

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101419\
 Data File : VX013054.D
 Acq On : 14 Oct 2019 16:06
 Operator : JC/SP
 Sample : K5336-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 15 01:27:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	297123	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	252160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	101145	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	112228	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
35) Dibromofluoromethane	5.49	113	89205	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
50) Toluene-d8	8.71	98	345453	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
62) 4-Bromofluorobenzene	11.14	95	115890	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	

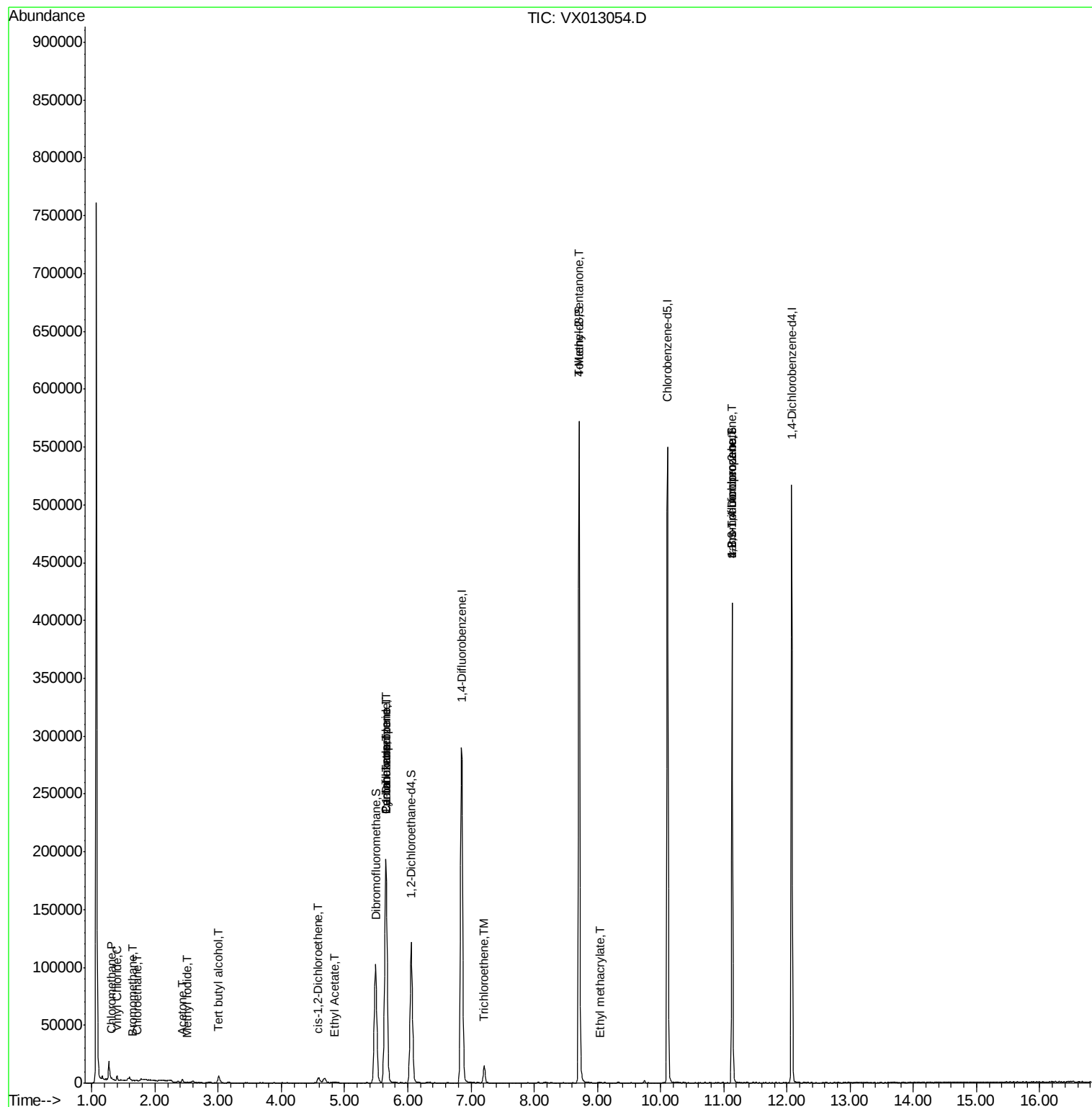
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	623	0.314	ug/l #	71
4) Vinyl Chloride	1.40	62	2320	1.132	ug/l	91
5) Bromomethane	1.66	94	193	0.227	ug/l #	75
6) Chloroethane	1.71	64	160	0.494	ug/l #	43
10) Methyl Iodide	2.51	142	272	5.202	ug/l #	79
11) Tert butyl alcohol	3.01	59	3339	5.631	ug/l #	74
16) Acetone	2.43	43	2707	2.296	ug/l	96
27) cis-1,2-Dichloroethene	4.58	96	2849	1.275	ug/l	91
31) Cyclohexane	5.65	56	3800	1.171	ug/l #	16
36) 1,1-Dichloropropene	5.65	75	14054	5.380	ug/l #	50
37) Ethyl Acetate	4.84	43	2072	0.709	ug/l #	81
38) Carbon Tetrachloride	5.65	117	18701	7.355	ug/l #	19
44) Trichloroethene	7.21	130	6040	2.823	ug/l	97
51) 4-Methyl-2-Pentanone	8.70	43	1520	0.520	ug/l #	1
56) Ethyl methacrylate	9.04	69	48	1.845	ug/l #	70
76) 1,2,3-Trichloropropane	11.14	75	57422	25.596	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	57422	64.528	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

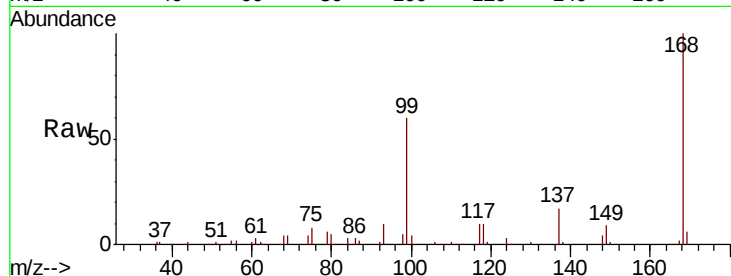
ClientSampleId :

Tot Ion:168 Resp: 178958

Ion Ratio Lower Upper

168 100

99 60.3 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

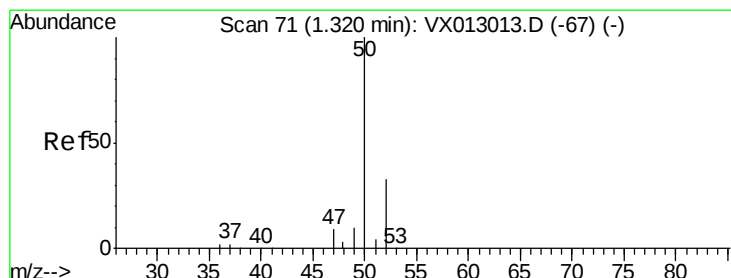
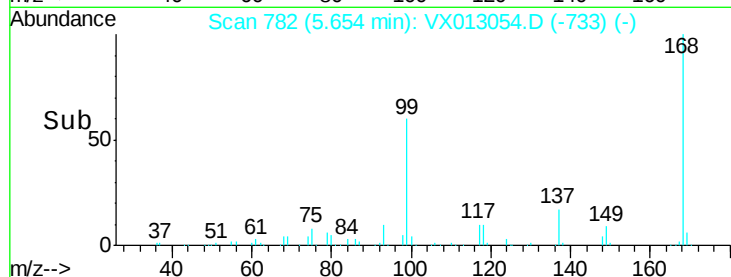
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.314 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013054.D

