

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX013020\
 Data File : VX014772.D
 Acq On : 30 Jan 2020 17:21
 Operator : JC/SP
 Sample : L1332-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 31 04:19:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	437302	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.84	114	688145	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	624651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	268996	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	262596	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
35) Dibromofluoromethane	5.48	113	217206	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
50) Toluene-d8	8.71	98	814432	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
62) 4-Bromofluorobenzene	11.13	95	270901	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	

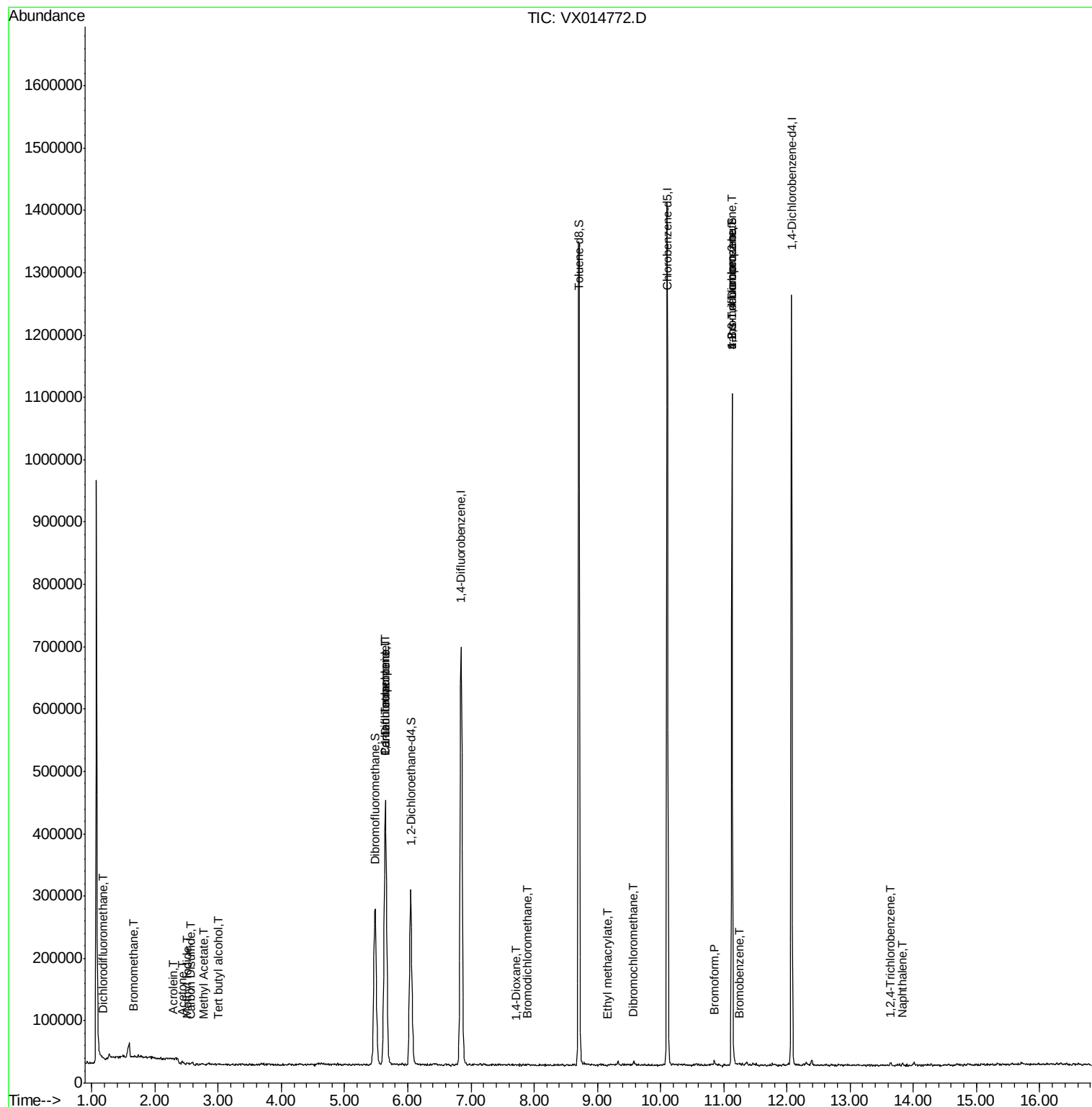
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	260	0.575	ug/l #	1
5) Bromomethane	1.66	94	1761	0.405	ug/l #	60
6) Chloroethane	1.72	64	833	Below Cal	#	74
10) Methyl Iodide	2.52	142	2700	0.471	ug/l #	51
11) Tert butyl alcohol	3.01	59	792	0.691	ug/l #	49
13) Acrolein	2.28	56	366	0.405	ug/l #	14
16) Acetone	2.43	43	3894	1.541	ug/l #	80
17) Carbon Disulfide	2.56	76	2652	0.223	ug/l #	84
18) Methyl Acetate	2.76	43	1638	0.205	ug/l #	74
36) 1,1-Dichloropropene	5.65	75	29743	4.652	ug/l #	52
38) Carbon Tetrachloride	5.64	117	39125	6.407	ug/l #	15
41) Methacrylonitrile	5.00	41	377	Below Cal	#	35
47) Bromodichloromethane	7.89	83	1596	0.247	ug/l #	93
49) 1,4-Dioxane	7.71	88	465	3.828	ug/l #	38
56) Ethyl methacrylate	9.17	69	165	1.803	ug/l #	1
60) Dibromochloromethane	9.57	129	3137	0.604	ug/l	91
71) Bromoform	10.85	173	3587	0.916	ug/l #	96
76) 1,2,3-Trichloropropane	11.13	75	132685	21.201	ug/l #	40
77) Bromobenzene	11.25	156	1249	0.246	ug/l	57
81) trans-1,4-Dichloro-2-buten	11.13	75	132685	60.335	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.63	180	1229	0.210	ug/l #	74
95) Naphthalene	13.83	128	2956	1.085	ug/l #	97

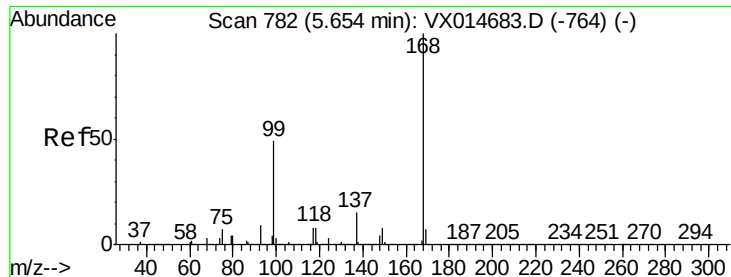
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 22 12:35:15 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :

MSVOA_X

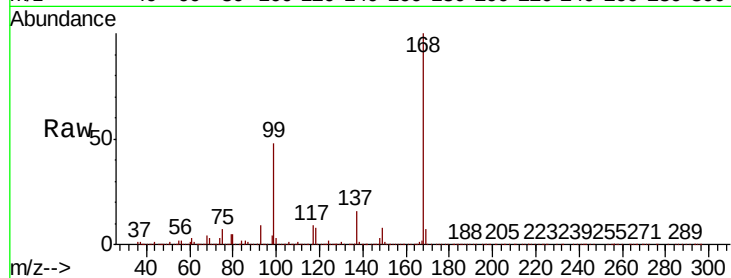
ClientSampleId :

Tot Ion:168 Resp: 437302

Ion Ratio Lower Upper

168 100

99 47.9 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

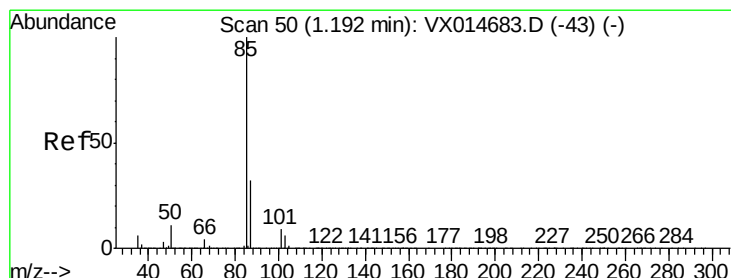
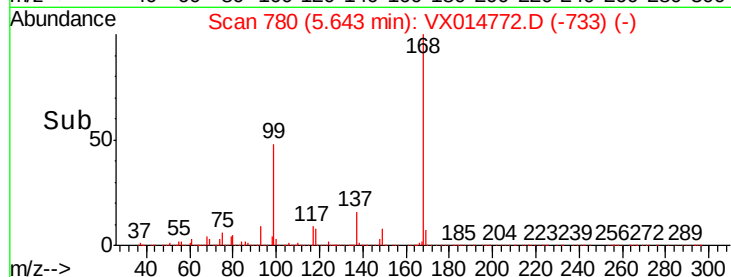
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.575 ug/l

RT: 1.18 min Scan# 48

Delta R.T. -0.01 min

Lab File: VX014772.D

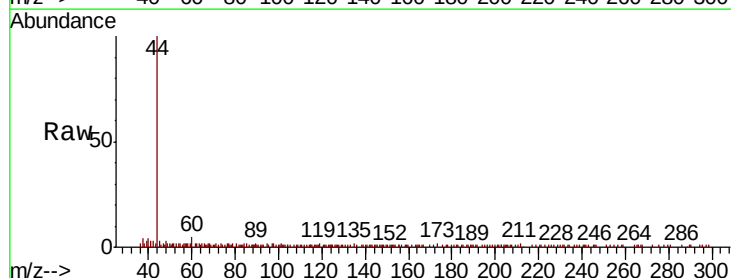
Acq: 30 Jan 2020 17:21

Tgt Ion: 85 Resp: 260

Ion Ratio Lower Upper

85 100

87 110.9 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

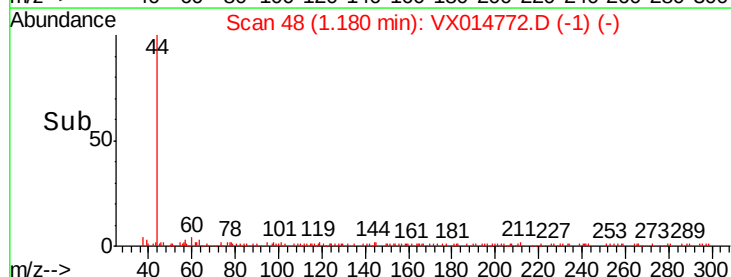
300

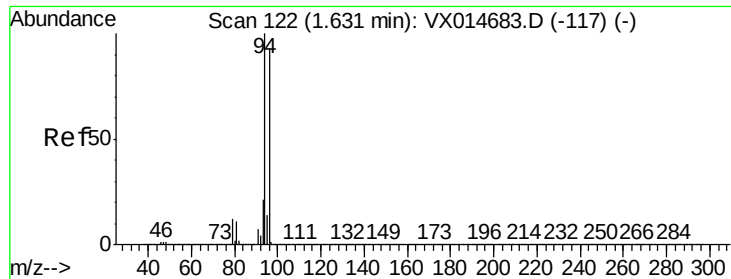
200

100

0

Time-->





#5

Bromomethane

Concen: 0.405 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :

