

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031020\
 Data File : VX015180.D
 Acq On : 10 Mar 2020 18:42
 Operator : JC/SP
 Sample : L1842-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20200305

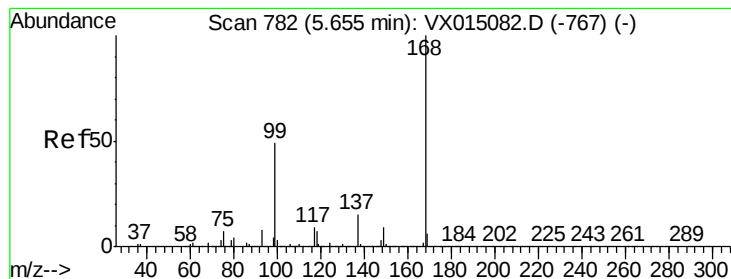
Quant Time: Mar 11 07:32:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	320684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	521350	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	513198	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	261710	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	201485	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	
35) Dibromofluoromethane	5.49	113	167400	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
50) Toluene-d8	8.71	98	646044	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
62) 4-Bromofluorobenzene	11.14	95	232609	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	3743	1.333	ug/l	98
3) Chloromethane	1.31	50	931	0.234	ug/l #	65
8) Diethyl Ether	2.12	74	632	0.291	ug/l	69
9) 1,1,2-Trichlorotrifluoroet	2.38	101	14843	4.916	ug/l	95
11) Tert butyl alcohol	3.05	59	191	0.289	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	2147	0.689	ug/l #	60
13) Acrolein	2.28	56	166	0.268	ug/l #	1
16) Acetone	2.44	43	3481	2.259	ug/l	99
20) Methylene Chloride	2.84	84	1063	0.295	ug/l #	52
24) 1,1-Dichloroethane	3.70	63	2818	0.469	ug/l #	85
25) 2-Butanone	4.65	43	674	0.299	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	4941	1.324	ug/l	89
29) Tetrahydrofuran	5.12	42	425	0.292	ug/l #	25
30) Chloroform	5.20	83	1404	0.240	ug/l	92
32) 1,1,1-Trichloroethane	5.48	97	1038	0.214	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	22778	4.726	ug/l #	47
38) Carbon Tetrachloride	5.65	117	29840	6.559	ug/l #	16
42) 1,2-Dichloroethane	6.22	62	1524	0.310	ug/l	87
44) Trichloroethene	7.21	130	266953	67.036	ug/l	98
49) 1,4-Dioxane	7.75	88	1719	19.862	ug/l #	81
64) Tetrachloroethene	9.33	164	4702	1.108	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	116575	22.331	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	116575	63.376	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.13	75	236	0.212	ug/l	86
95) Naphthalene	13.82	128	330	1.438	ug/l #	1

(#) = 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

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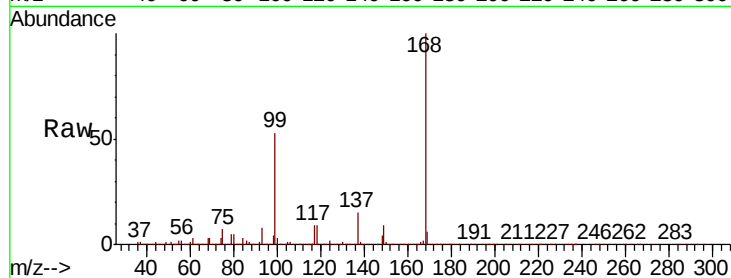
RE132D3-20200305

Tot Ion:168 Resp: 320684

Ion Ratio Lower Upper

168 100

99 52.8 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

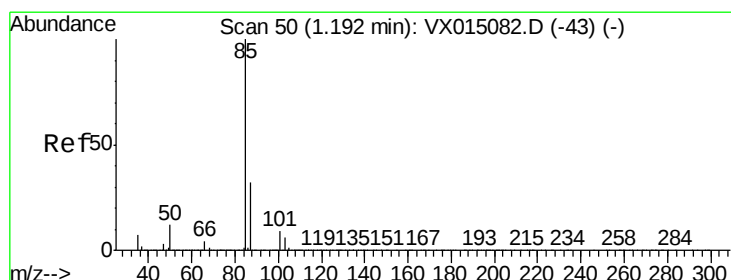
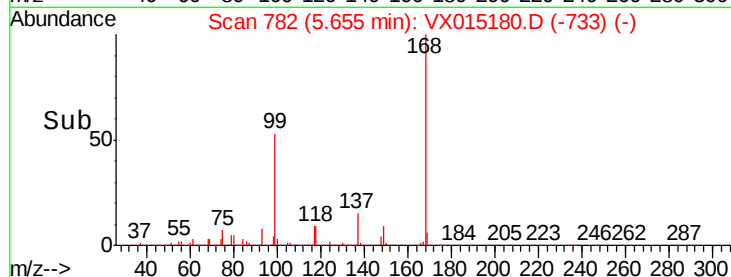
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.333 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015180.D

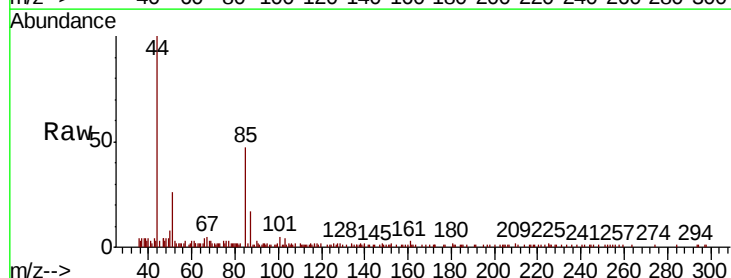
Acq: 10 Mar 2020 18:42

Tgt Ion: 85 Resp: 3743

Ion Ratio Lower Upper

85 100

87 33.4 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

4000

3000

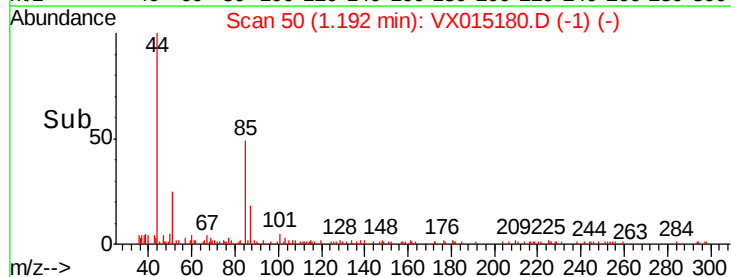
2000

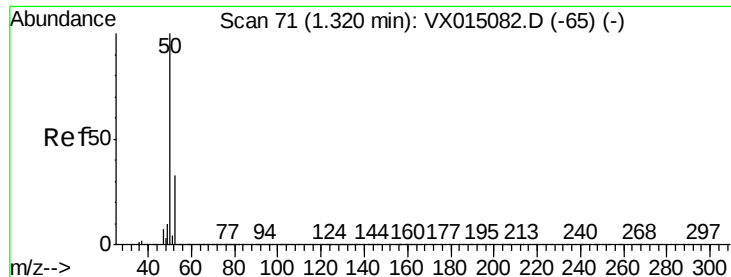
1000

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

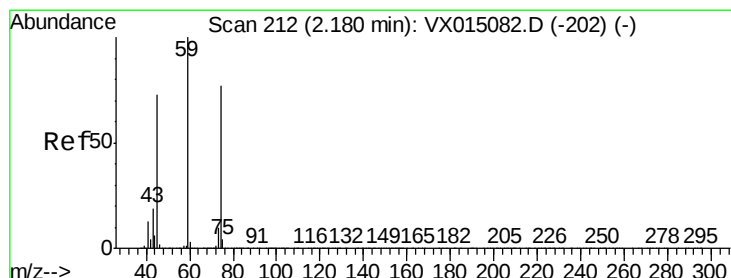
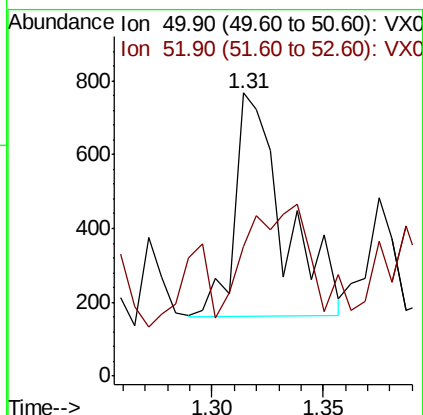
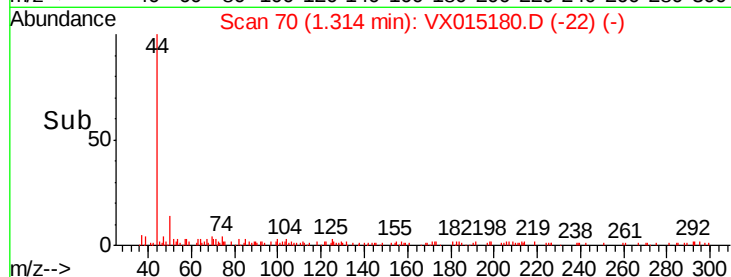
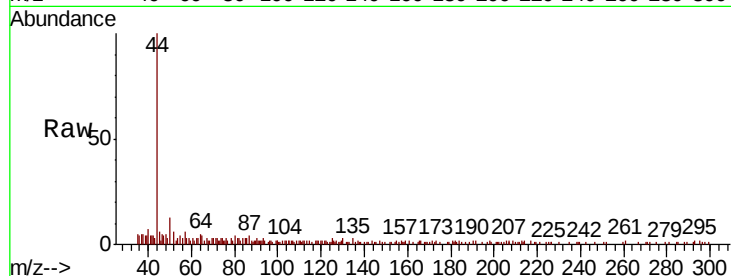
RE132D3-20200305

Tot Ion: 50 Resp: 931

Ion Ratio Lower Upper

50 100

52 12.8 26.2 39.2#



#8

Diethyl Ether

Concen: 0.291 ug/l

RT: 2.12 min Scan# 203

Delta R.T. -0.05 min

Lab File: VX015180.D

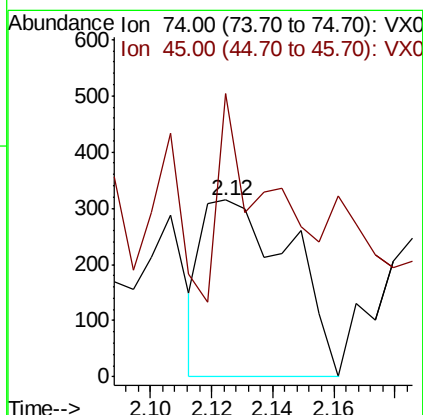
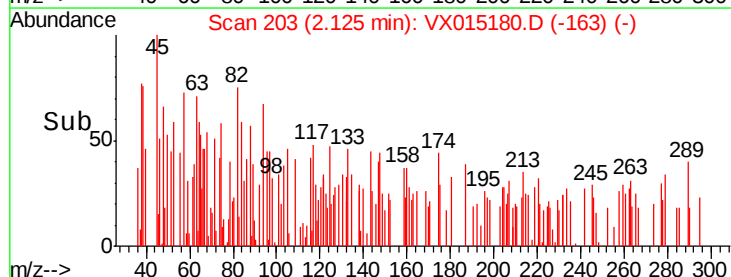
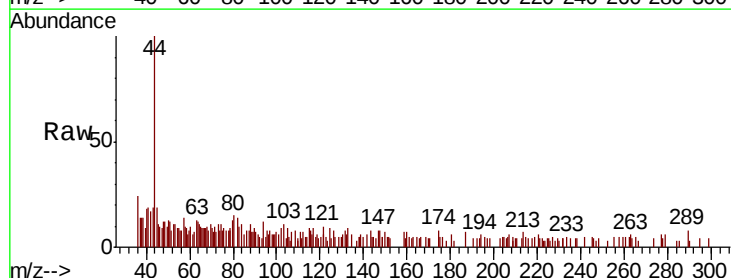
Acq: 10 Mar 2020 18:42