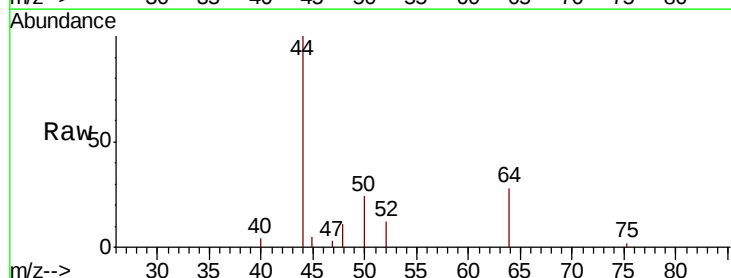
Acq: 14 Oct 2019 16:06

Tgt Ion: 50 Resp: 623

Ion Ratio Lower Upper

50 100

52 47.7 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

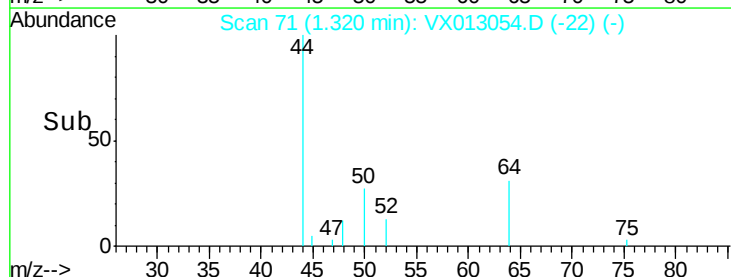
600

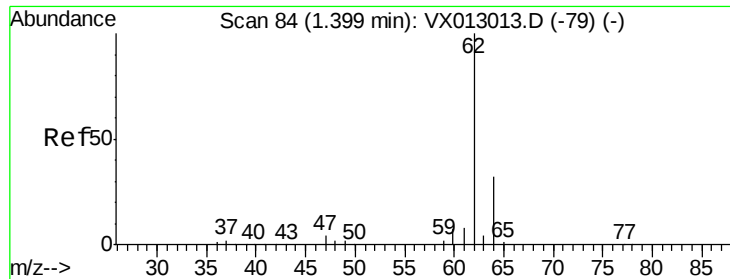
400

200

0

Time--> 1.28 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 1.132 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

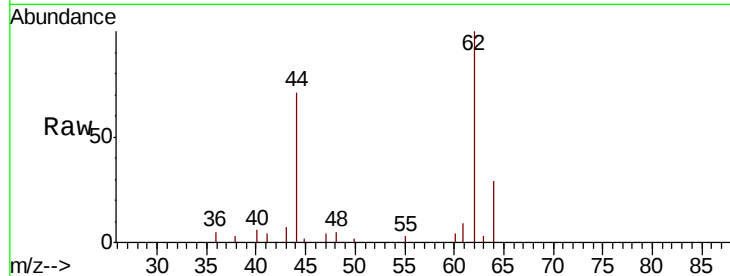
ClientSampled :

Tot Ion: 62 Resp: 2320

Ion Ratio Lower Upper

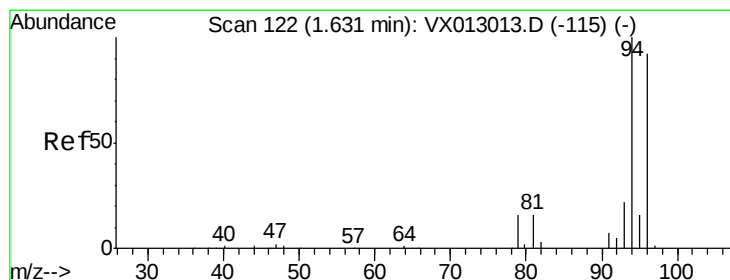
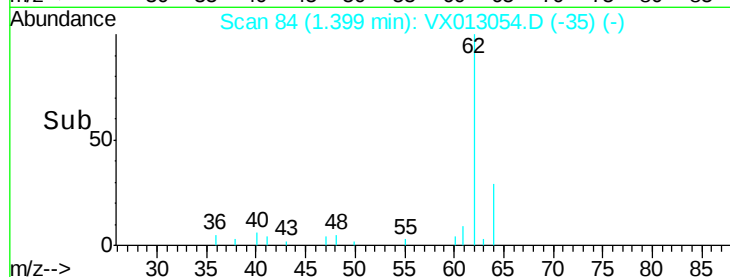
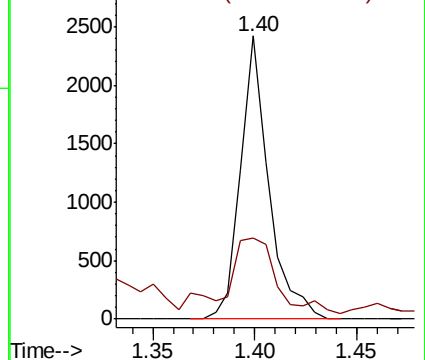
62 100

64 26.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX013054.D

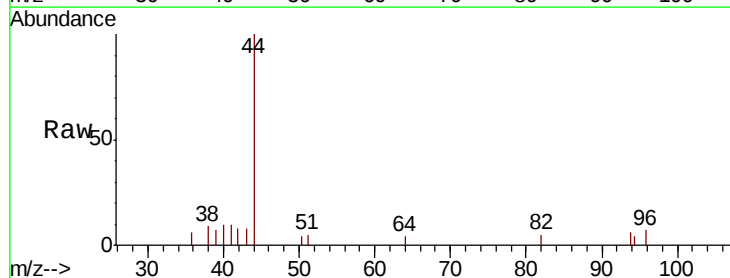
Acq: 14 Oct 2019 16:06

Tgt Ion: 94 Resp: 193

Ion Ratio Lower Upper

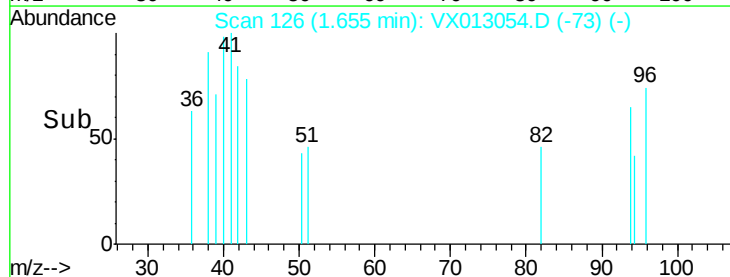
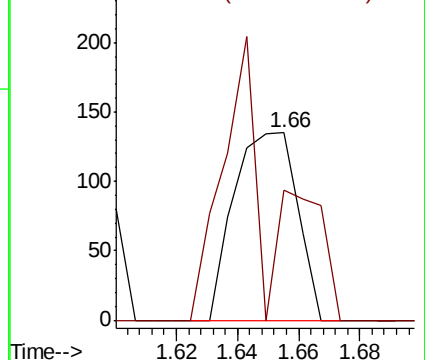
94 100

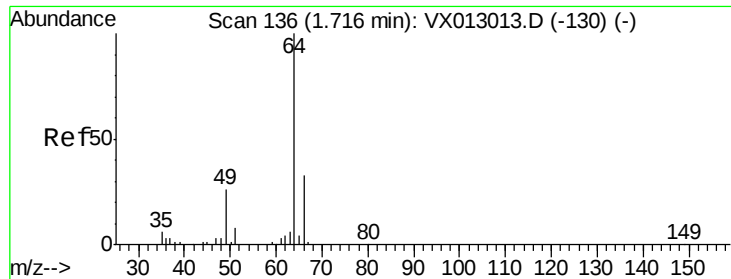
96 69.6 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.494 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

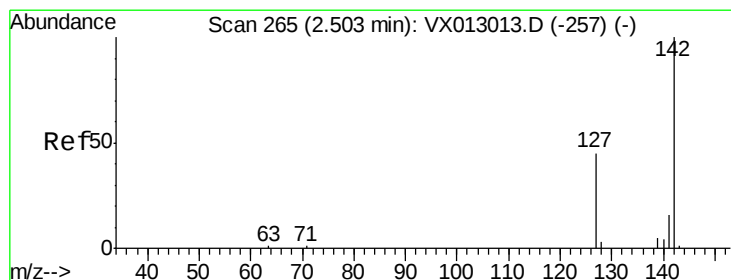
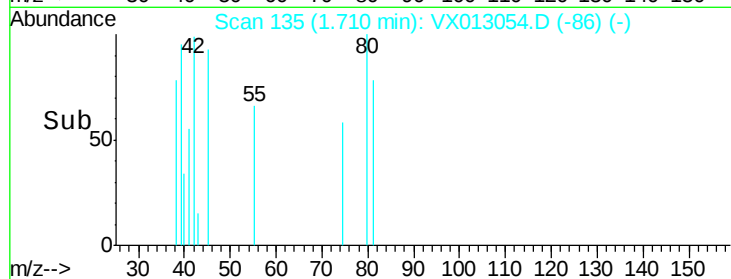
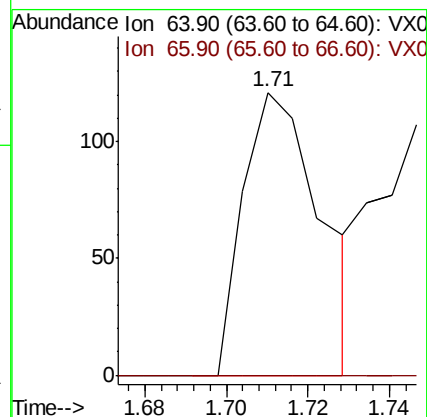
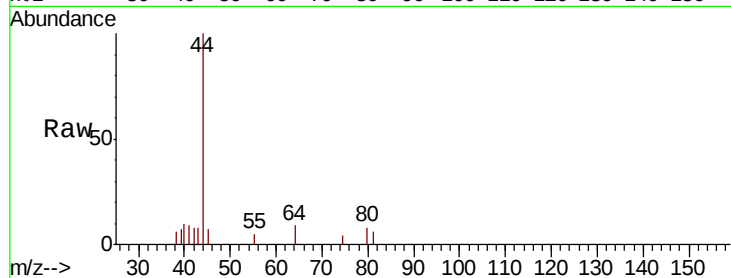
ClientSampled :