MSVOA_X

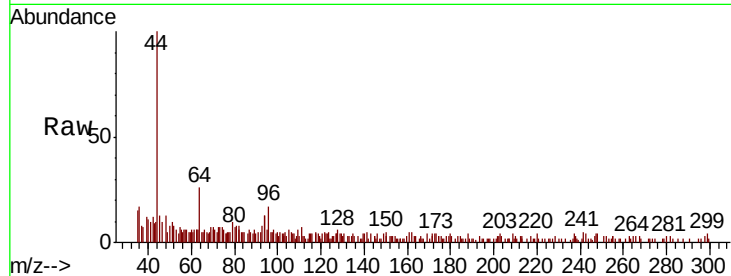
ClientSampled :

Tot Ion: 94 Resp: 1761

Ion Ratio Lower Upper

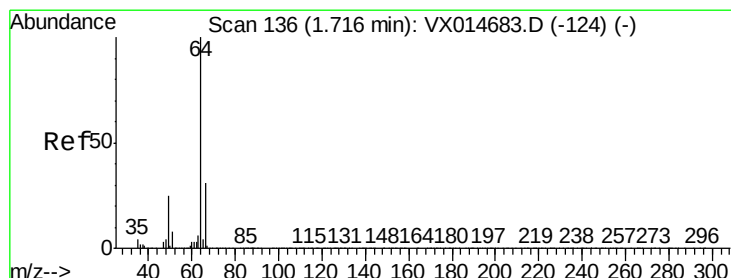
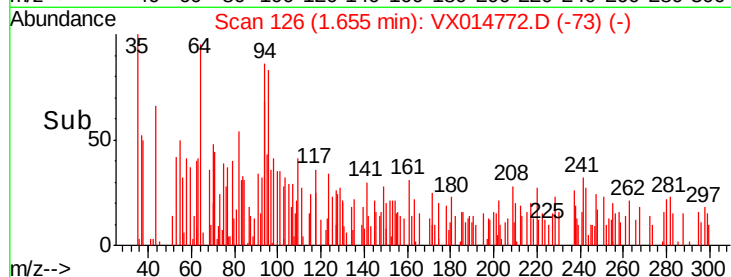
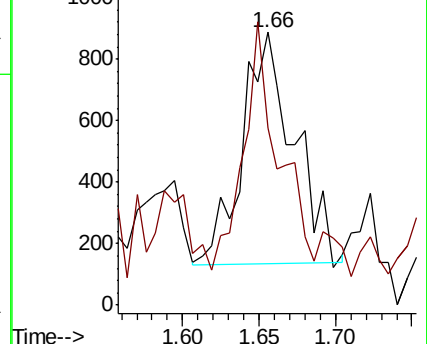
94 100

96 54.6 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014772.D

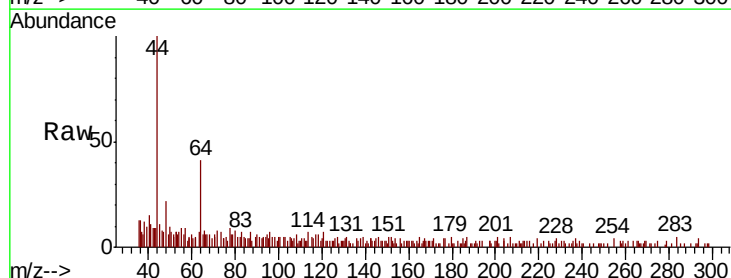
Acq: 30 Jan 2020 17:21

Tgt Ion: 64 Resp: 833

Ion Ratio Lower Upper

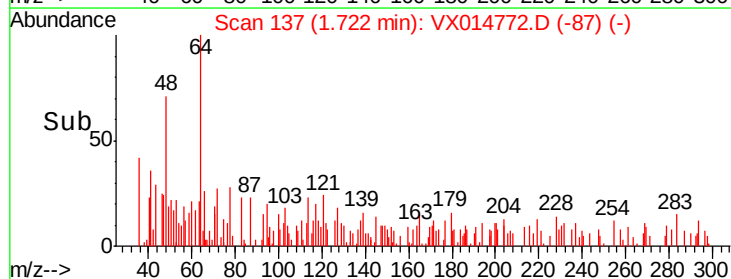
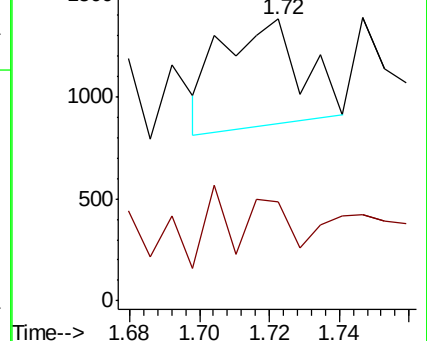
64 100

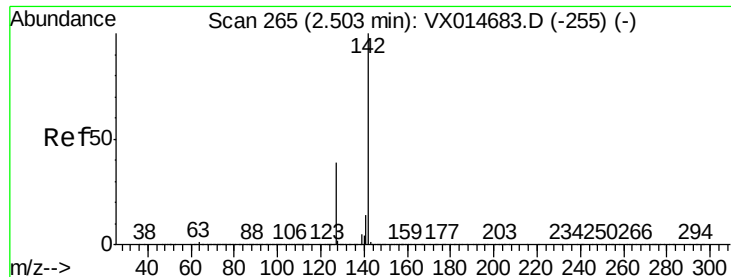
66 17.2 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

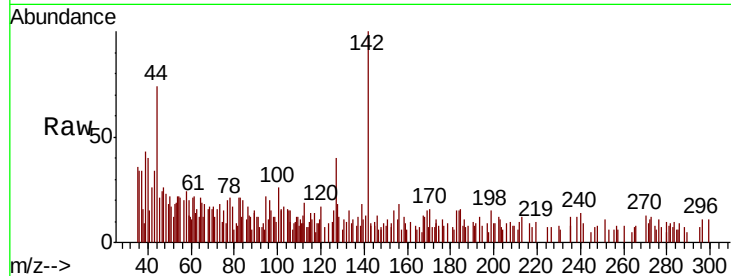




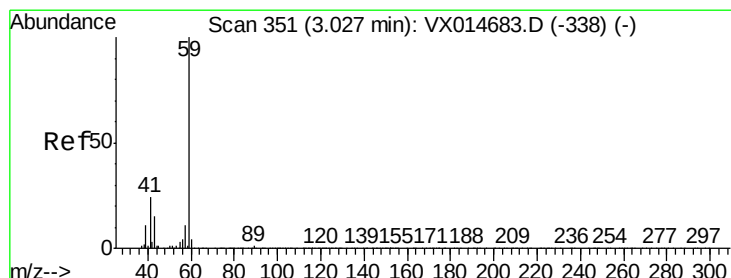
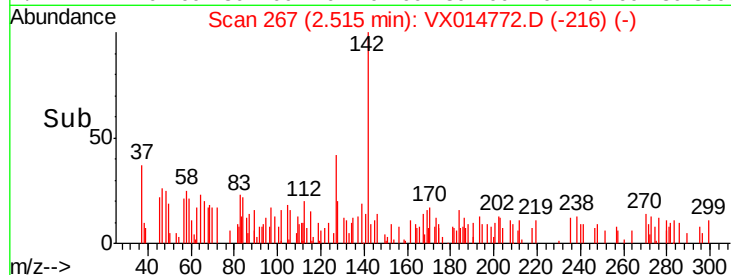
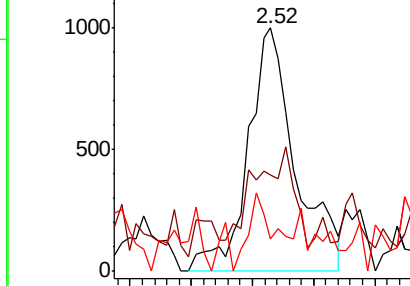
#10
Methvl Iodide
Concen: 0.471 ug/l
RT: 2.52 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014772.D
Acq: 30 Jan 2020 17:21

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2700
Ion Ratio Lower Upper
142 100
127 0.0 31.1 46.7#
141 16.9 11.3 16.9

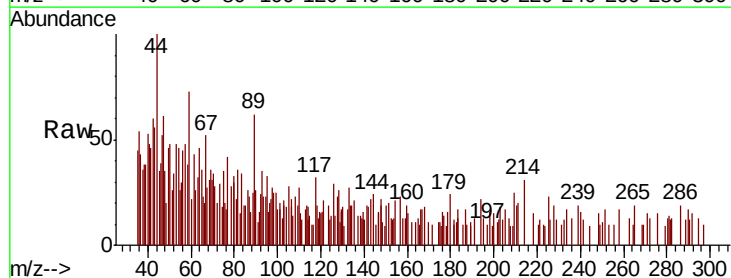


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

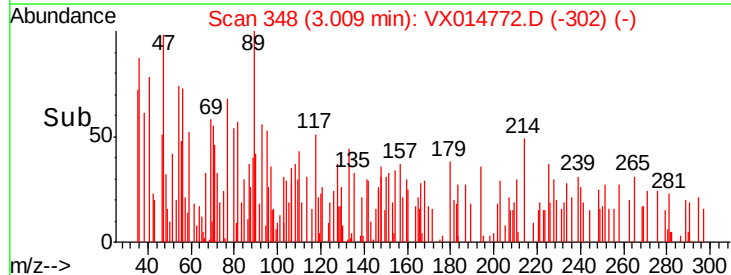
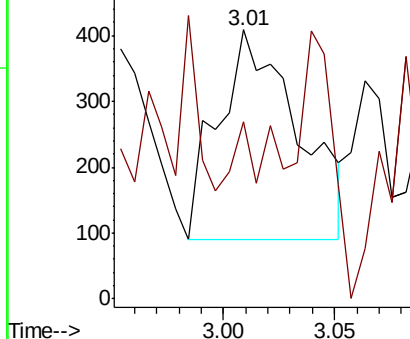