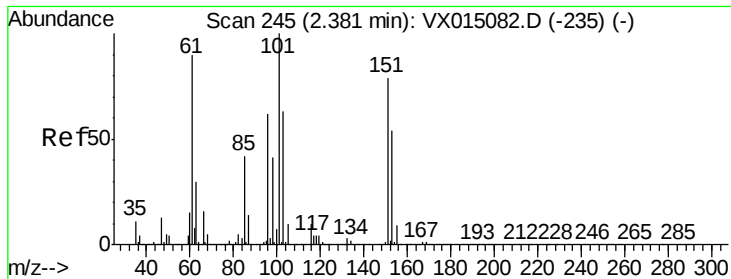
Tgt Ion: 74 Resp: 632

Ion Ratio Lower Upper

74 100

45 67.4 49.2 147.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.916 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20200305

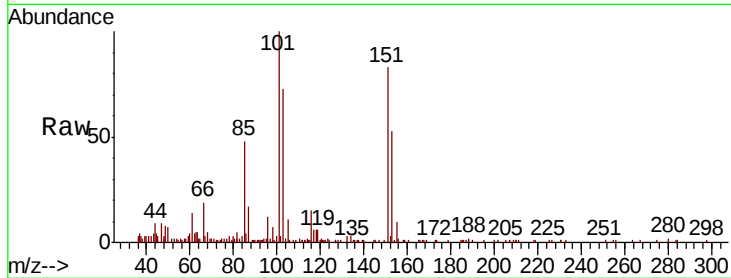
Tot Ion:101 Resp: 14843

Ion Ratio Lower Upper

101 100

85 42.8 33.7 50.5

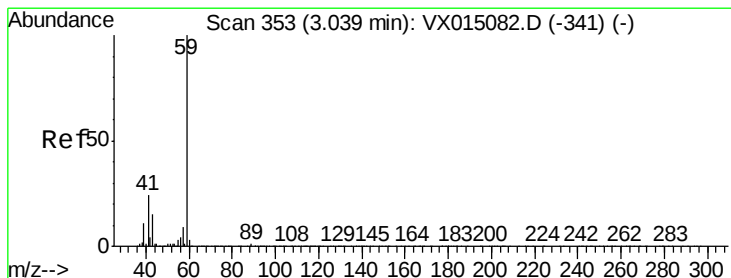
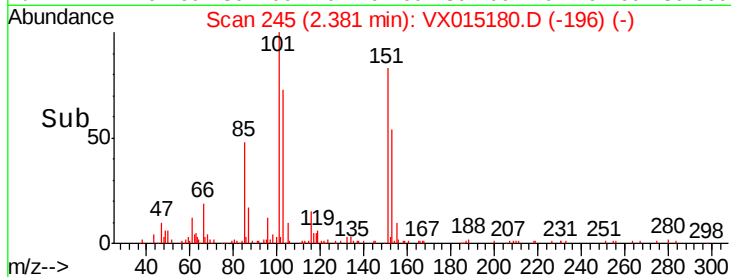
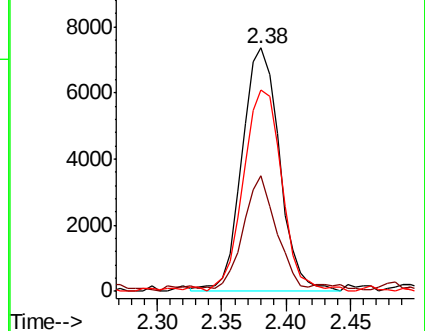
151 85.9 64.0 96.0



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: 0.289 ug/l

RT: 3.05 min Scan# 354

Delta R.T. 0.01 min

Lab File: VX015180.D

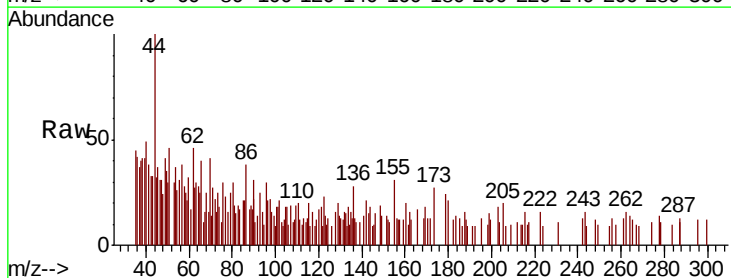
Acq: 10 Mar 2020 18:42

Tgt Ion: 59 Resp: 191

Ion Ratio Lower Upper

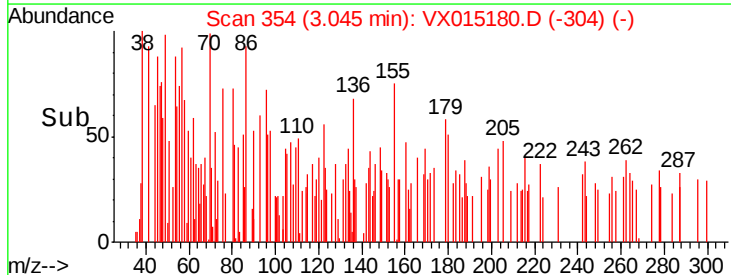
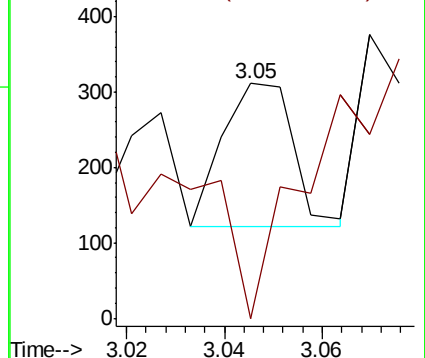
59 100

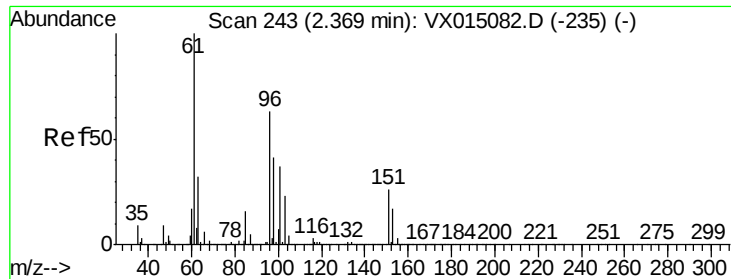
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.689 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20200305

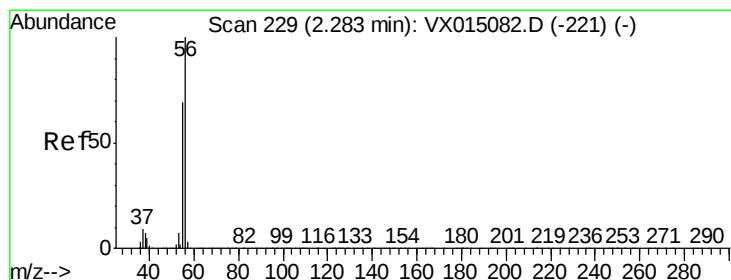
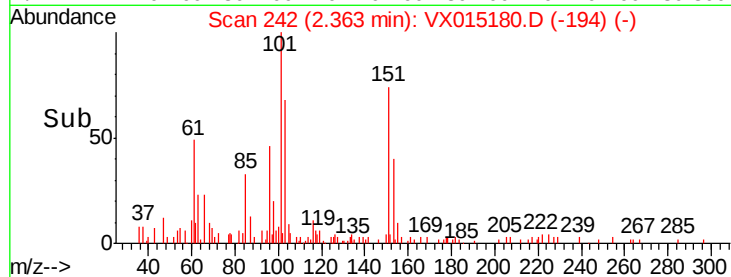
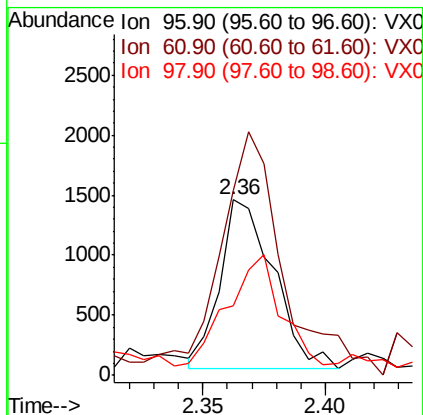
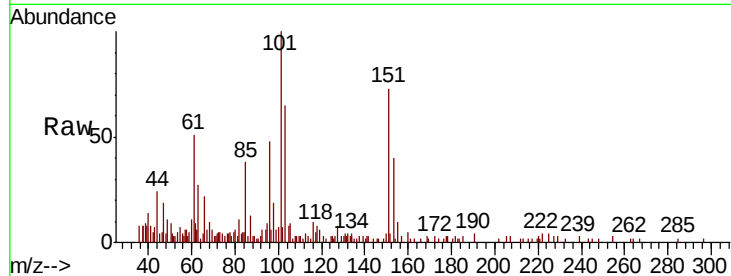
Tot Ion: 96 Resp: 2147

