

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
 Data File : VX011056.D
 Acq On : 24 Jul 2019 12:46
 Operator : JC/SP
 Sample : VX0724WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 25 03:21:20 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	36064	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	199378	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	172741	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	71971	29.44	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery =	98.13%		
60) 4-Bromofluorobenzene	11.13	95	78172	27.50	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery =	91.67%		
63) Toluene-d8	8.71	98	227706	29.99	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery =	99.97%		

Target Compounds

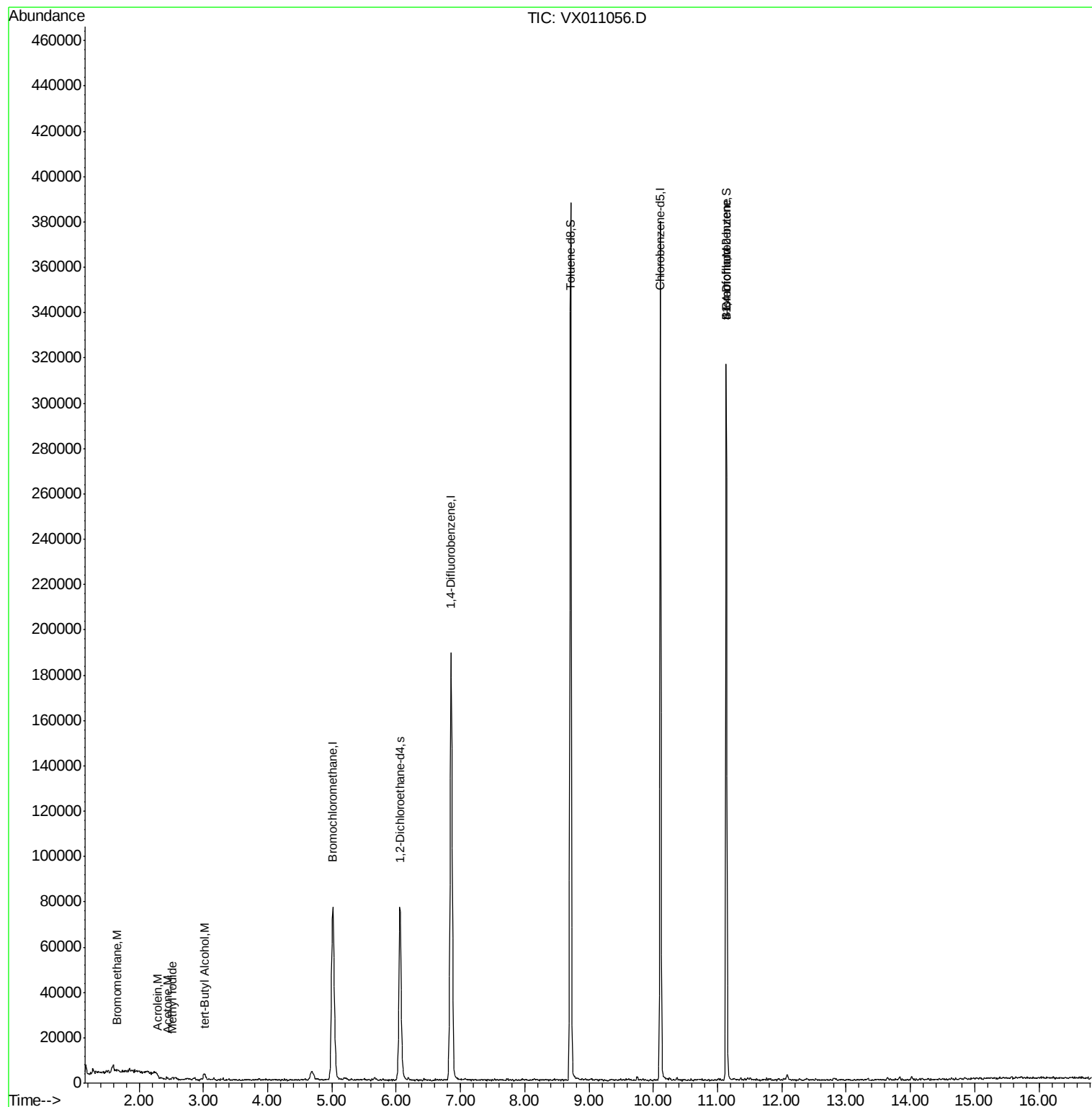
					Ovalue	
5) Bromomethane	1.65	94	826	0.686	ug/l	96
11) Methyl Iodide	2.51	142	812	0.300	ug/l #	78
13) Acrolein	2.29	56	382	1.125	ug/l	91
15) Acetone	2.45	58	176	0.570	ug/l #	15
23) tert-Butyl Alcohol	3.02	59	1760	3.040	ug/l #	100
56) Bromoform	11.13	173	1025	0.563	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.13	75	39013	42.601	ug/l #	6

