

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010988.D
 Acq On : 19 Jul 2019 03:24
 Operator : JC/SP
 Sample : K3905-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 04:00:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	37267	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	192075	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	159462	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	73840	29.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.43%
60) 4-Bromofluorobenzene	11.13	95	69095	26.33	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.77%
63) Toluene-d8	8.71	98	220991	31.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.10%

Target Compounds

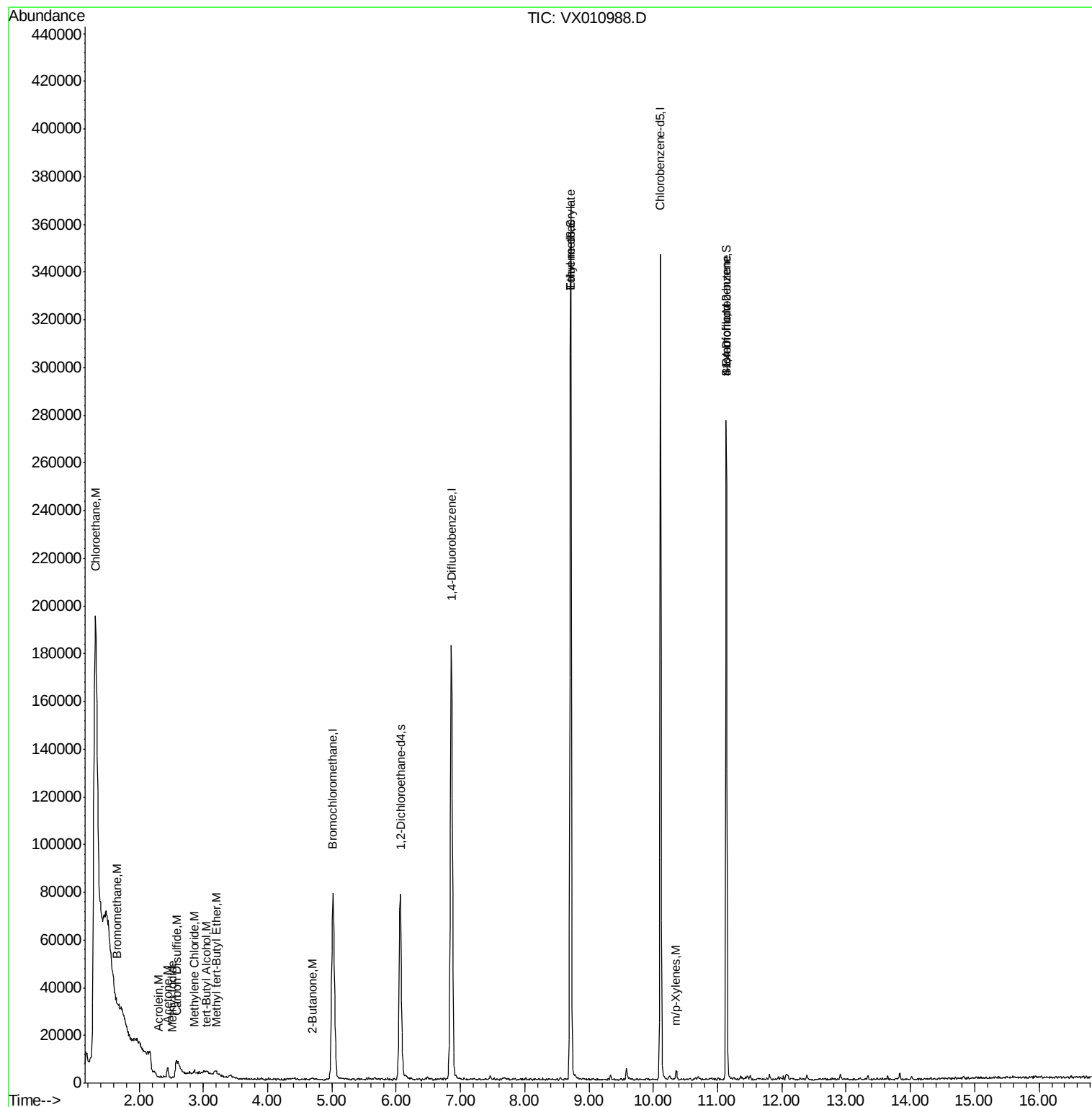
					Ovalue	
5) Bromomethane	1.66	94	570	0.458	ug/l #	79
6) Chloroethane	1.32	64	591383	442.426	ug/l #	48
11) Methyl Iodide	2.51	142	782	0.279	ug/l	96
13) Acrolein	2.29	56	224	0.638	ug/l	92
15) Acetone	2.44	58	1903	5.965	ug/l	74
16) Carbon Disulfide	2.57	76	10262	1.916	ug/l	97
18) Methylene Chloride	2.85	84	499	0.215	ug/l #	81
23) tert-Butyl Alcohol	3.04	59	228	0.381	ug/l #	82
24) Methyl tert-Butyl Ether	3.20	73	1871	0.280	ug/l #	90
30) 2-Butanone	4.68	43	312	0.214	ug/l #	49
51) Ethyl methacrylate	8.72	69	832	0.247	ug/l	92
56) Bromoform	11.14	173	809	0.461	ug/l #	1
67) m/p-Xylenes	10.35	106	816	0.224	ug/l	88
77) t-1,4-Dichloro-2-butene	11.13	75	34687	41.031	ug/l #	6

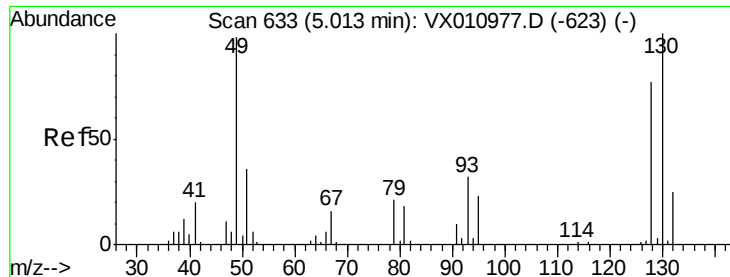
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
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Acq On : 19 Jul 2019 03:24
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jul 19 04:00:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 03:27:28 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.00 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

Instrument :
MSVOA_X
ClientSampleId :

