

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015304.D
 Acq On : 16 Mar 2020 19:20
 Operator : JC/SP
 Sample : L1945-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20200312

Quant Time: Mar 17 07:44:15 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	306796	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	498994	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	503253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	264548	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	179213	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
35) Dibromofluoromethane	5.49	113	155889	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	8.71	98	616441	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.13	95	243693	57.06	ug/l	0.00
Spiked Amount			Recovery	=	114.12%	

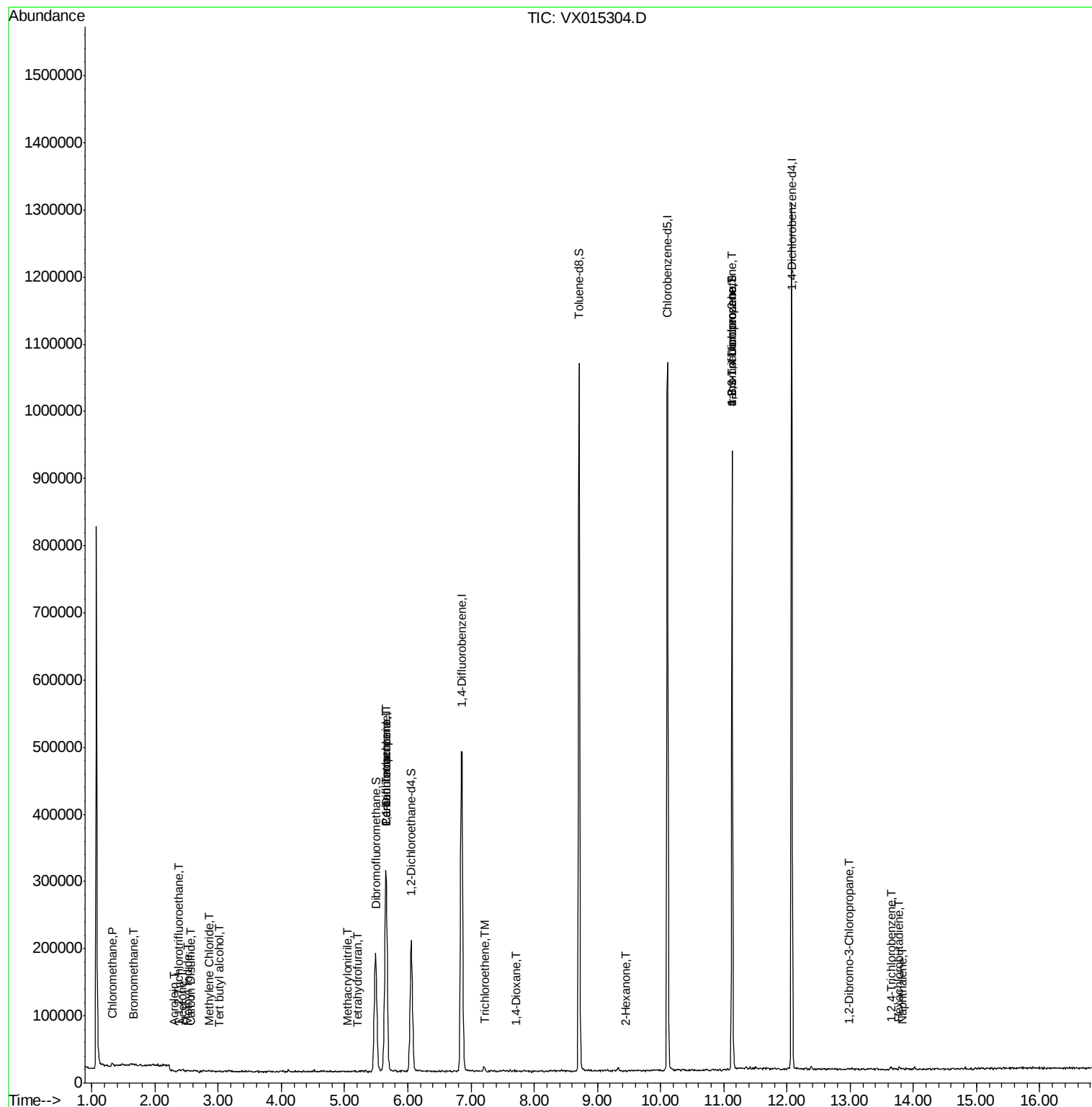
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	781	0.205	ug/l #	1
5) Bromomethane	1.66	94	1078	0.454	ug/l #	66
9) 1,1,2-Trichlorotrifluoroet	2.37	101	762	0.264	ug/l #	64
10) Methyl Iodide	2.51	142	912	0.279	ug/l #	90
11) Tert butyl alcohol	3.01	59	225	0.356	ug/l #	1
13) Acrolein	2.30	56	507	0.854	ug/l	92
16) Acetone	2.44	43	3605	2.446	ug/l	93
17) Carbon Disulfide	2.57	76	2256	0.272	ug/l #	52
20) Methylene Chloride	2.86	84	749	0.217	ug/l #	45
29) Tetrahydrofuran	5.20	42	436	0.313	ug/l	93
36) 1,1-Dichloropropene	5.65	75	20814	4.512	ug/l #	51
38) Carbon Tetrachloride	5.65	117	27762	6.376	ug/l #	16
41) Methacrylonitrile	5.04	41	667	0.260	ug/l #	50
44) Trichloroethene	7.22	130	3417	0.896	ug/l	62
49) 1,4-Dioxane	7.72	88	346	4.177	ug/l #	59
59) 2-Hexanone	9.45	43	801	0.243	ug/l	65
76) 1,2,3-Trichloropropane	11.13	75	118965	22.544	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	118965	63.981	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	482	0.427	ug/l #	29
93) 1,2,4-Trichlorobenzene	13.64	180	1253	0.219	ug/l	93
94) Hexachlorobutadiene	13.78	225	679	0.232	ug/l	74
95) Naphthalene	13.83	128	1639	1.511	ug/l #	80

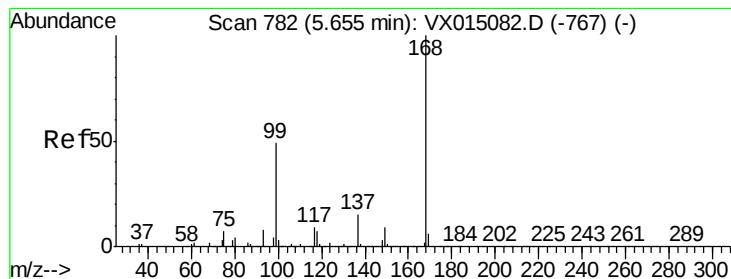
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031620\
Data File : VX015304.D
Acq On : 16 Mar 2020 19:20
Operator : JC/SP
Sample : L1945-05
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20200312

Quant Time: Mar 17 07:44:15 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

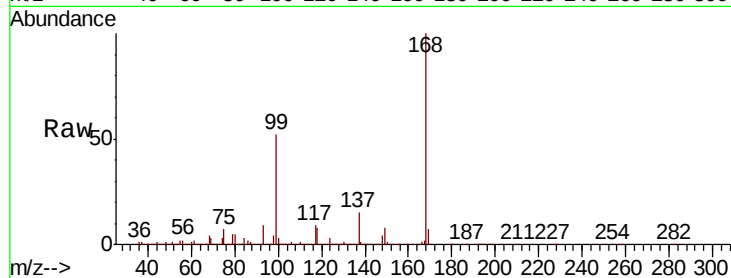
RE104D3-20200312

Tot Ion:168 Resp: 306796

Ion Ratio Lower Upper

168 100

99 52.4 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

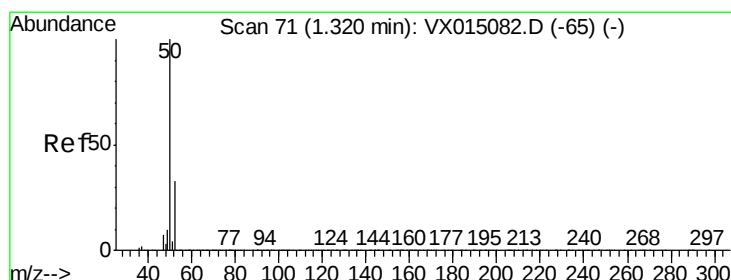
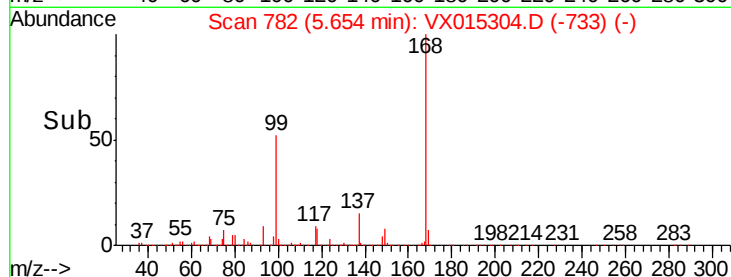
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.205 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015304.D

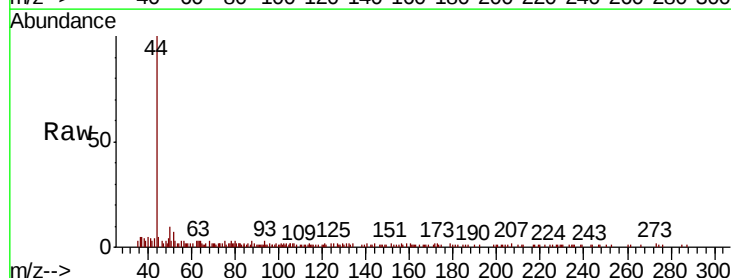
Acq: 16 Mar 2020 19:20

Tgt Ion: 50 Resp: 781

Ion Ratio Lower Upper

50 100

52 117.6 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

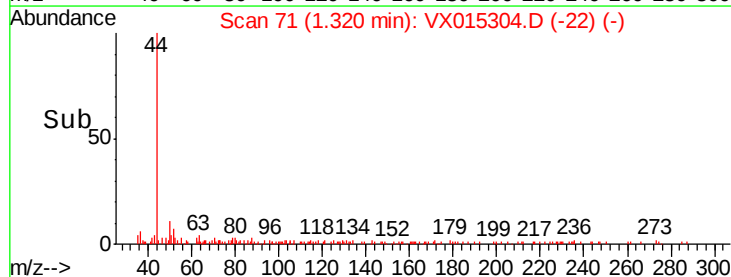
400

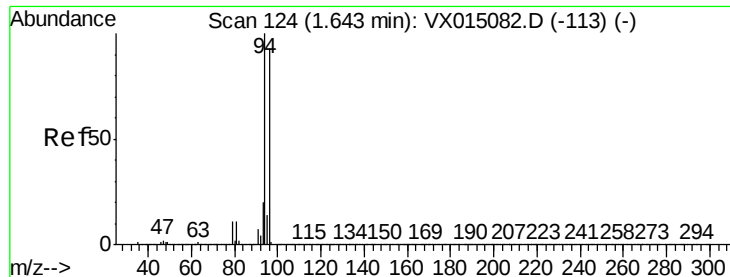
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.454 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.02 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