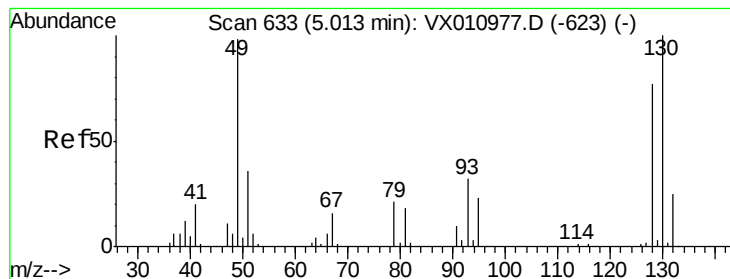
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Method : Z:\V0ASRV\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: VX011056.D

Acq: 24 Jul 2019 12:46

Instrument :

MSVOA_X

ClientSampleId :

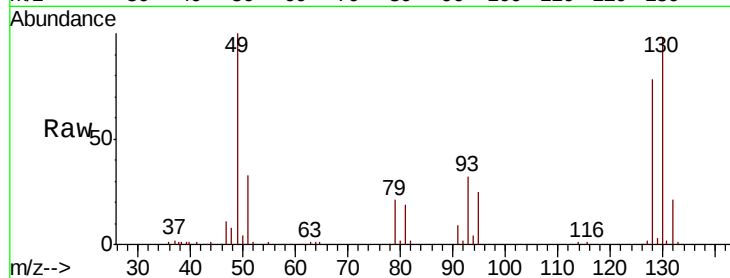
Tot Ion:128 Resp: 36064

Ion Ratio Lower Upper

128 100

49 133.3 0.0 343.5

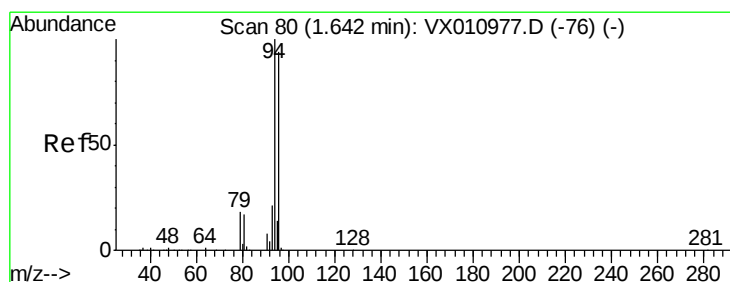
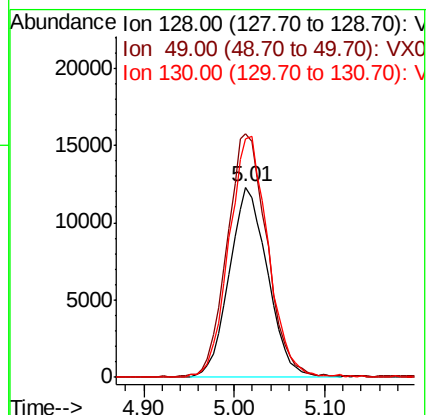
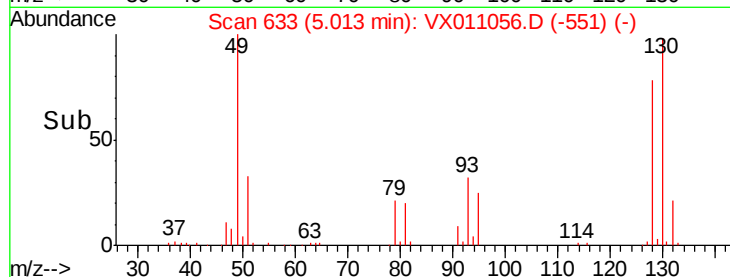
130 129.1 0.0 324.7



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: 0.686 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011056.D