Ion Ratio Lower Upper

96 100

61 102.5 126.2 189.4#

98 36.6 51.4 77.0#



#13

Acrolein

Concen: 0.268 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX015180.D

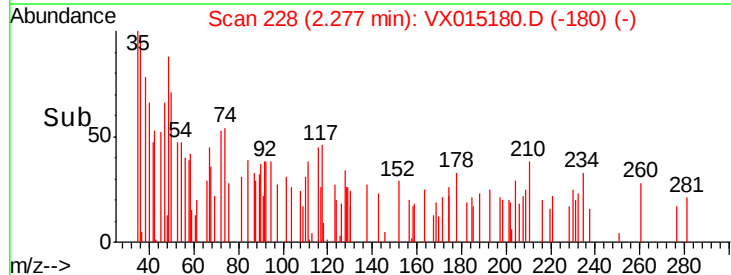
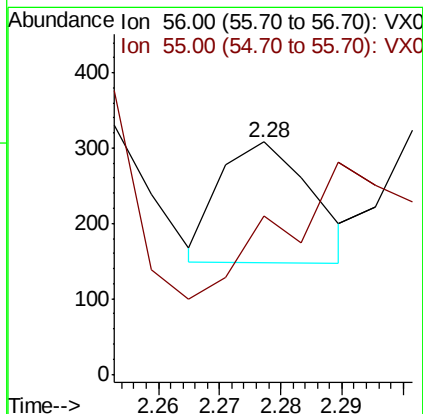
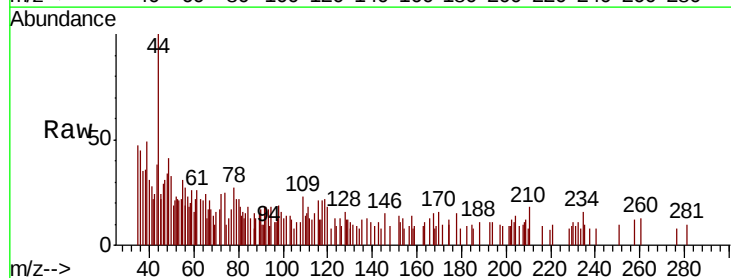
Acq: 10 Mar 2020 18:42

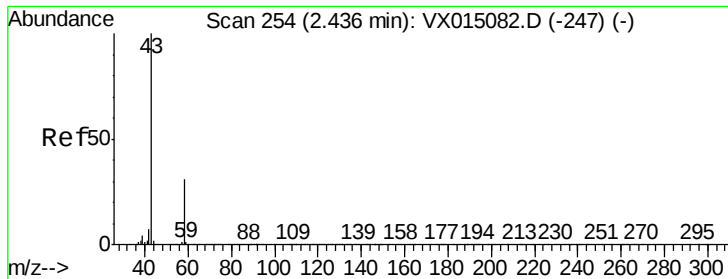
Tgt Ion: 56 Resp: 166

Ion Ratio Lower Upper

56 100

55 156.6 55.4 83.0#





#16

Acetone

Concen: 2.259 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

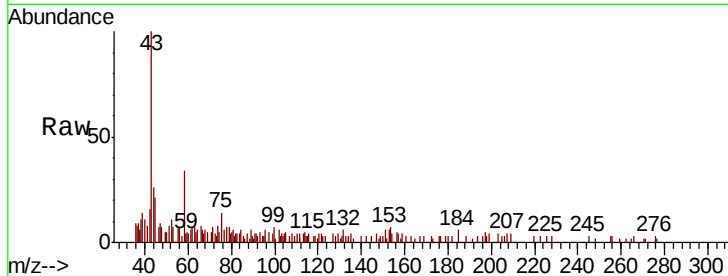
RE132D3-20200305

Tot Ion: 43 Resp: 3481

Ion Ratio Lower Upper

43 100

58 30.6 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2500

2000

1500

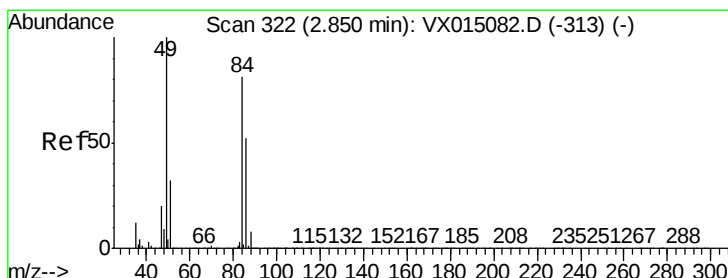
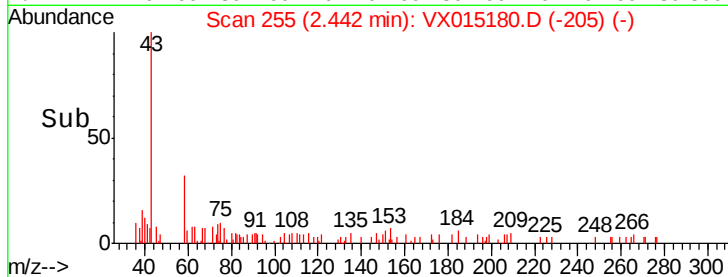
1000

500

0

2.40 2.45 2.50

Time-->



#20

Methylene Chloride

Concen: 0.295 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Tgt Ion: 84 Resp: 1063

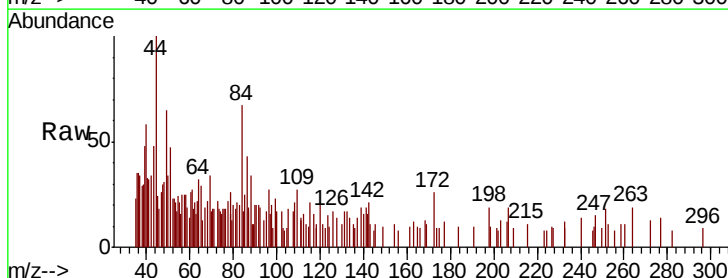
Ion Ratio Lower Upper

84 100

49 52.0 99.4 149.2#

51 23.3 31.5 47.3#

86 40.9 51.6 77.4#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

800

600

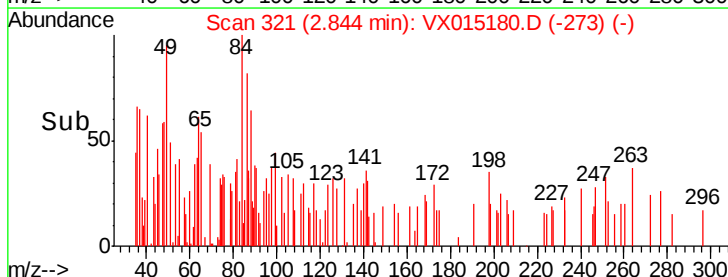
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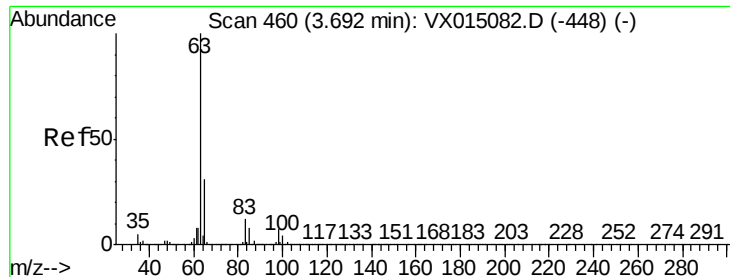
200

0

2.80 2.85 2.90

Time-->





#24

1,1-Dichloroethane

Concen: 0.469 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

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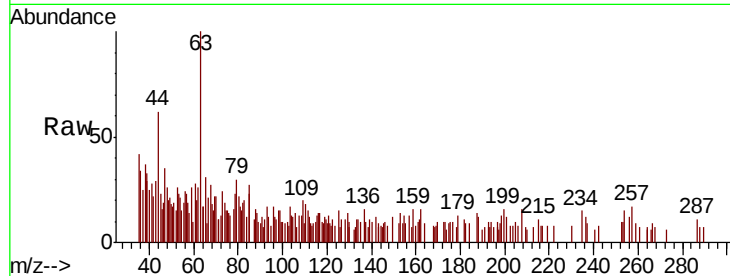
Tot Ion: 63 Resp: 2818

Ion Ratio Lower Upper

63 100

98 0.0 3.7 11.1#

100 3.1 2.1 6.5

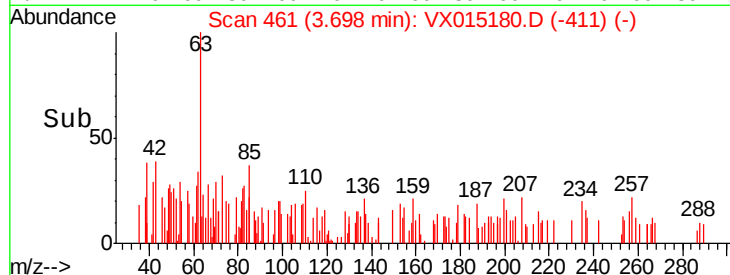


Abundance Ion 62.90 (62.60 to 63.60): VX0

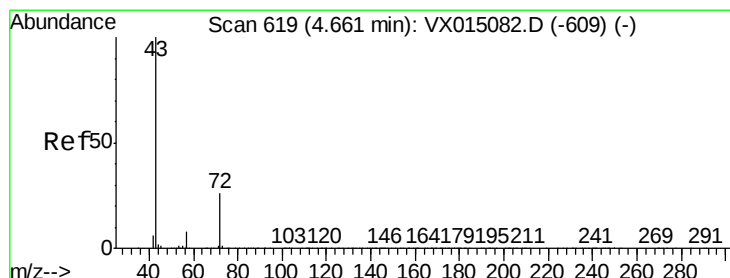
Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

Time-->



Time-->



#25

2-Butanone

Concen: 0.299 ug/l

RT: 4.65 min Scan# 617

Delta R.T. -0.01 min

Lab File: VX015180.D

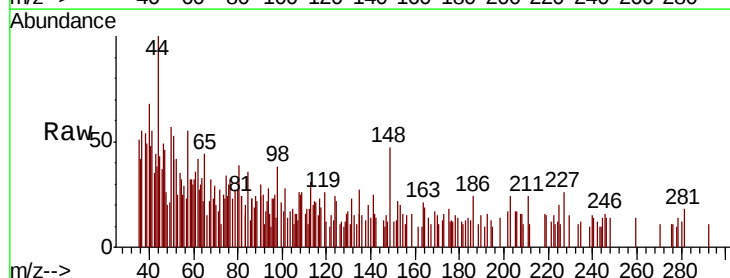
Acq: 10 Mar 2020 18:42

Tgt Ion: 43 Resp: 674

Ion Ratio Lower Upper

43 100

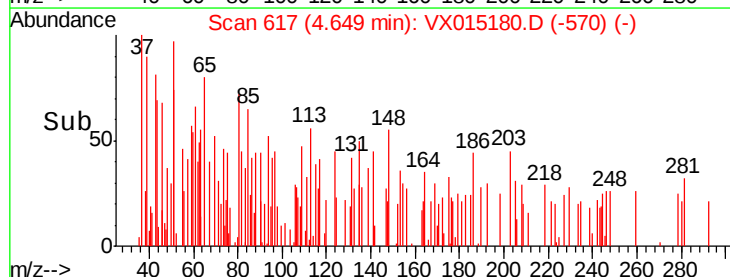
72 0.9 20.6 30.8#



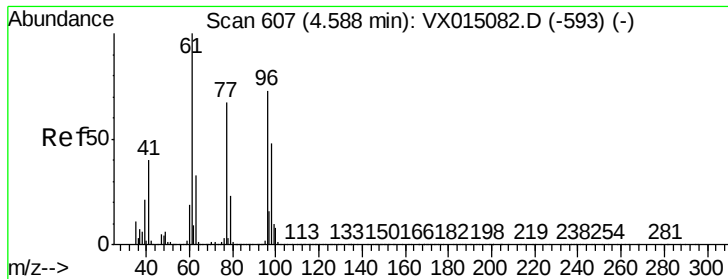
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->