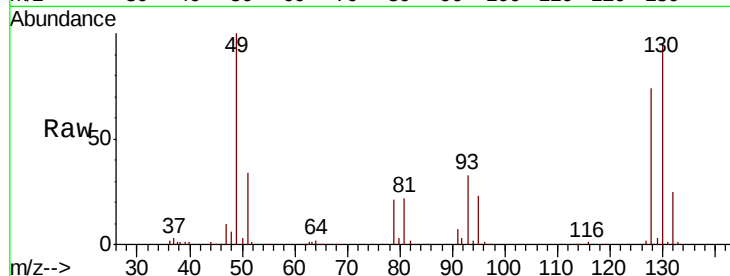
Tot Ion:128 Resp: 37267

Ion Ratio Lower Upper

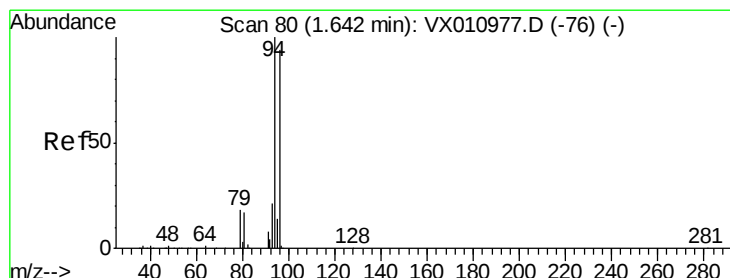
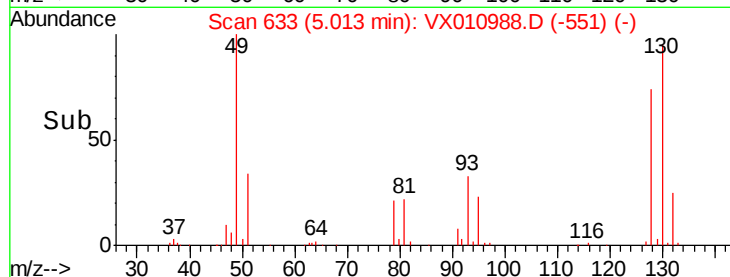
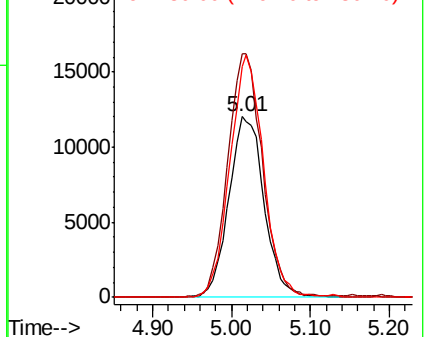
128 100

49 132.9 0.0 343.5

130 128.0 0.0 324.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.458 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010988.D

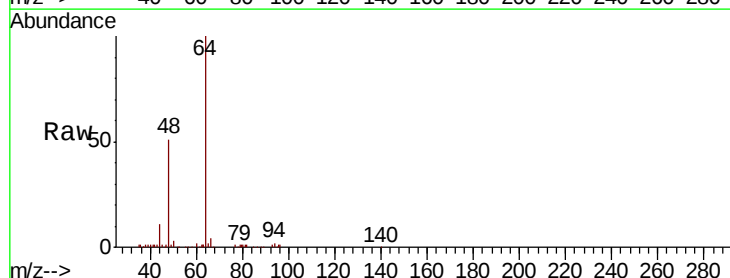
Acq: 19 Jul 2019 03:24

Tgt Ion: 94 Resp: 570

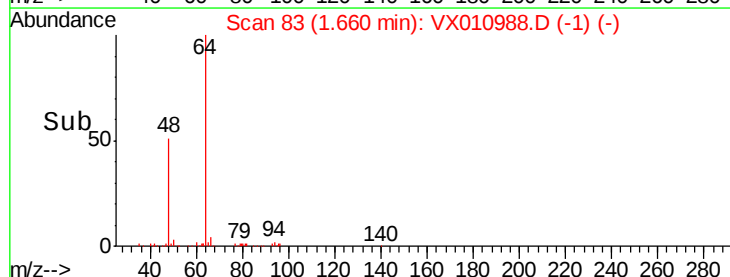
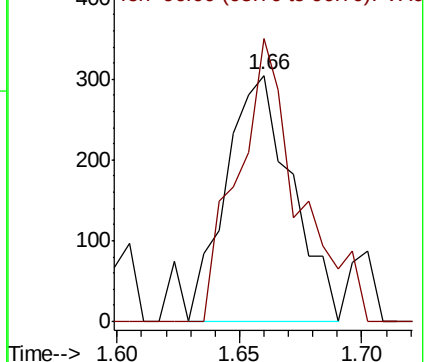
Ion Ratio Lower Upper

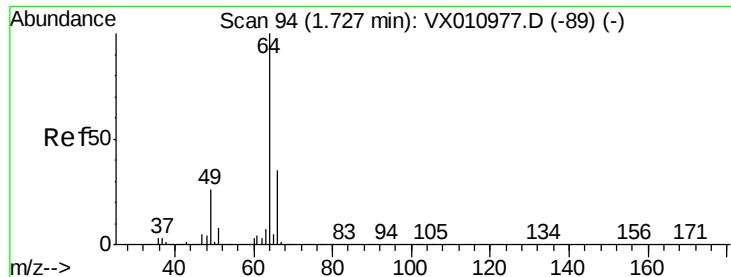
94 100

96 114.8 75.4 113.2#



Abundance Ion 94.00 (93.70 to 94.70): VX0
Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 442.426 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.40 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

Instrument :

MSVOA_X

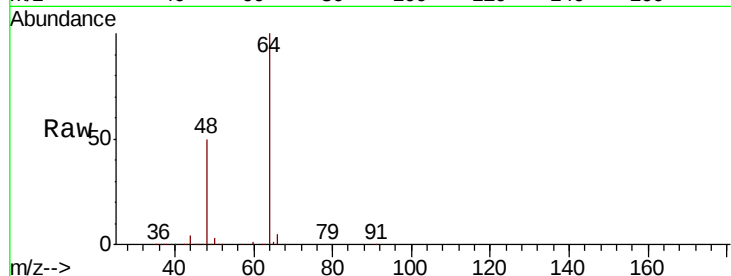
ClientSampleId :

Tot Ion: 64 Resp: 591383

Ion Ratio Lower Upper

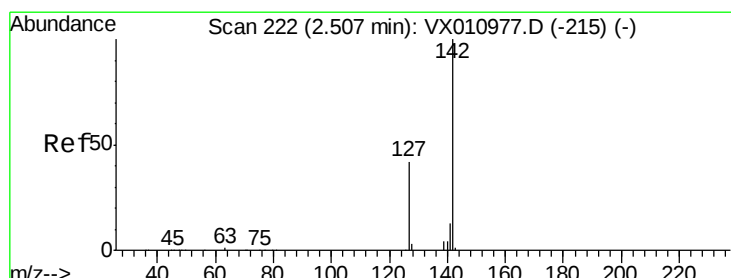
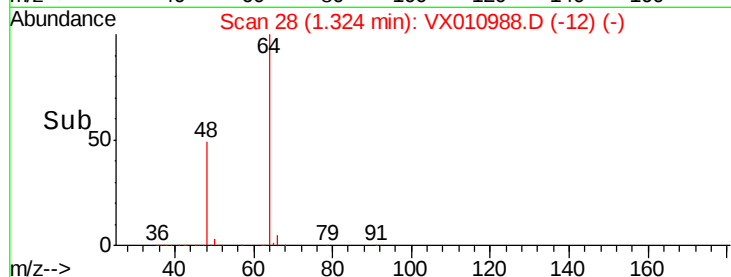
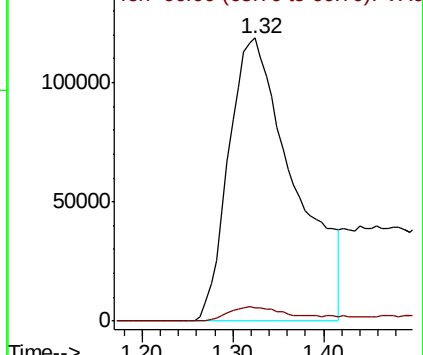
64 100