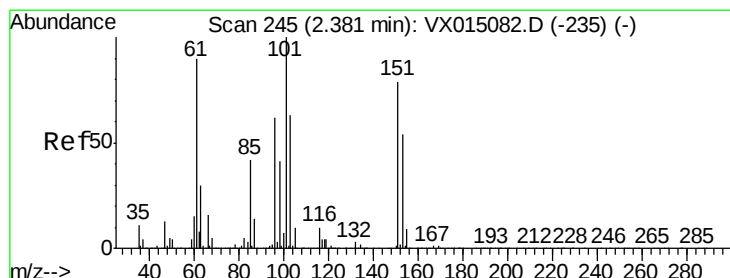
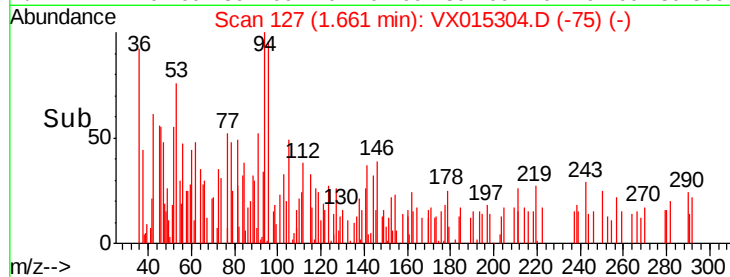
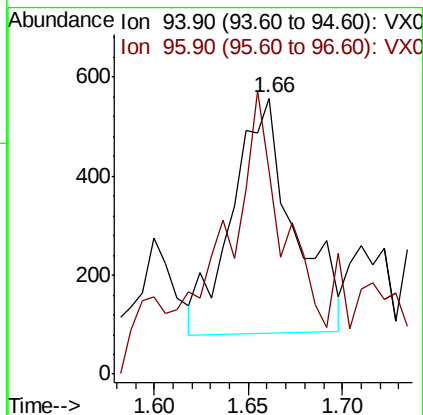
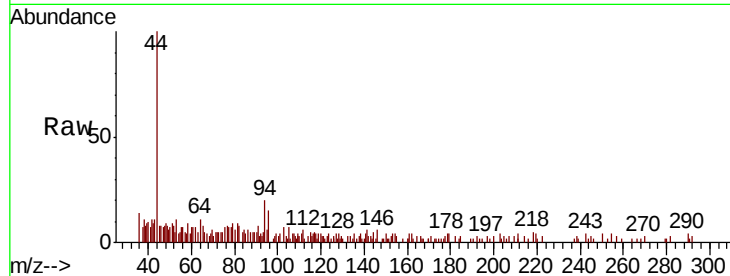
RE104D3-20200312

Tot Ion: 94 Resp: 1078

Ion Ratio Lower Upper

94 100

96 61.0 74.6 111.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.264 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.01 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

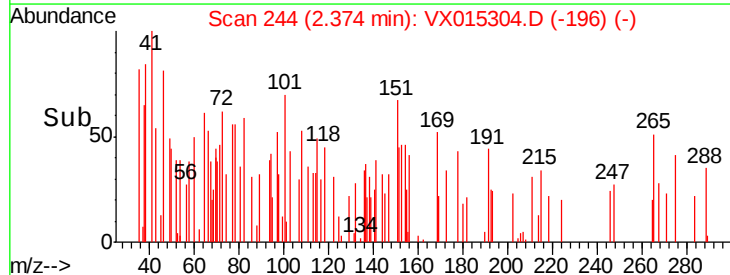
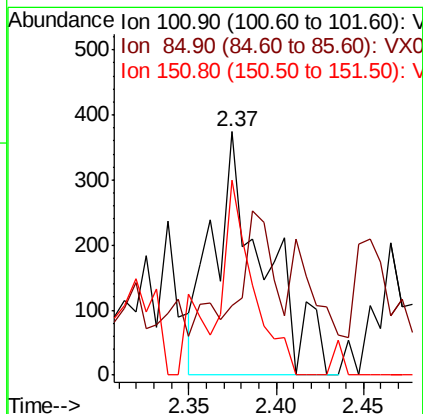
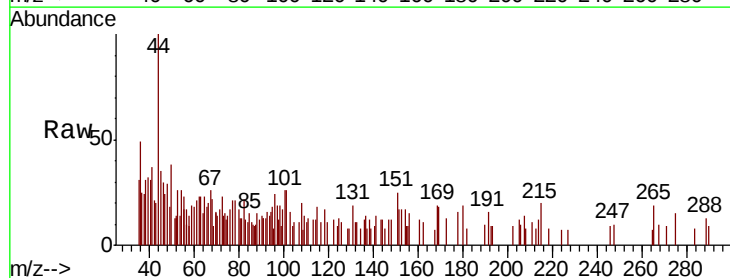
Tgt Ion: 101 Resp: 762

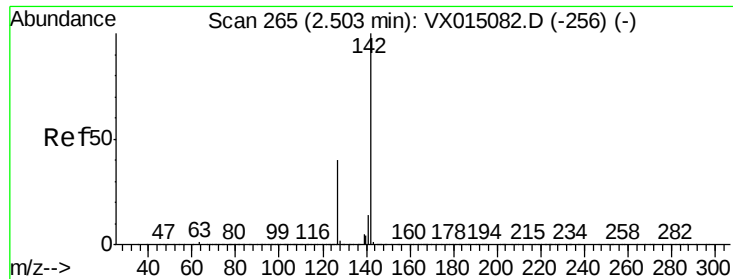
Ion Ratio Lower Upper

101 100

85 6.2 33.7 50.5#

151 57.7 64.0 96.0#

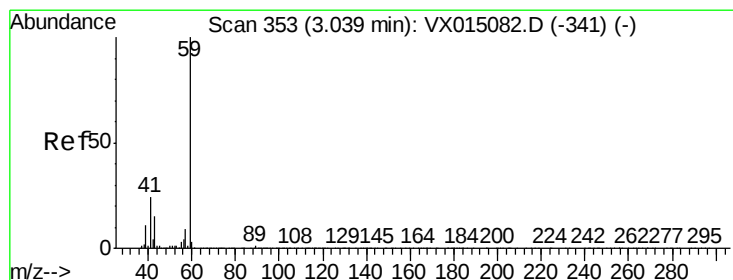
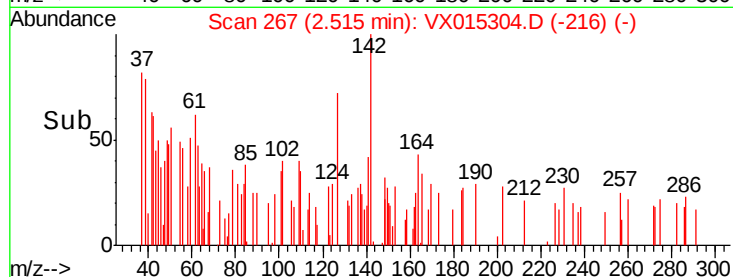
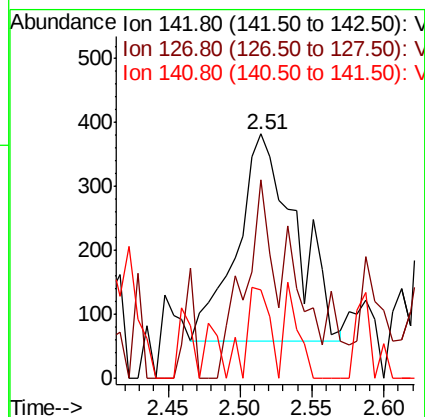
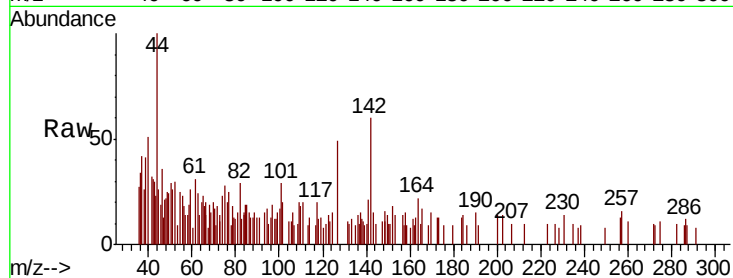




#10
Methvl Iodide
Concen: 0.279 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

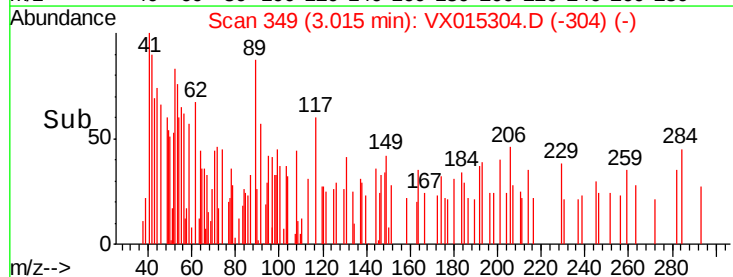
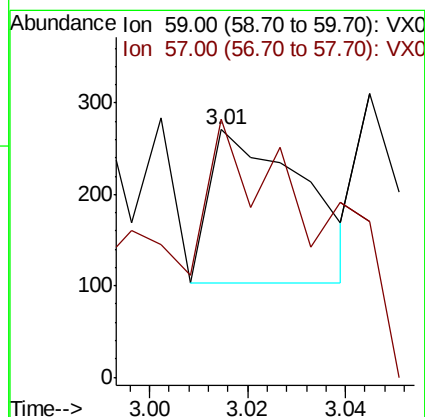
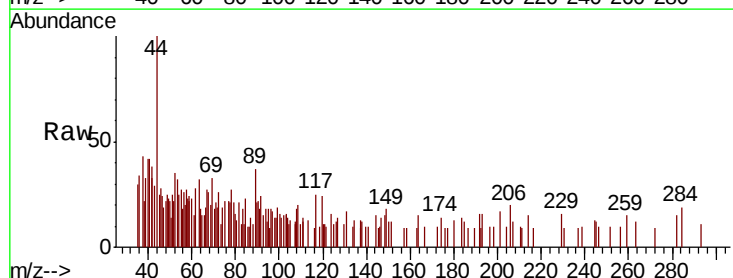
Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20200312