Tot Ion: 64 Resp: 160

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.202 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

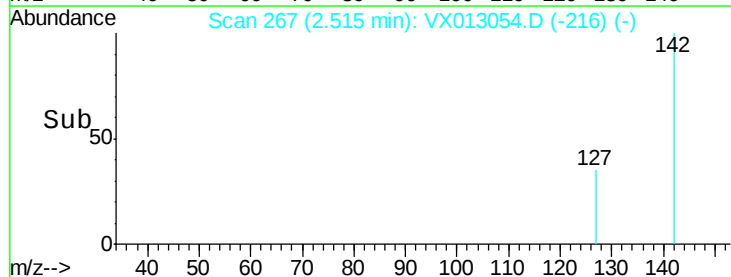
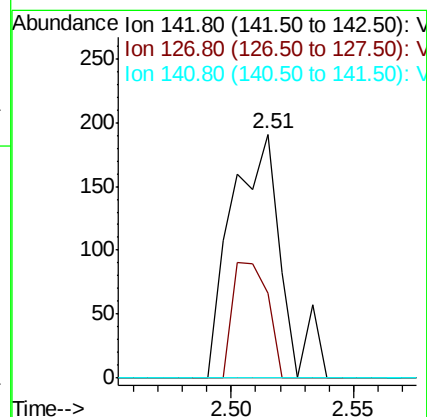
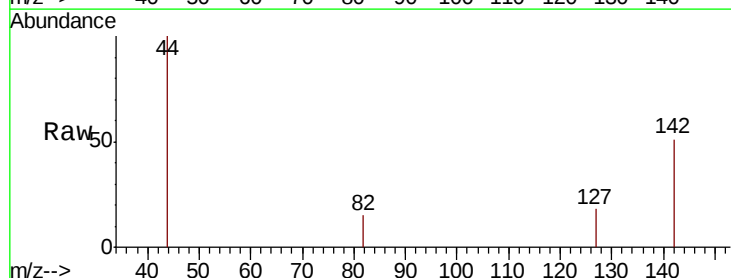
Tgt Ion: 142 Resp: 272

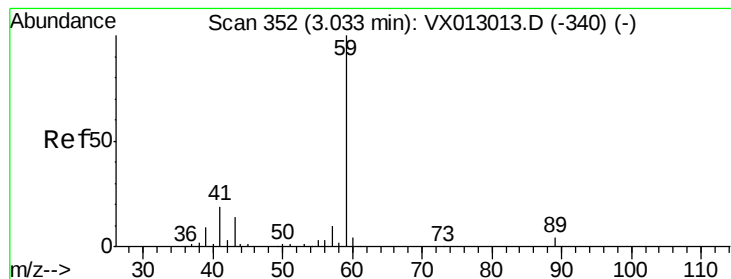
Ion Ratio Lower Upper

142 100

127 33.1 34.9 52.3#

141 0.0 11.6 17.4#



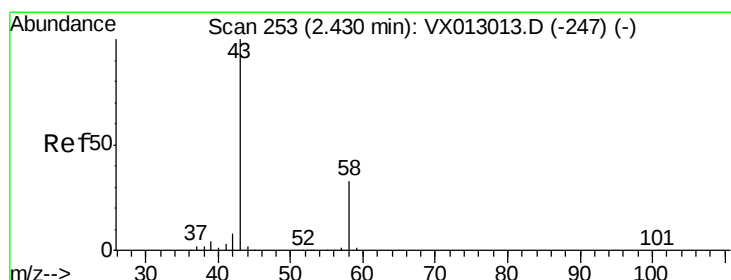
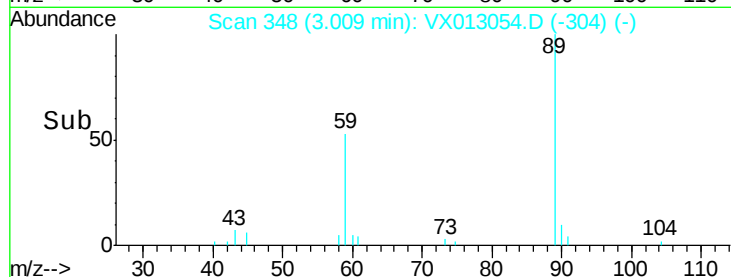
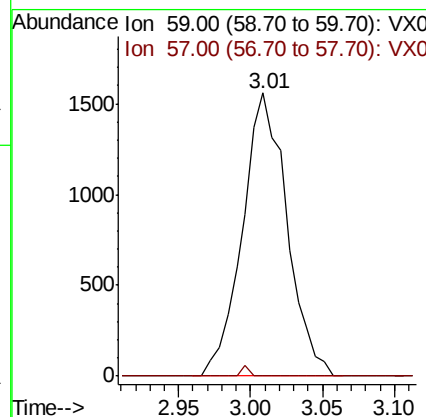
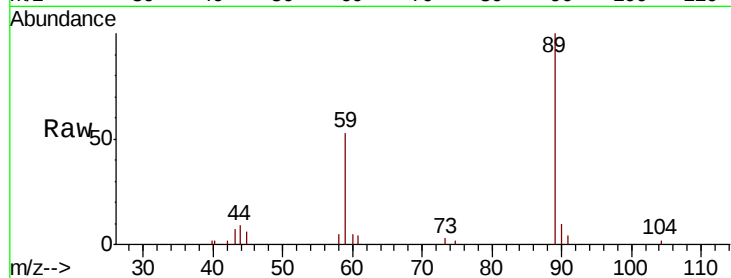


#11

Tert butyl alcohol
 Concen: 5.631 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX013054.D
 Acq: 14 Oct 2019 16:06

Instrument :
 MSVOA_X
 ClientSampled :

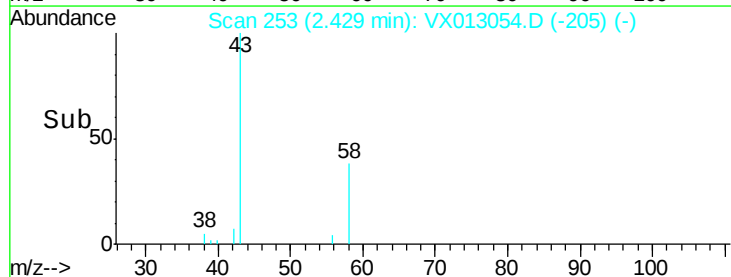
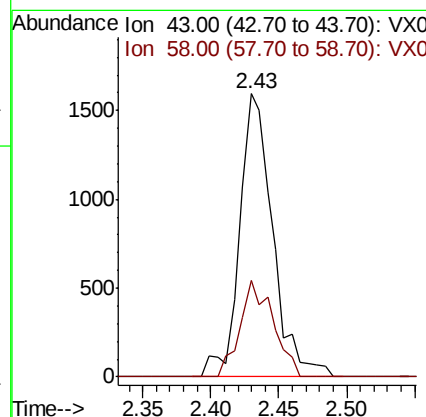
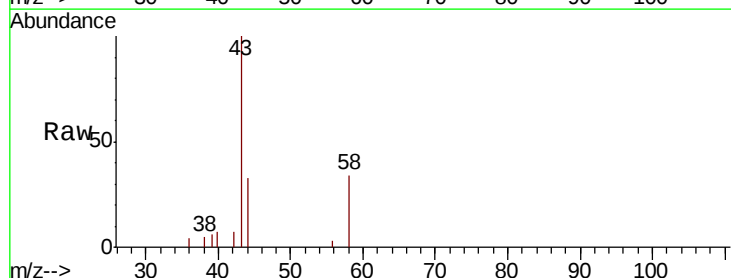
Tot Ion: 59 Resp: 3339
 Ion Ratio Lower Upper
 59 100
 57 0.6 8.3 12.5#