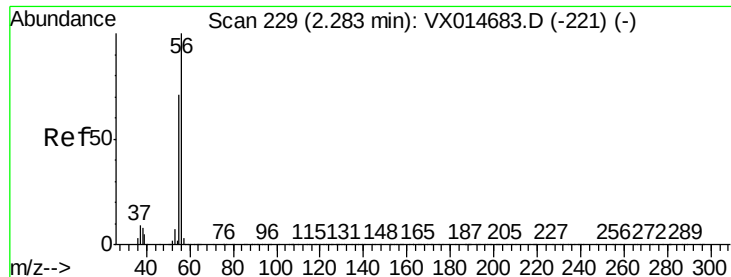
#11
Tert butyl alcohol
Concen: 0.691 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX014772.D
Acq: 30 Jan 2020 17:21

Tgt Ion: 59 Resp: 792
Ion Ratio Lower Upper
59 100
57 29.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.405 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

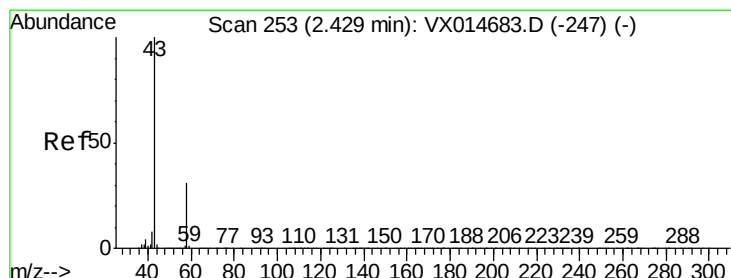
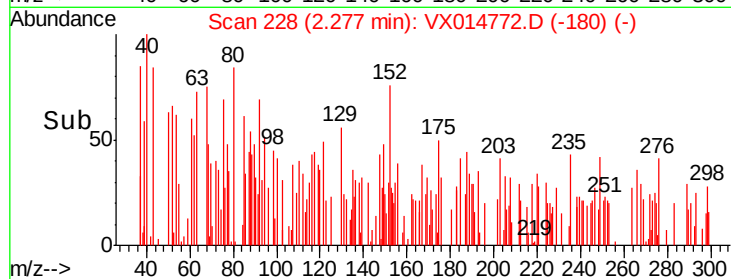
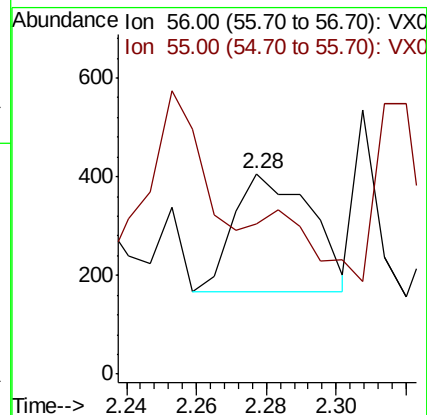
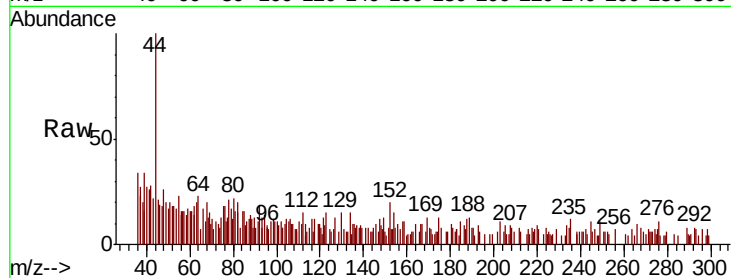
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 366

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



#16

Acetone

Concen: 1.541 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014772.D

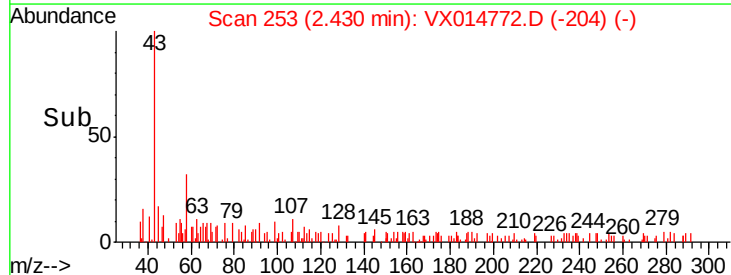
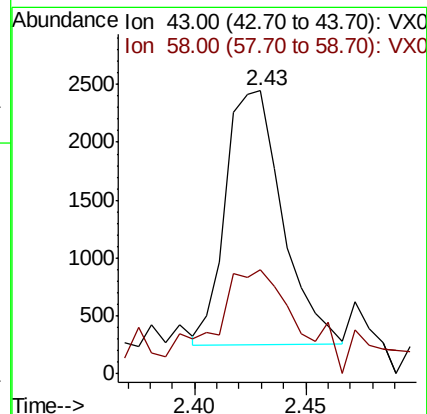
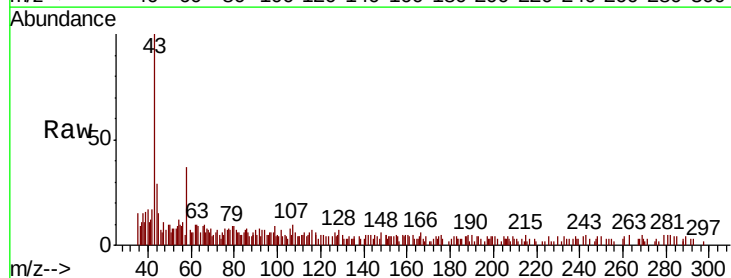
Acq: 30 Jan 2020 17:21

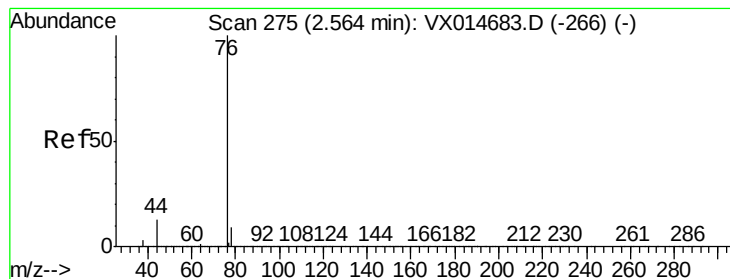
Tgt Ion: 43 Resp: 3894

Ion Ratio Lower Upper

43 100

58 41.5 24.5 36.7#





#17

Carbon Disulfide

Concen: 0.223 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :

MSVOA_X

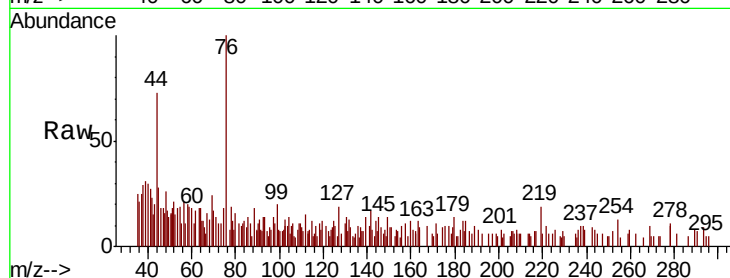
ClientSampleId :

Tot Ion: 76 Resp: 2652

Ion Ratio Lower Upper

76 100

78 3.1 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

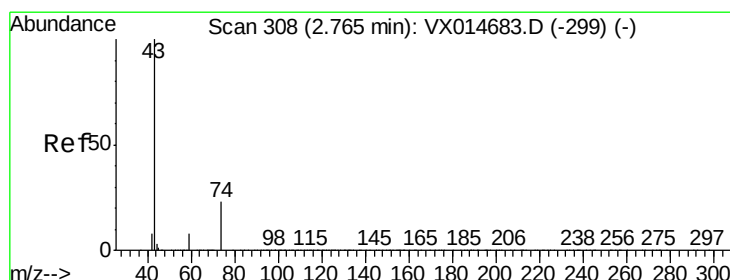
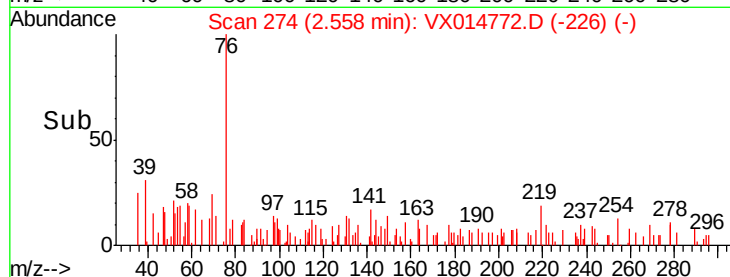
2.56