Time-->

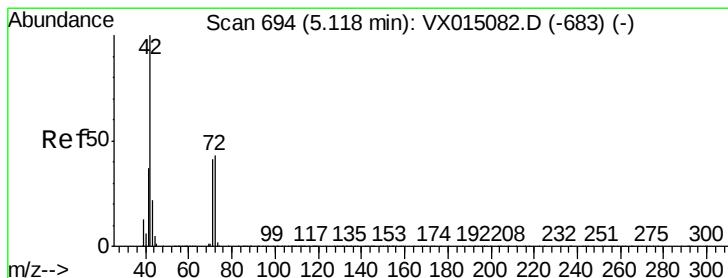
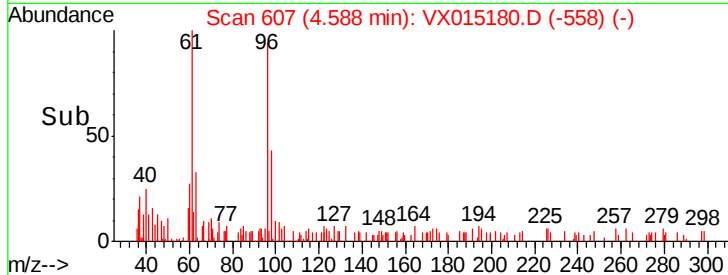
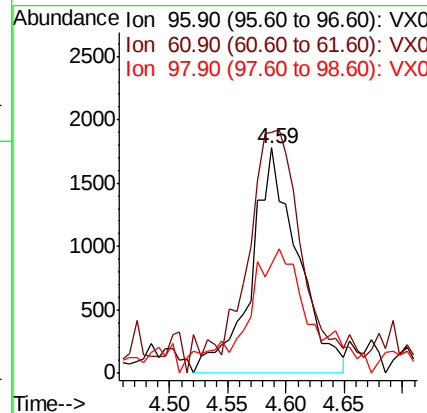
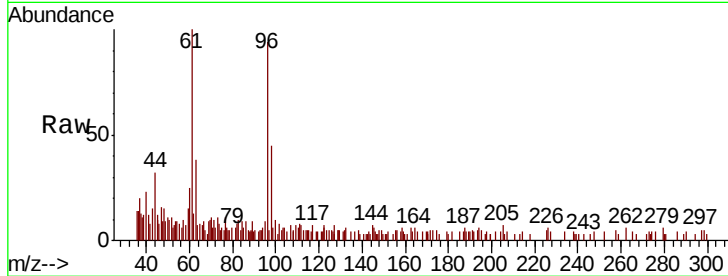


#27

cis-1,2-Dichloroethene
Concen: 1.324 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.00 min
Lab File: VX015180.D
Acq: 10 Mar 2020 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20200305

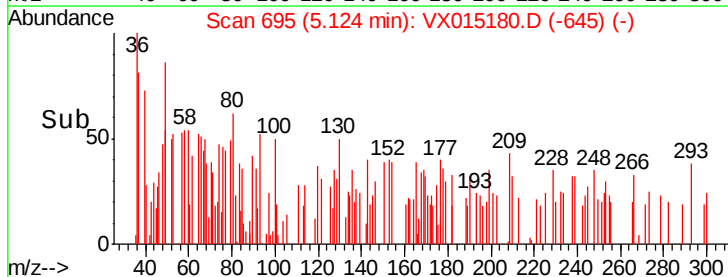
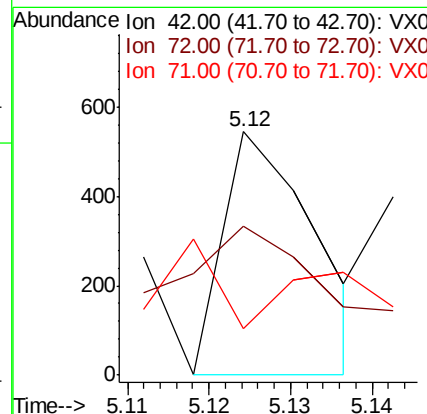
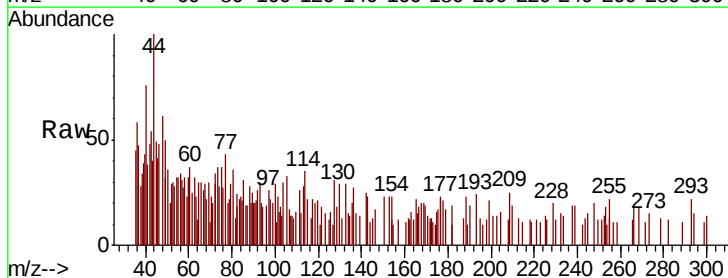
Tot Ion	Ratio	Lower	Upper
96	100		
61	133.9	0.0	286.8
98	77.5	0.0	128.4

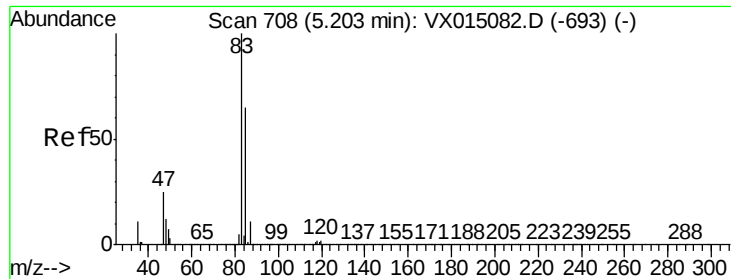


#29

Tetrahydrofuran
Concen: 0.292 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX015180.D
Acq: 10 Mar 2020 18:42

Tgt Ion	Ratio	Lower	Upper
42	100		
72	123.3	36.4	54.6#
71	24.7	33.3	49.9#





#30

Chloroform

Concen: 0.240 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

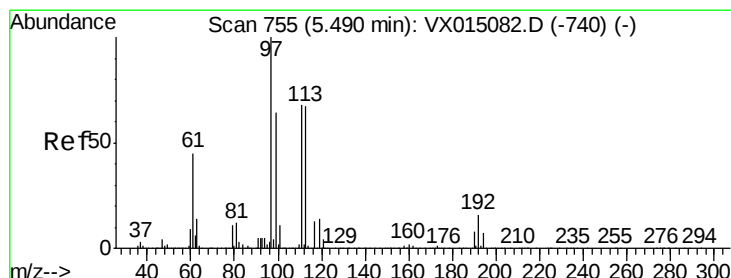
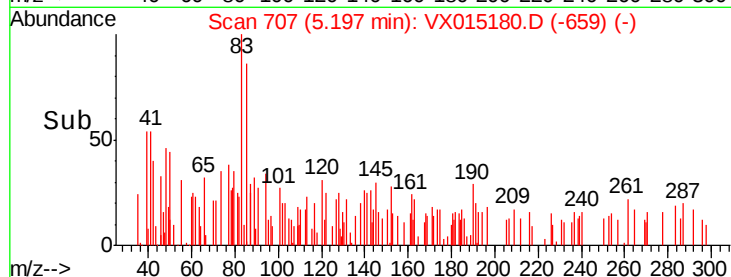
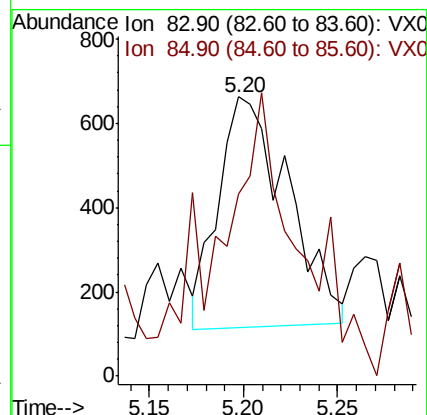
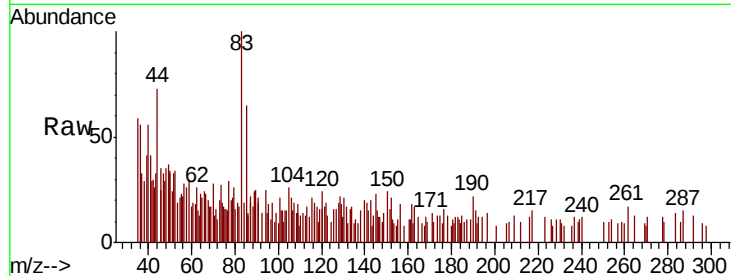
RE132D3-20200305

Tot Ion: 83 Resp: 1404

Ion Ratio Lower Upper

83 100

85 71.4 52.0 78.0



#32

1,1,1-Trichloroethane

Concen: 0.214 ug/l

RT: 5.48 min Scan# 753

Delta R.T. -0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

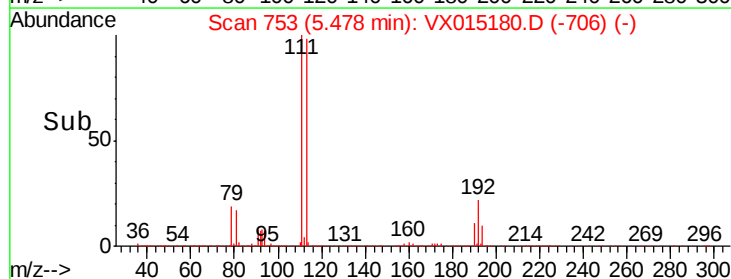
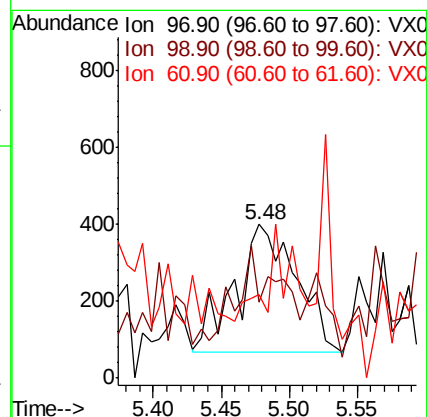
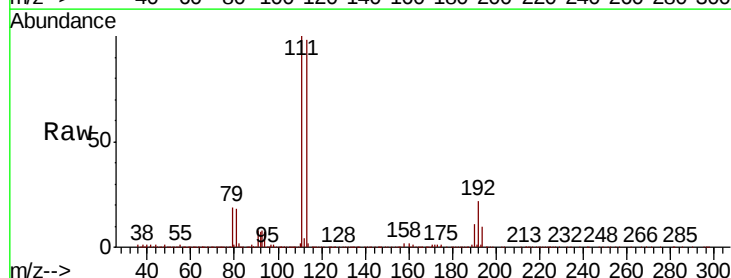
Tgt Ion: 97 Resp: 1038