66 4.7 28.1 42.1#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#11

Methyl Iodide

Concen: 0.279 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

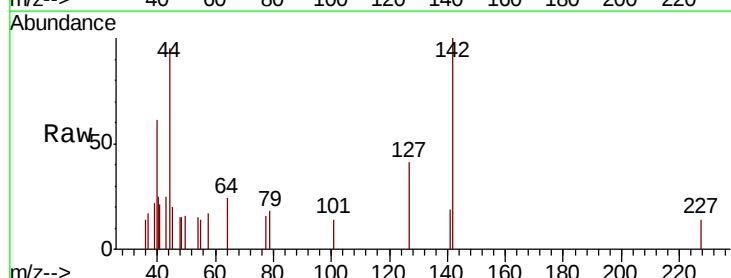
Tgt Ion:142 Resp: 782

Ion Ratio Lower Upper

142 100

127 41.2 20.7 62.1

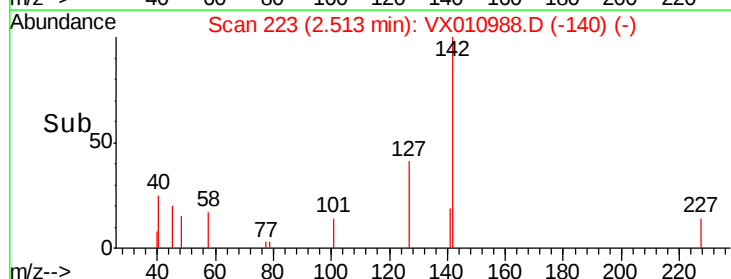
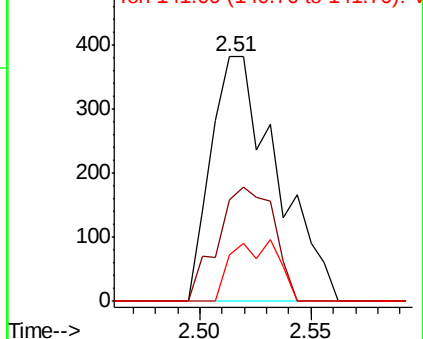
141 18.9 6.7 20.0

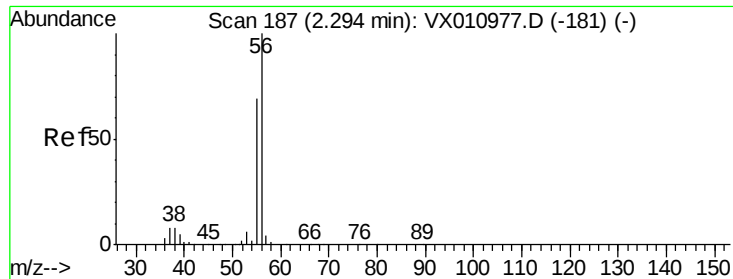


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 0.638 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

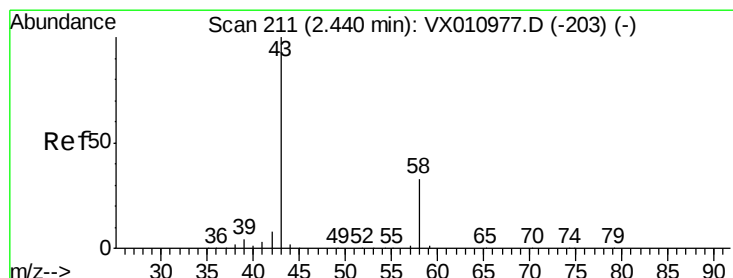
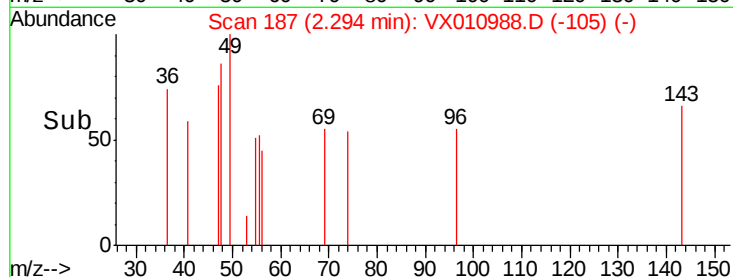
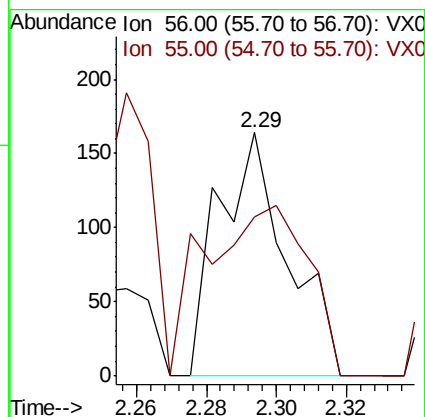
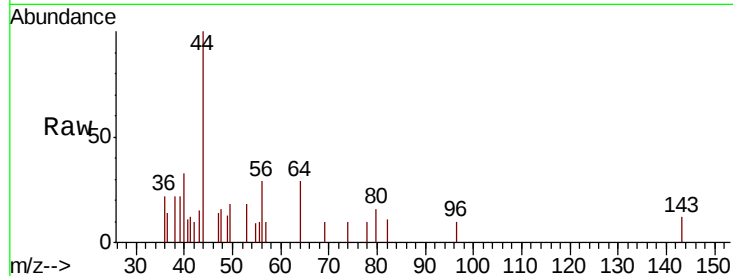
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 224

Ion Ratio Lower Upper

56 100

55 76.8 56.1 84.1



#15

Acetone

Concen: 5.965 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX010988.D

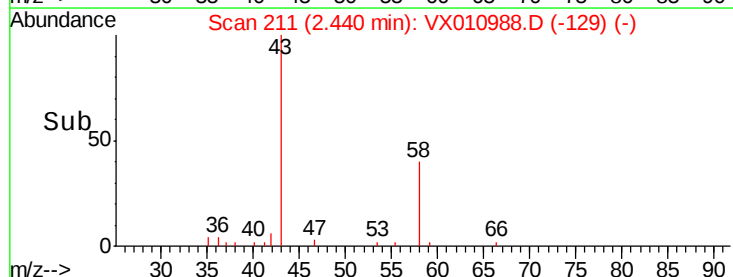
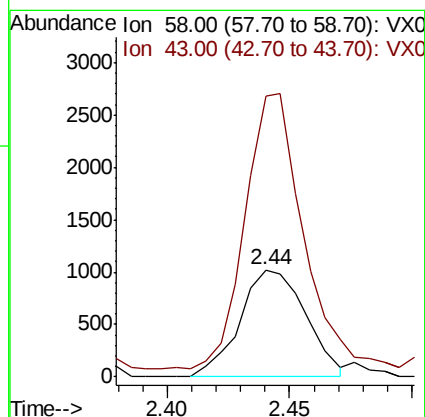
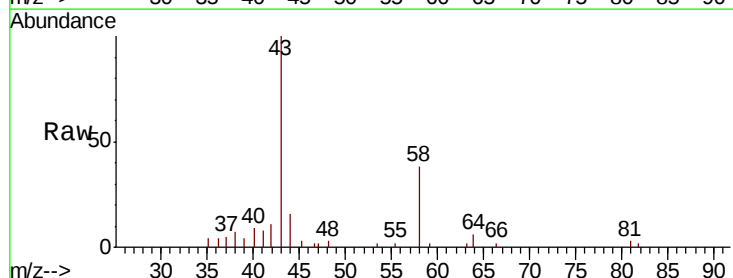
Acq: 19 Jul 2019 03:24