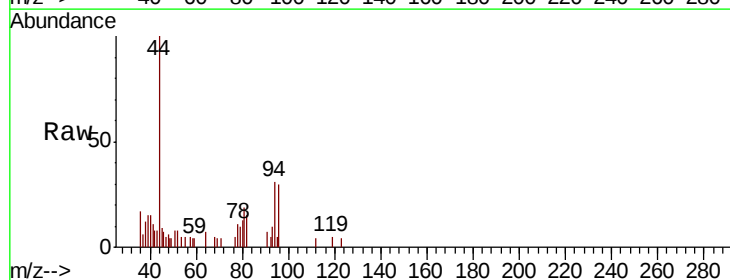
Acq: 24 Jul 2019 12:46

Tgt Ion: 94 Resp: 826

Ion Ratio Lower Upper

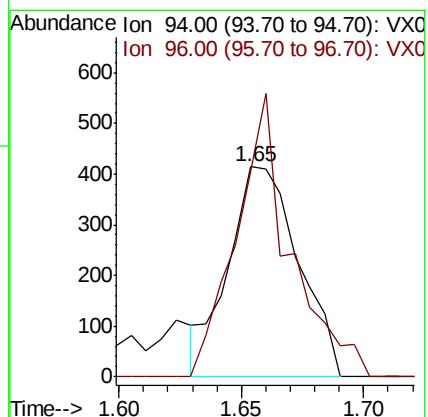
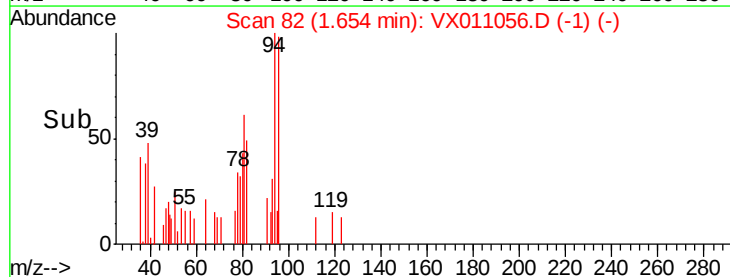
94 100

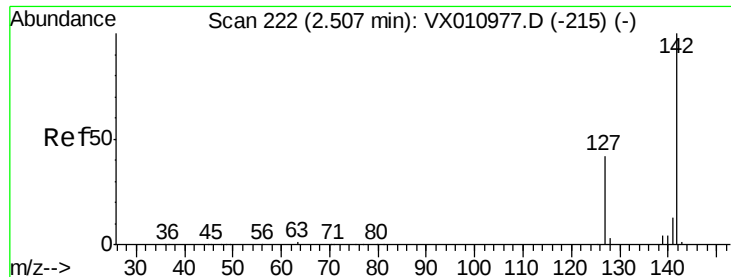
96 98.1 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

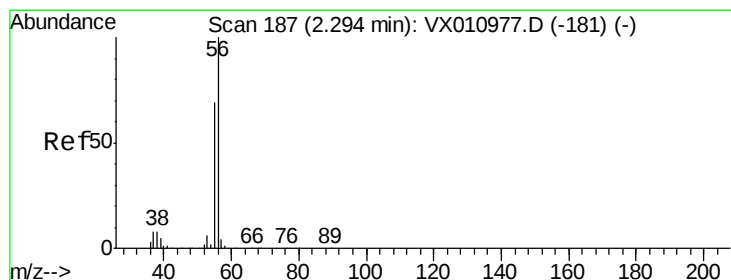
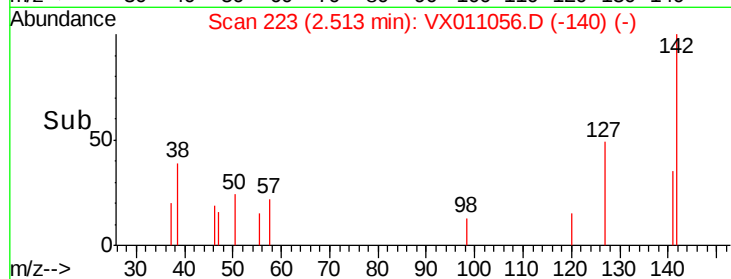
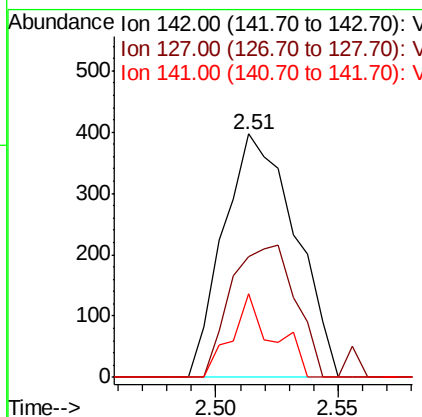
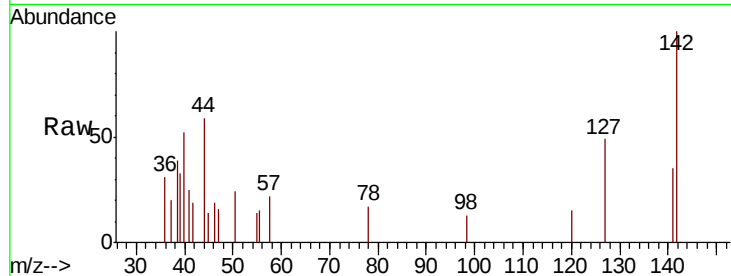




#11
Methvl Iodide
Concen: 0.300 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX011056.D
Acq: 24 Jul 2019 12:46