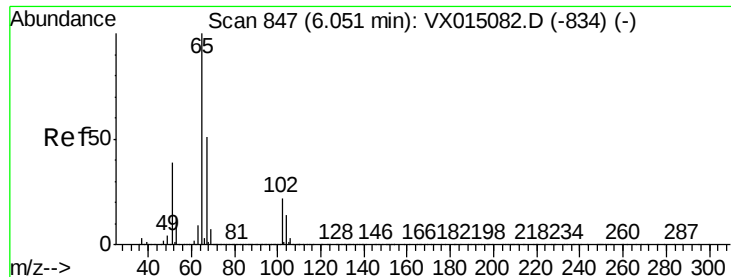
Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

61 49.1 36.6 54.8

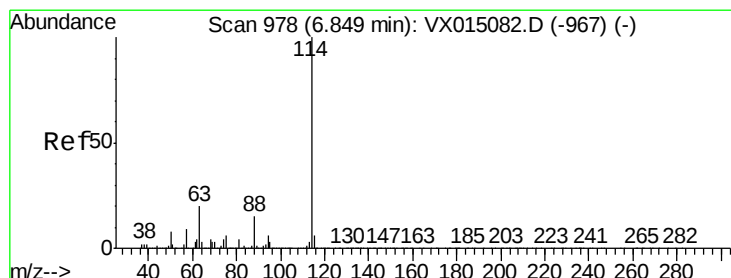
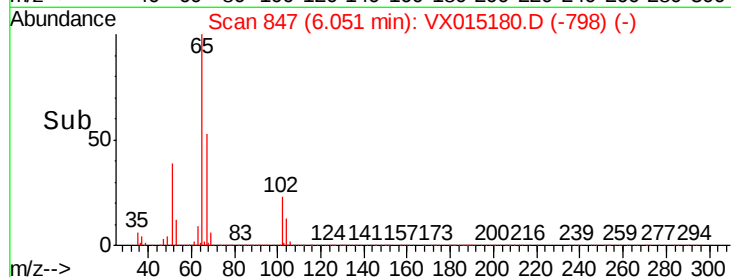
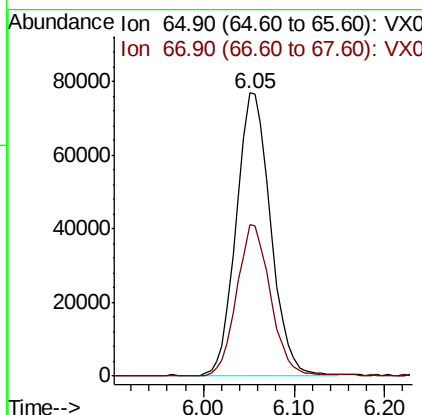
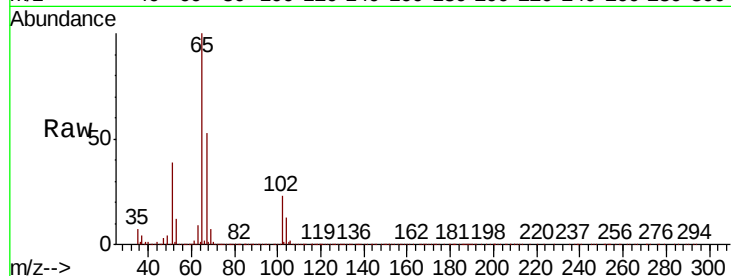




#33
 1,2-Dichloroethane-d4
 Concen: 52.959 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX015180.D
 Acq: 10 Mar 2020 18:42

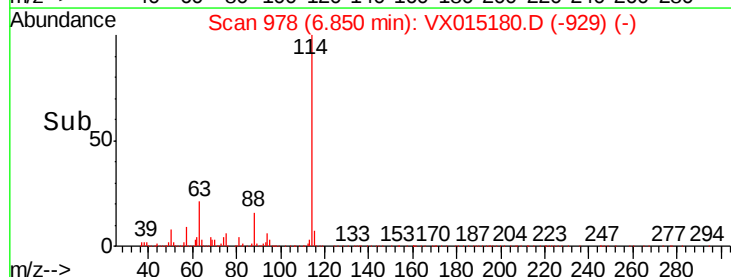
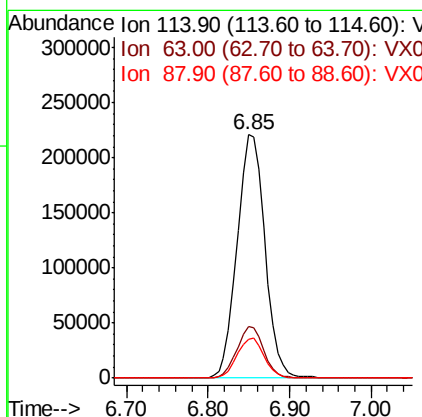
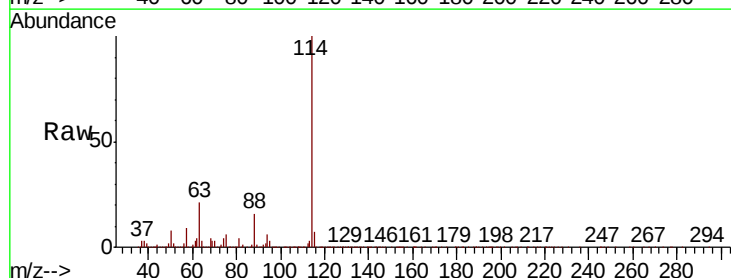
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20200305

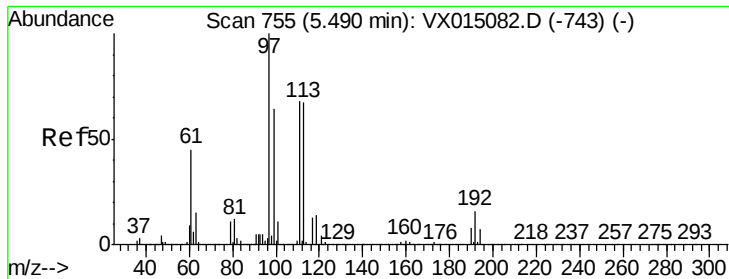
Tot Ion: 65 Resp: 201485
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX015180.D
 Acq: 10 Mar 2020 18:42

Tgt Ion: 114 Resp: 521350
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.0
 88 15.9 0.0 30.6

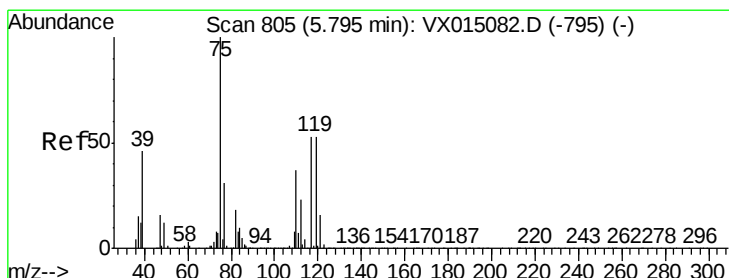
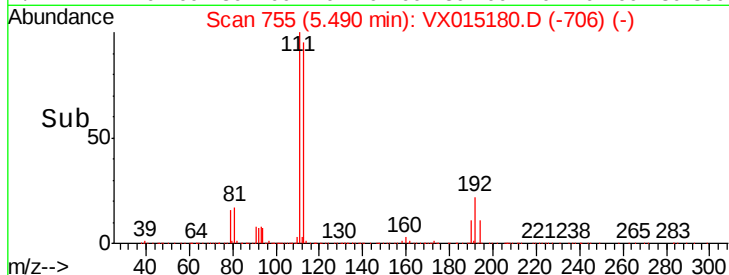
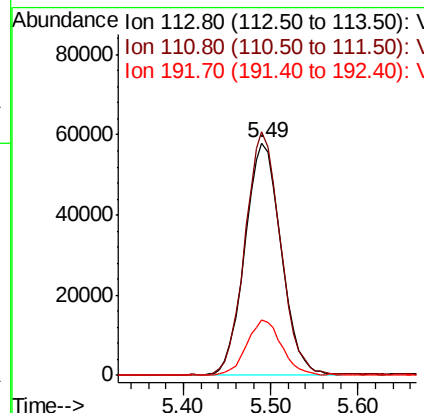
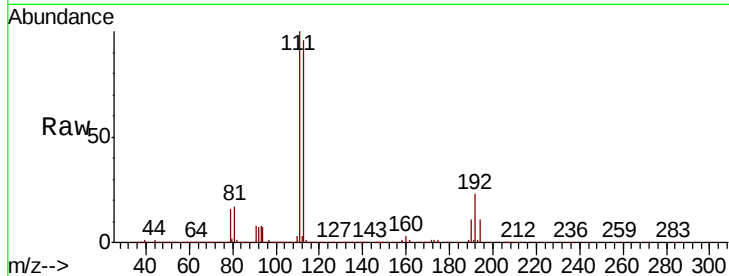




#35
 Dibromofluoromethane
 Concen: 50.896 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX015180.D
 Acq: 10 Mar 2020 18:42

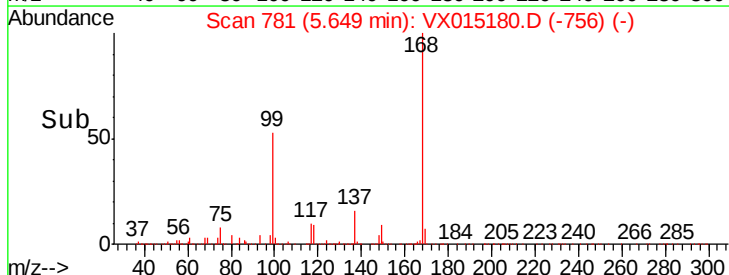
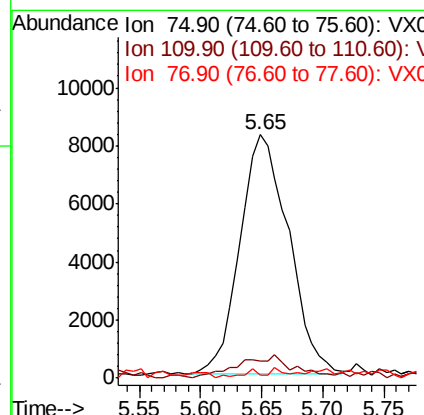
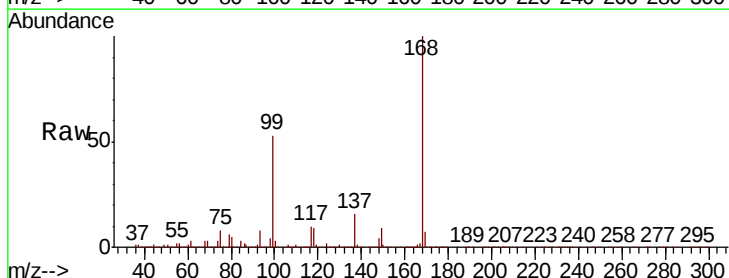
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20200305