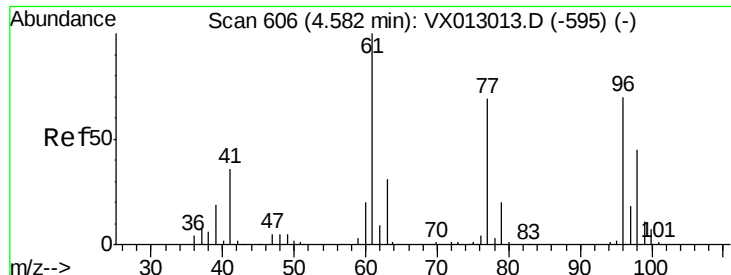


#16

Acetone
 Concen: 2.296 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VX013054.D
 Acq: 14 Oct 2019 16:06

Tgt Ion: 43 Resp: 2707
 Ion Ratio Lower Upper
 43 100
 58 33.9 25.4 38.2





#27

cis-1,2-Dichloroethene

Concen: 1.275 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

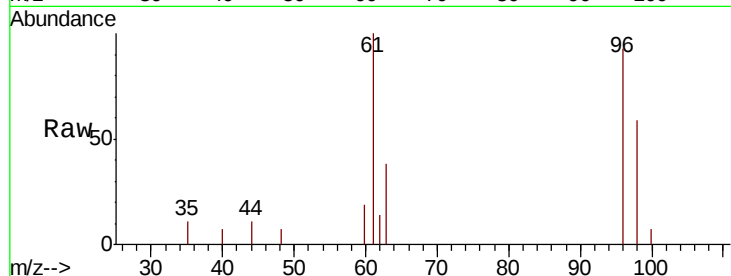
Tot Ion: 96 Resp: 2849

Ion Ratio Lower Upper

96 100

61 130.9 0.0 290.6

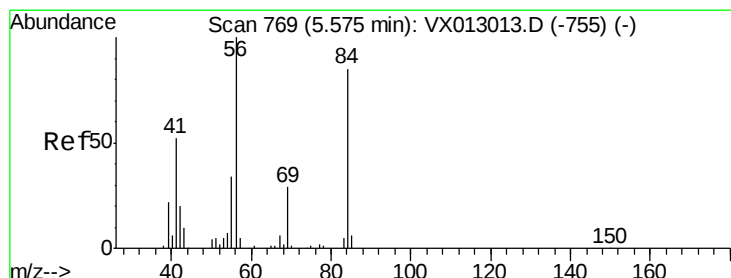
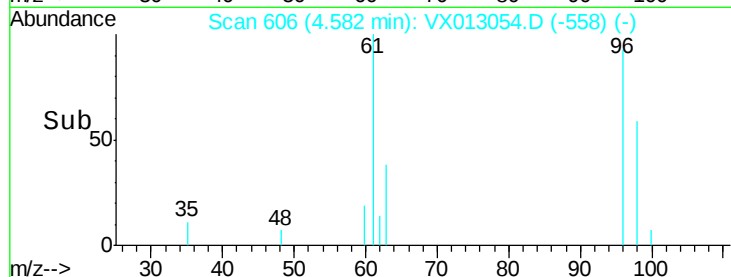
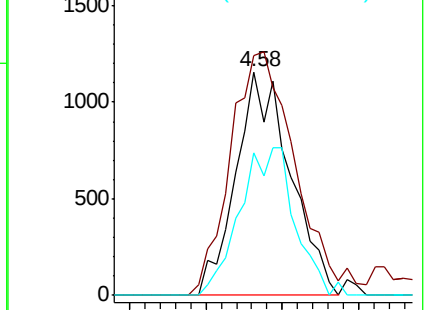
98 67.2 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 1.171 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

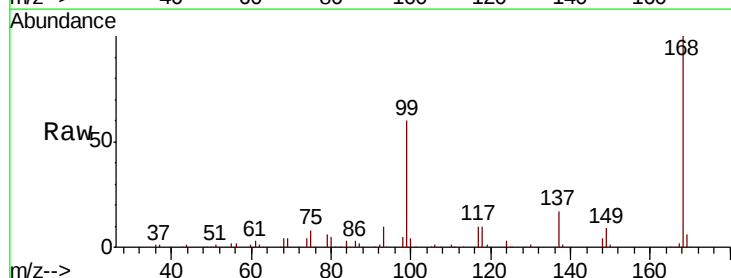
Tgt Ion: 56 Resp: 3800

Ion Ratio Lower Upper

56 100

69 158.6 25.2 37.8#

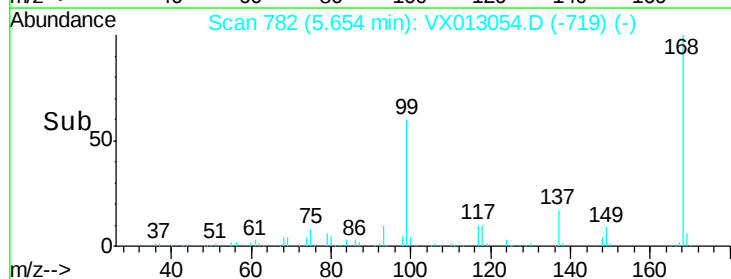
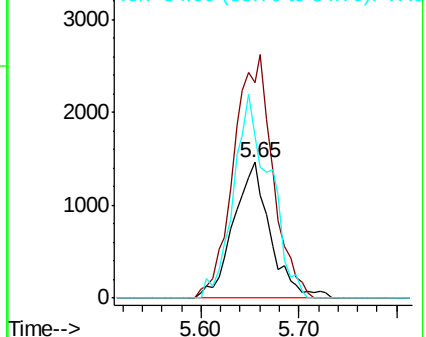
84 119.6 71.3 106.9#

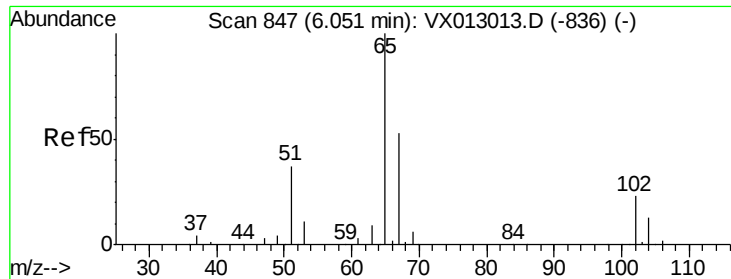


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.175 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

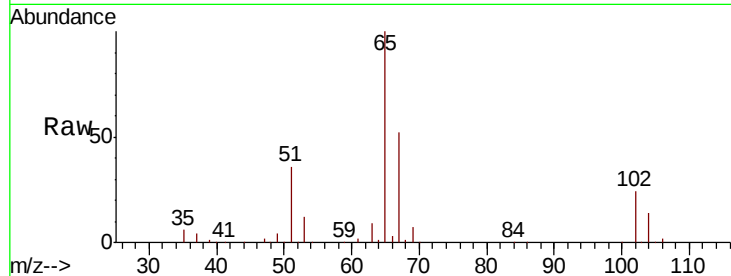
ClientSampleId :

Tot Ion: 65 Resp: 112228

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.4

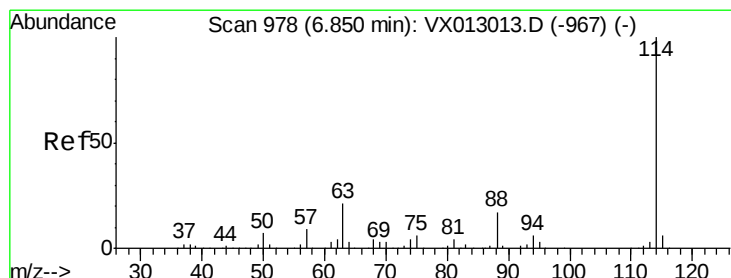
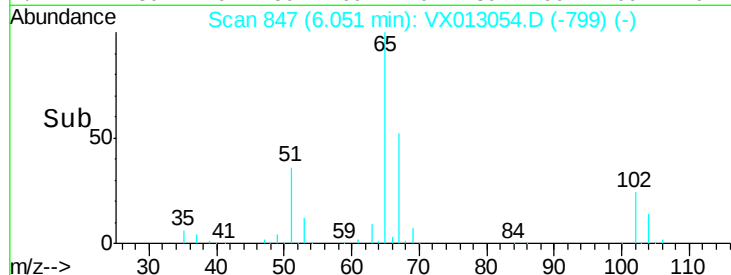