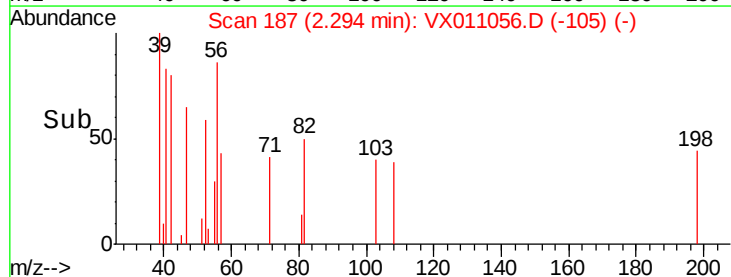
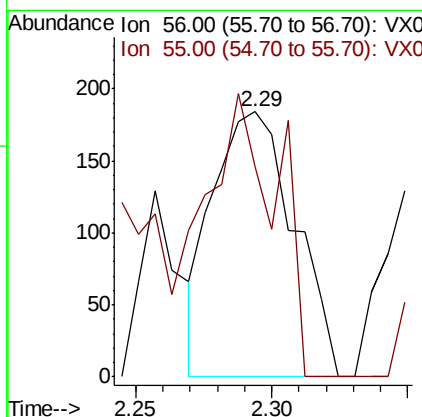
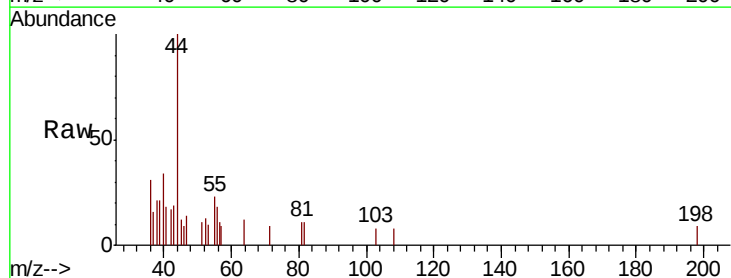
Instrument :
MSVOA_X
ClientSampled :

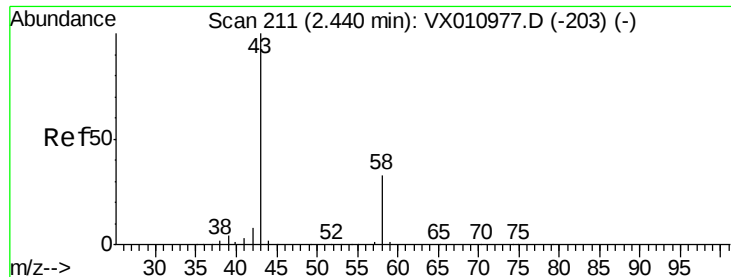
Tot Ion:142 Resp: 812
Ion Ratio Lower Upper
142 100
127 49.4 20.7 62.1
141 34.5 6.7 20.0#



#13
Acrolein
Concen: 1.125 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX011056.D
Acq: 24 Jul 2019 12:46

Tgt Ion: 56 Resp: 382
Ion Ratio Lower Upper
56 100
55 77.5 56.1 84.1





#15

Acetone

Concen: 0.570 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX011056.D

Acq: 24 Jul 2019 12:46

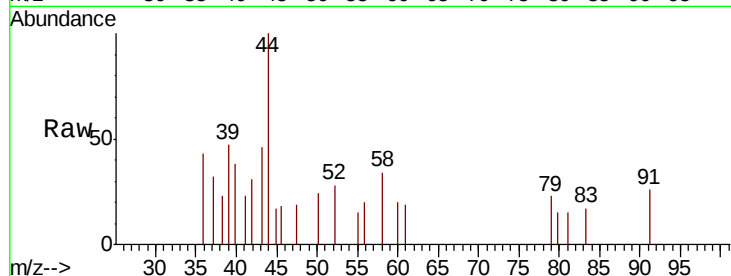
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 58 Resp: 176

Ion Ratio Lower Upper

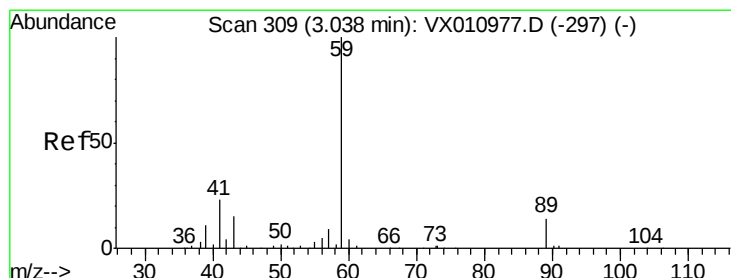
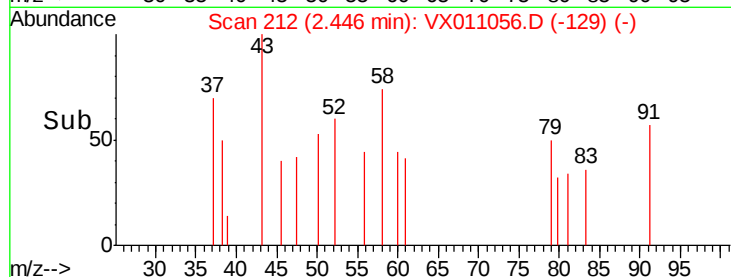
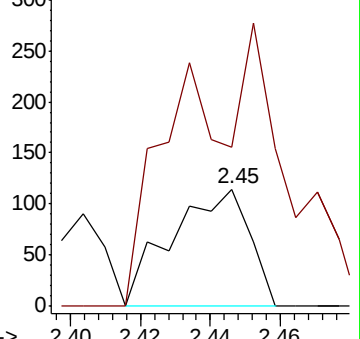
58 100