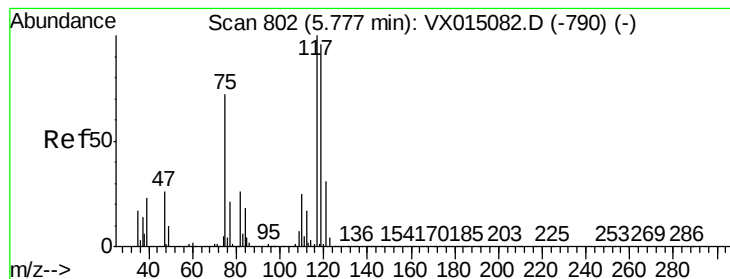
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.6	123.8
192	23.0	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.726 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015180.D
 Acq: 10 Mar 2020 18:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.2	17.9	53.8#
77	1.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.559 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20200305

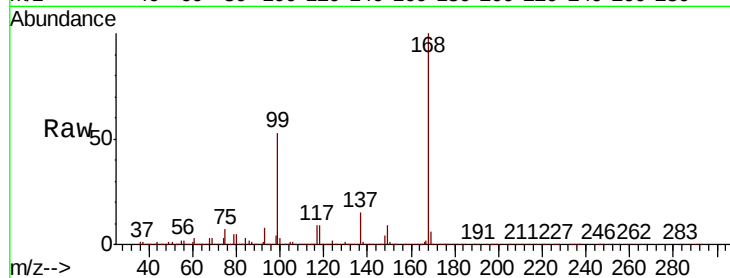
Tot Ion:117 Resp: 29840

Ion Ratio Lower Upper

117 100

119 4.2 76.9 115.3#

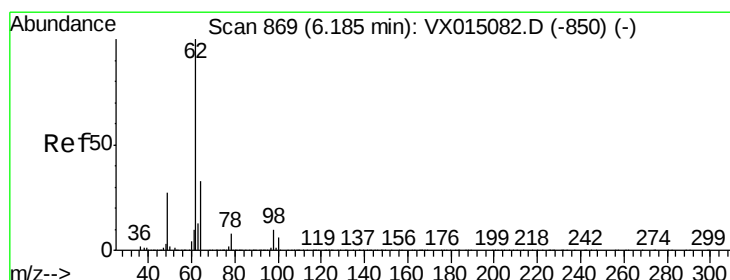
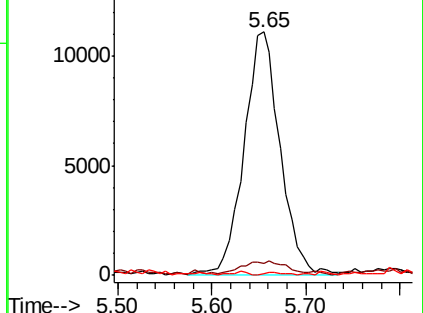
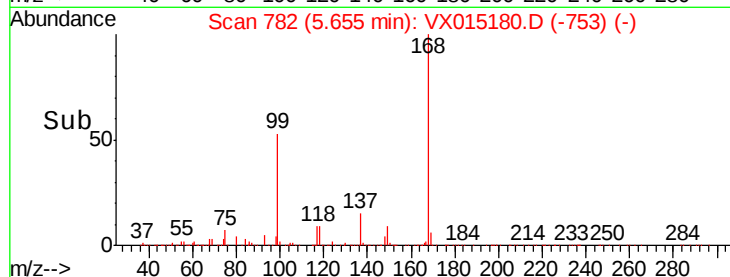
121 0.9 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.310 ug/l

RT: 6.22 min Scan# 874

Delta R.T. 0.03 min

Lab File: VX015180.D

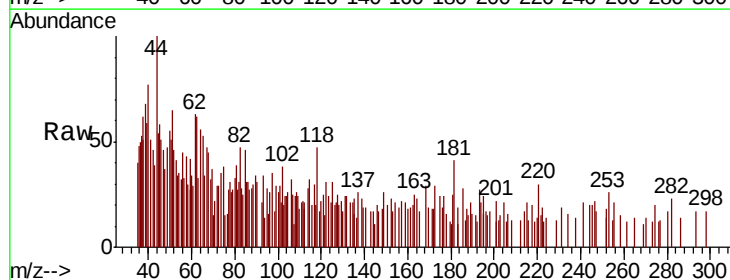
Acq: 10 Mar 2020 18:42

Tgt Ion: 62 Resp: 1524

Ion Ratio Lower Upper

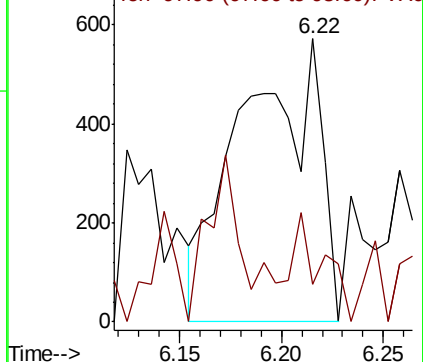
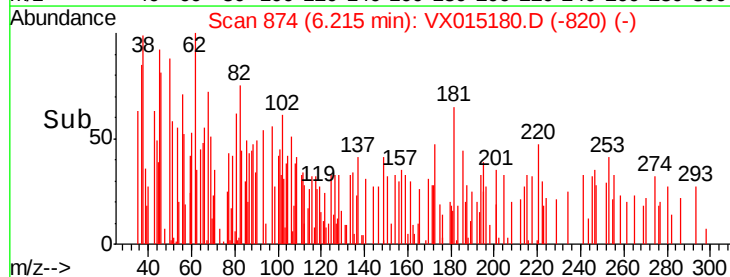
62 100

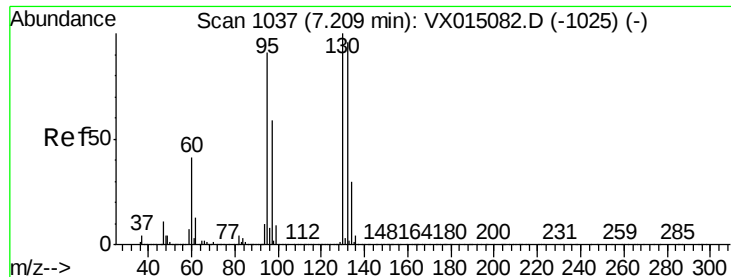
98 15.2 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 67.036 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

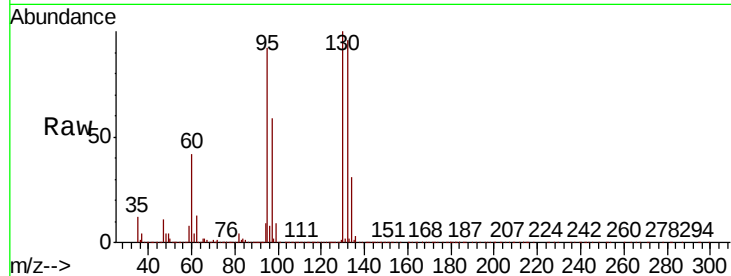
RE132D3-20200305

Tot Ion:130 Resp: 266953

Ion Ratio Lower Upper

130 100

95 92.2 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

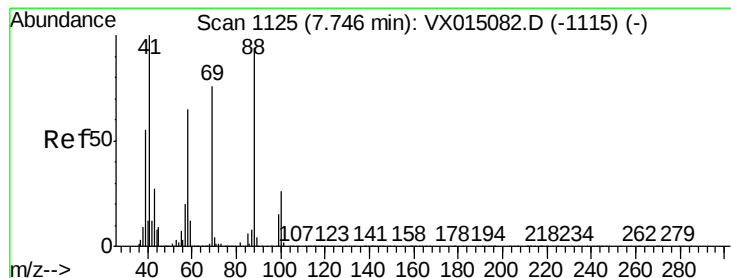
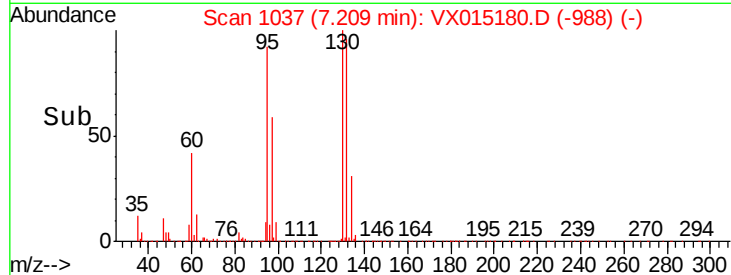
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 19.862 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