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

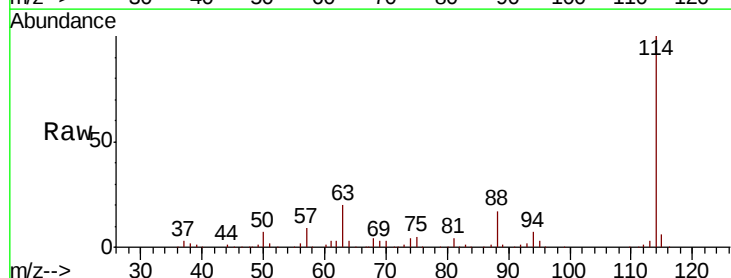
Tgt Ion: 114 Resp: 297123

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

88 17.4 0.0 33.8



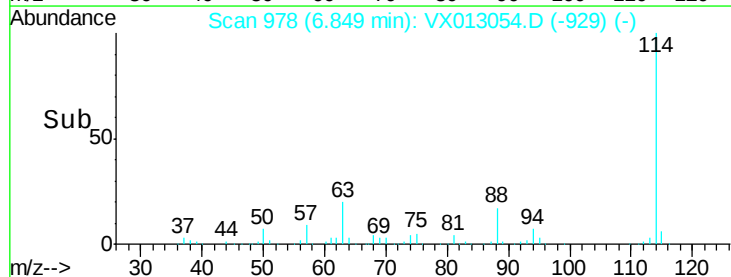
Abundance Ion 113.90 (113.60 to 114.60): V

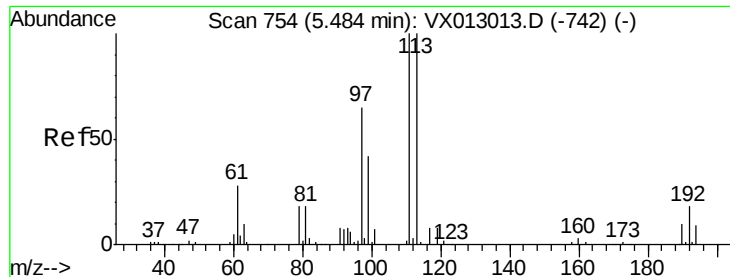
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 52.310 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

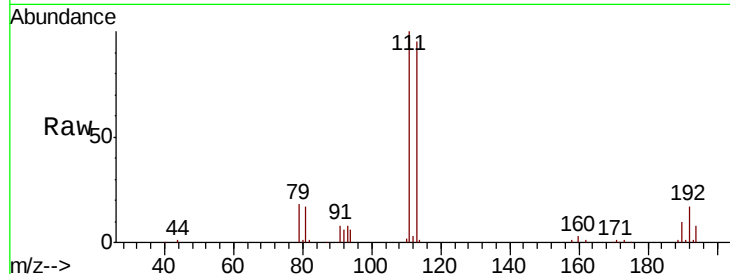
Tot Ion:113 Resp: 89205

Ion Ratio Lower Upper

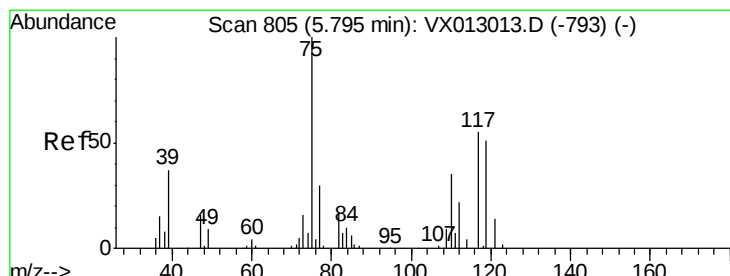
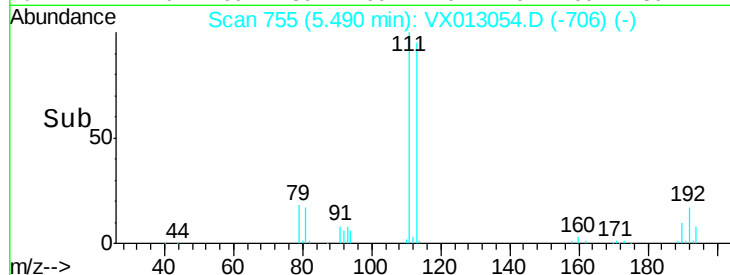
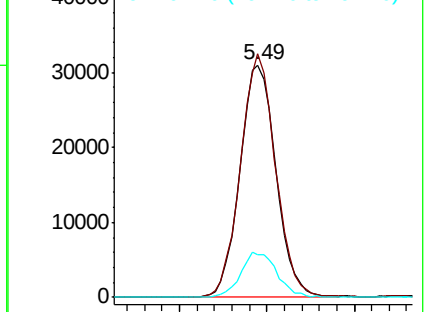
113 100

111 101.4 83.2 124.8

192 19.2 15.4 23.2



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: 5.380 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

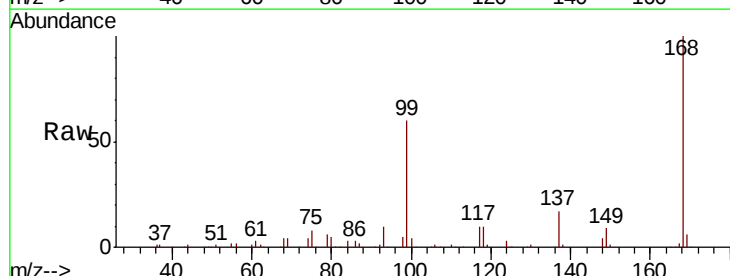
Tgt Ion: 75 Resp: 14054

Ion Ratio Lower Upper

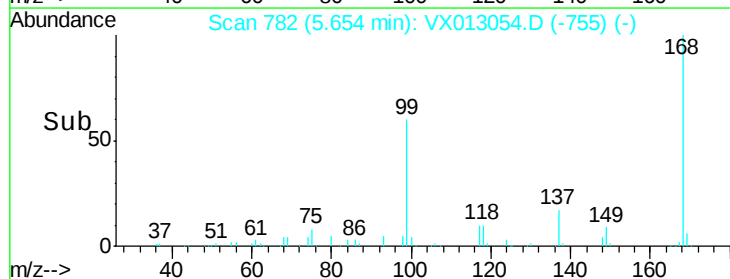
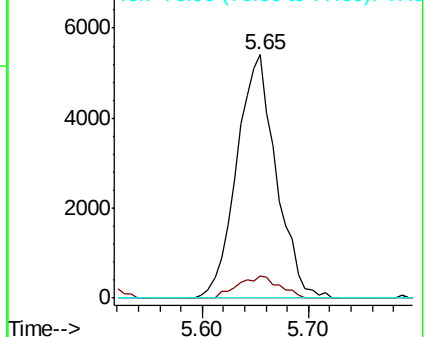
75 100