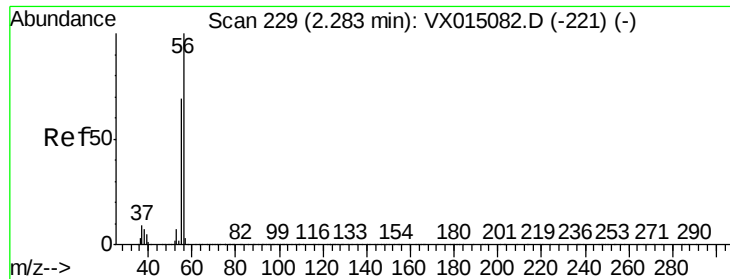
Tot Ion:142 Resp: 912
Ion Ratio Lower Upper
142 100
127 45.7 31.7 47.5
141 17.5 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.356 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

Tgt Ion: 59 Resp: 225
Ion Ratio Lower Upper
59 100
57 199.1 8.2 12.4#

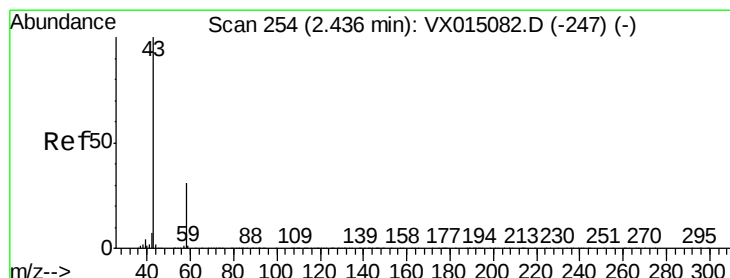
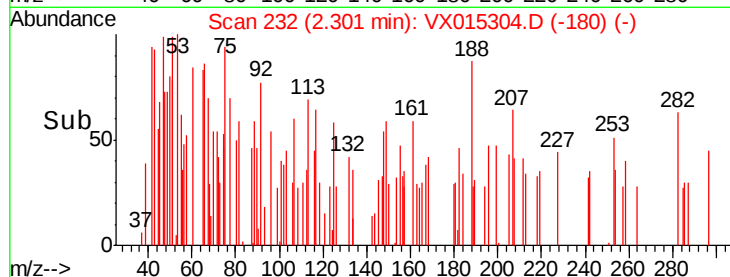
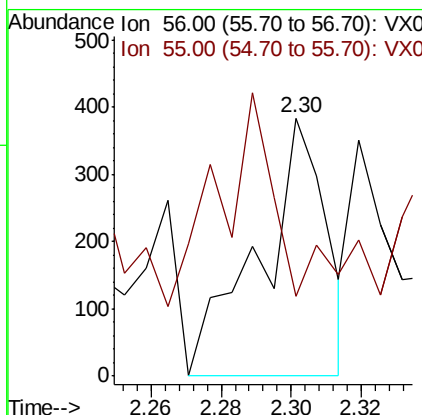
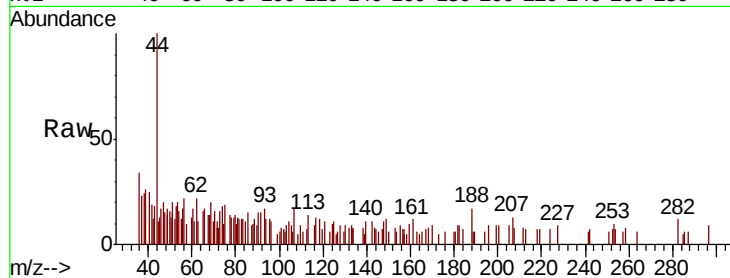




#13
Acrolein
Concen: 0.854 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

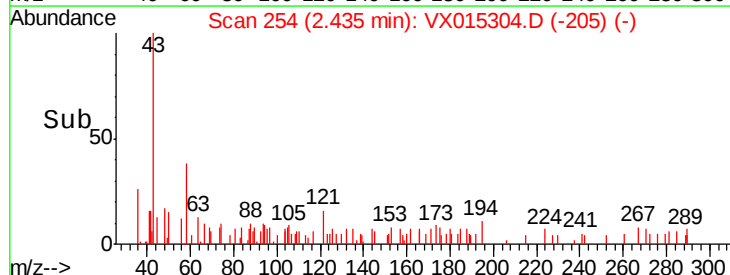
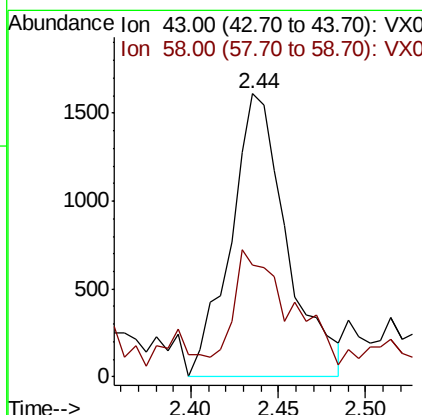
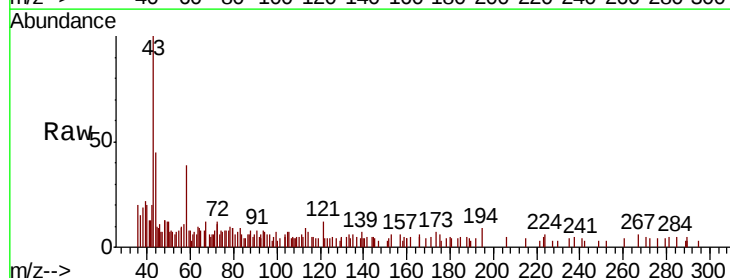
Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20200312

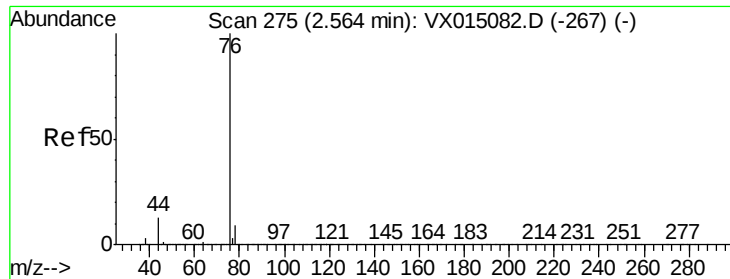
Tot Ion: 56 Resp: 507
Ion Ratio Lower Upper
56 100
55 75.3 55.4 83.0



#16
Acetone
Concen: 2.446 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

Tgt Ion: 43 Resp: 3605
Ion Ratio Lower Upper
43 100
58 35.0 24.8 37.2





#17

Carbon Disulfide

Concen: 0.272 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

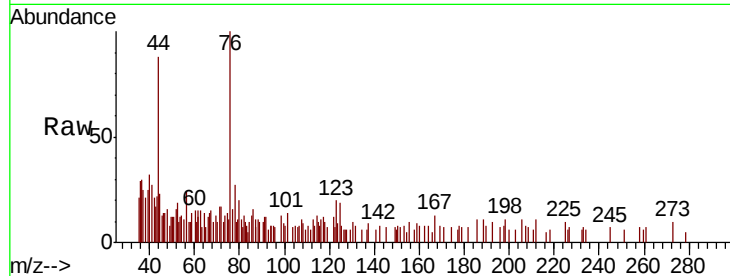
RE104D3-20200312

Tot Ion: 76 Resp: 2256

Ion Ratio Lower Upper

76 100

78 26.5 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

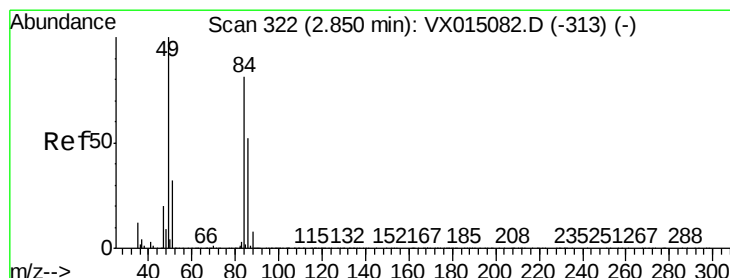
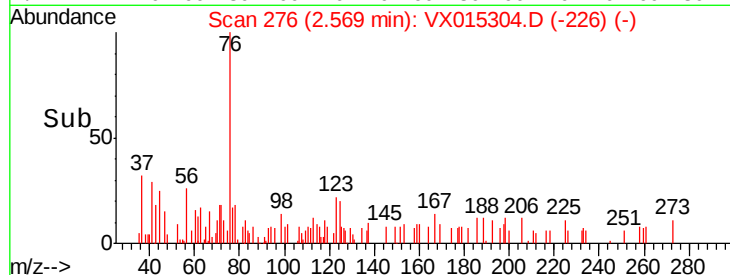
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.217 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Tgt Ion: 84 Resp: 749

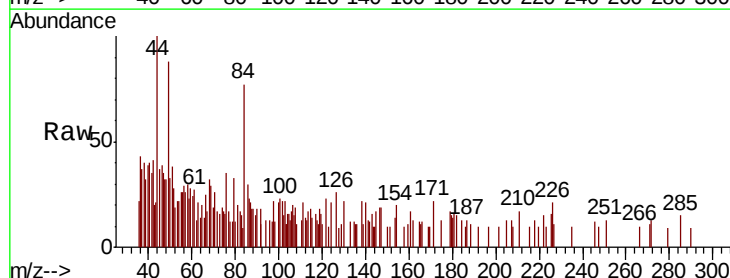
Ion Ratio Lower Upper

84 100

49 54.5 99.4 149.2#

51 10.3 31.5 47.3#

86 26.8 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

1000

800

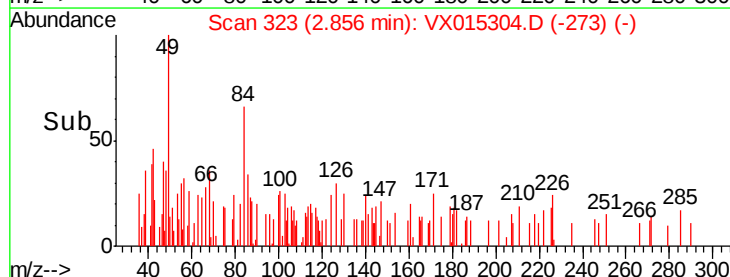
600

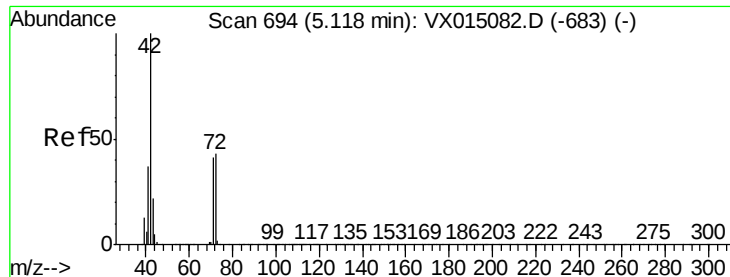
400

200

0

Time-->





#29

Tetrahydrofuran

Concen: 0.313 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.09 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20200312