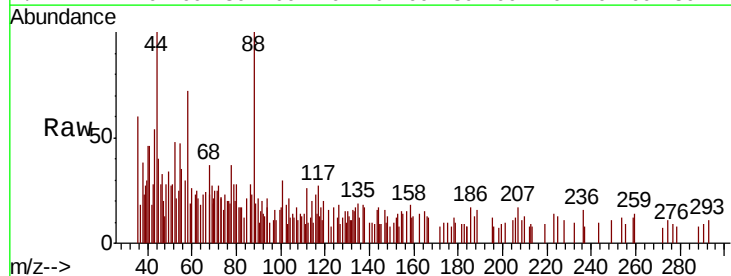
Tgt Ion: 88 Resp: 1719

Ion Ratio Lower Upper

88 100

43 40.8 27.0 40.4#

58 87.8 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

800

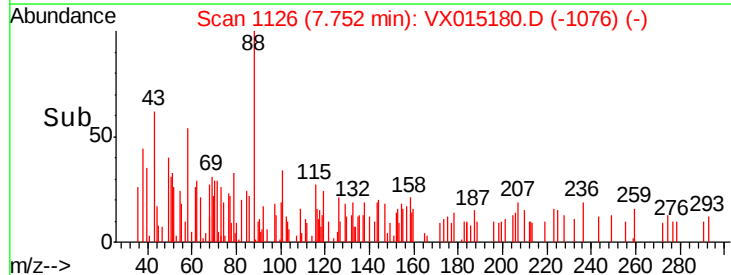
600

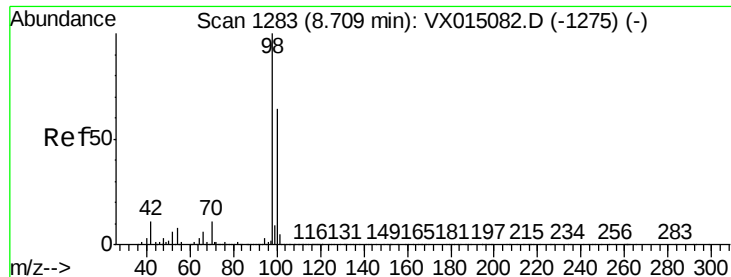
400

200

0

Time-->





#50

Toluene-d8

Concen: 51.638 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

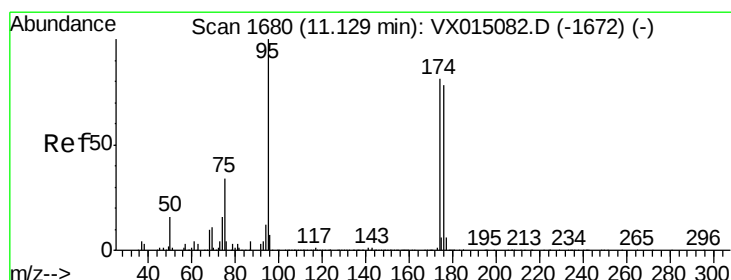
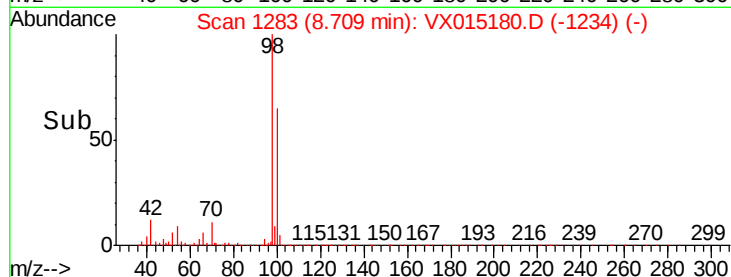
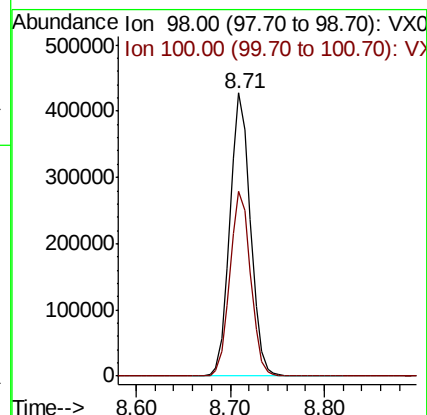
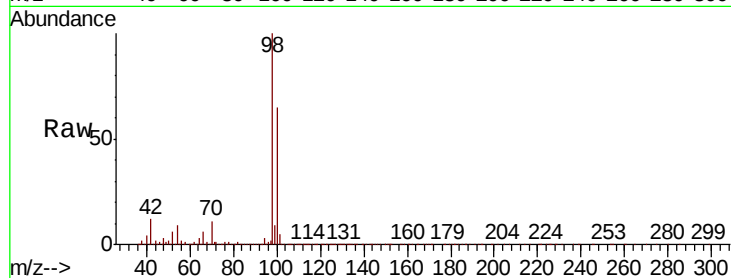
RE132D3-20200305

Tot Ion: 98 Resp: 646044

Ion Ratio Lower Upper

98 100

100 65.9 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 52.125 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

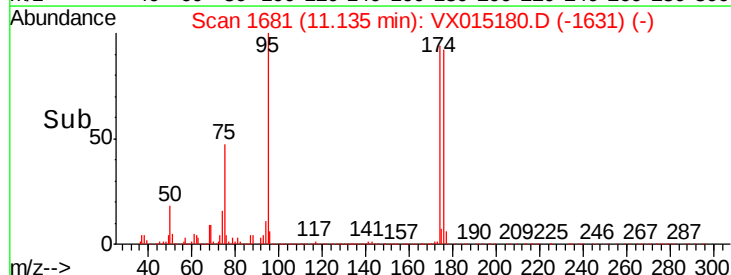
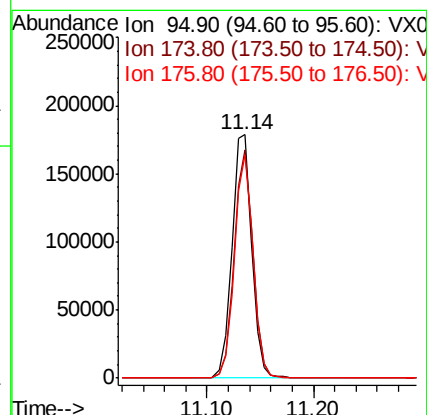
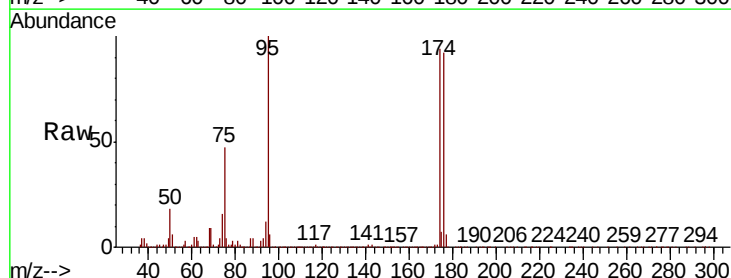
Tgt Ion: 95 Resp: 232609

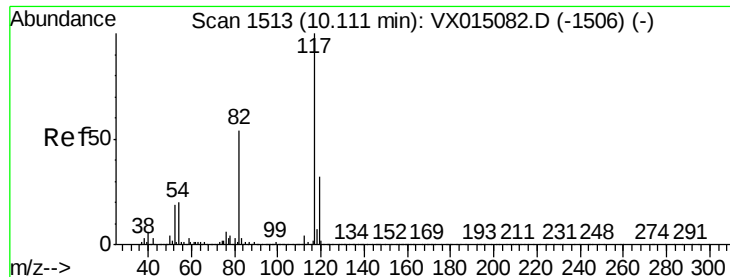
Ion Ratio Lower Upper

95 100

174 89.8 0.0 177.6

176 87.0 0.0 170.2

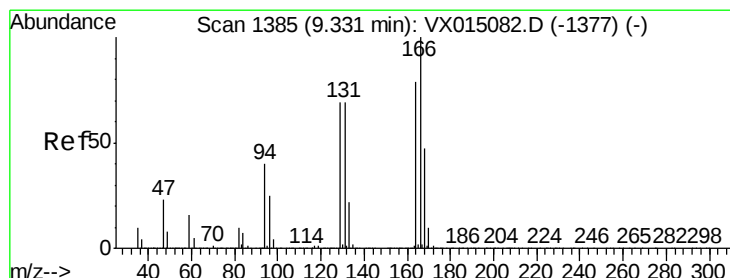
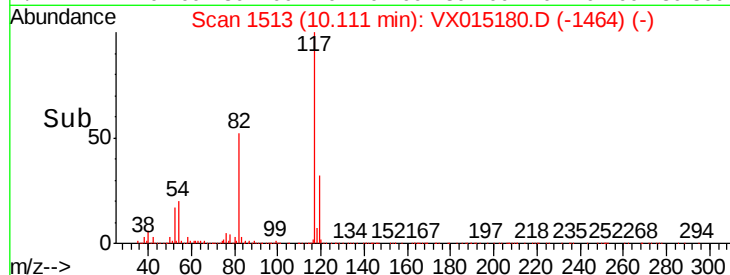
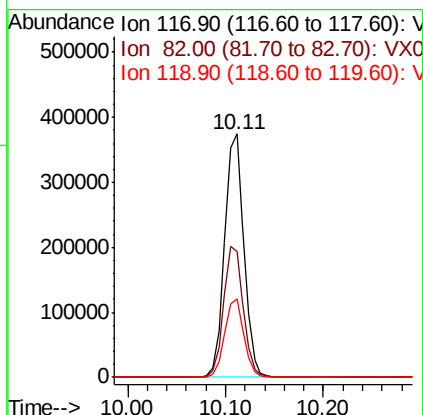
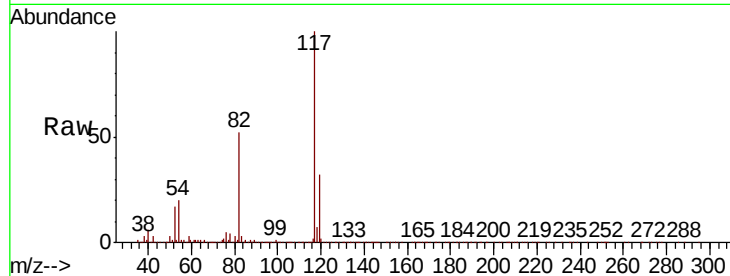




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015180.D
Acq: 10 Mar 2020 18:42

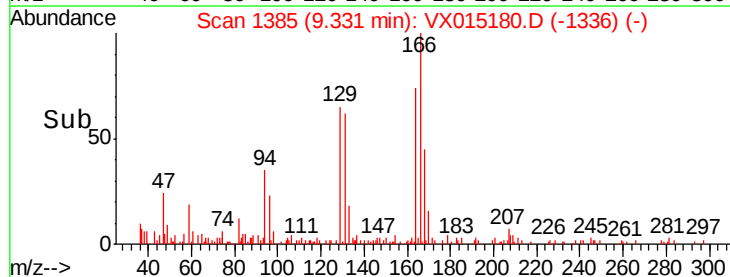
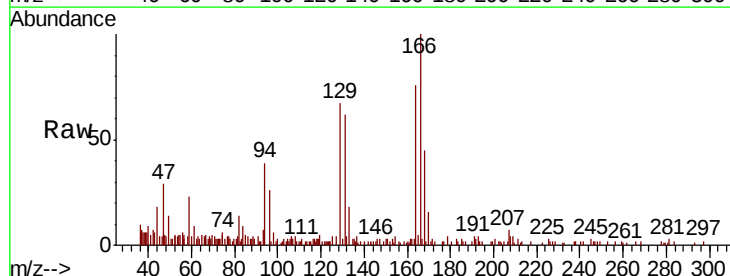
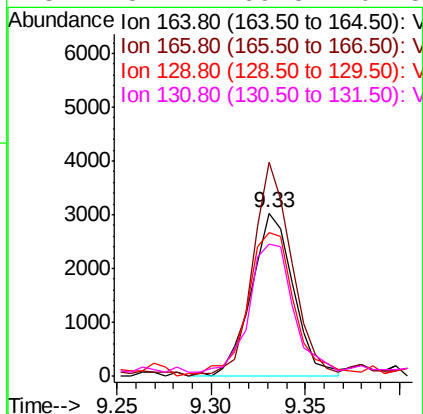
Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20200305

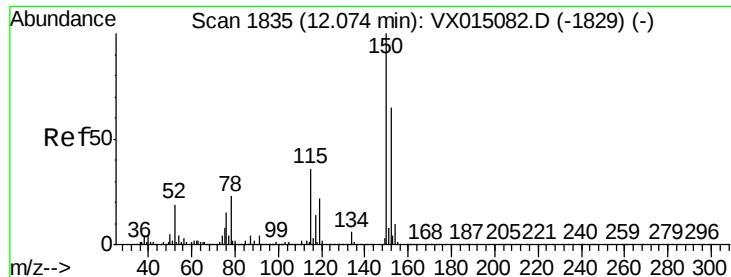
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.5	43.3	64.9
119	32.2	25.8	38.8



#64
Tetrachloroethene
Concen: 1.108 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015180.D
Acq: 10 Mar 2020 18:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.8	101.1	151.7
129	88.5	69.4	104.0
131	81.1	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: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20200305