1000

500

0

Time-->



#18

Methyl Acetate

Concen: 0.205 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.01 min

Lab File: VX014772.D

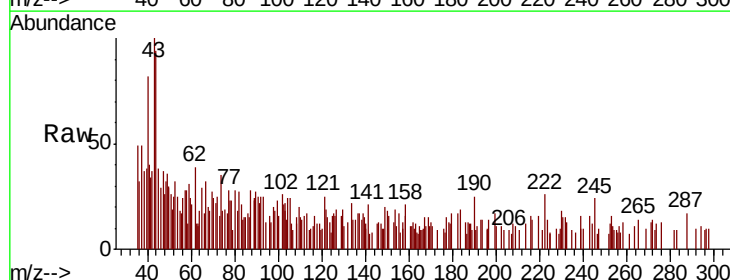
Acq: 30 Jan 2020 17:21

Tgt Ion: 43 Resp: 1638

Ion Ratio Lower Upper

43 100

74 10.4 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

800

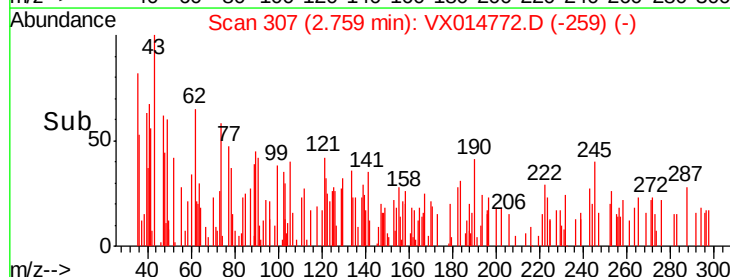
600

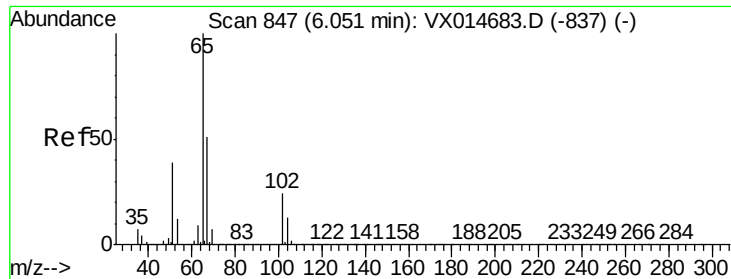
400

200

0

Time-->

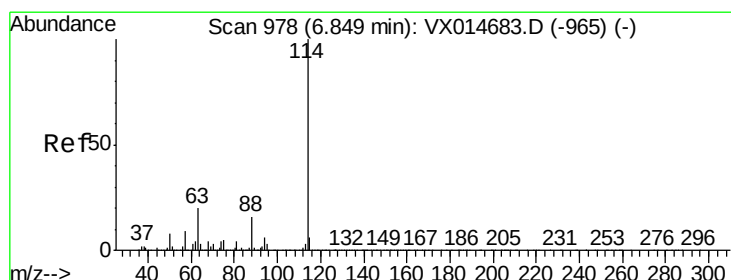
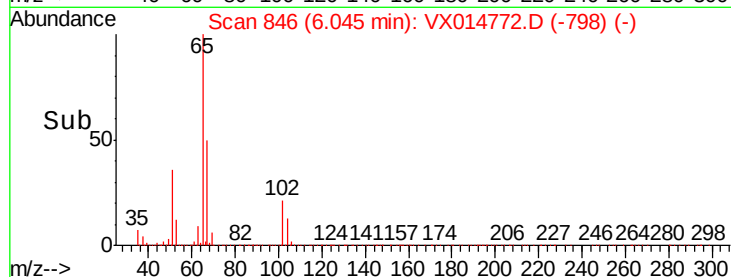
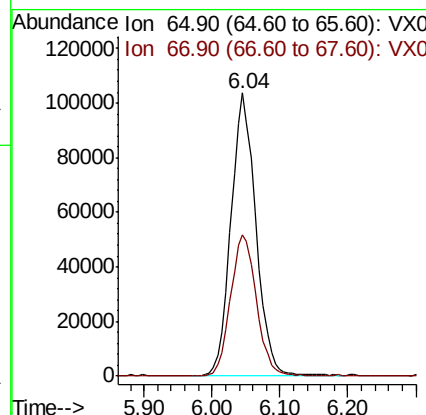
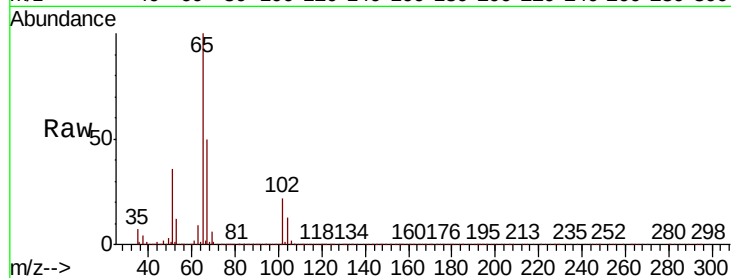




#33
 1,2-Dichloroethane-d4
 Concen: 51.422 ug/l
 RT: 6.04 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: VX014772.D
 Acq: 30 Jan 2020 17:21

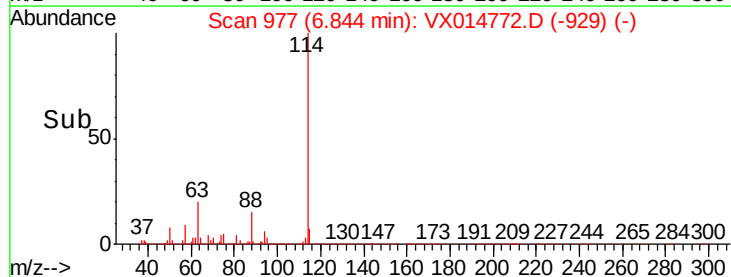
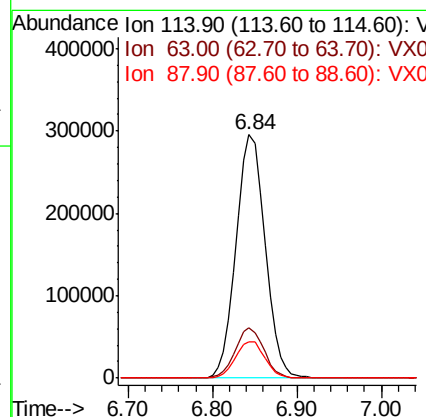
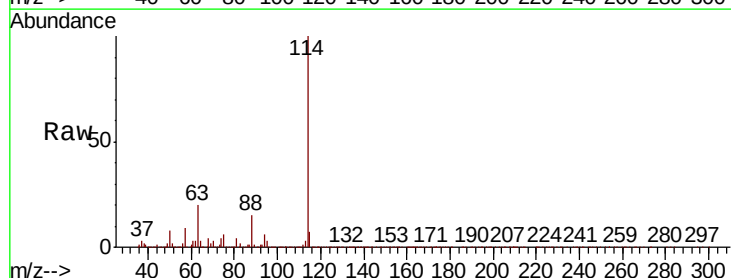
Instrument :
 MSVOA_X
 ClientSampleId :

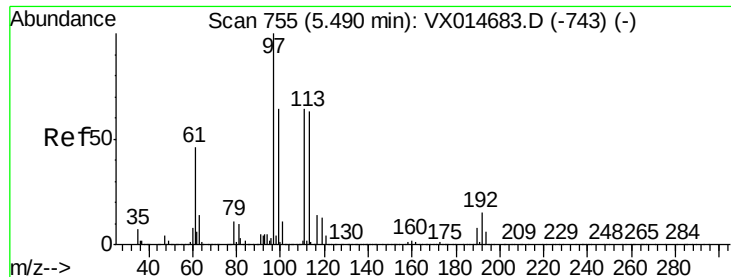
Tot Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 977
 Delta R.T. -0.01 min
 Lab File: VX014772.D
 Acq: 30 Jan 2020 17:21

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.6
88	15.0	0.0	31.2

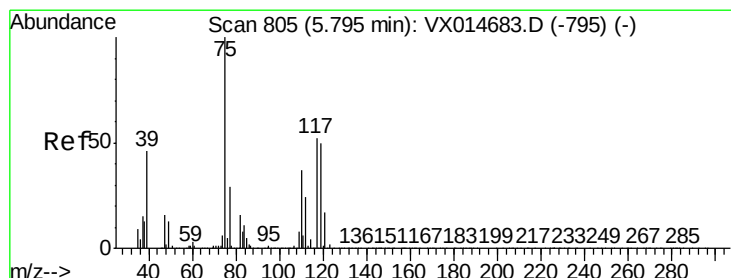
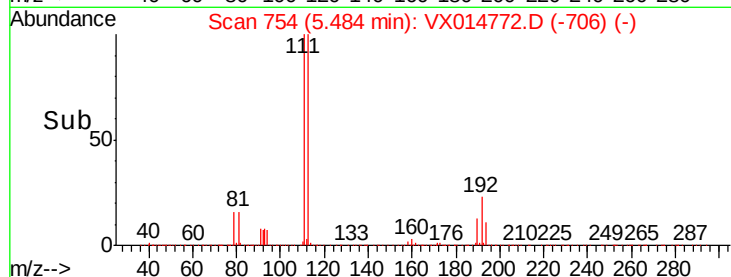
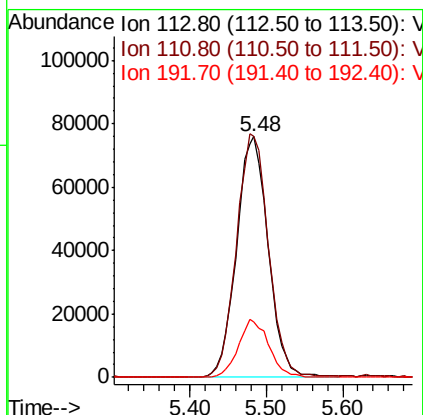
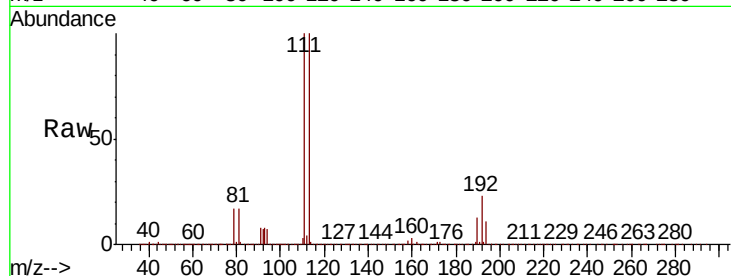




#35
 Dibromofluoromethane
 Concen: 50.023 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX014772.D
 Acq: 30 Jan 2020 17:21