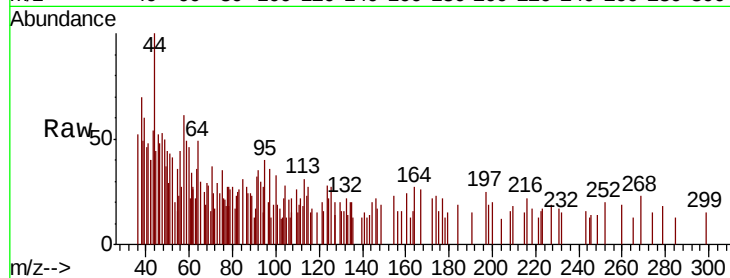
Tot Ion: 42 Resp: 436

Ion Ratio Lower Upper

42 100

72 49.5 36.4 54.6

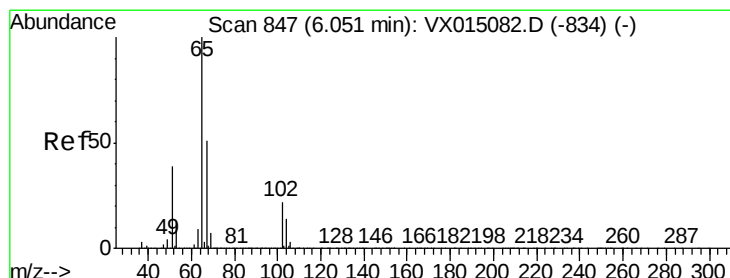
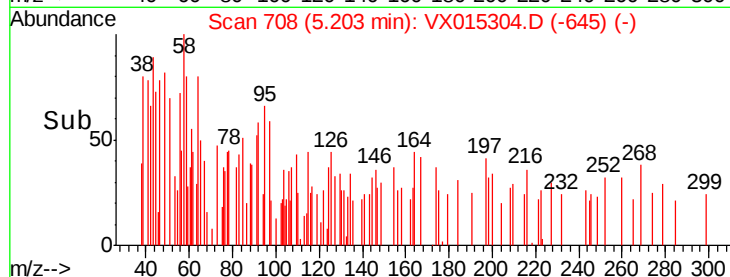
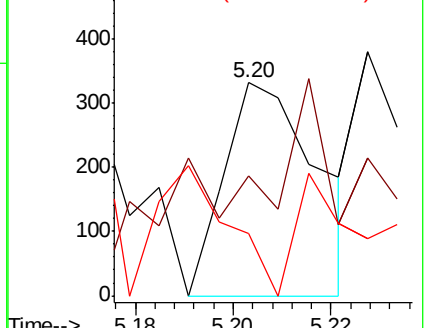
71 47.0 33.3 49.9



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.238 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX015304.D

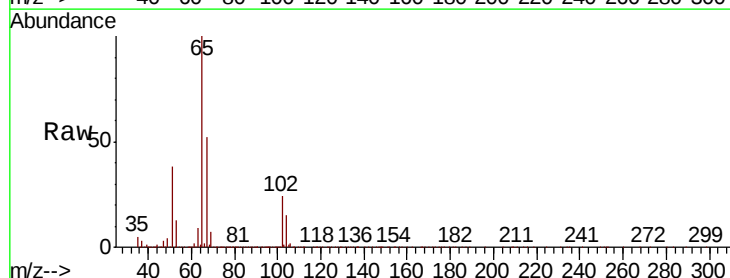
Acq: 16 Mar 2020 19:20

Tgt Ion: 65 Resp: 179213

Ion Ratio Lower Upper

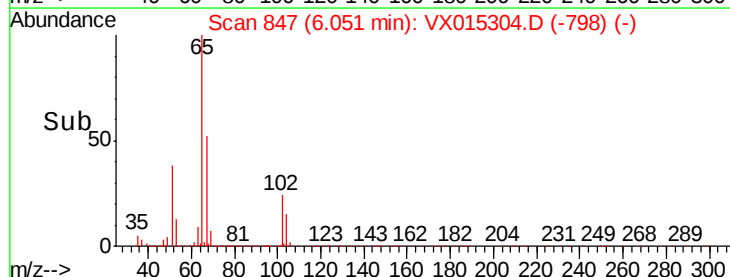
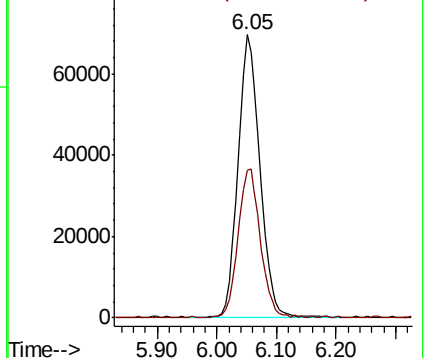
65 100

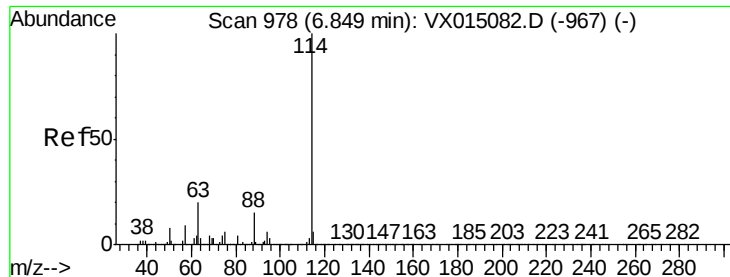
67 53.5 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20200312

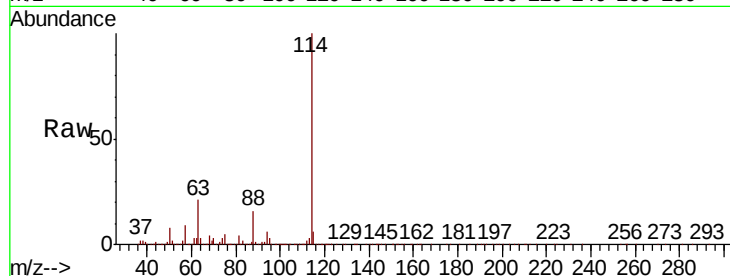
Tot Ion:114 Resp: 498994

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.0

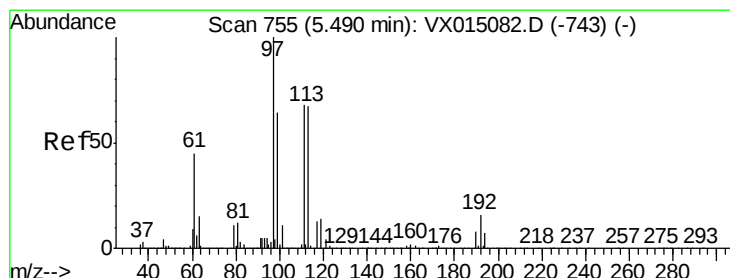
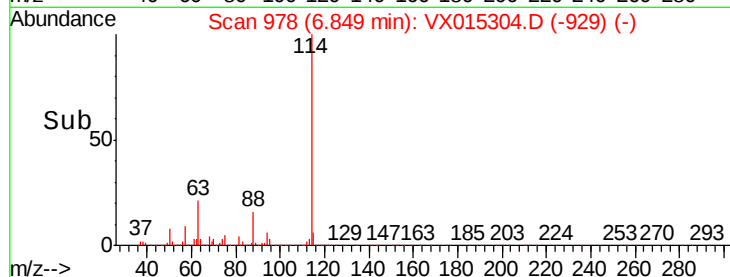
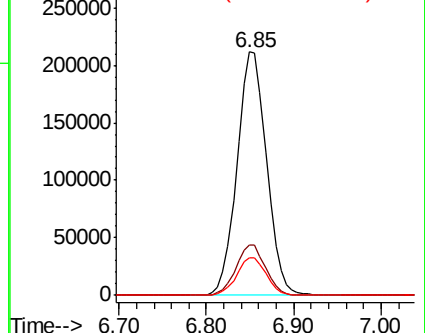
88 15.5 0.0 30.6



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: 49.520 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

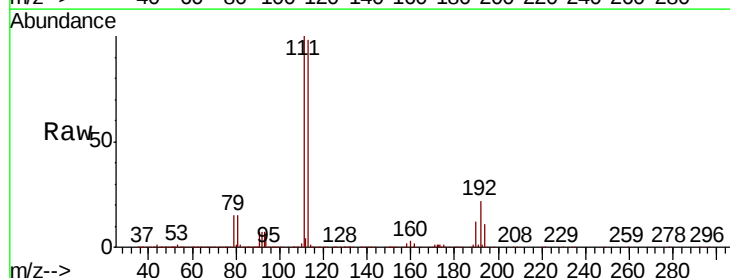
Tgt Ion:113 Resp: 155889

Ion Ratio Lower Upper

113 100

111 101.2 82.6 123.8

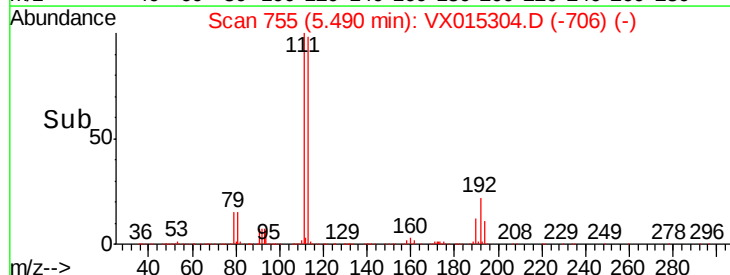
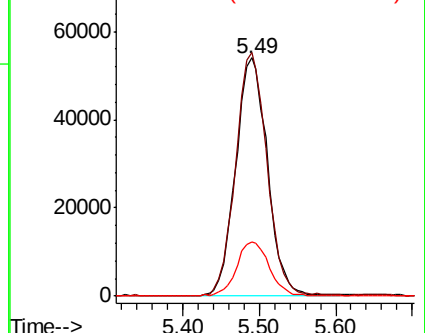
192 23.4 18.6 28.0

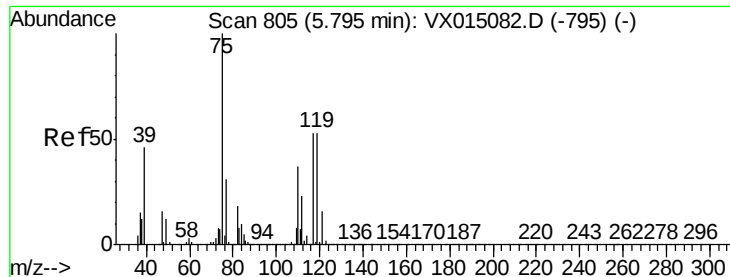


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.512 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20200312