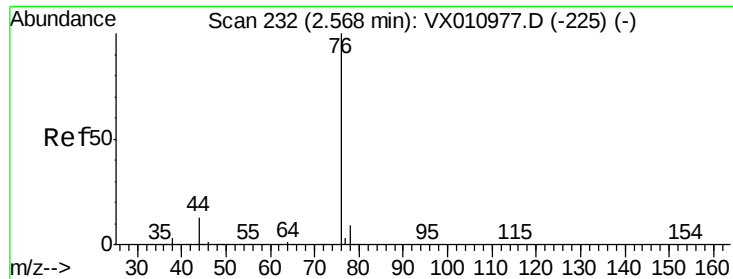
Tgt Ion: 58 Resp: 1903

Ion Ratio Lower Upper

58 100

43 254.0 243.8 365.6

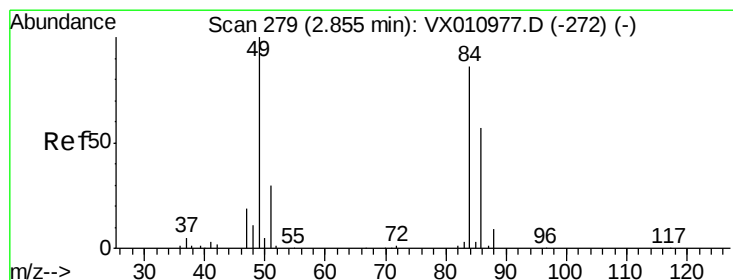
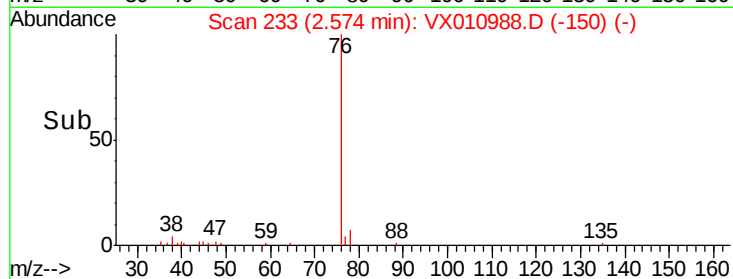
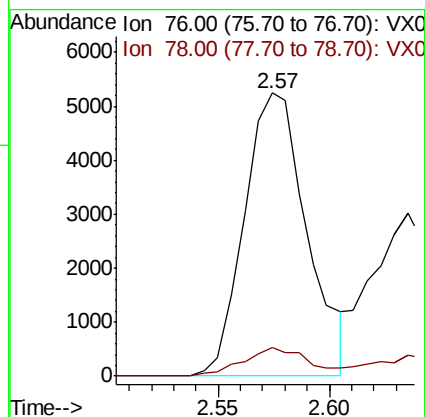
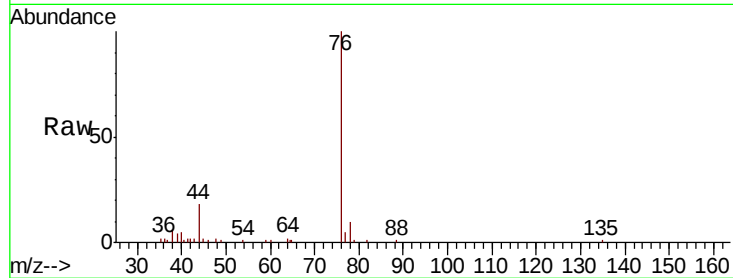




#16
Carbon Disulfide
Concen: 1.916 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX010988.D
Acq: 19 Jul 2019 03:24

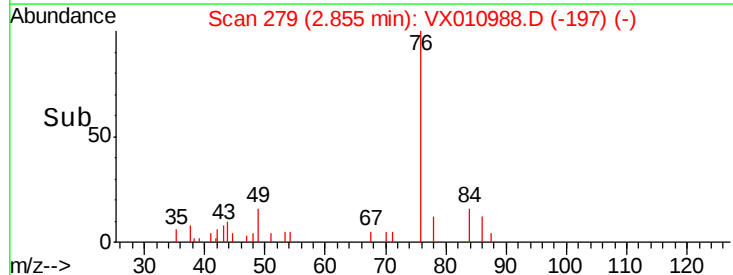
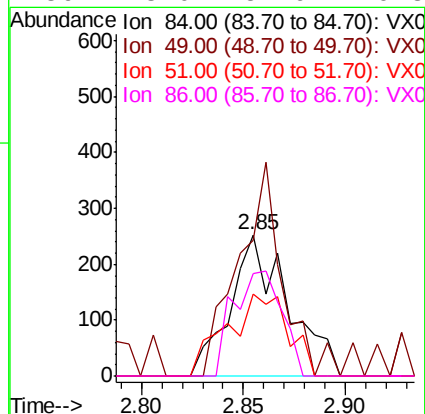
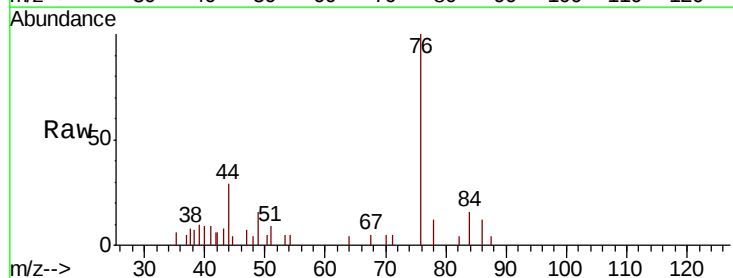
Instrument :
MSVOA_X
ClientSampleId :

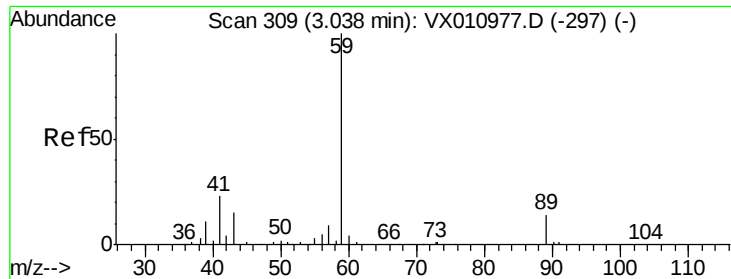
Tot Ion: 76 Resp: 10262
Ion Ratio Lower Upper
76 100
78 10.1 7.3 10.9



#18
Methylene Chloride
Concen: 0.215 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX010988.D
Acq: 19 Jul 2019 03:24

Tgt Ion: 84 Resp: 499
Ion Ratio Lower Upper
84 100
49 96.4 93.2 139.8
51 58.7 28.6 42.8#
86 73.0 52.9 79.3



