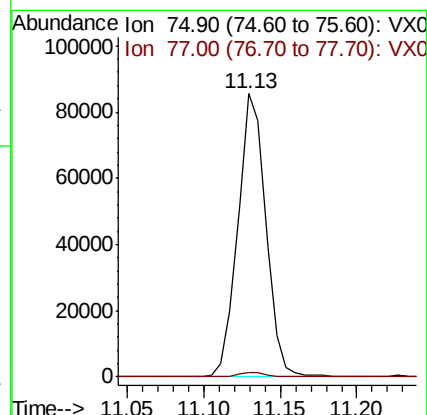
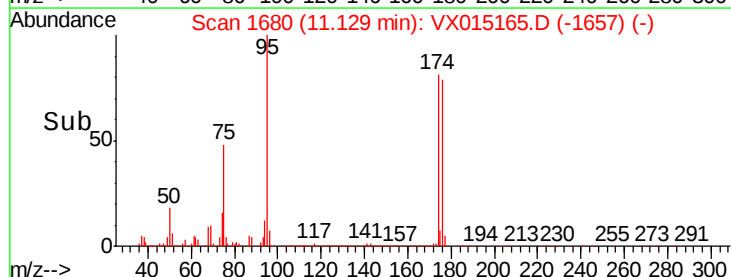
75 100

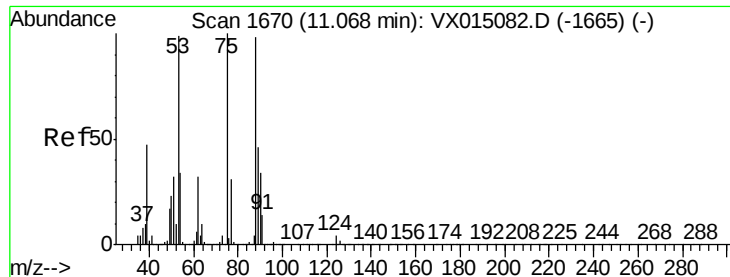
77 1.8 22.6 67.8#



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: 60.973 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20200305

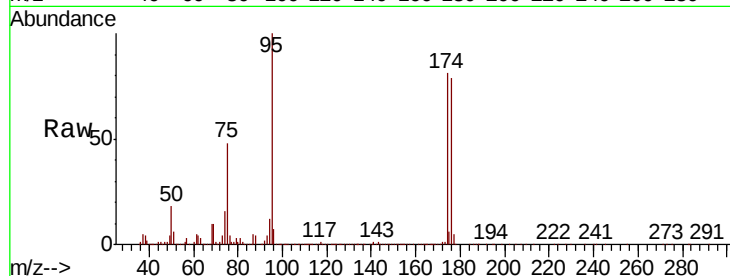
Tot Ion: 75 Resp: 108723

Ion Ratio Lower Upper

75 100

53 0.3 77.9 116.9#

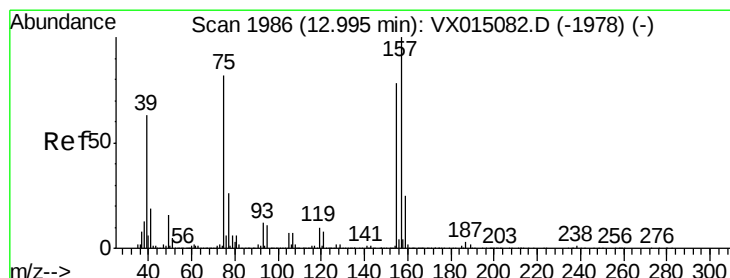
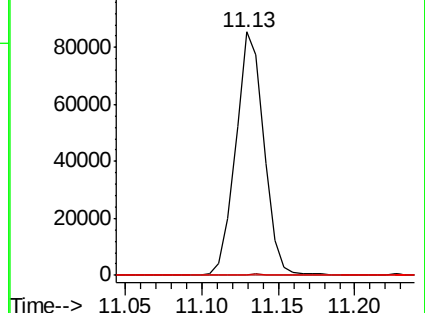
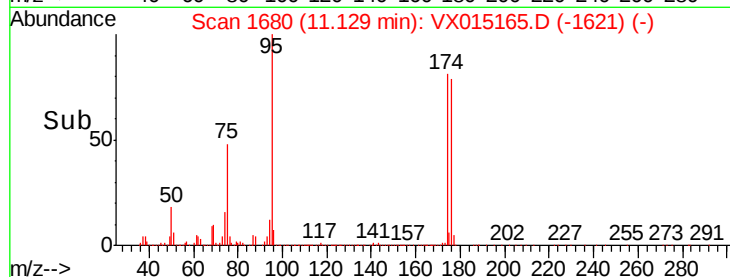
89 0.2 36.2 54.2#