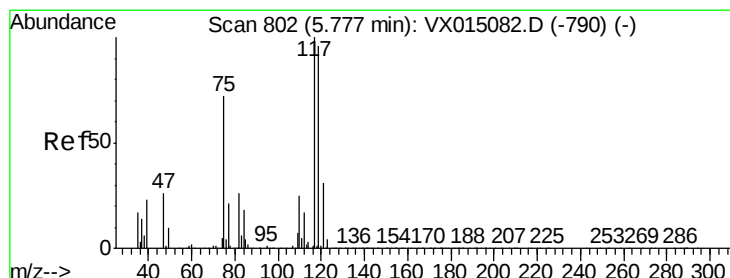
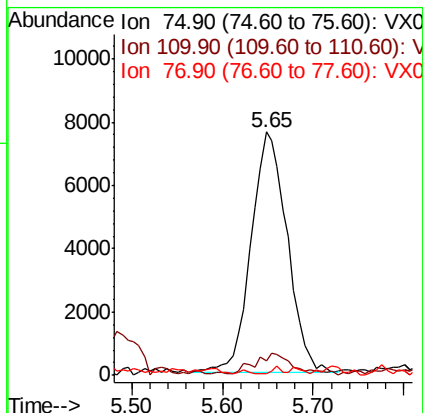
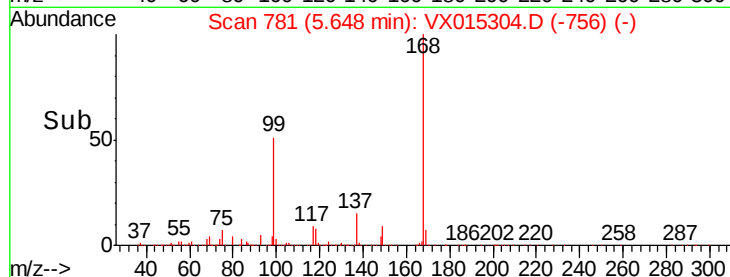
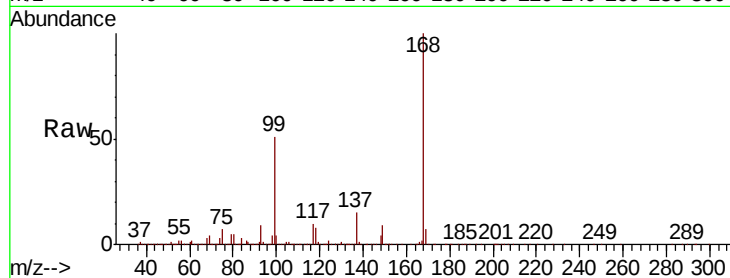
Tot Ion: 75 Resp: 20814

Ion Ratio Lower Upper

75 100

110 10.1 17.9 53.8#

77 0.6 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.376 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

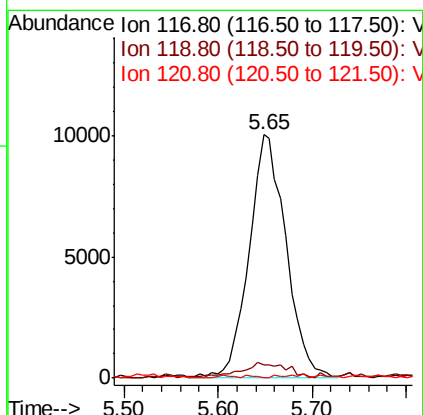
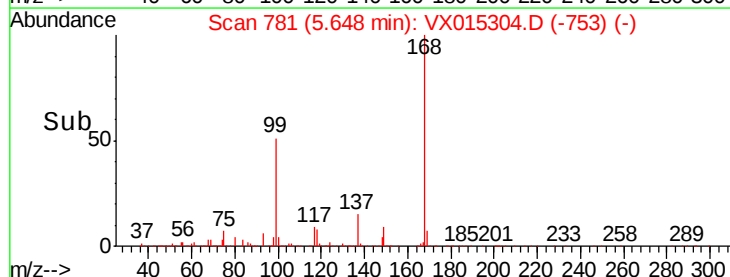
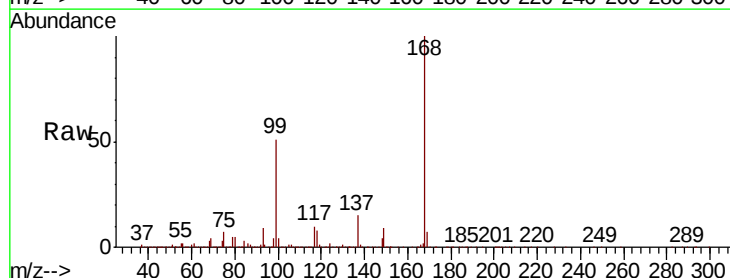
Tgt Ion: 117 Resp: 27762

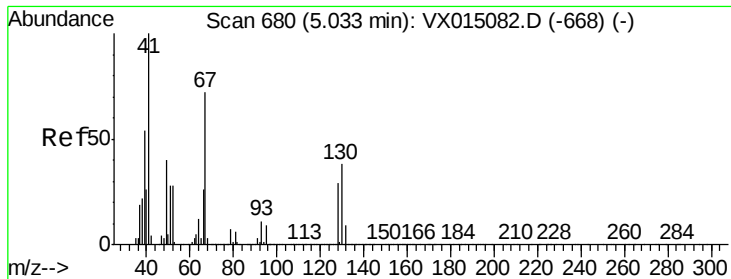
Ion Ratio Lower Upper

117 100

119 4.7 76.9 115.3#

121 0.0 24.6 37.0#

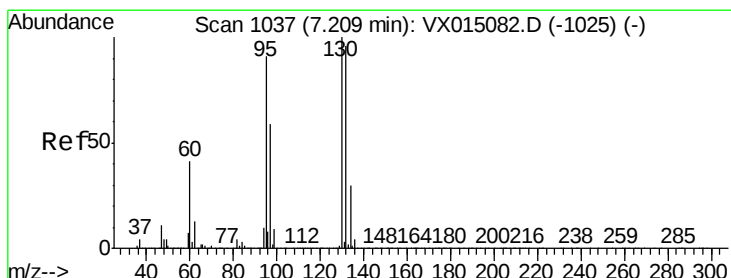
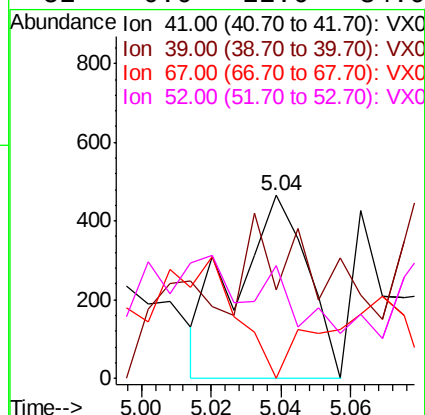
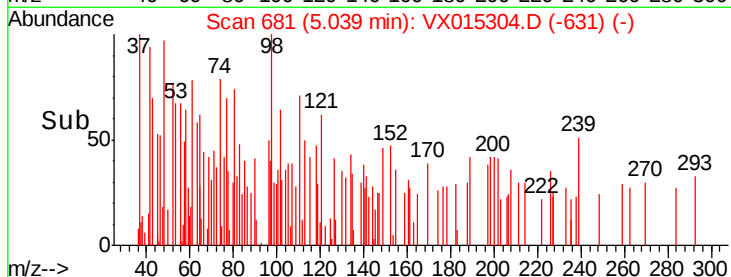
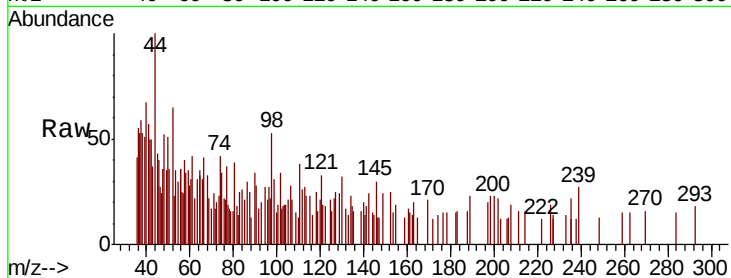




#41
Methacrylonitrile
Concen: 0.260 ug/l
RT: 5.04 min Scan# 681
Delta R.T. 0.01 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

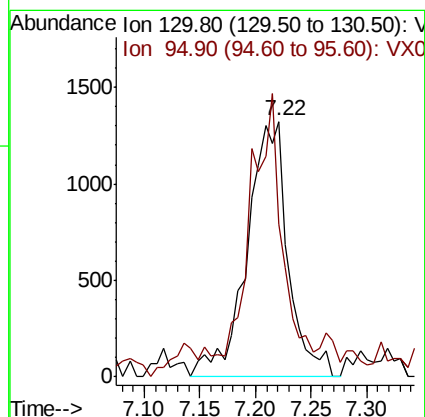
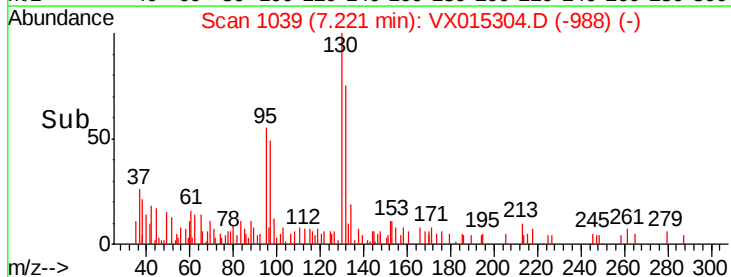
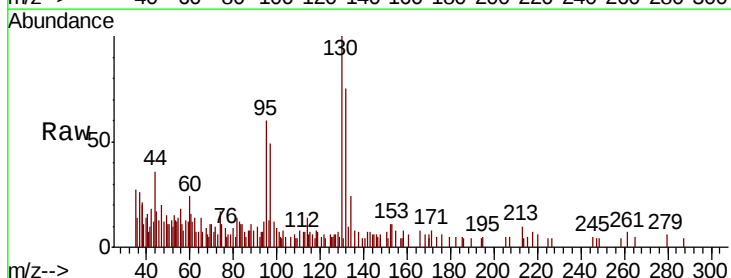
Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20200312