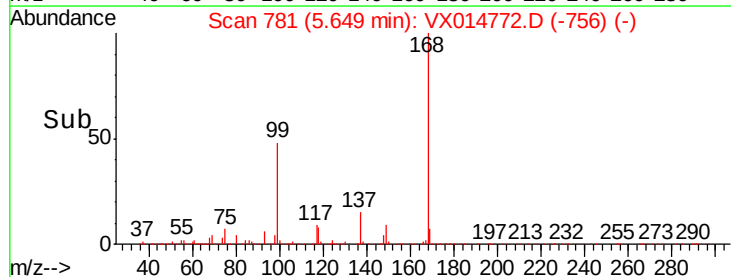
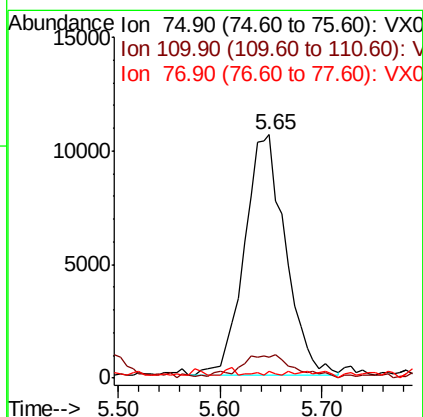
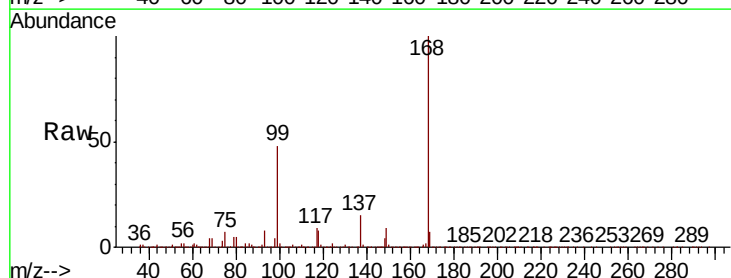
Instrument :
 MSVOA_X
 ClientSampleId :

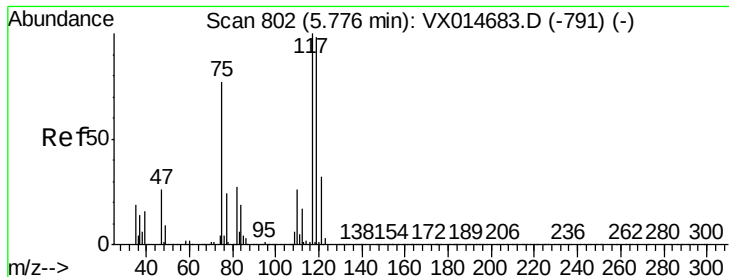
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.7	121.1
192	23.6	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.652 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014772.D
 Acq: 30 Jan 2020 17:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	17.9	53.7#
77	0.4	24.1	36.1#





#38

Carbon Tetrachloride

Concen: 6.407 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

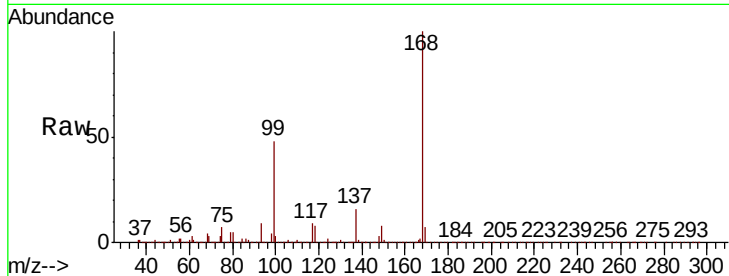
Tot Ion:117 Resp: 39125

Ion Ratio Lower Upper

117 100

119 4.2 77.9 116.9#

121 0.0 25.4 38.2#

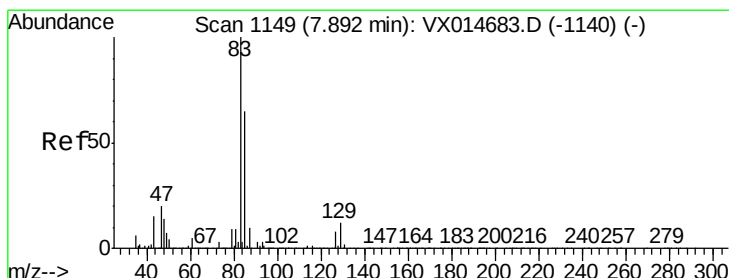
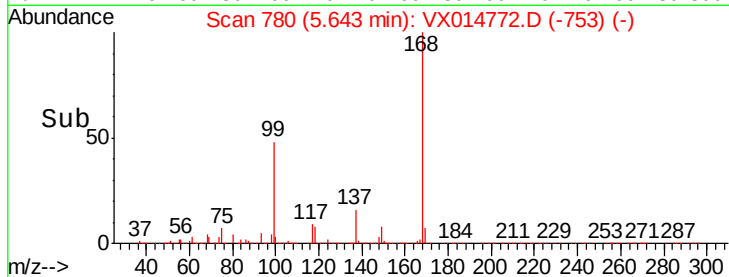
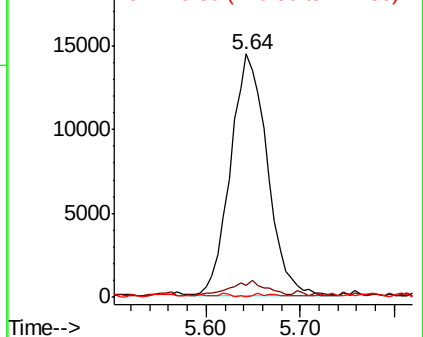


Abundance

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



#47

Bromodichloromethane

Concen: 0.247 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

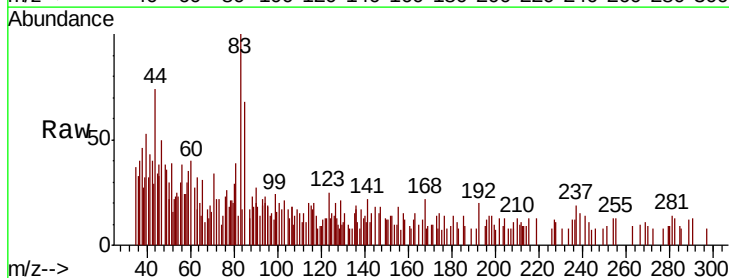
Tgt Ion: 83 Resp: 1596

Ion Ratio Lower Upper

83 100

85 67.6 52.2 78.2

127 23.2 6.4 9.6#

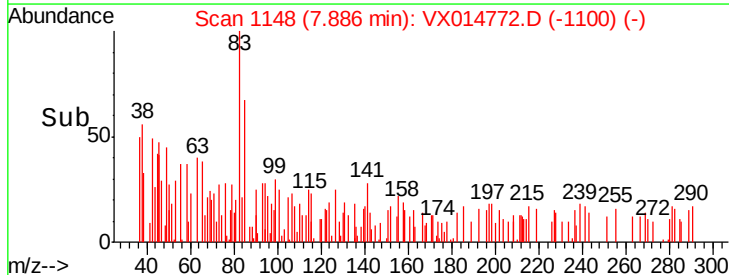
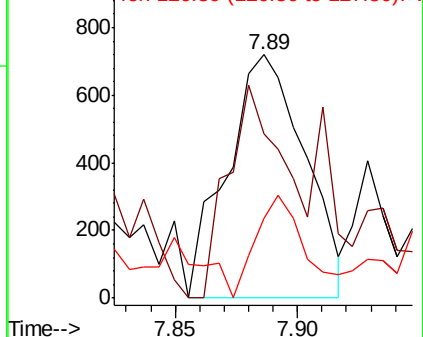


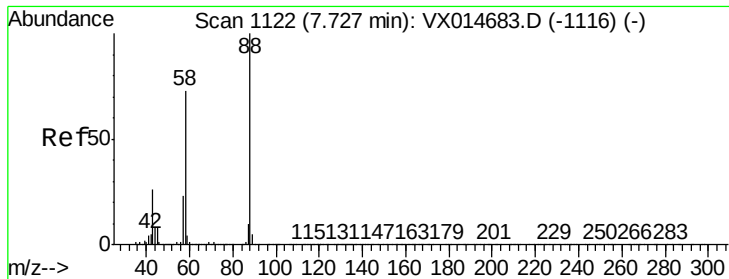
Abundance

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#49

1,4-Dioxane

Concen: 3.828 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :
MSVOA_X
ClientSampleId :

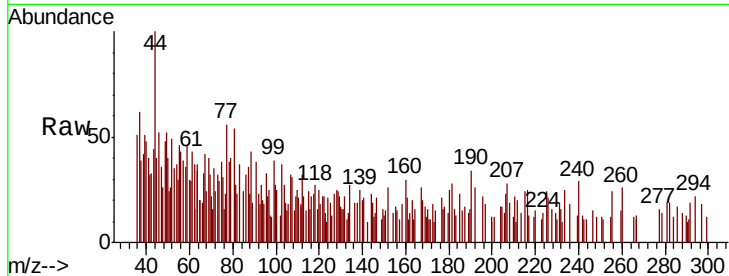
Tot Ion: 88 Resp: 465

Ion Ratio Lower Upper

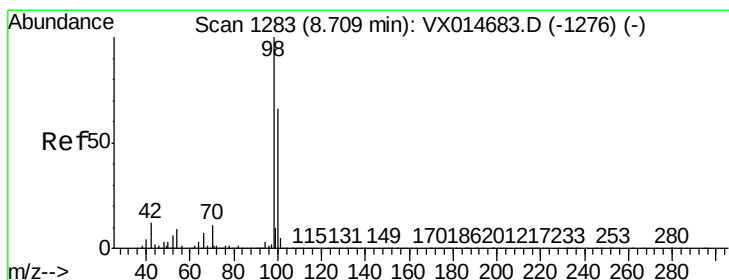
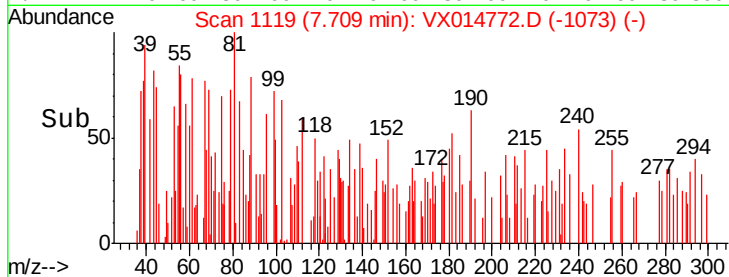
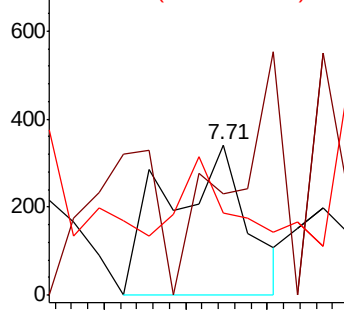
88 100