43 136.0 243.8 365.6#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#23

tert-Butyl Alcohol

Concen: 3.040 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX011056.D

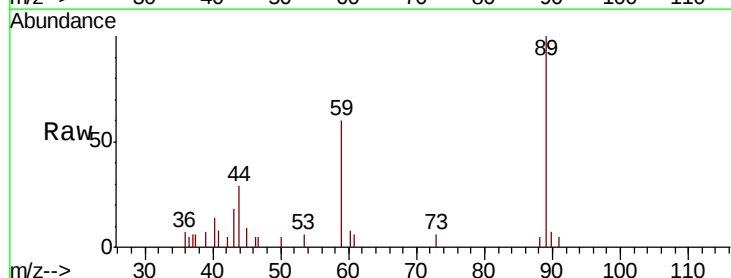
Acq: 24 Jul 2019 12:46

Tgt Ion: 59 Resp: 1760

Ion Ratio Lower Upper

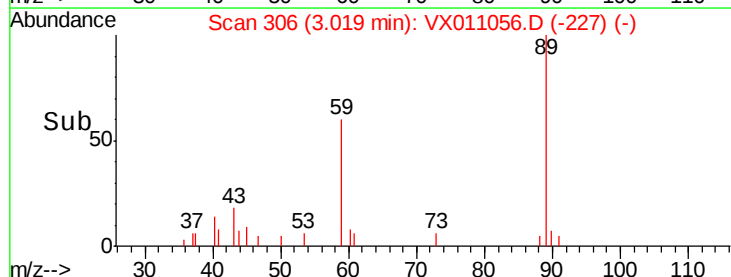
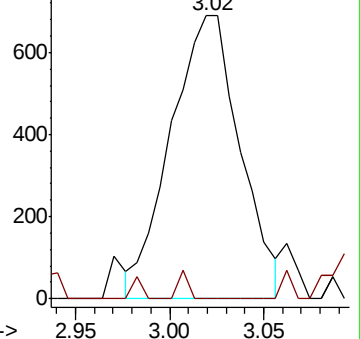
59 100

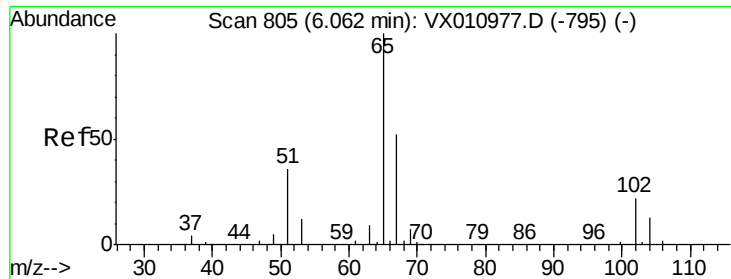
52 0.0 0.2 0.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 29.437 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX011056.D

Acq: 24 Jul 2019 12:46

Instrument :

MSVOA_X

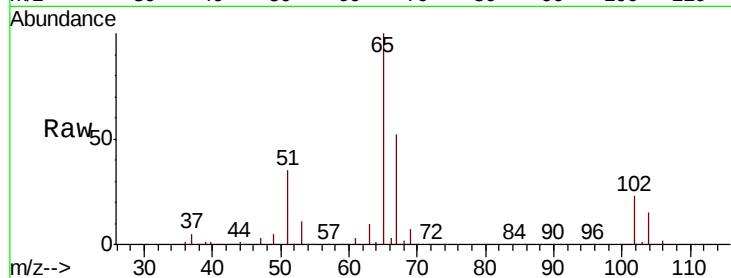
ClientSampleId :

Tot Ion: 65 Resp: 71971

Ion Ratio Lower Upper

65 100

67 52.4 41.7 62.5



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.06

30000

25000

20000

15000

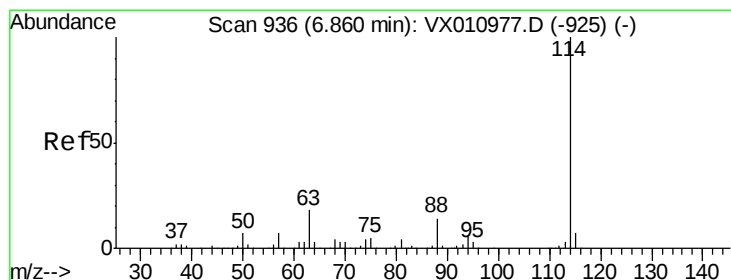
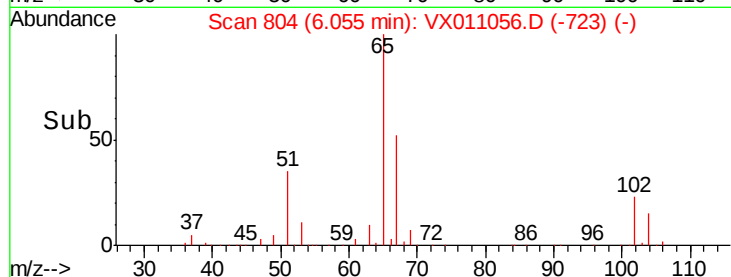
10000