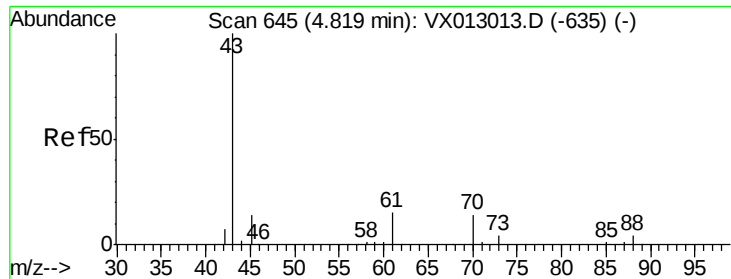
110 9.5 17.6 52.9#

77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0

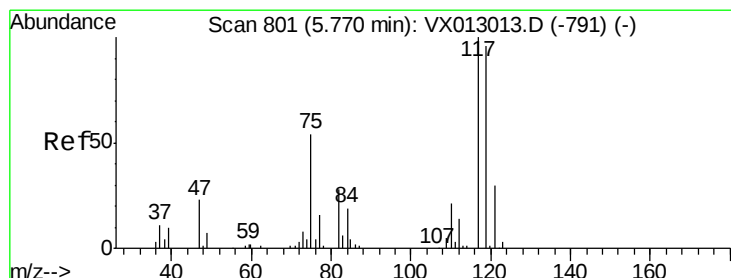
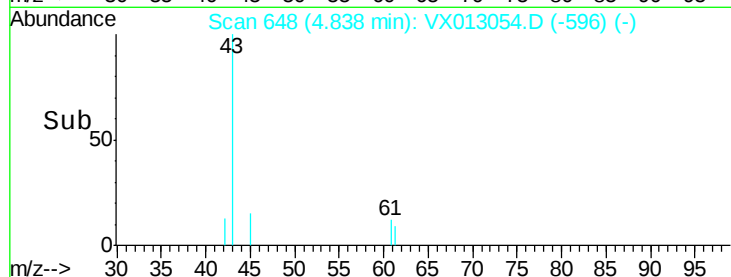
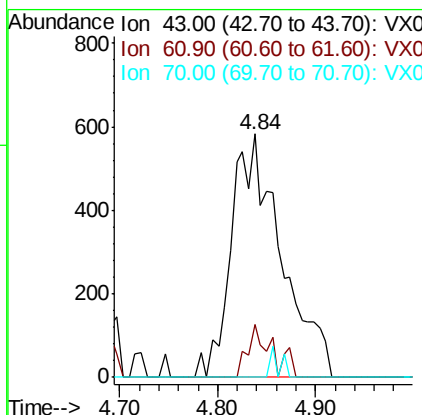
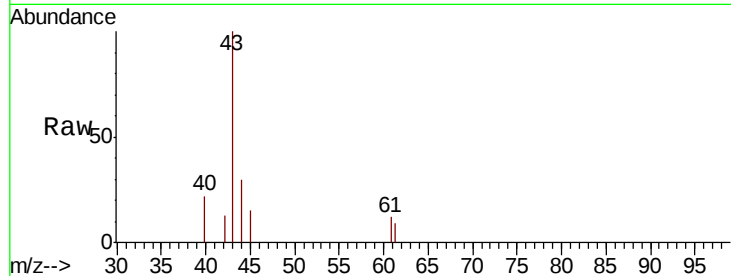




#37
Ethyl Acetate
Concen: 0.709 ug/l
RT: 4.84 min Scan# 648
Delta R.T. 0.02 min
Lab File: VX013054.D
Acq: 14 Oct 2019 16:06

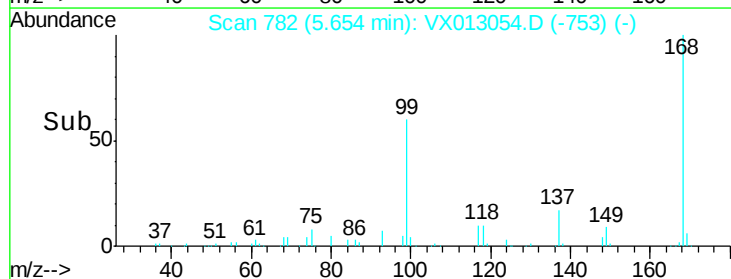
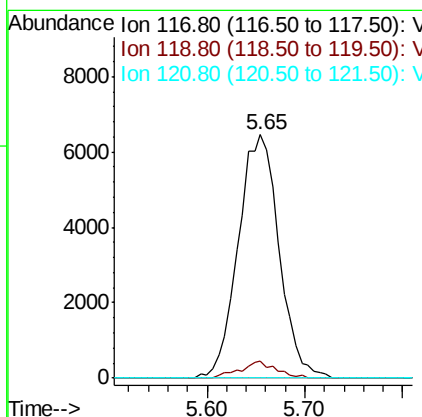
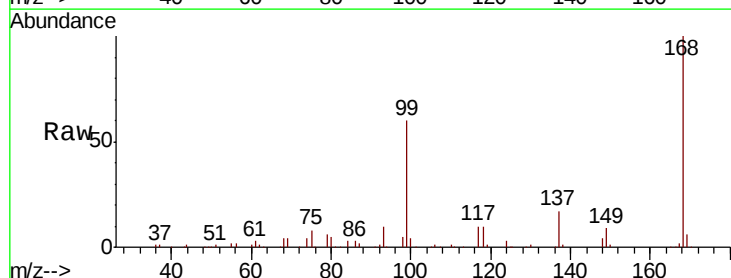
Instrument :
MSVOA_X
ClientSampleId :

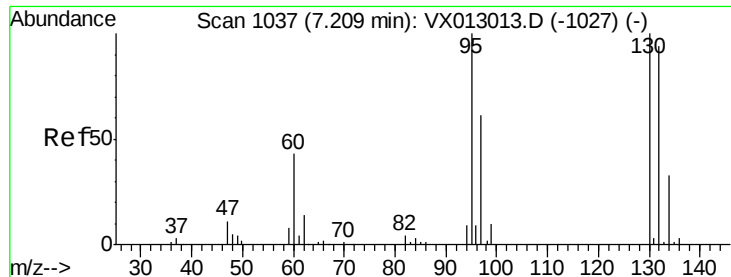
Tot Ion: 43 Resp: 2072
Ion Ratio Lower Upper
43 100
61 8.5 11.4 17.0#
70 2.4 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 7.355 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013054.D
Acq: 14 Oct 2019 16:06

Tgt Ion: 117 Resp: 18701
Ion Ratio Lower Upper
117 100
119 7.0 74.5 111.7#
121 0.0 24.2 36.4#





#44

Trichloroethene

Concen: 2.823 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

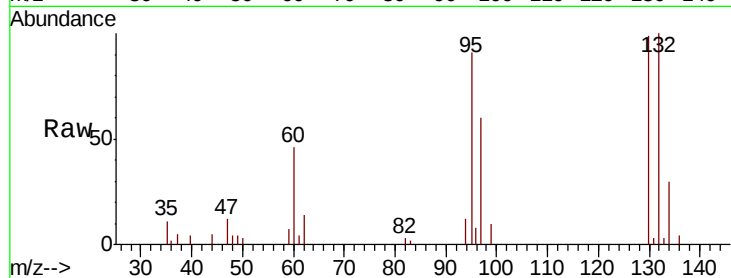
ClientSampleId :

Tot Ion:130 Resp: 6040

Ion Ratio Lower Upper

130 100

95 92.1 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

3000

2500

2000

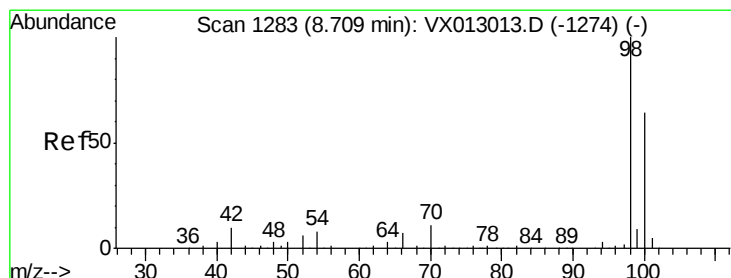
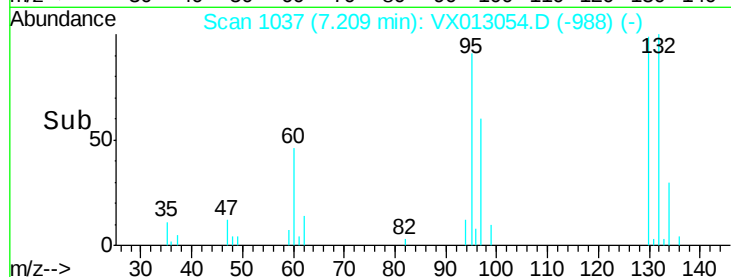
1500