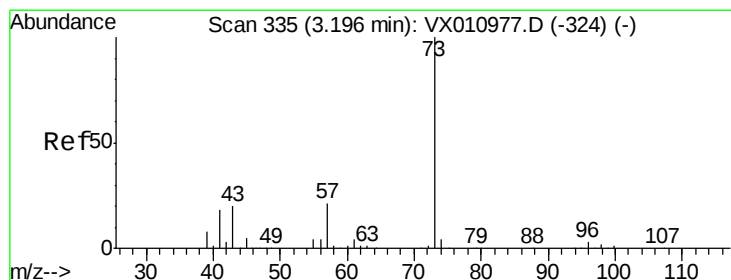
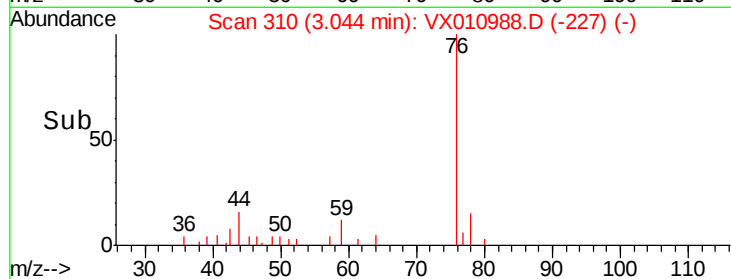
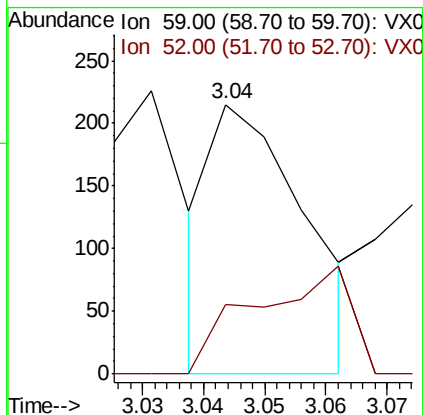
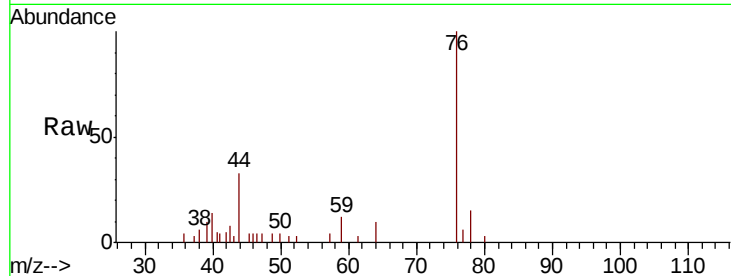


#23

tert-Butyl Alcohol
 Concen: 0.381 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. 0.01 min
 Lab File: VX010988.D
 Acq: 19 Jul 2019 03:24

Instrument :
 MSVOA_X
 ClientSampled :

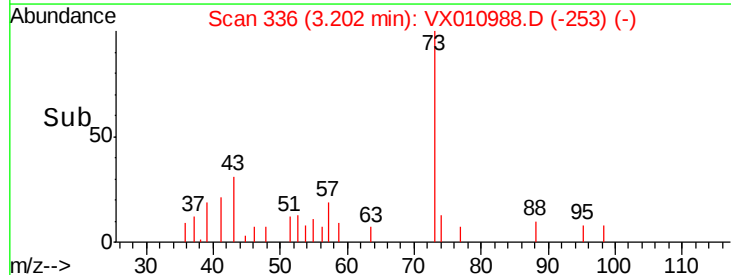
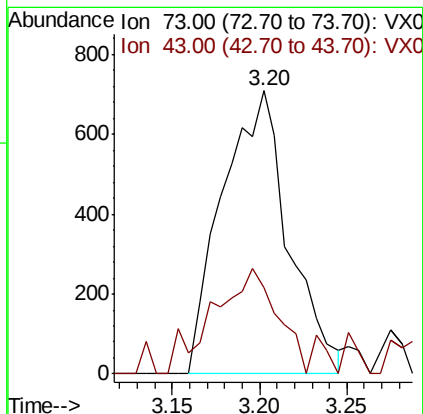
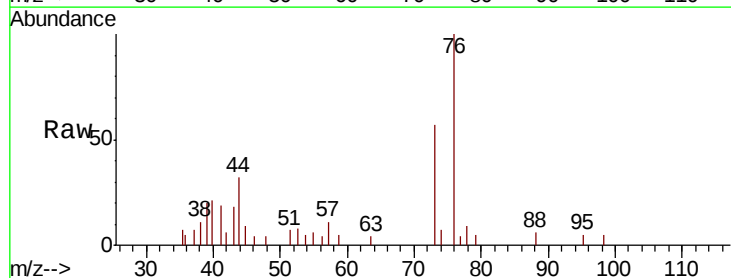
Tot Ion: 59 Resp: 228
 Ion Ratio Lower Upper
 59 100
 52 17.1 0.2 0.4#

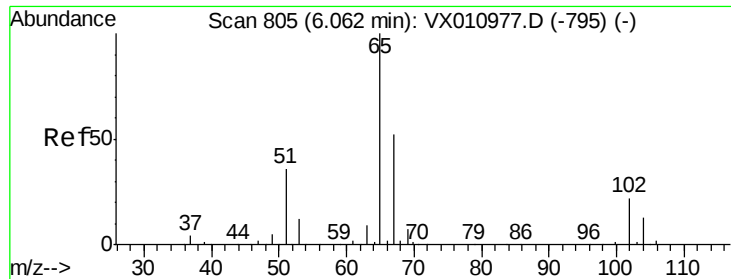


#24

Methyl tert-Butyl Ether
 Concen: 0.280 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VX010988.D
 Acq: 19 Jul 2019 03:24

Tgt Ion: 73 Resp: 1871
 Ion Ratio Lower Upper
 73 100
 43 24.5 15.8 23.6#





#27

1,2-Dichloroethane-d4

Concen: 29.226 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

Instrument :

MSVOA_X

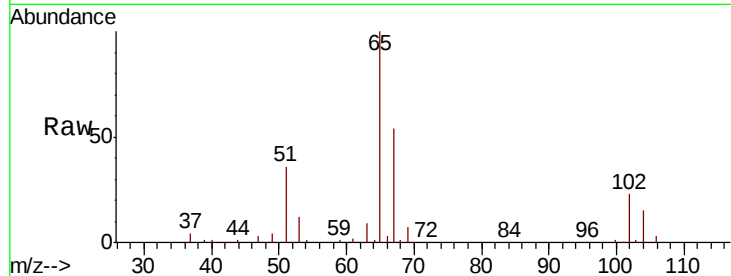
ClientSampleId :

Tot Ion: 65 Resp: 73840

Ion Ratio Lower Upper

65 100

67 53.1 41.7 62.5



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.07

30000

25000

20000

15000

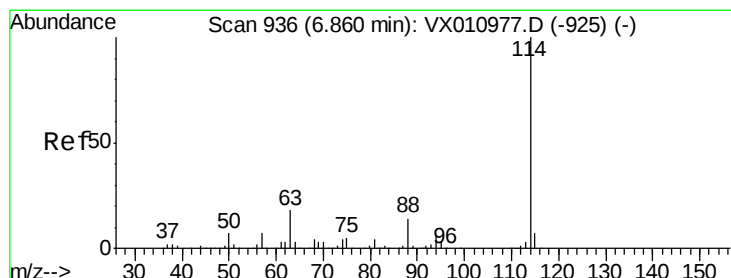
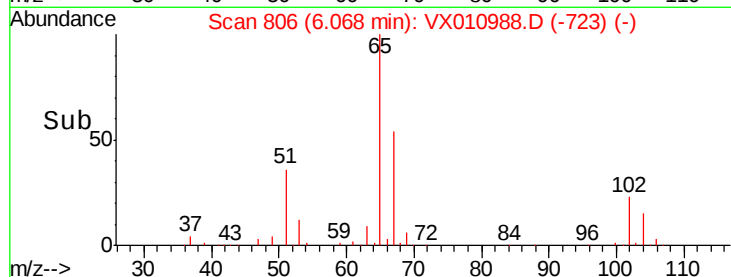
10000