5000

0

Time-->

5.95 6.00 6.05 6.10 6.15



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX011056.D

Acq: 24 Jul 2019 12:46

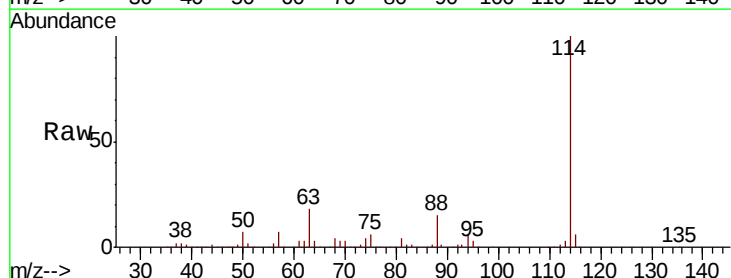
Tgt Ion: 114 Resp: 199378

Ion Ratio Lower Upper

114 100

63 18.4 14.6 22.0

88 14.8 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

6.85

100000

80000

60000

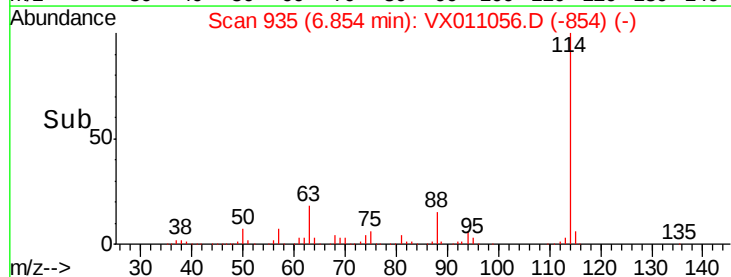
40000

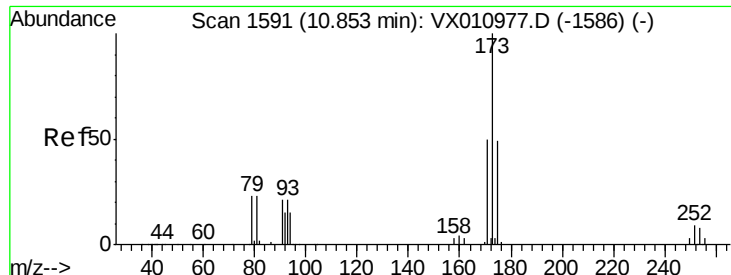
20000

0

Time-->

6.80 6.85 6.90 7.00





#56

Bromoform

Concen: 0.563 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.28 min

Lab File: VX011056.D

Acq: 24 Jul 2019 12:46

Instrument :

MSVOA_X

ClientSampled :

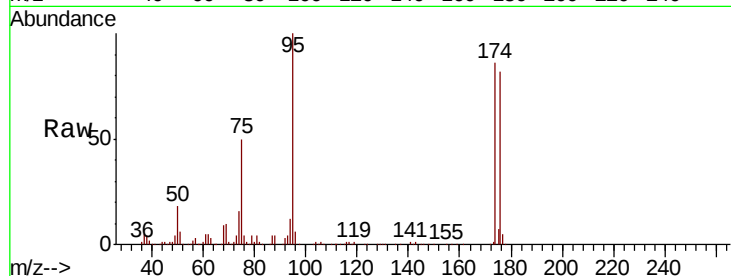
Tot Ion:173 Resp: 1025

Ion Ratio Lower Upper

173 100

175 547.9 39.0 58.6#

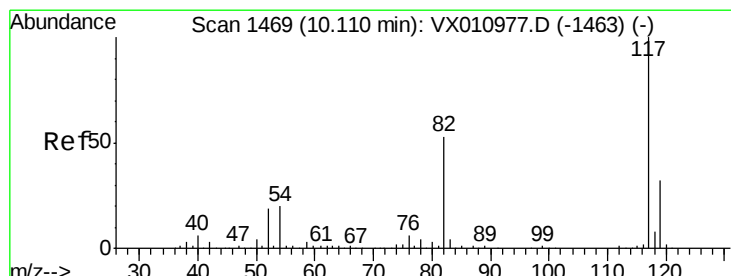
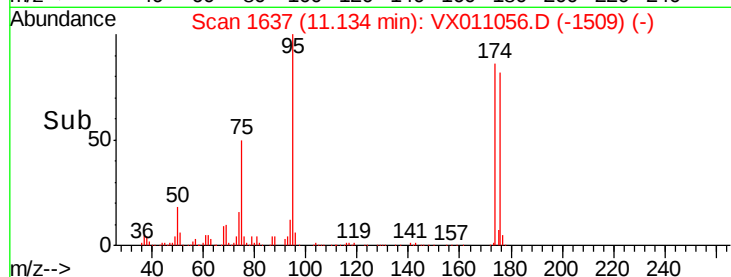
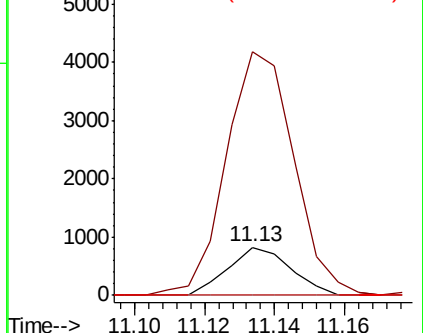
254 0.0 7.9 11.9#