1000

500

0

Time-->



#50

Toluene-d8

Concen: 51.938 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013054.D

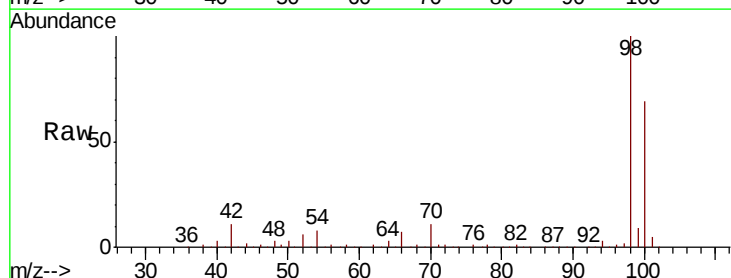
Acq: 14 Oct 2019 16:06

Tgt Ion: 98 Resp: 345453

Ion Ratio Lower Upper

98 100

100 66.8 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

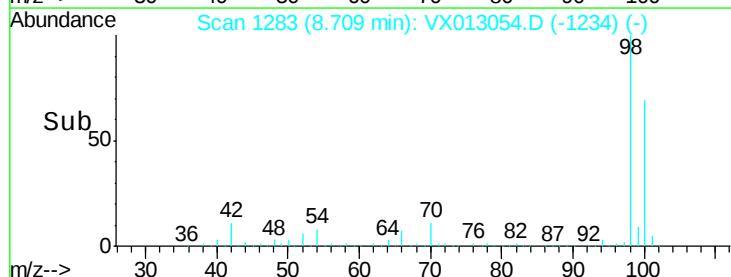
150000

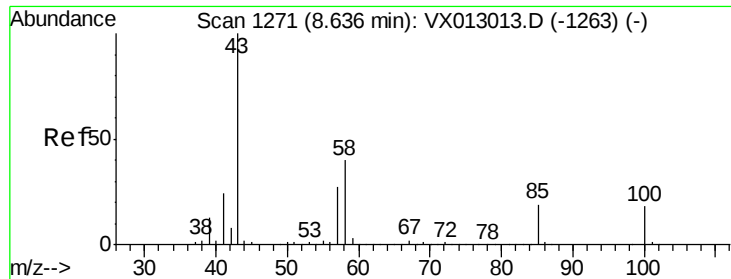
100000

50000

0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.520 ug/l

RT: 8.70 min Scan# 1282

Delta R.T. 0.07 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

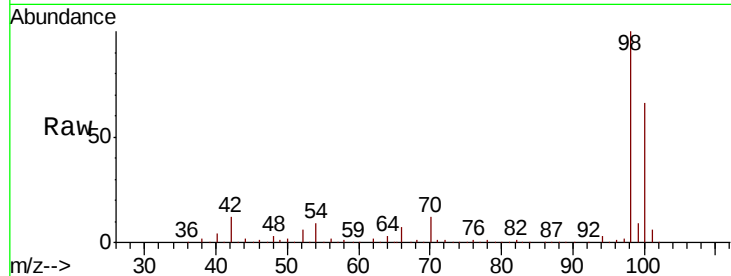
ClientSampled :

Tot Ion: 43 Resp: 1520

Ion Ratio Lower Upper

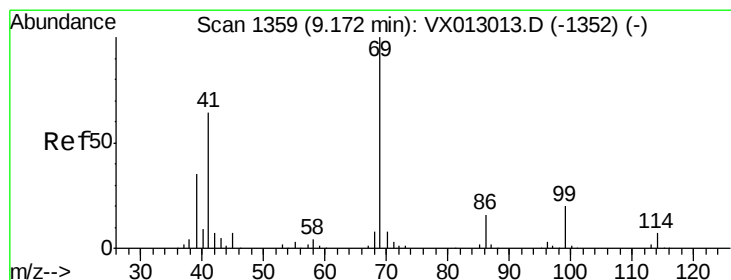
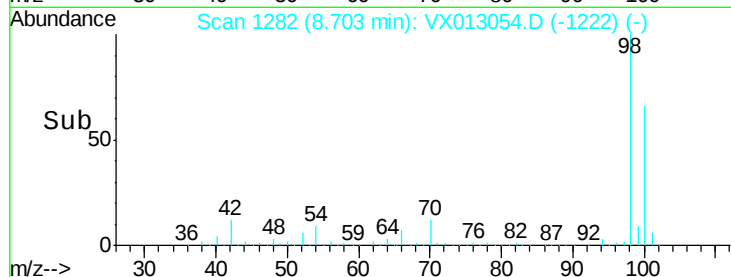
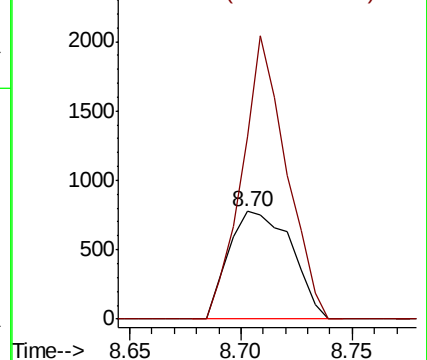
43 100

58 187.0 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#56

Ethyl methacrylate

Concen: 1.845 ug/l

RT: 9.04 min Scan# 1338

Delta R.T. -0.13 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

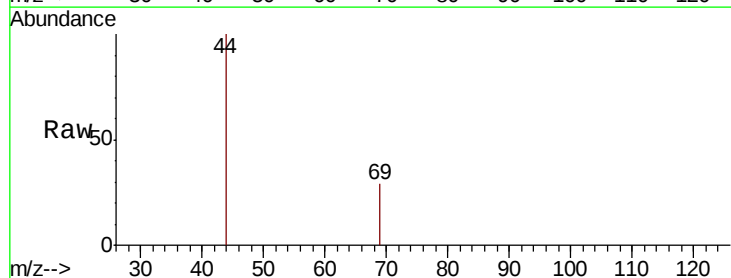
Tgt Ion: 69 Resp: 48

Ion Ratio Lower Upper

69 100

41 54.2 52.1 78.1

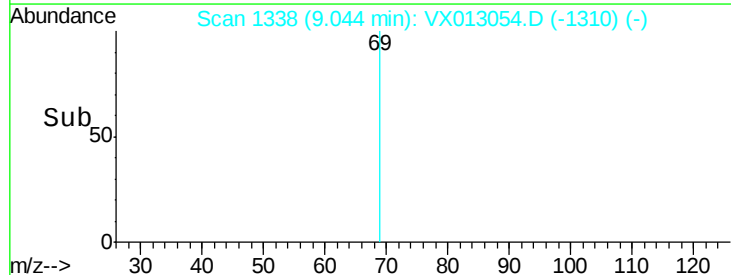
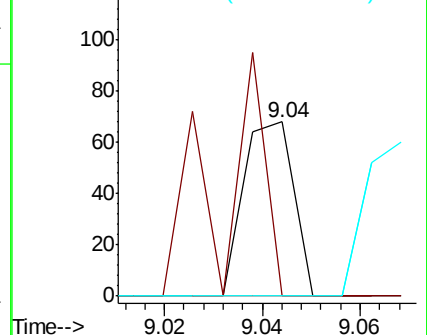
39 0.0 27.8 41.8#

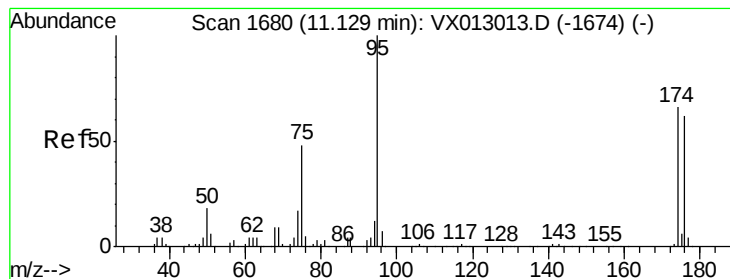


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.843 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

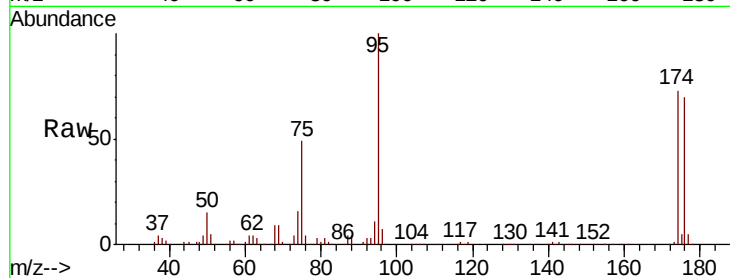
Tot Ion: 95 Resp: 115890

Ion Ratio Lower Upper

95 100

174 74.1 0.0 143.4

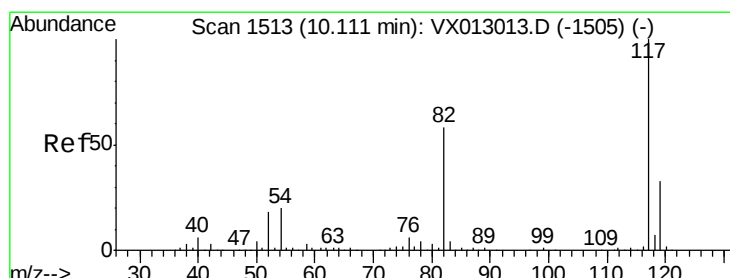
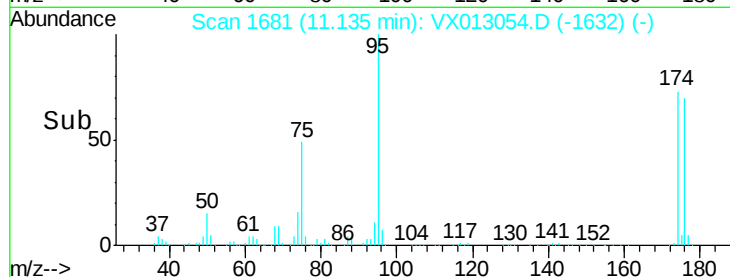
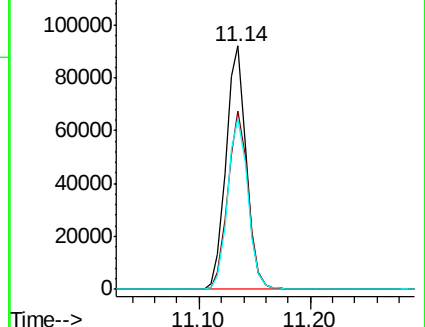
176 70.6 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX013013.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013013.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013013.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