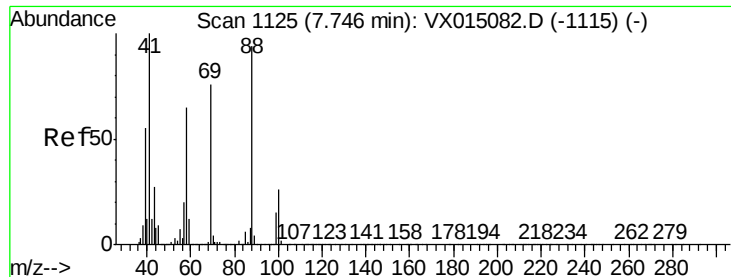
Tot Ion:	41	Resp:	667
Ion	Ratio	Lower	Upper
41	100		
39	55.6	43.9	65.9
67	0.0	57.8	86.8#
52	0.0	22.6	34.0#



#44
Trichloroethene
Concen: 0.896 ug/l
RT: 7.22 min Scan# 1039
Delta R.T. 0.01 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

Tgt Ion:	130	Resp:	3417
Ion	Ratio	Lower	Upper
130	100		
95	54.2	0.0	181.2





#49

1,4-Dioxane

Concen: 4.177 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20200312

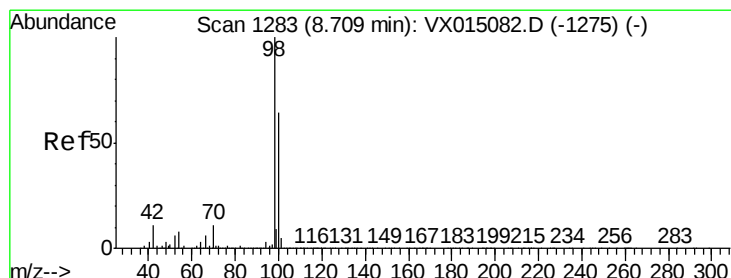
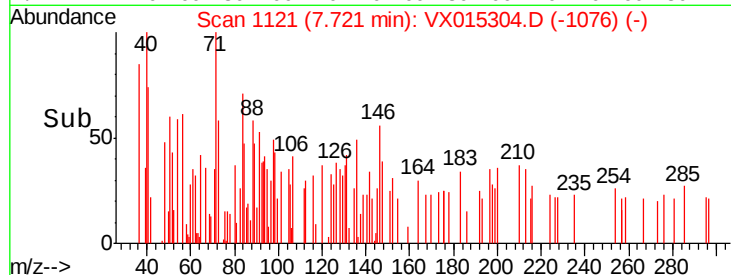
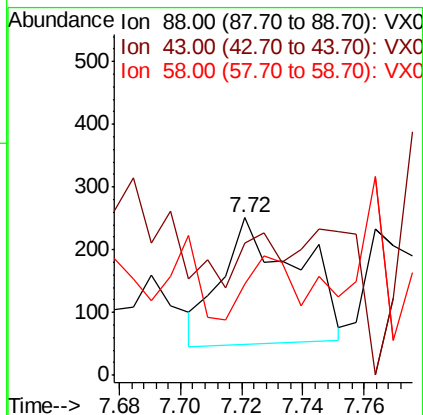
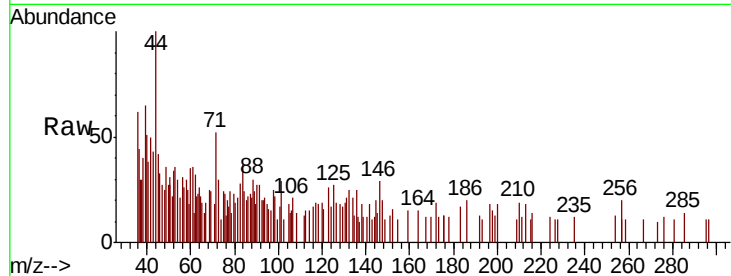
Tot Ion: 88 Resp: 346

Ion Ratio Lower Upper

88 100

43 20.8 27.0 40.4#

58 28.3 55.6 83.4#



#50

Toluene-d8

Concen: 51.479 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015304.D

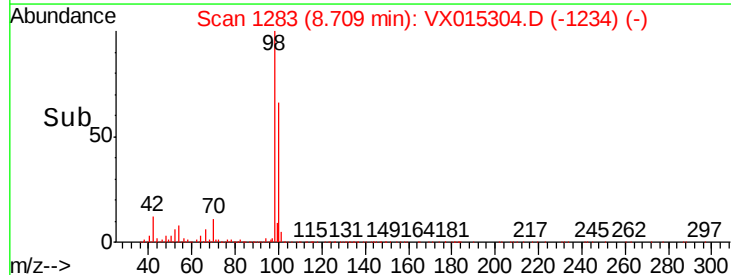
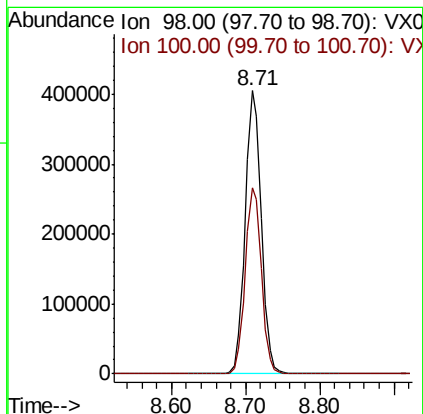
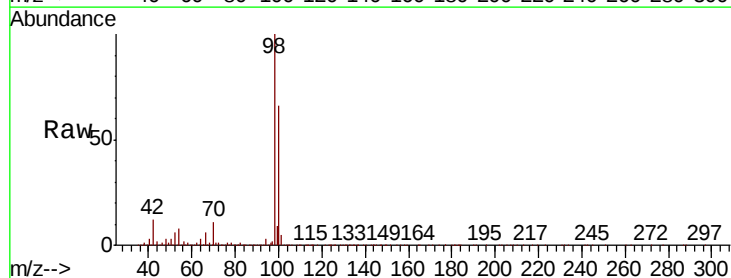
Acq: 16 Mar 2020 19:20

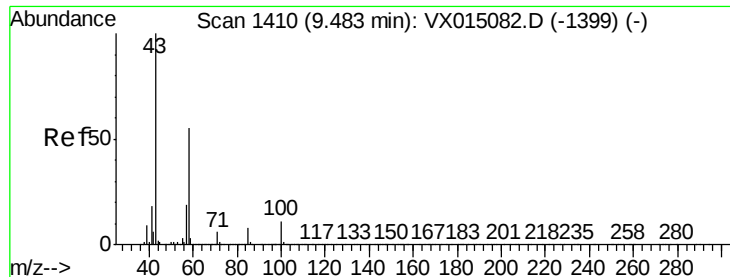
Tgt Ion: 98 Resp: 616441

Ion Ratio Lower Upper

98 100

100 66.2 52.4 78.6

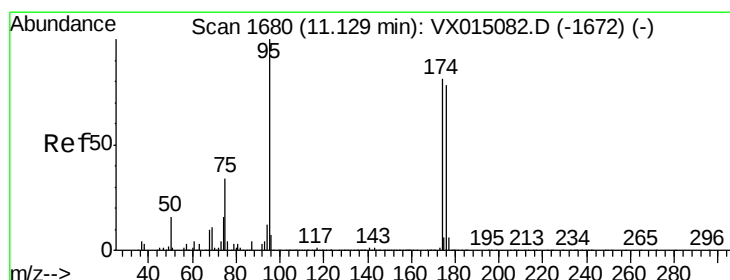
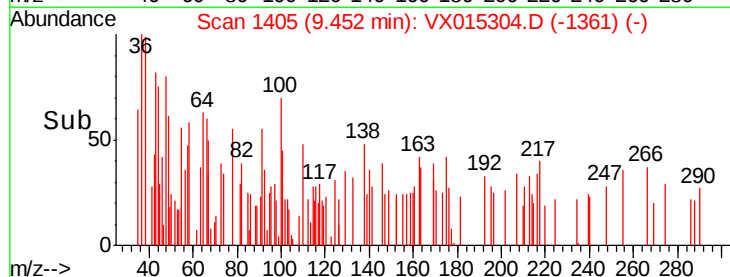
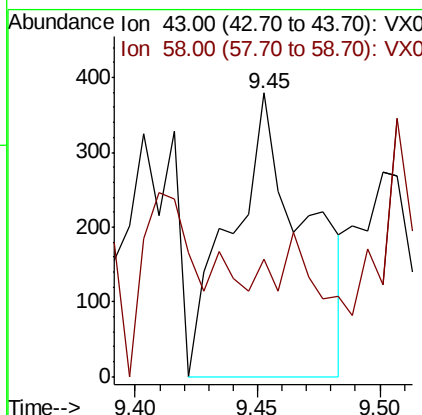
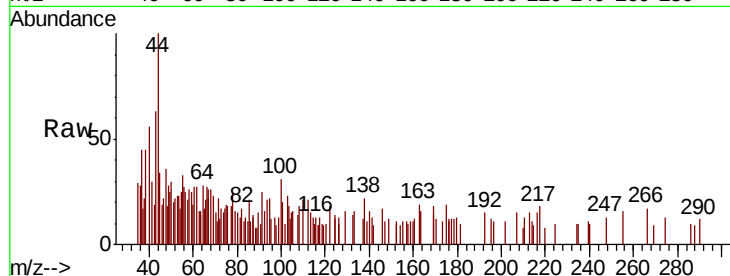




#59
2-Hexanone
Concen: 0.243 ug/l
RT: 9.45 min Scan# 1405
Delta R.T. -0.03 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

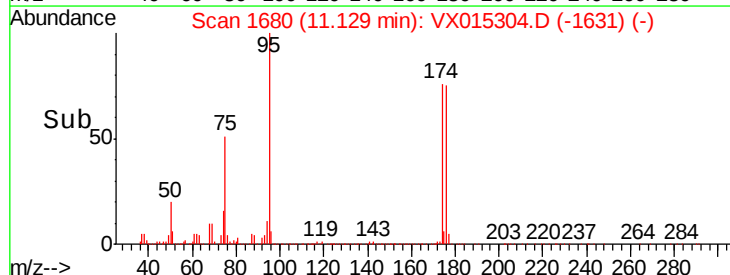
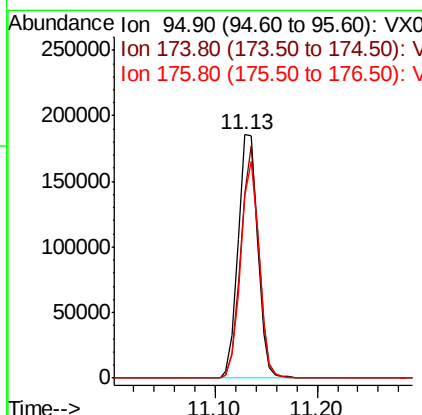
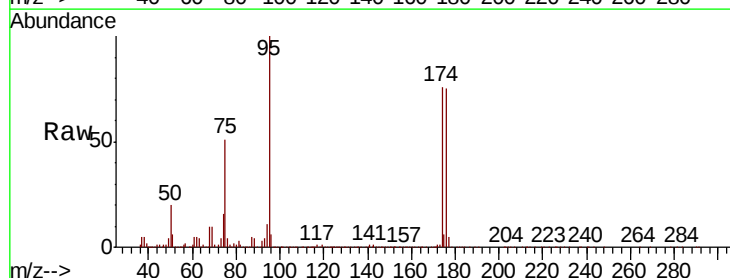
Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20200312