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: VX011056.D

Acq: 24 Jul 2019 12:46

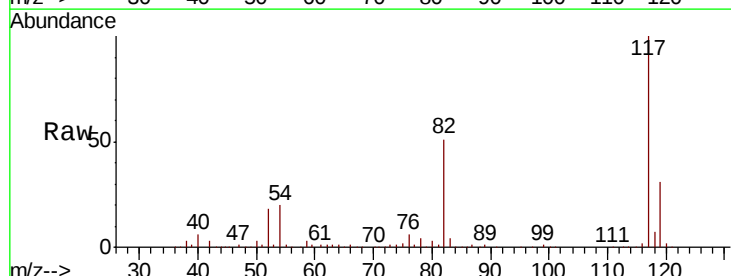
Tgt Ion:117 Resp: 172741

Ion Ratio Lower Upper

117 100

82 51.8 41.6 62.4

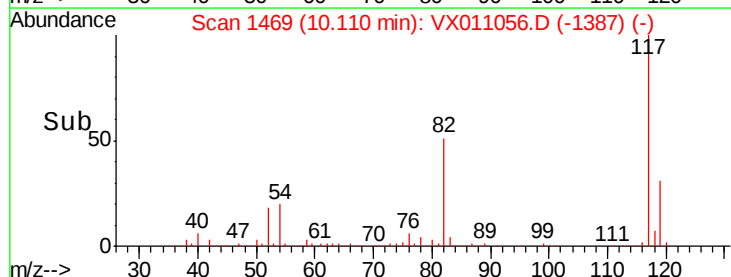
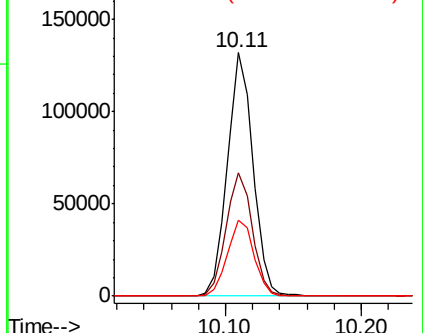
119 32.1 26.0 39.0

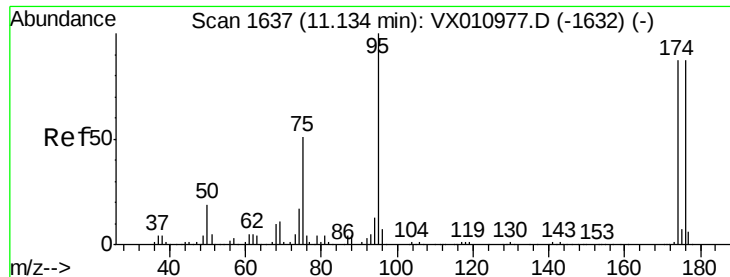


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 27.495 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011056.D

Acq: 24 Jul 2019 12:46

Instrument :

MSVOA_X

ClientSampleId :