43 102.6 26.2 39.2#

58 43.7 56.6 85.0#



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



#50

Toluene-d8

Concen: 48.789 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014772.D

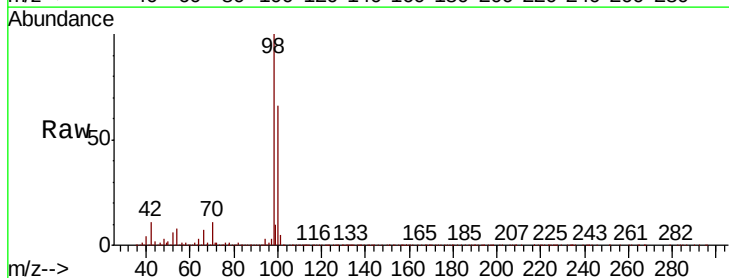
Acq: 30 Jan 2020 17:21

Tgt Ion: 98 Resp: 814432

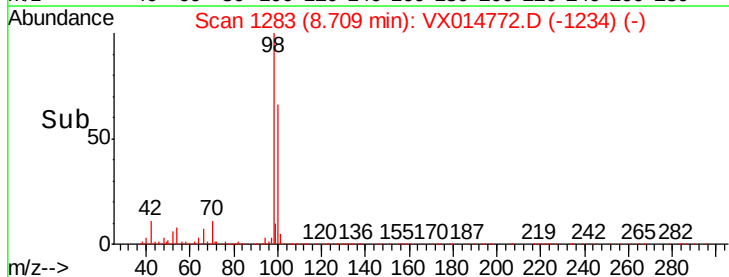
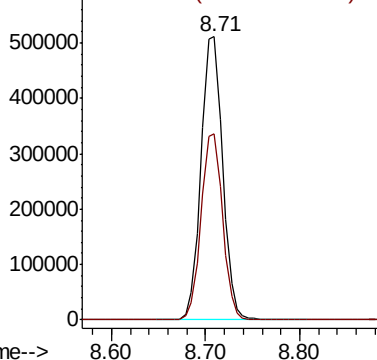
Ion Ratio Lower Upper

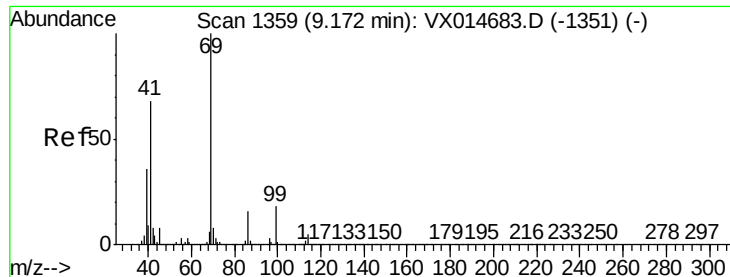
98 100

100 65.4 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#56

Ethyl methacrylate

Concen: 1.803 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :
MSVOA_X
ClientSampled :

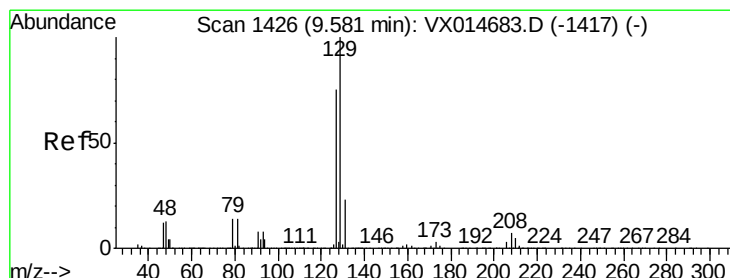
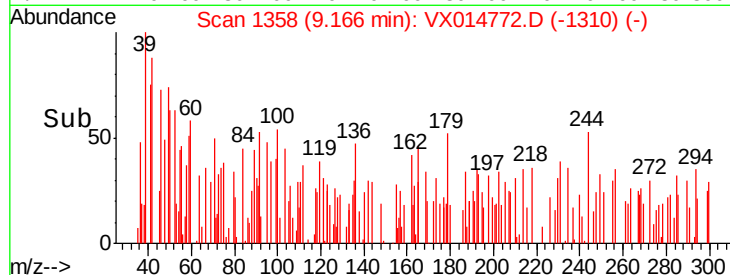
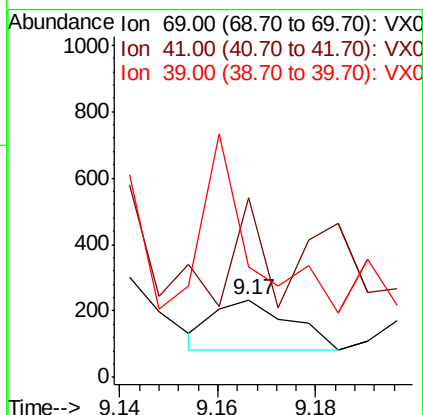
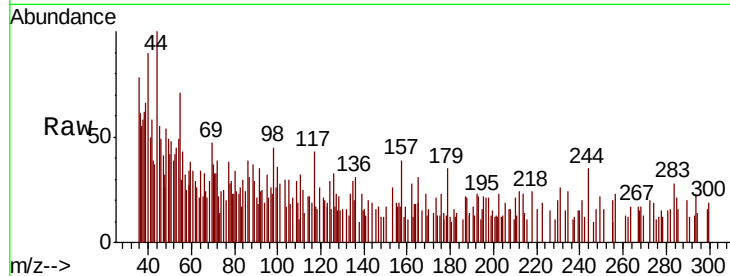
Tot Ion: 69 Resp: 165

Ion Ratio Lower Upper

69 100

41 72.7 54.9 82.3

39 219.4 29.3 43.9#



#60

Dibromochloromethane

Concen: 0.604 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. -0.01 min

Lab File: VX014772.D

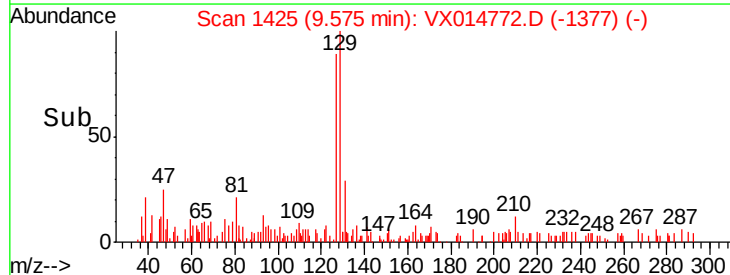
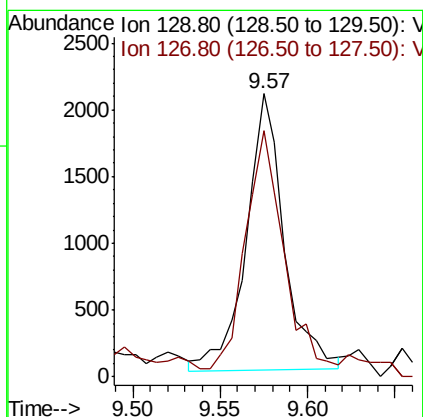
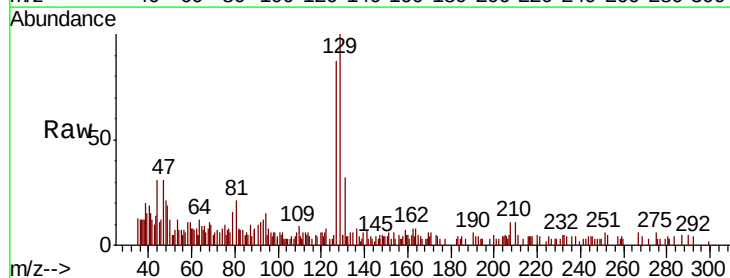
Acq: 30 Jan 2020 17:21

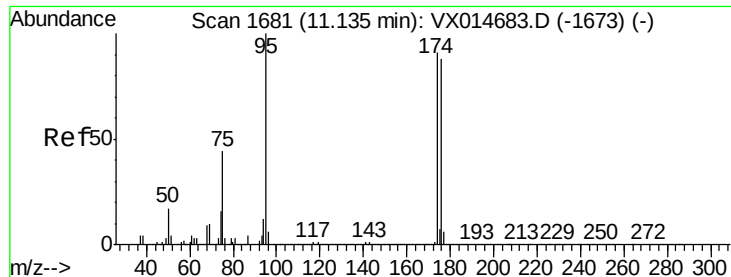
Tgt Ion: 129 Resp: 3137

Ion Ratio Lower Upper

129 100

127 85.0 38.5 115.5





#62

4-Bromofluorobenzene

Concen: 45.557 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

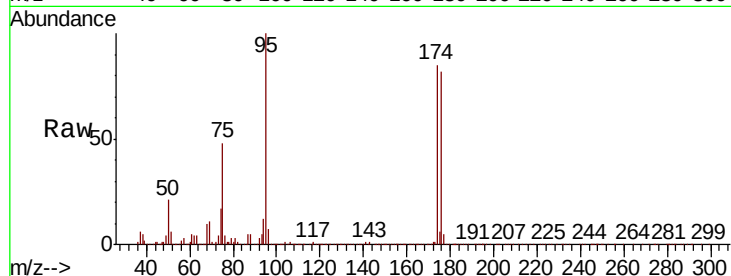
Tot Ion: 95 Resp: 270901

Ion Ratio Lower Upper

95 100

174 89.2 0.0 176.0

176 85.4 0.0 172.2

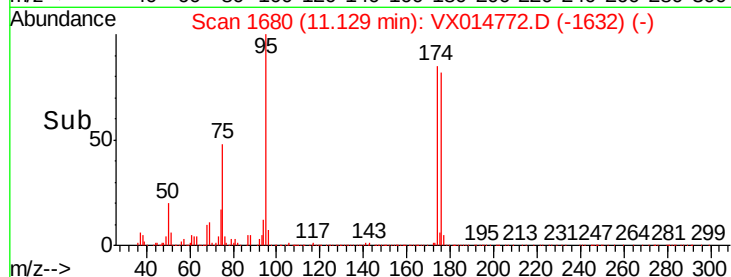


Abundance Ion 94.90 (94.60 to 95.60): VX014683.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX014683.D (-1673) (-)

