

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004571.D
 Acq On : 15 Sep 2018 08:29
 Operator : JC/MD
 Sample : J4925-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0253

Quant Time: Sep 17 01:20:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	284371	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	398139	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	366270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	236238	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	183077	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
35) Dibromofluoromethane	5.51	113	166514	45.70	ug/l	0.00
Spiked Amount			Recovery	=	91.40%	
50) Toluene-d8	8.72	98	547431	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	
62) 4-Bromofluorobenzene	11.14	95	201231	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	

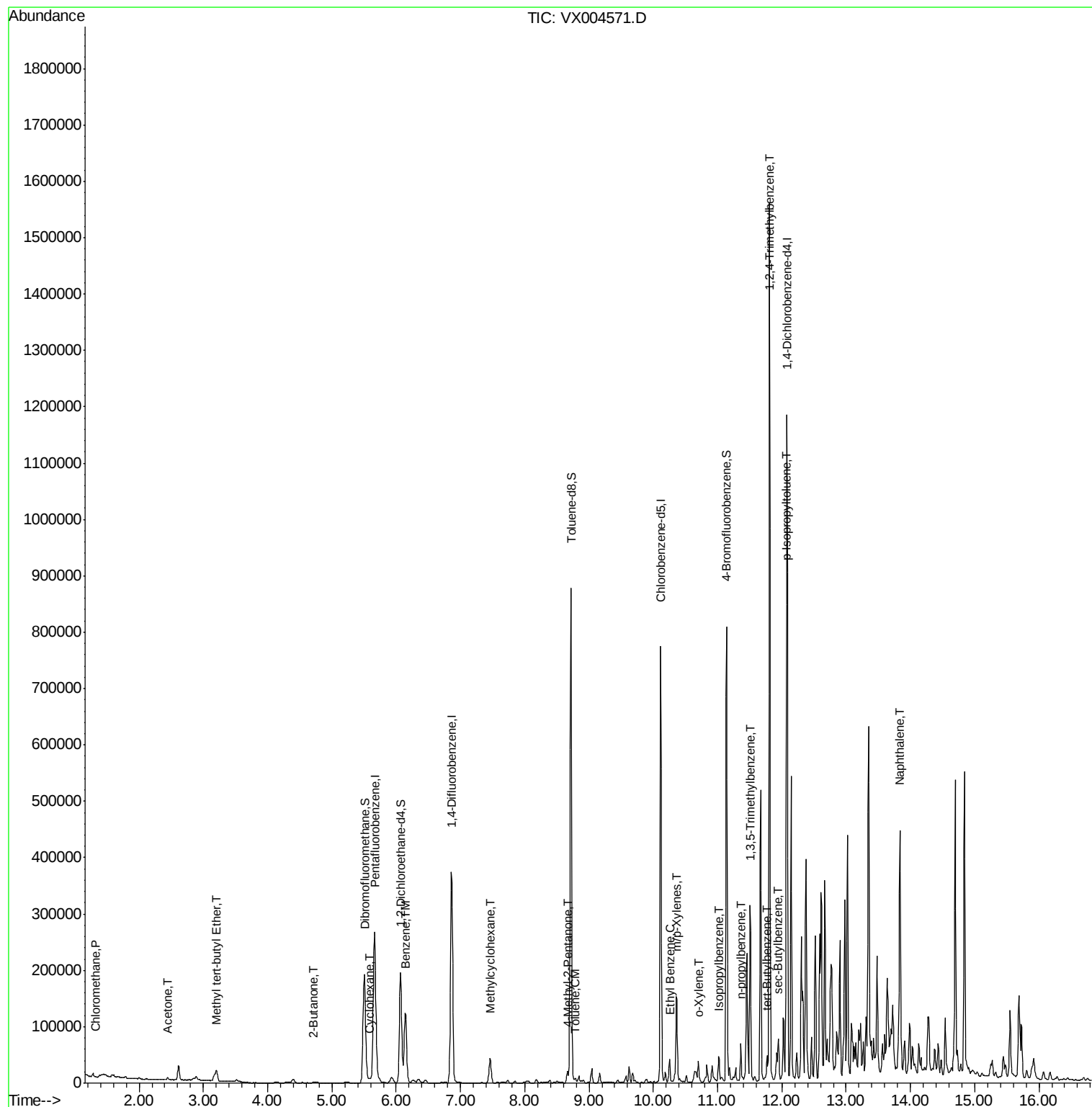
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1479	0.40	ug/l	95
16) Acetone	2.45	43	4095	2.29	ug/l	91
19) Methyl tert-butyl Ether	3.20	73	21003	2.01	ug/l	96
25) 2-Butanone	4.70	43	1620	0.57	ug/l	96
31) Cyclohexane	5.58	56	4906	0.92	ug/l	92
39) Methylcyclohexane	7.46	83	19031	3.77	ug/l	95
40) Benzene	6.14	78	153439	10.70	ug/l	100
51) 4-Methyl-2-Pentanone	8.66	43	1644	0.32	ug/l #	71
52) Toluene	8.79	92	2101	0.25	ug/l	98
67) Ethyl Benzene	10.26	91	22722	1.54	ug/l	100
68) m/p-Xylenes	10.36	106	32679	5.73	ug/l	97
69) o-Xylene	10.70	106	7823	1.43	ug/l	94
73) Isopropylbenzene	11.02	105	24173	1.55	ug/l	99
78) n-propylbenzene	11.36	91	39031	2.18	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	132992	10.17	ug/l	100
83) tert-Butylbenzene	11.77	119	13032	1.05	ug/l	88
84) 1,2,4-Trimethylbenzene	11.81	105	702536	52.61	ug/l	99
85) sec-Butylbenzene	11.94	105	36574	2.30	ug/l	96
86) p-Isopropyltoluene	12.07	119	44150	3.15	ug/l	98
95) Naphthalene	13.83	128	269298	16.70	ug/l	98