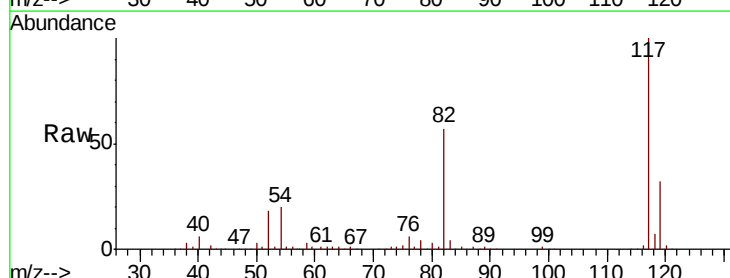
Tgt Ion: 117 Resp: 252160

Ion Ratio Lower Upper

117 100

82 56.6 44.1 66.1

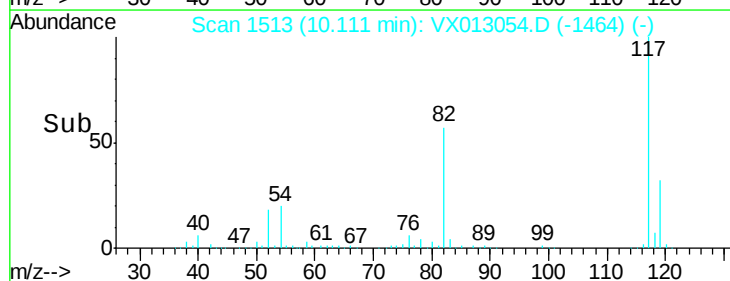
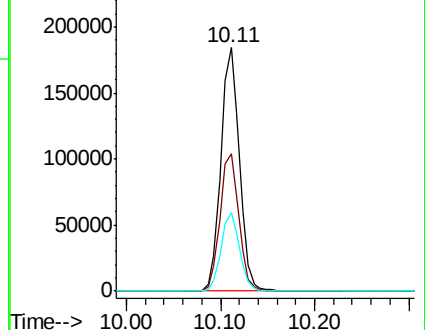
119 32.3 25.8 38.8

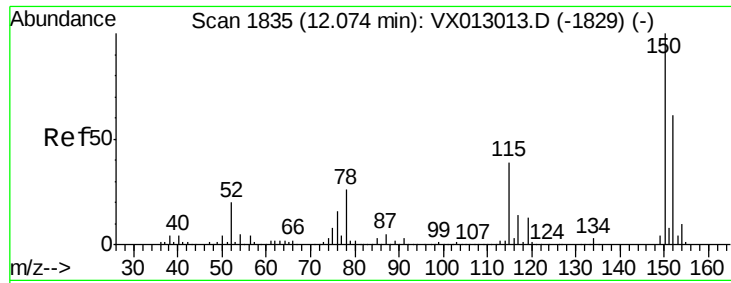


Abundance Ion 116.90 (116.60 to 117.60): VX013013.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX013013.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX013013.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

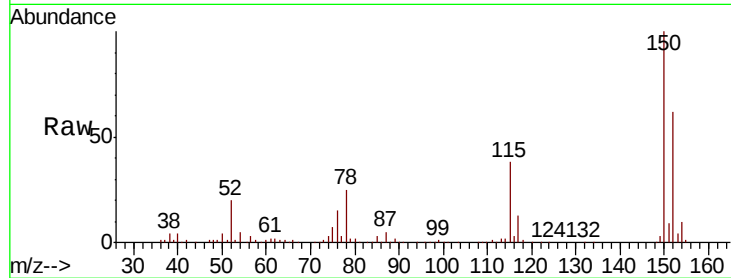
Tot Ion:152 Resp: 101145

Ion Ratio Lower Upper

152 100

115 62.3 44.5 133.5

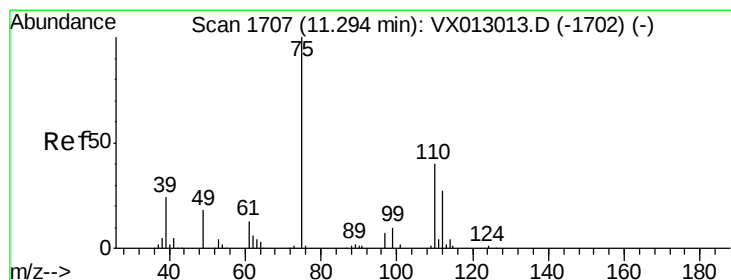
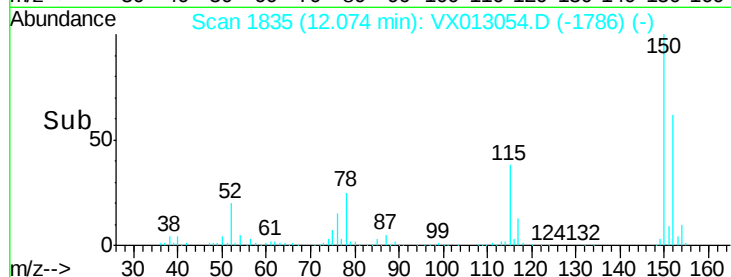
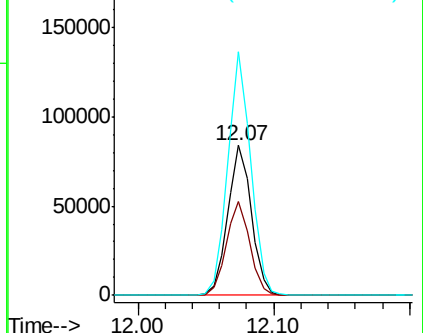
150 158.0 0.0 353.4



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: 25.596 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013054.D

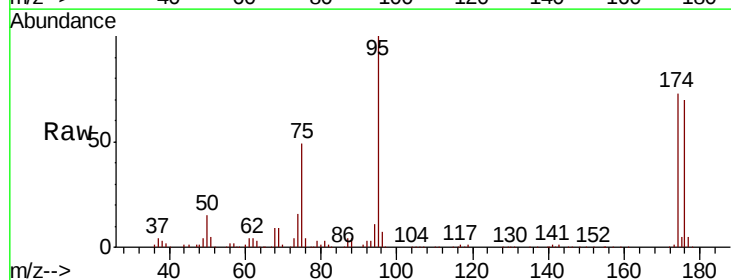
Acq: 14 Oct 2019 16:06

Tgt Ion: 75 Resp: 57422

Ion Ratio Lower Upper

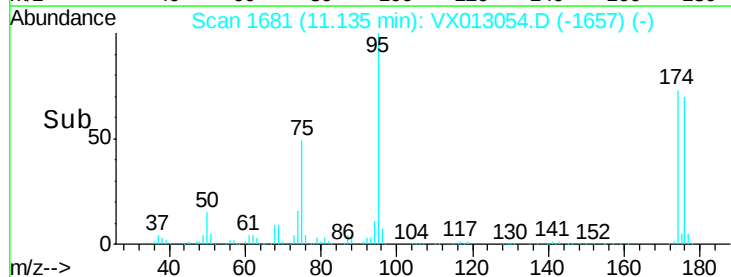
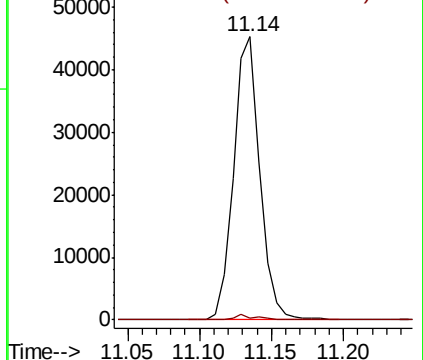
75 100

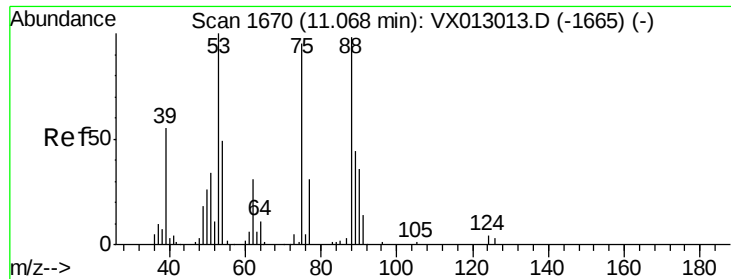
77 1.5 22.9 68.8#



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: 64.528 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013054.D

Acq: 14 Oct 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 57422

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