5000

0

6.00 6.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

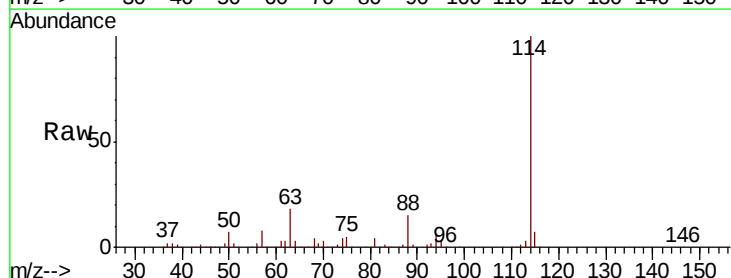
Tgt Ion: 114 Resp: 192075

Ion Ratio Lower Upper

114 100

63 18.0 14.6 22.0

88 15.1 11.8 17.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

6.86

100000

80000

60000

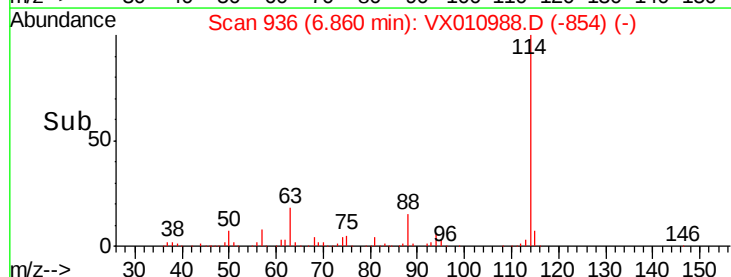
40000

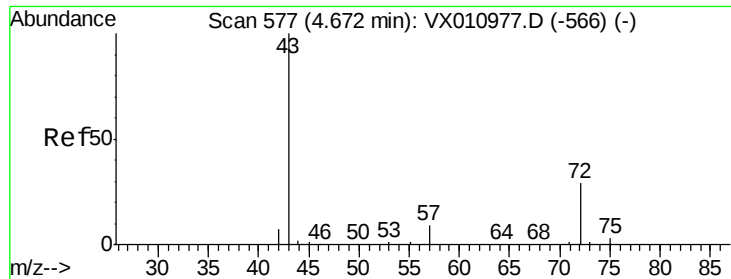
20000

0

6.80 6.90

Time-->

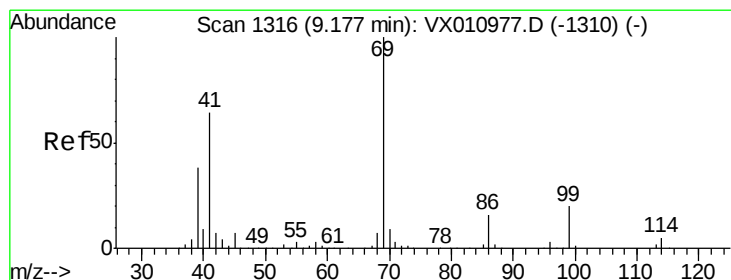
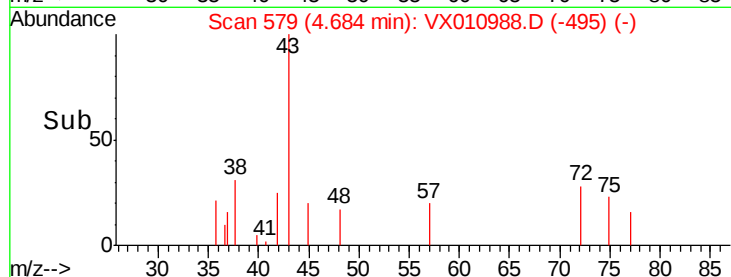
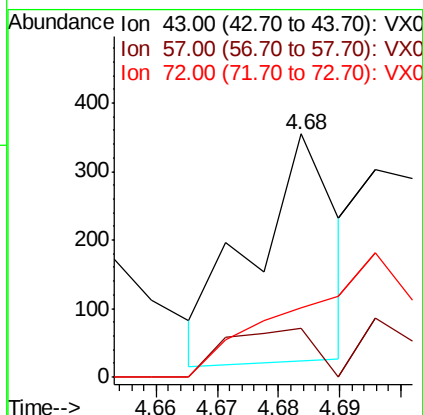
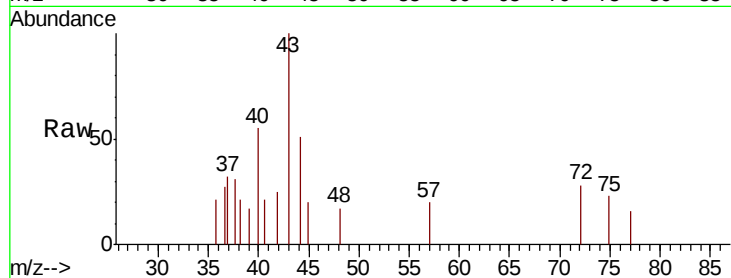




#30
2-Butanone
Concen: 0.214 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX010988.D
Acq: 19 Jul 2019 03:24

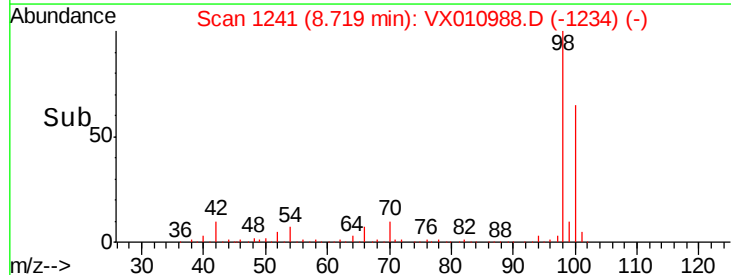
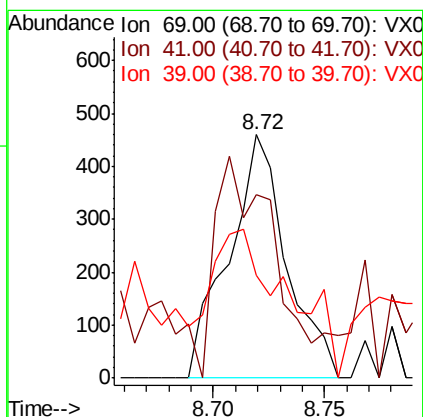
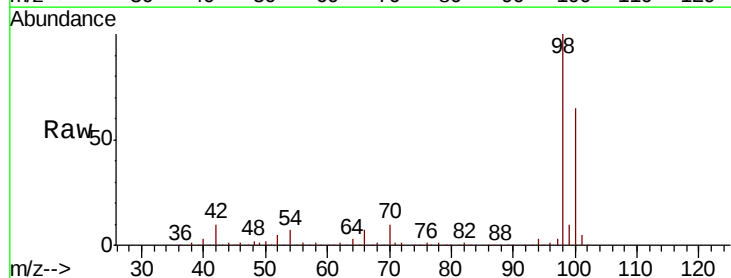
Instrument :
MSVOA_X
ClientSampleId :

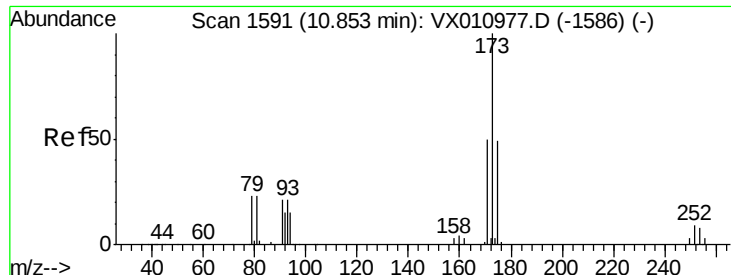
Tot Ion: 43 Resp: 312
Ion Ratio Lower Upper
43 100
57 22.8 6.8 10.2#
72 0.0 23.2 34.8#