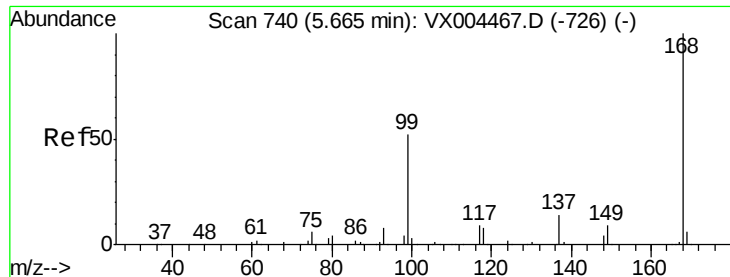
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

Instrument :

MSVOA_X

ClientSampleId :

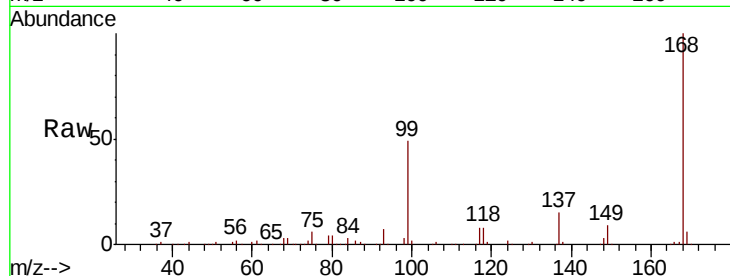
S13-0253

Tot Ion:168 Resp: 284371

Ion Ratio Lower Upper

168 100

99 48.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

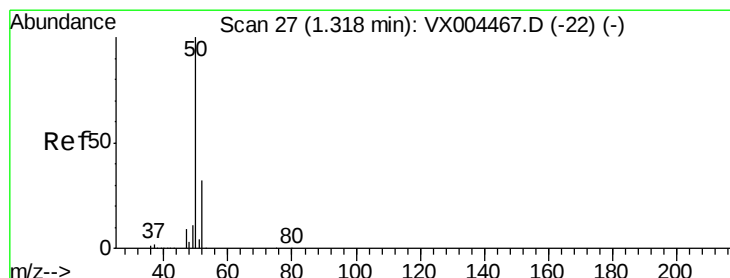
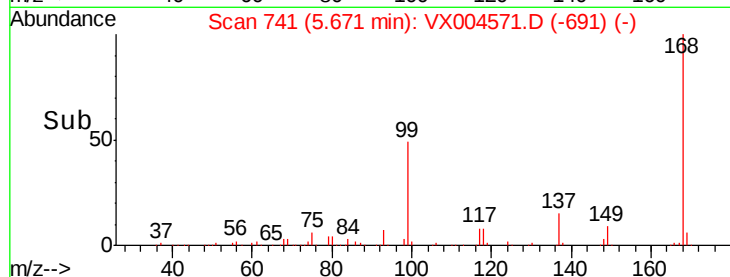
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.40 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004571.D