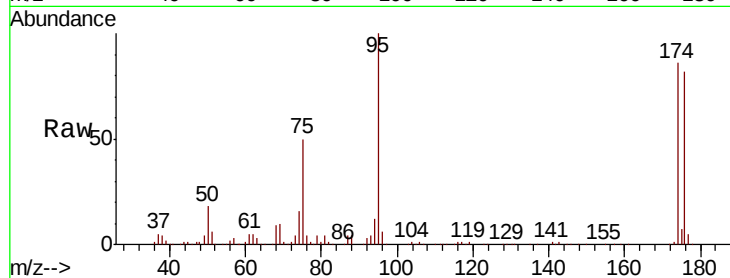
Tot Ion: 95 Resp: 78172

Ion Ratio Lower Upper

95 100

174 91.1 73.3 109.9

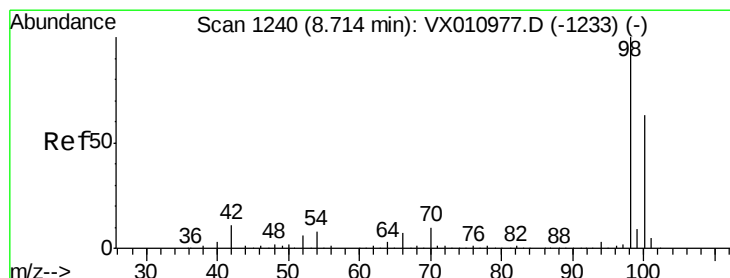
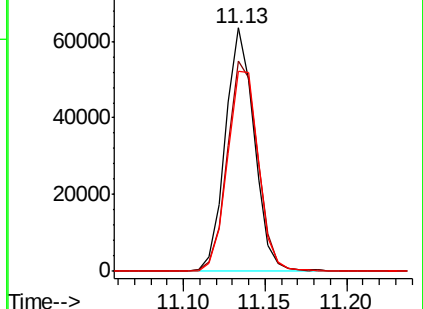
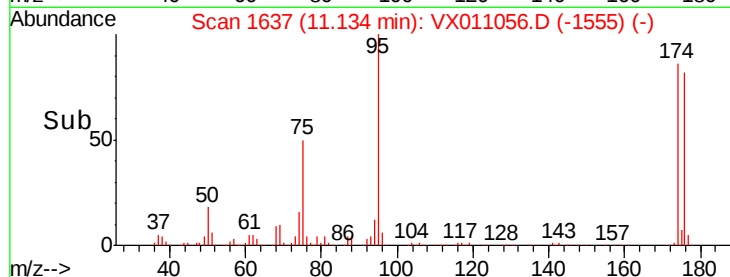
176 88.8 71.2 106.8



Abundance Ion 95.00 (94.70 to 95.70): VX011056.D (-1555) (-)

Ion 174.00 (173.70 to 174.70): VX011056.D (-1555) (-)

Ion 176.00 (175.70 to 176.70): VX011056.D (-1555) (-)



#63

Toluene-d8

Concen: 29.990 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011056.D

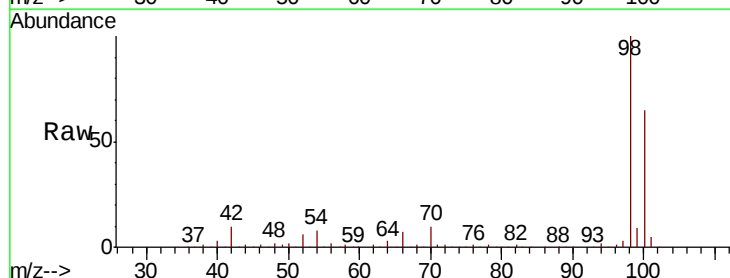
Acq: 24 Jul 2019 12:46

Tgt Ion: 98 Resp: 227706

Ion Ratio Lower Upper

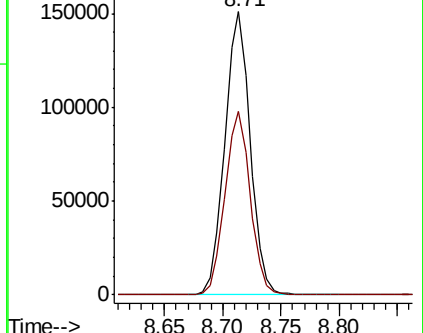
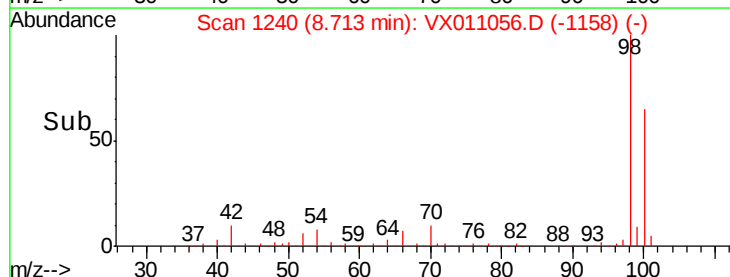
98 100

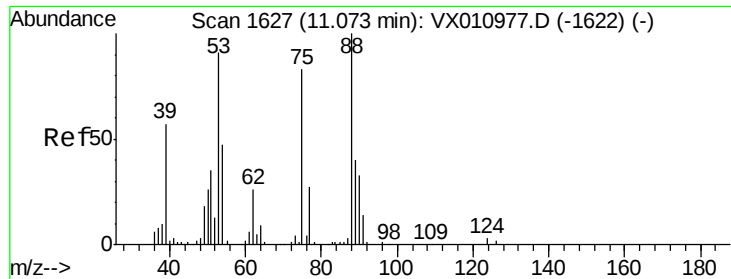
100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX011056.D (-1158) (-)

Ion 100.00 (99.70 to 100.70): VX011056.D (-1158) (-)





#77
 t-1,4-Dichloro-2-butene
 Concen: 42.601 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011056.D
 Acq: 24 Jul 2019 12:46

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 39013
 Ion Ratio Lower Upper
 75 100
 53 0.0 54.8 164.3#
 89 0.0 24.6 73.6#