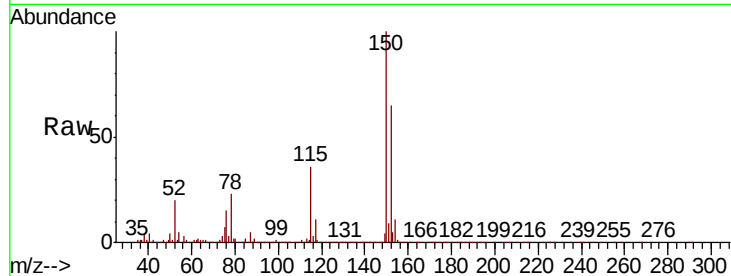
Tot Ion:152 Resp: 261710

Ion Ratio Lower Upper

152 100

115 55.6 38.2 114.6

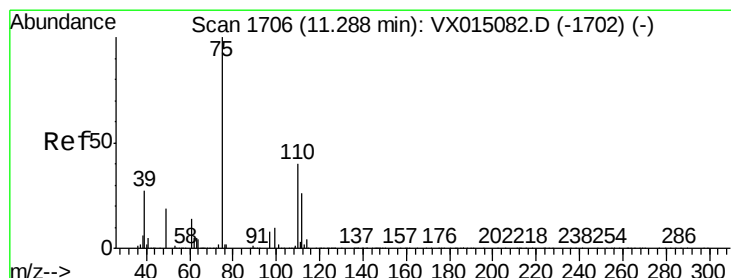
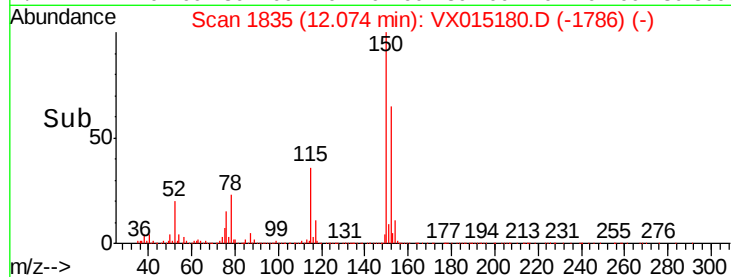
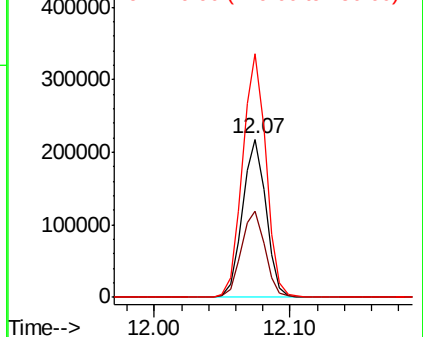
150 154.4 0.0 343.8



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: 22.331 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015180.D

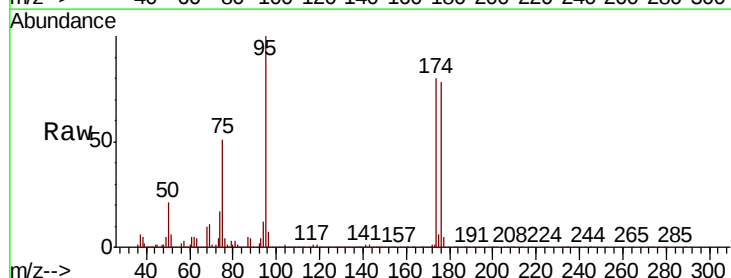
Acq: 10 Mar 2020 18:42

Tgt Ion: 75 Resp: 116575

Ion Ratio Lower Upper

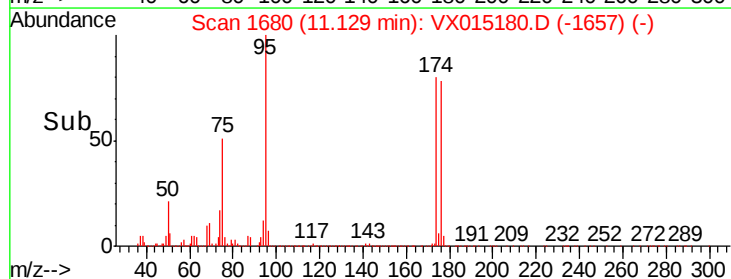
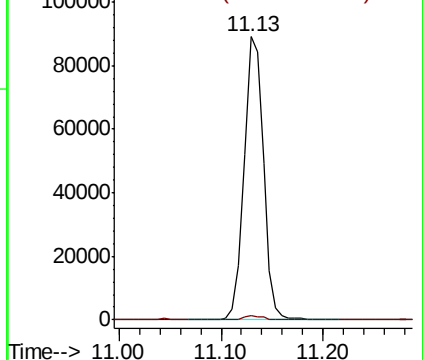
75 100

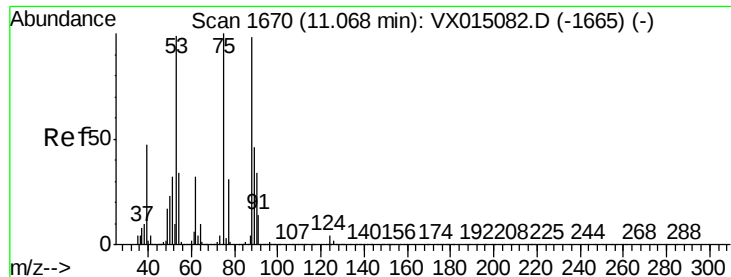
77 1.6 22.6 67.8#



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: 63.376 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20200305

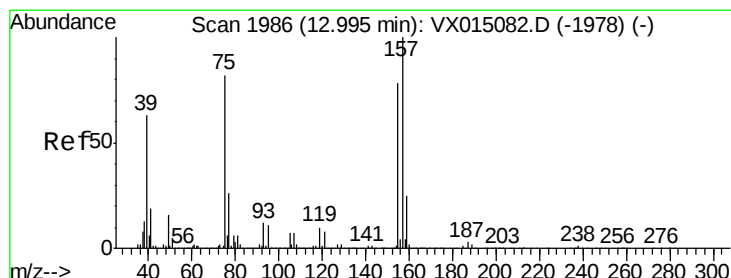
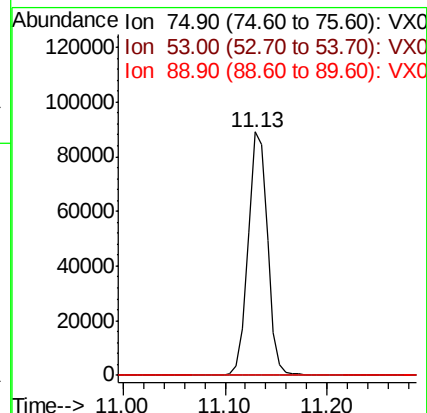
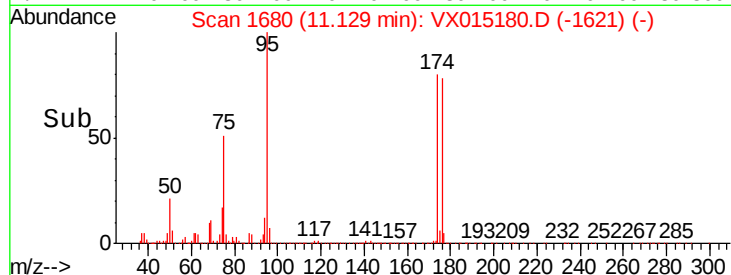
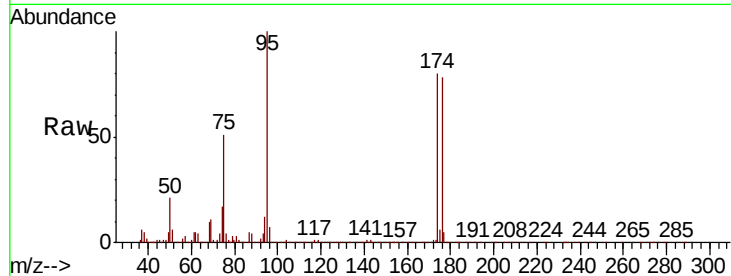
Tot Ion: 75 Resp: 116575

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.0 36.2 54.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.212 ug/l

RT: 13.13 min Scan# 2008

Delta R.T. 0.13 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

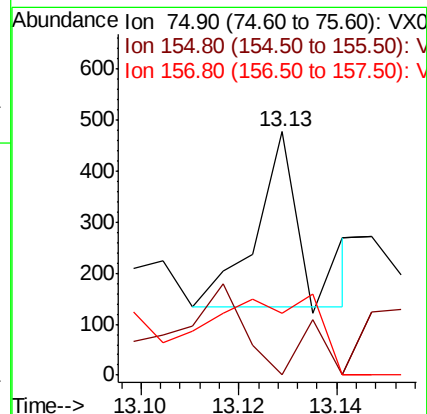
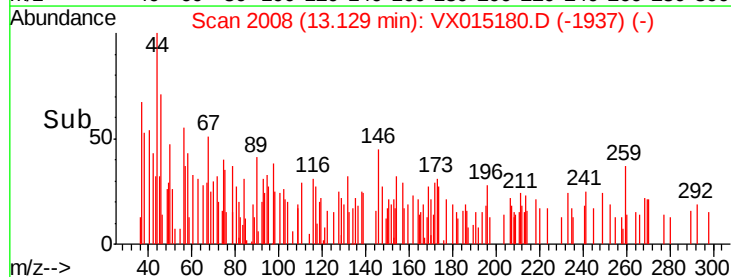
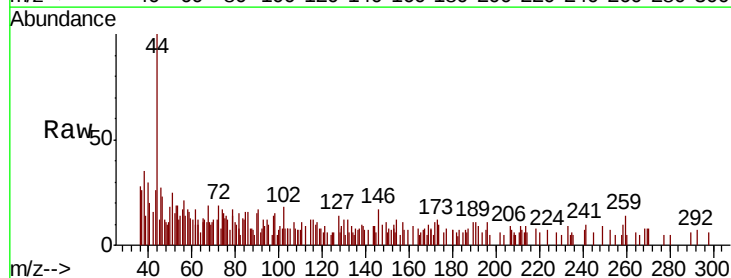
Tgt Ion: 75 Resp: 236

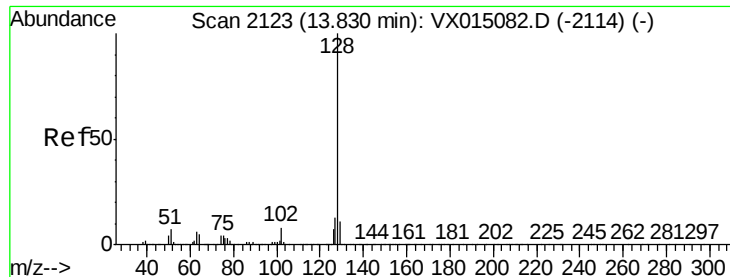
Ion Ratio Lower Upper

75 100

155 74.2 46.6 139.7

157 128.4 59.2 177.5





#95

Napthalene

Concen: 1.438 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. -0.01 min

Lab File: VX015180.D

Acq: 10 Mar 2020 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20200305

Tot Ion:128 Resp: 330

Ion Ratio Lower Upper

128 100

127 83.0 10.3 15.5#

129 30.0 8.6 13.0#