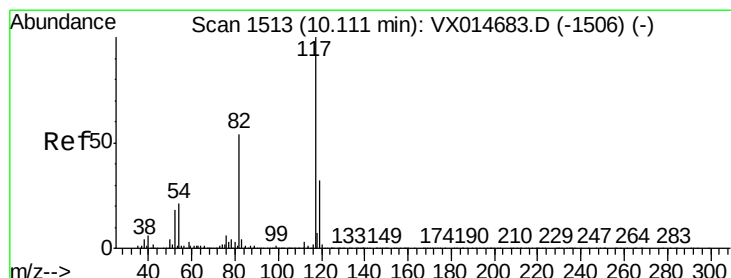
Ion 175.80 (175.50 to 176.50): VX014683.D (-1673) (-)

Time-->



Abundance

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

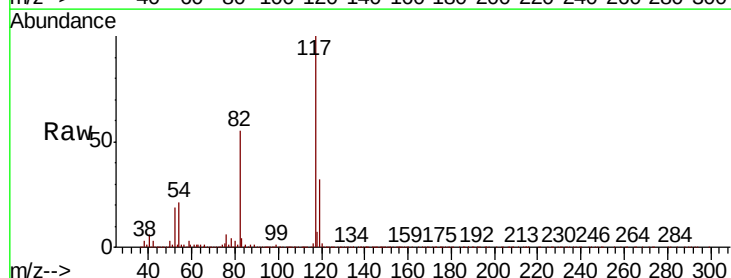
Tgt Ion: 117 Resp: 624651

Ion Ratio Lower Upper

117 100

82 55.0 43.2 64.8

119 31.7 25.8 38.6

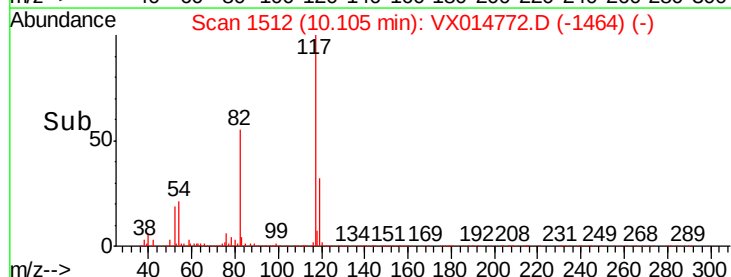


Abundance Ion 116.90 (116.60 to 117.60): VX014683.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX014683.D (-1506) (-)

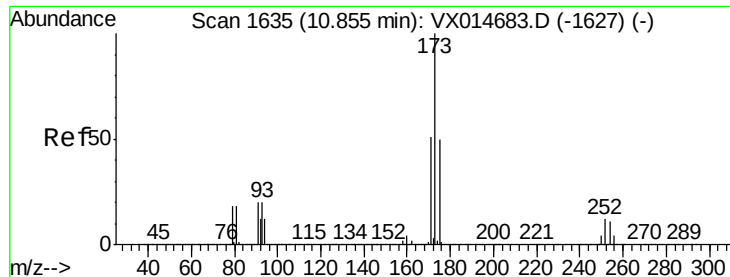
Ion 118.90 (118.60 to 119.60): VX014683.D (-1506) (-)

Time-->



Abundance

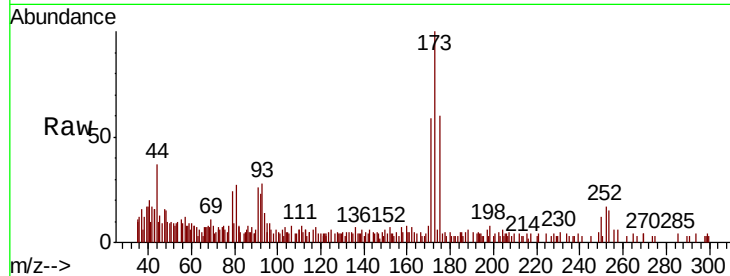
Time-->



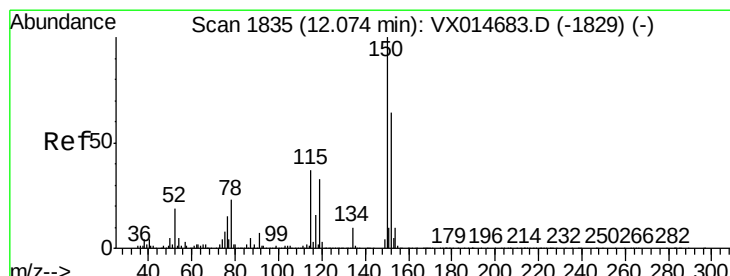
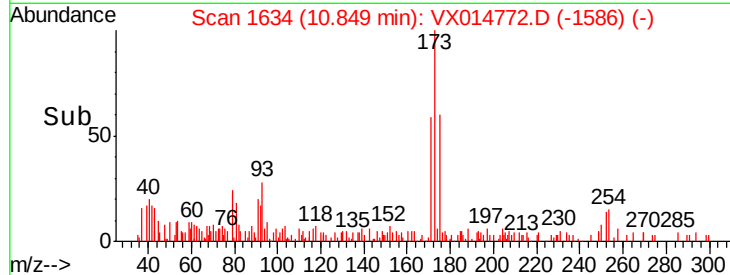
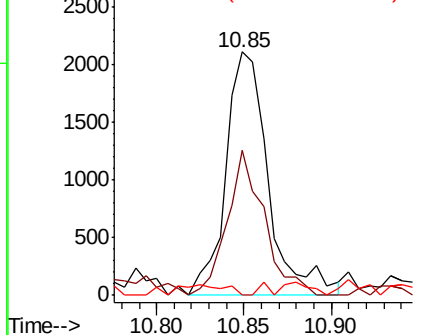
#71
Bromoform
Concen: 0.916 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX014772.D
Acq: 30 Jan 2020 17:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:173 Resp: 3587
Ion Ratio Lower Upper
173 100
175 51.7 24.6 73.6
254 1.2 0.1 0.1#

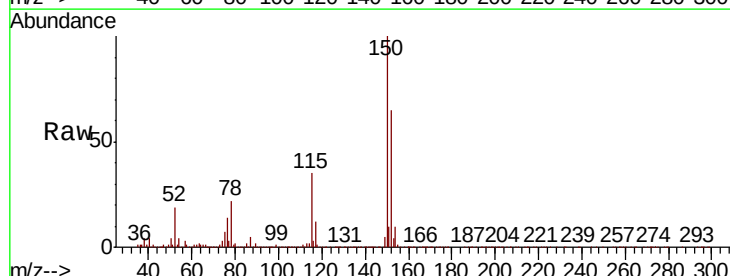


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

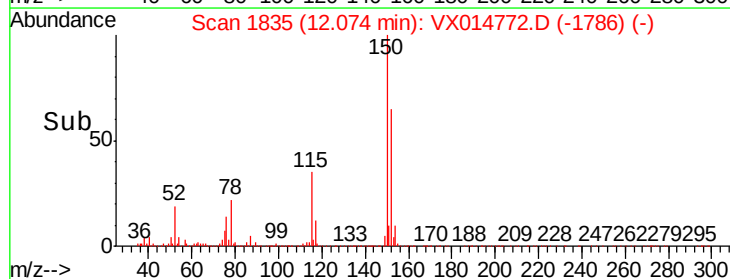
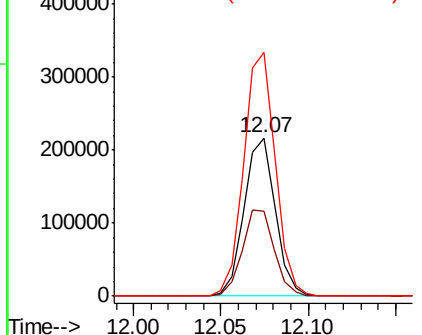


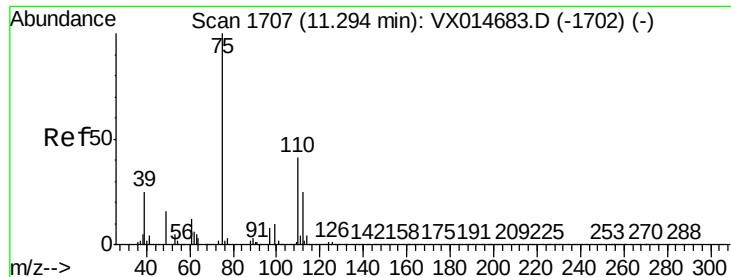
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014772.D
Acq: 30 Jan 2020 17:21

Tgt Ion:152 Resp: 268996
Ion Ratio Lower Upper
152 100
115 56.0 39.4 118.1
150 155.2 0.0 351.2



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: 21.201 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :

MSVOA_X

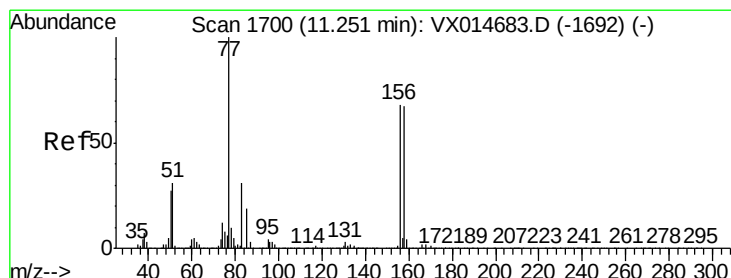
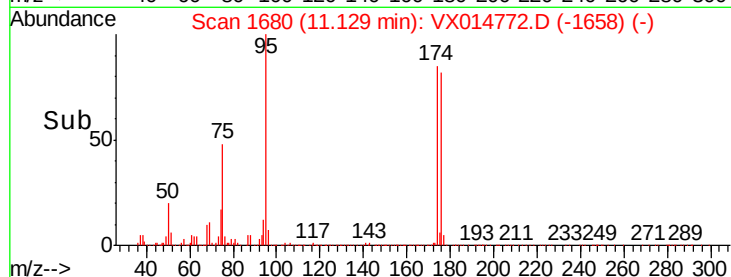
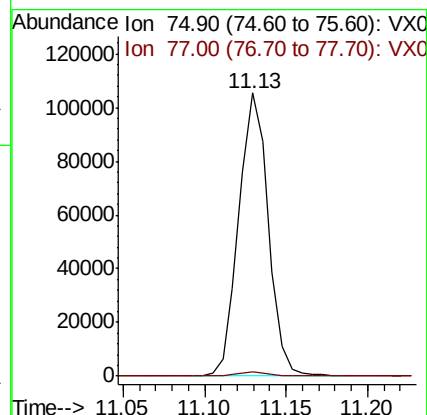
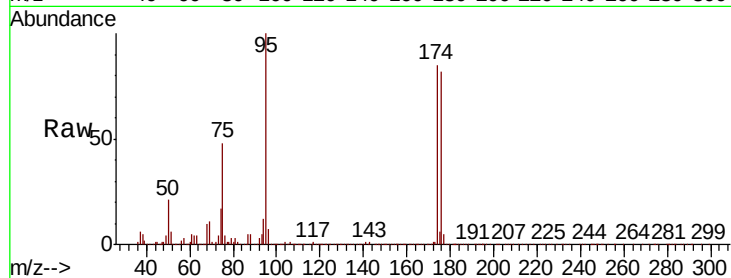
ClientSampleId :