#51
Ethyl methacrylate
Concen: 0.247 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.46 min
Lab File: VX010988.D
Acq: 19 Jul 2019 03:24

Tgt Ion: 69 Resp: 832
Ion Ratio Lower Upper
69 100
41 57.6 32.1 96.3
39 42.0 19.1 57.3





#56

Bromoform

Concen: 0.461 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.29 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

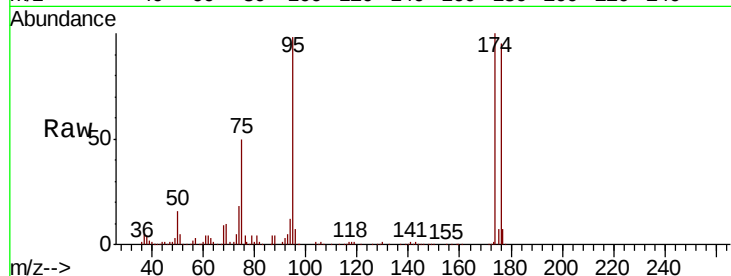
Tot Ion:173 Resp: 809

Ion Ratio Lower Upper

173 100

175 577.9 39.0 58.6#

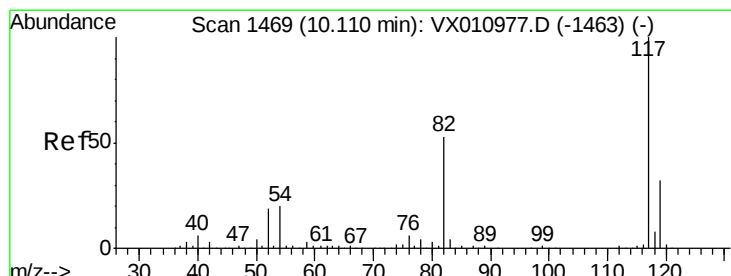
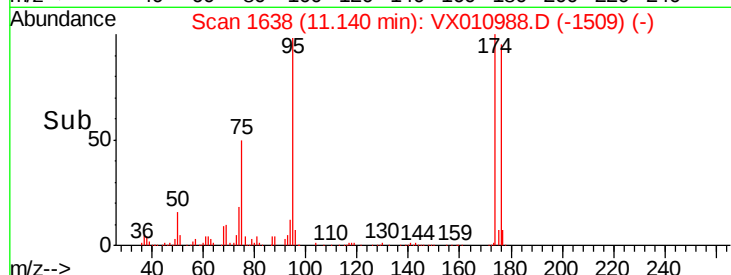
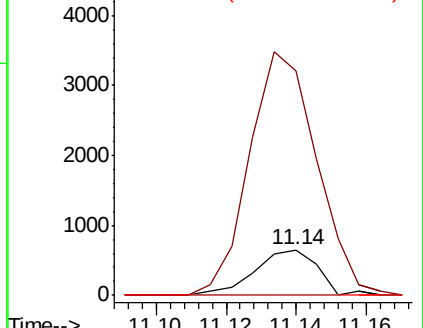
254 0.0 7.9 11.9#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

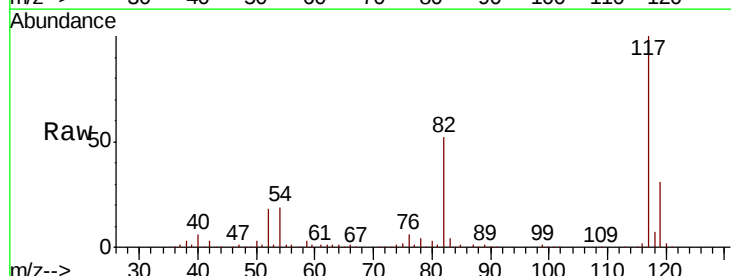
Tgt Ion:117 Resp: 159462

Ion Ratio Lower Upper

117 100

82 51.8 41.6 62.4

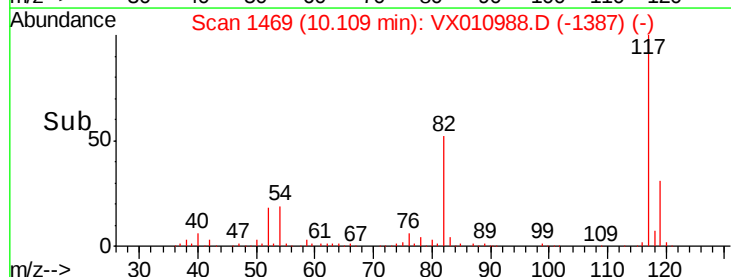
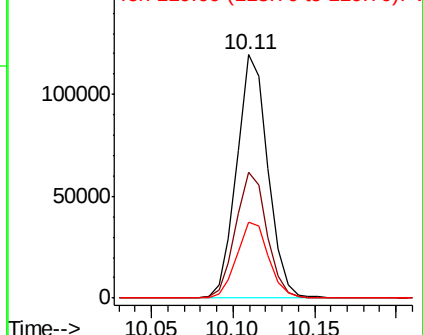
119 32.0 26.0 39.0

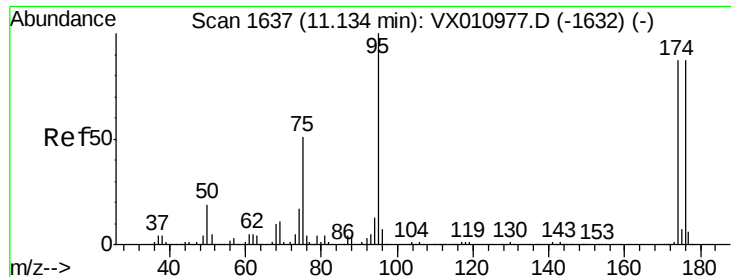


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 26.326 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010988.D

Acq: 19 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

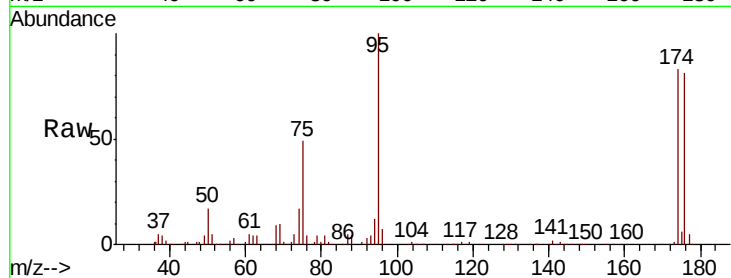
Tot Ion: 95 Resp: 69095

Ion Ratio Lower Upper

95 100

174 91.3 73.3 109.9

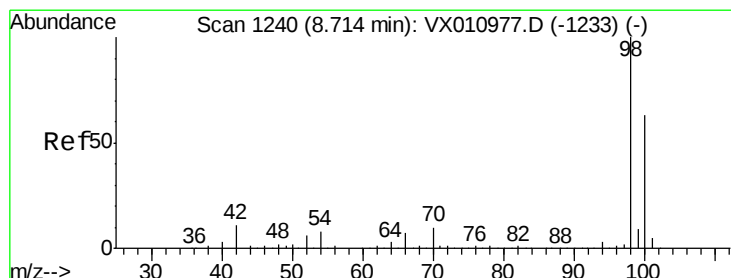
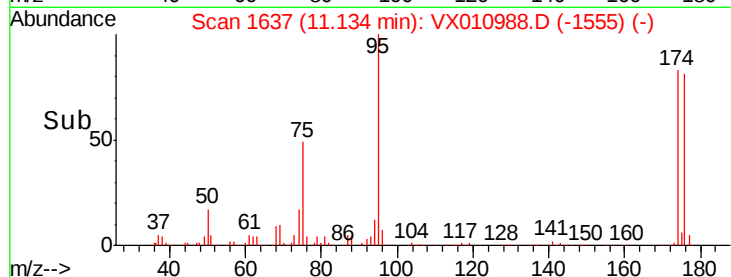
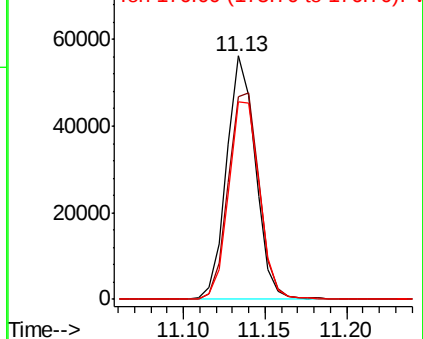
176 86.8 71.2 106.8