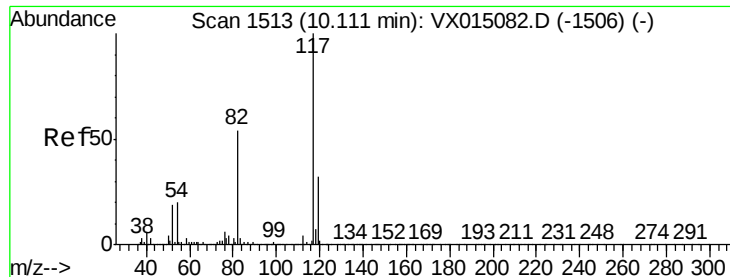
Tot Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
58 29.0 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 57.055 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

Tgt Ion: 95 Resp: 243693
Ion Ratio Lower Upper
95 100
174 87.8 0.0 177.6
176 84.1 0.0 170.2

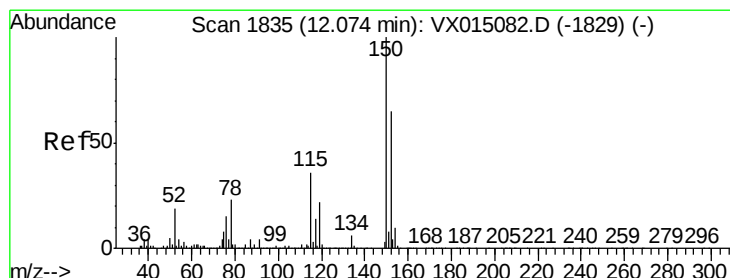
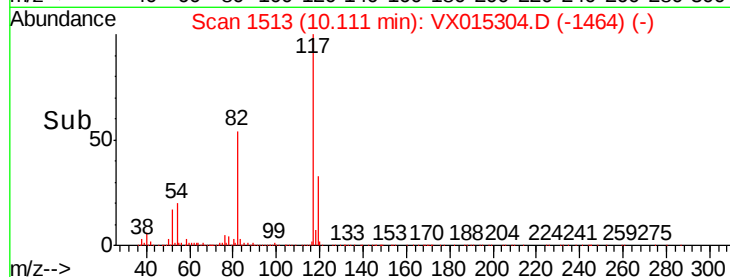
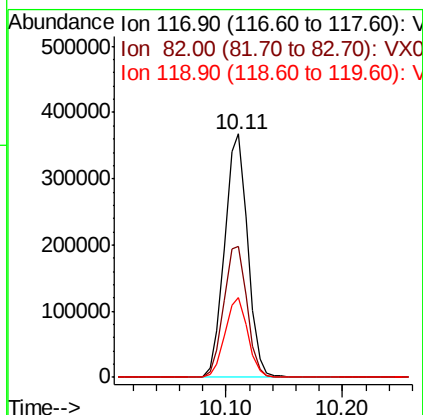
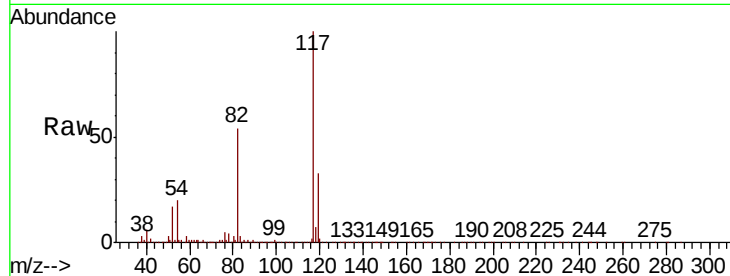




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

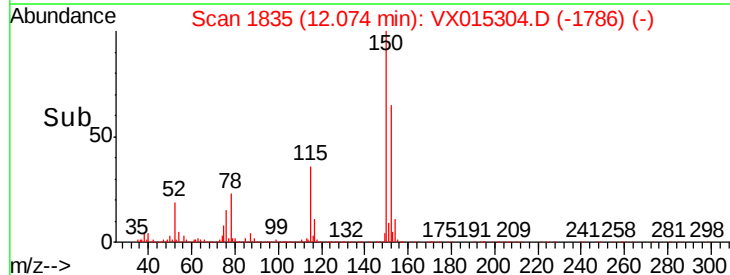
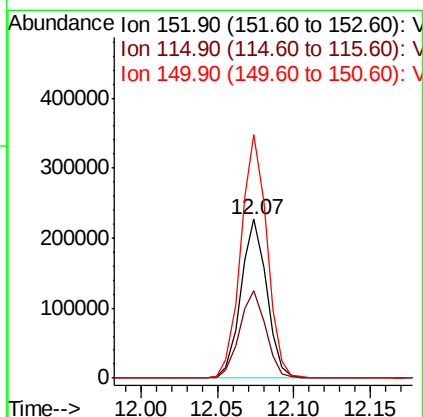
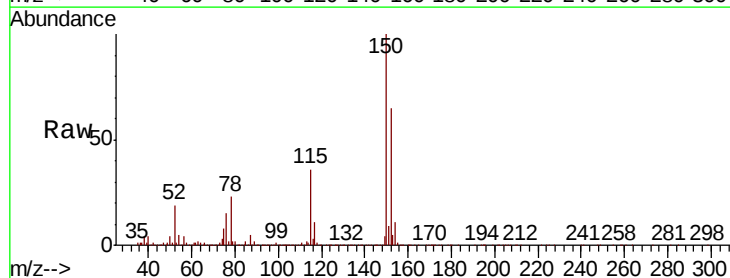
Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20200312

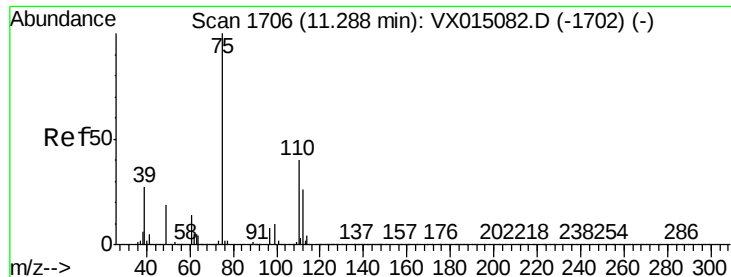
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.3	64.9
119	32.9	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015304.D
Acq: 16 Mar 2020 19:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	38.2	114.6
150	154.8	0.0	343.8





#76

1,2,3-Trichloropropane

Concen: 22.544 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

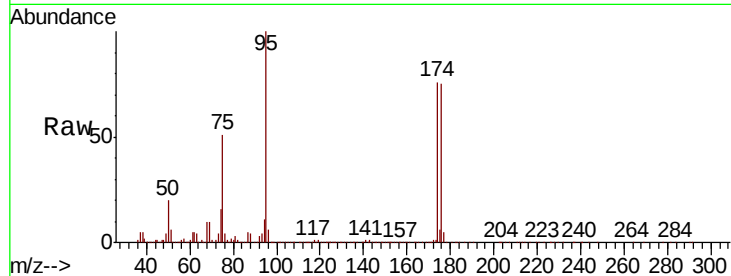
RE104D3-20200312

Tot Ion: 75 Resp: 118965

Ion Ratio Lower Upper

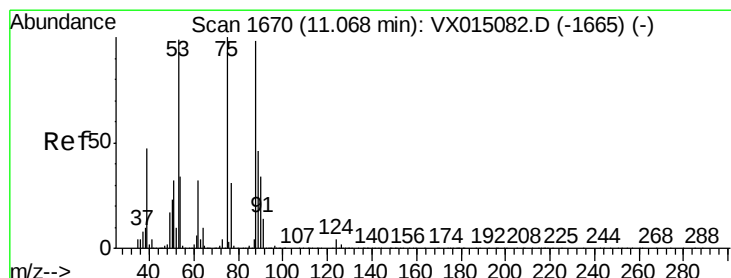
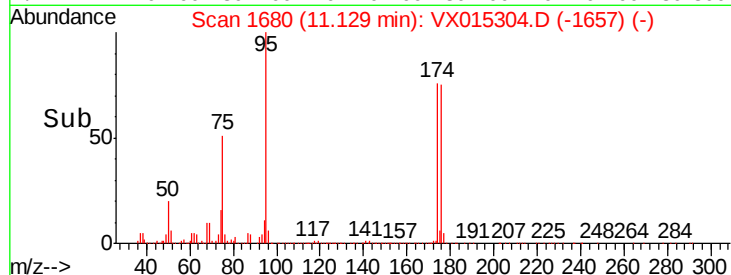
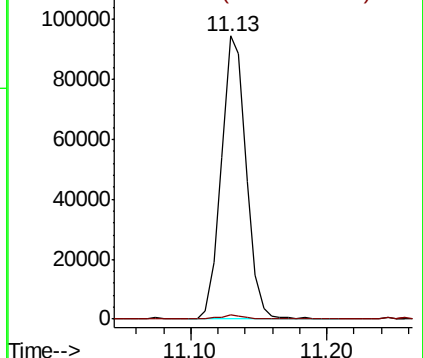
75 100

77 1.4 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: 63.981 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

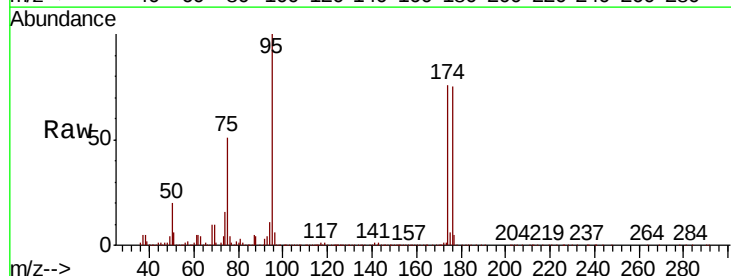
Tgt Ion: 75 Resp: 118965

Ion Ratio Lower Upper

75 100

53 0.2 77.9 116.9#

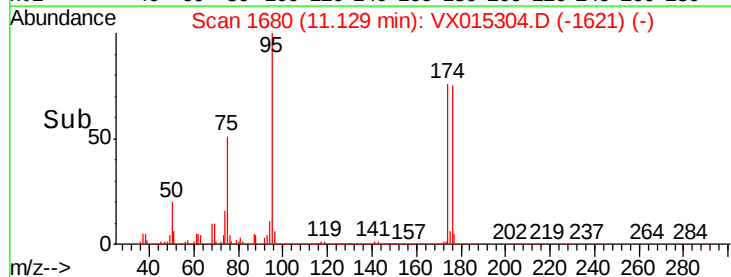
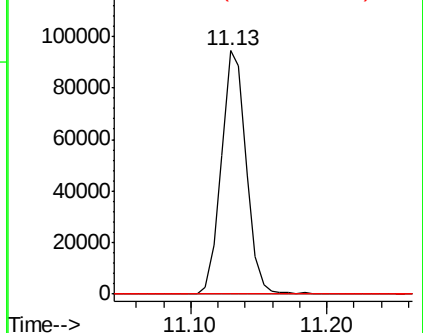
89 0.4 36.2 54.2#