Tot Ion: 75 Resp: 132685

Ion Ratio Lower Upper

75 100

77 1.6 18.7 56.1#



#77

Bromobenzene

Concen: 0.246 ug/l

RT: 11.25 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

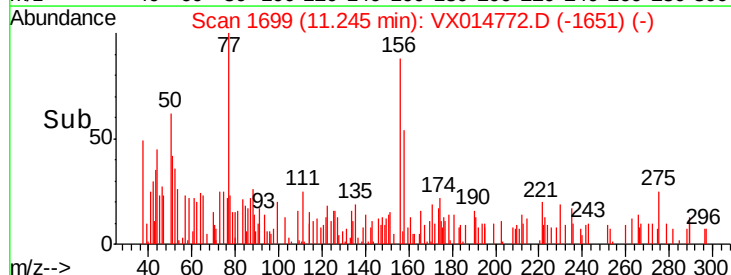
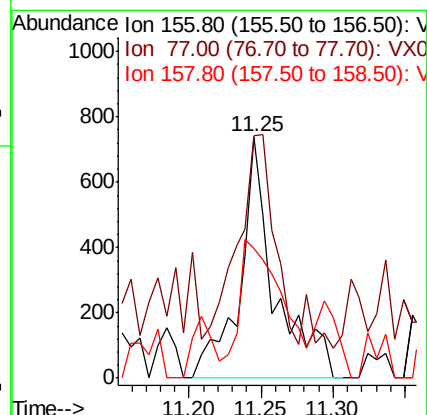
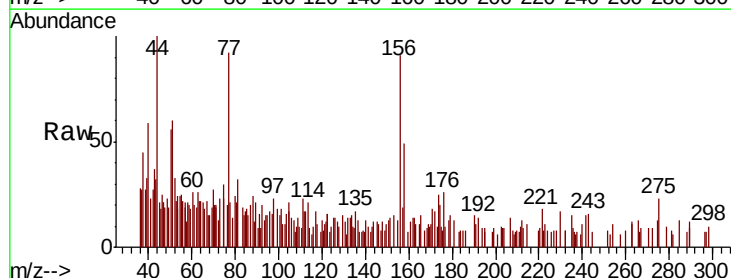
Tgt Ion: 156 Resp: 1249

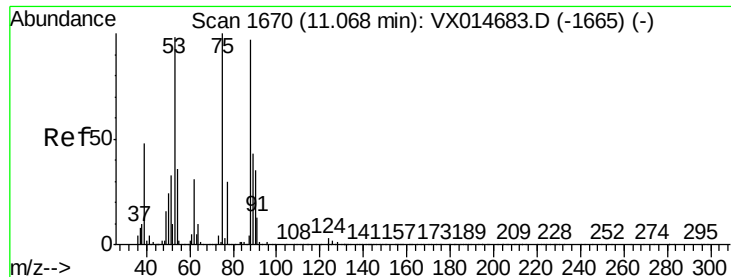
Ion Ratio Lower Upper

156 100

77 86.9 77.5 232.5

158 70.5 49.1 147.3





#81

trans-1,4-Dichloro-2-butene

Concen: 60.335 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

Instrument :

MSVOA_X

ClientSampled :

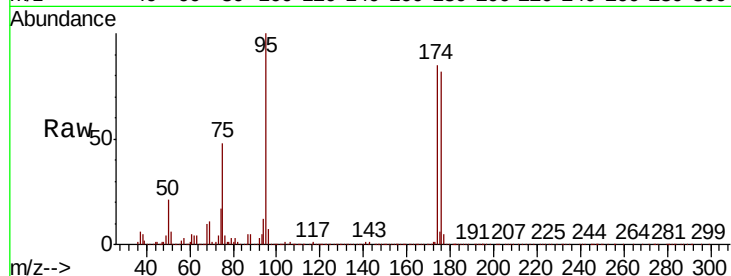
Tot Ion: 75 Resp: 132685

Ion Ratio Lower Upper

75 100

53 0.3 78.8 118.2#

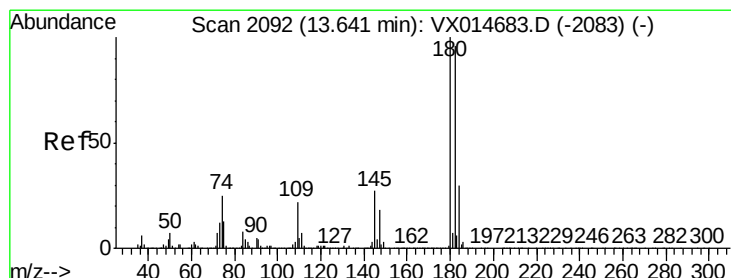
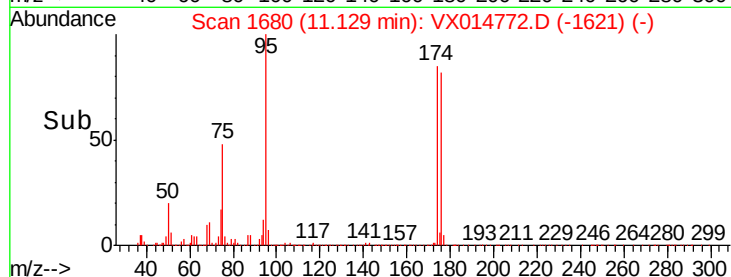
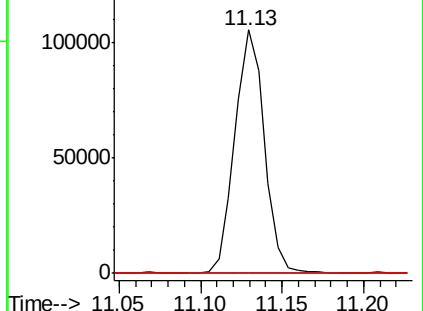
89 0.0 35.4 53.0#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.210 ug/l

RT: 13.63 min Scan# 2091

Delta R.T. -0.01 min

Lab File: VX014772.D

Acq: 30 Jan 2020 17:21

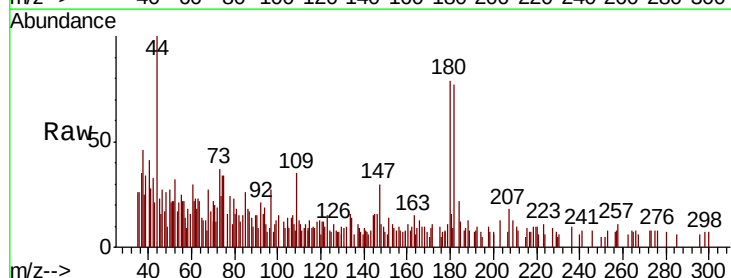
Tgt Ion:180 Resp: 1229

Ion Ratio Lower Upper

180 100

182 115.4 48.5 145.6

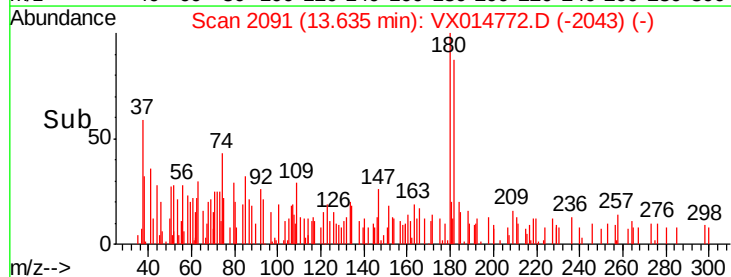
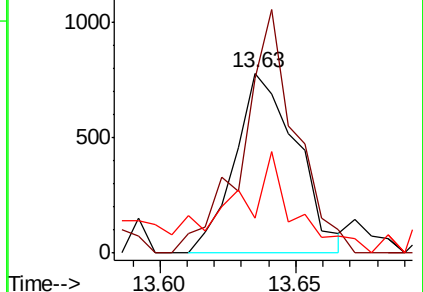
145 54.5 14.0 41.9#

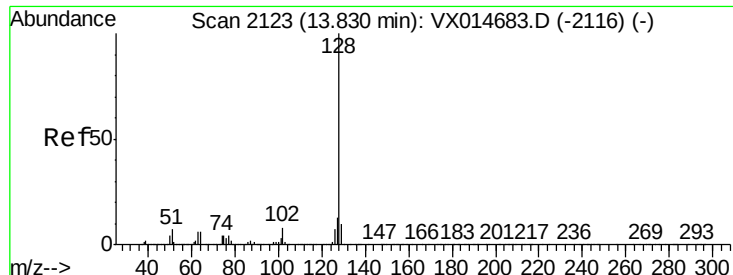


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

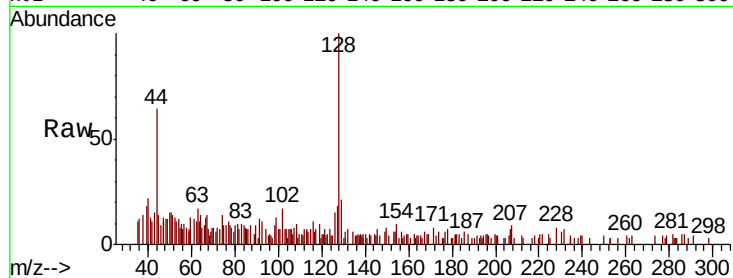




#95
 Naphthalene
 Concen: 1.085 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX014772.D
 Acq: 30 Jan 2020 17:21

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	8.5	8.6	12.8



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