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 31.530 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010988.D

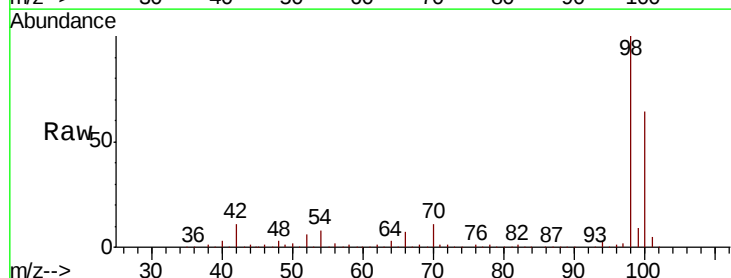
Acq: 19 Jul 2019 03:24

Tgt Ion: 98 Resp: 220991

Ion Ratio Lower Upper

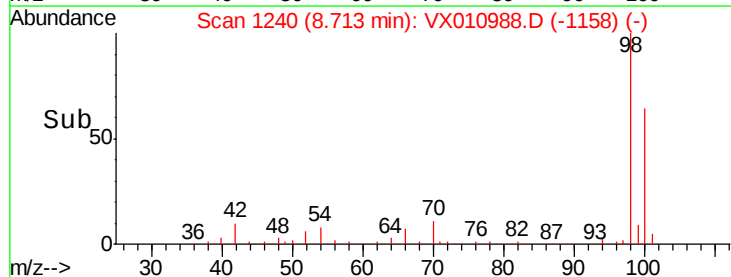
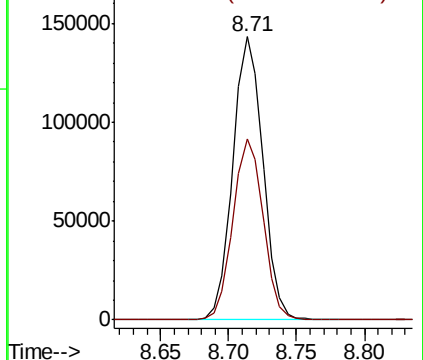
98 100

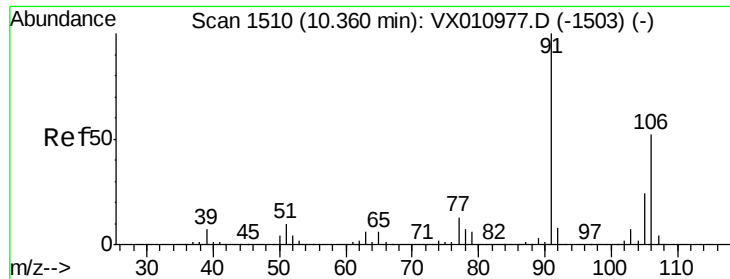
100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

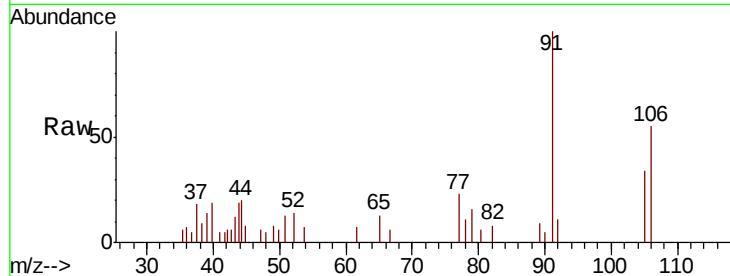




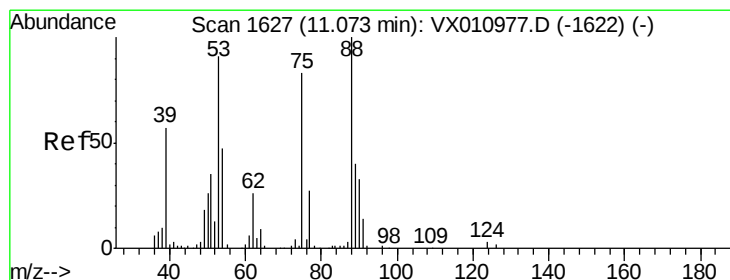
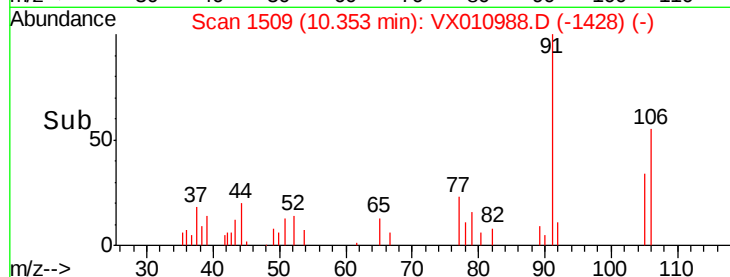
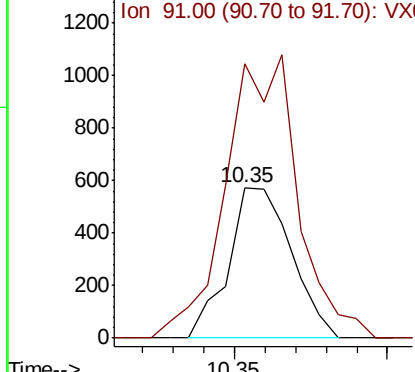
#67
m/p-Xvlenes
Concen: 0.224 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX010988.D
Acq: 19 Jul 2019 03:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 816
Ion Ratio Lower Upper
106 100
91 214.3 156.6 235.0

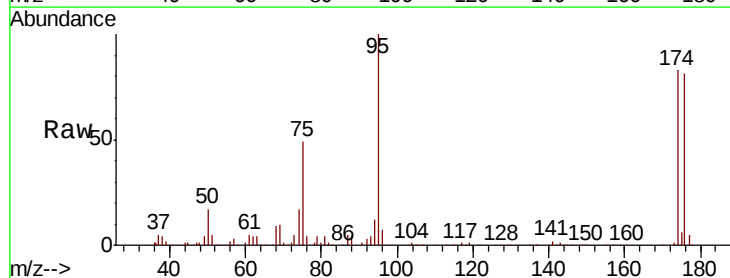


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0



#77
t-1,4-Dichloro-2-butene
Concen: 41.031 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010988.D
Acq: 19 Jul 2019 03:24

Tgt Ion: 75 Resp: 34687
Ion Ratio Lower Upper
75 100
53 0.2 54.8 164.3#
89 0.0 24.6 73.6#



Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0