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: 0.214 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VX015165.D

Acq: 10 Mar 2020 13:03

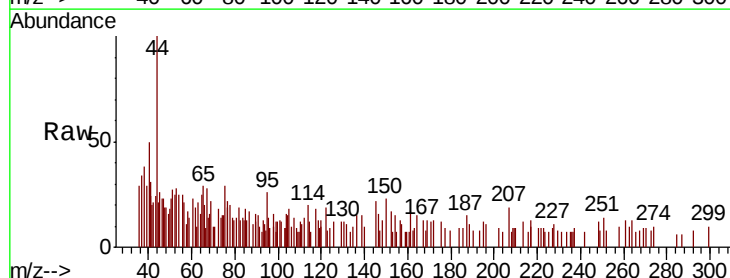
Tgt Ion: 75 Resp: 231

Ion Ratio Lower Upper

75 100

155 20.3 46.6 139.7#

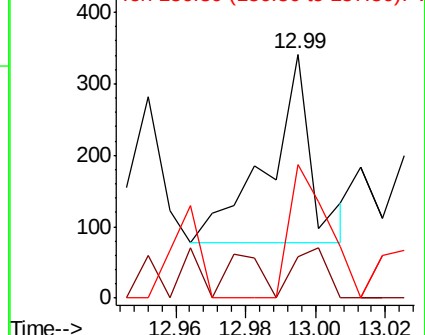
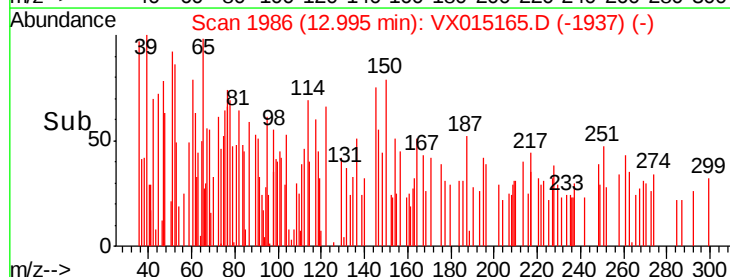
157 62.3 59.2 177.5

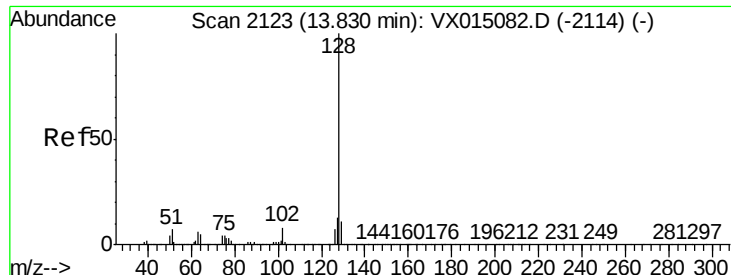


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 1.494 ug/l
RT: 13.82 min Scan# 2122
Delta R.T. -0.01 min
Lab File: VX015165.D
Acq: 10 Mar 2020 13:03

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20200305

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.9	10.3	15.5#
129	0.0	8.6	13.0#