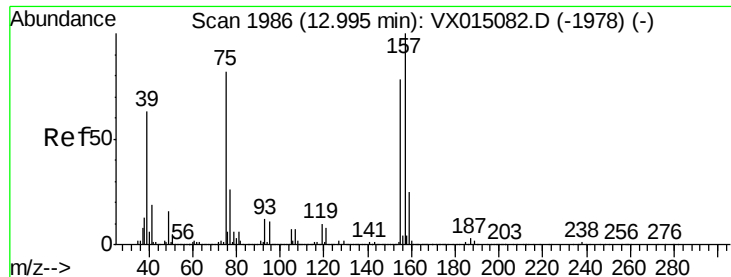


Abundance Ion 74.90 (74.60 to 75.60): VX0

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: 0.427 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20200312

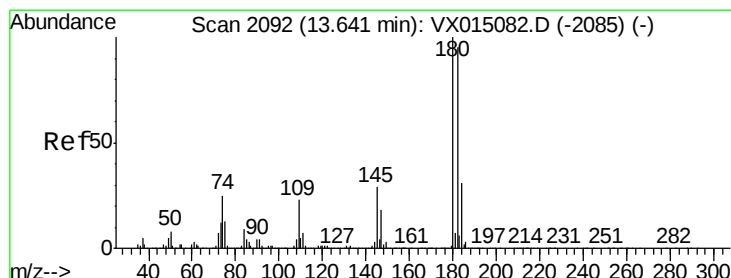
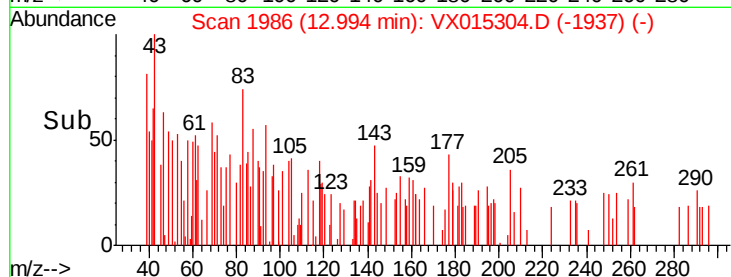
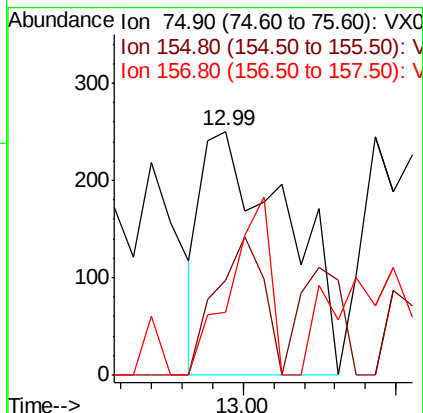
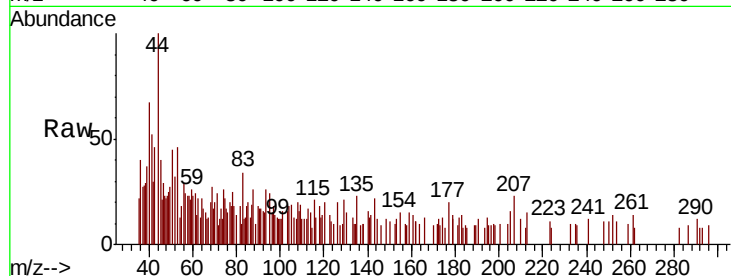
Tot Ion: 75 Resp: 482

Ion Ratio Lower Upper

75 100

155 31.5 46.6 139.7#

157 34.4 59.2 177.5#



#93

1,2,4-Trichlorobenzene

Concen: 0.219 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. -0.00 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

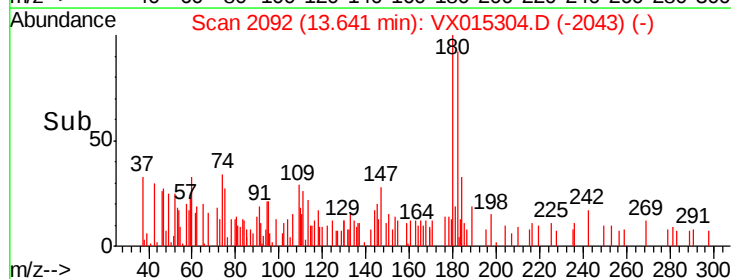
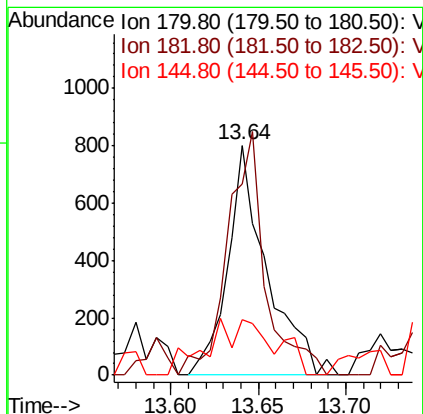
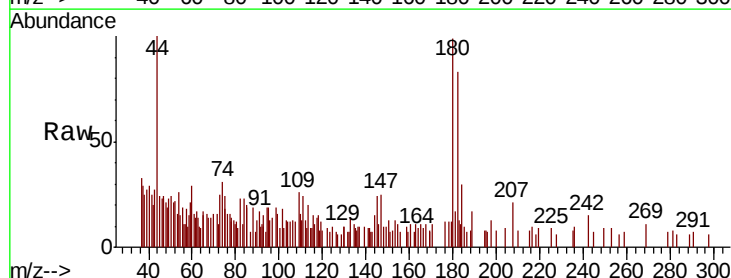
Tgt Ion:180 Resp: 1253

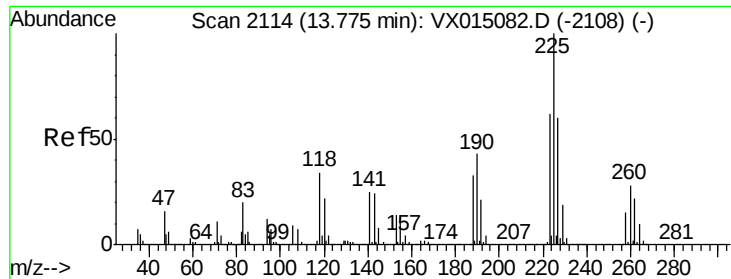
Ion Ratio Lower Upper

180 100

182 101.0 47.6 142.8

145 34.6 14.1 42.2





#94

Hexachlorobutadiene

Concen: 0.232 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20200312

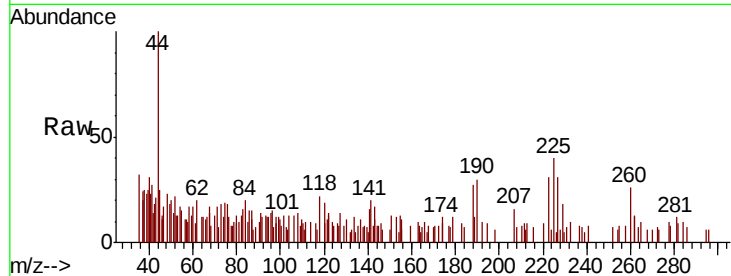
Tot Ion:225 Resp: 679

Ion Ratio Lower Upper

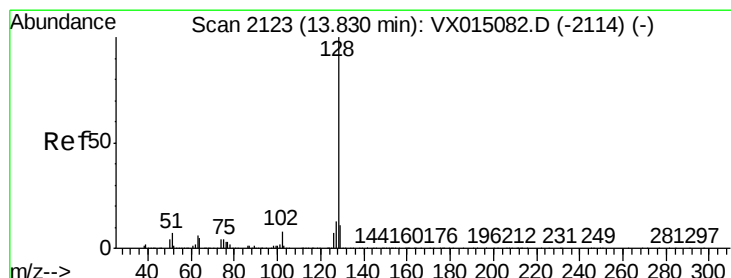
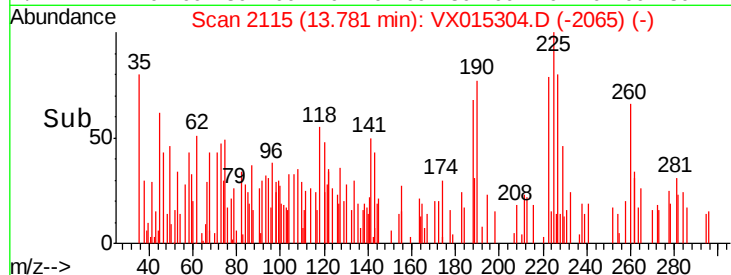
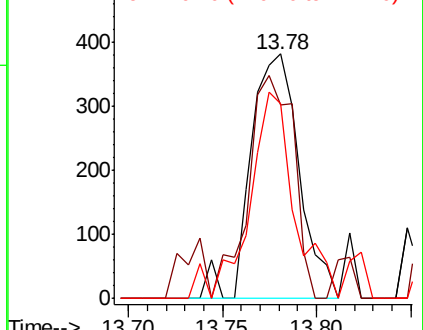
225 100

223 85.7 31.3 93.9

227 78.8 31.1 93.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.511 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX015304.D

Acq: 16 Mar 2020 19:20

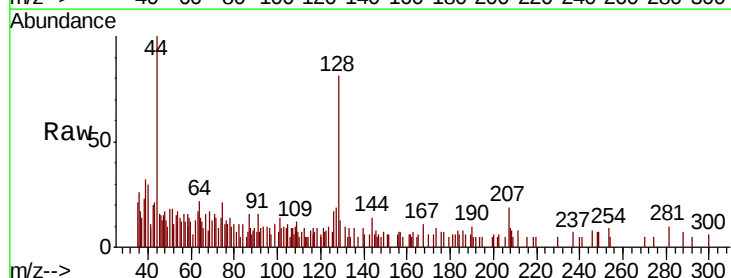
Tgt Ion:128 Resp: 1639

Ion Ratio Lower Upper

128 100

127 12.3 10.3 15.5

129 27.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