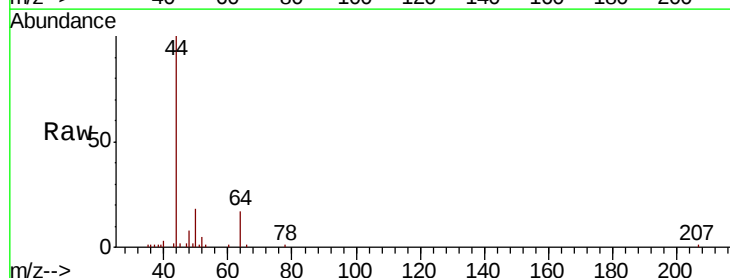
Acq: 15 Sep 2018 08:29

Tgt Ion: 50 Resp: 1479

Ion Ratio Lower Upper

50 100

52 30.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1500

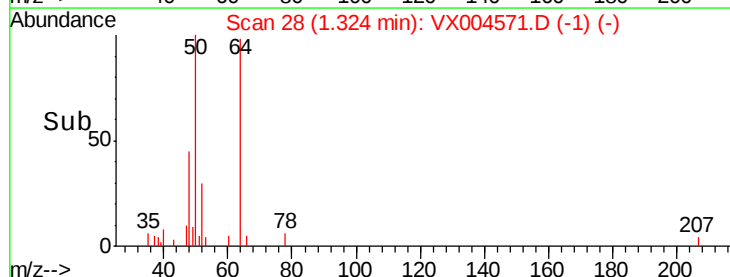
1000

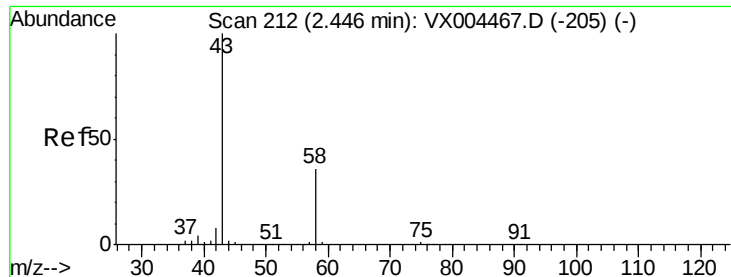
500

0

Time-->

1.30 1.35

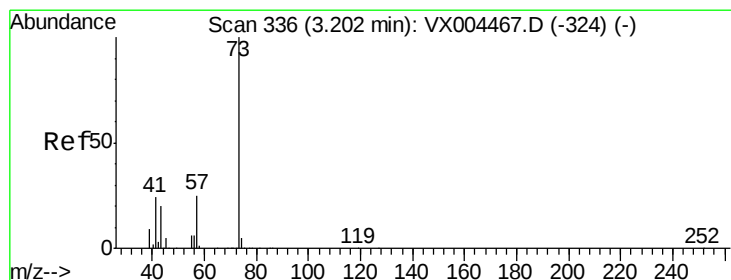
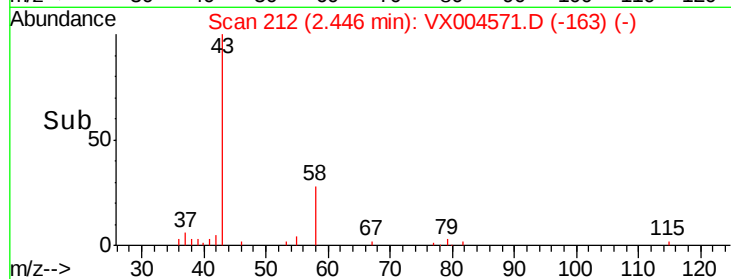
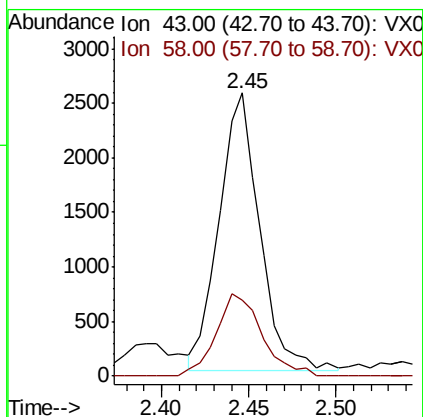
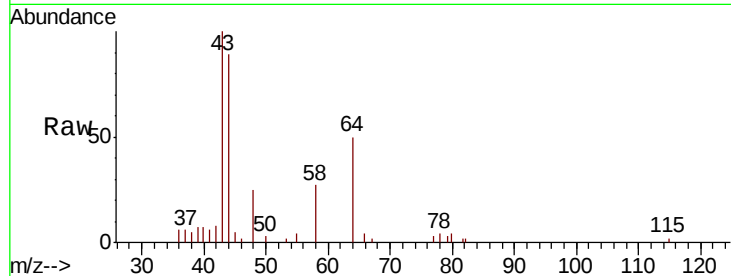




#16
Acetone
Concen: 2.29 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

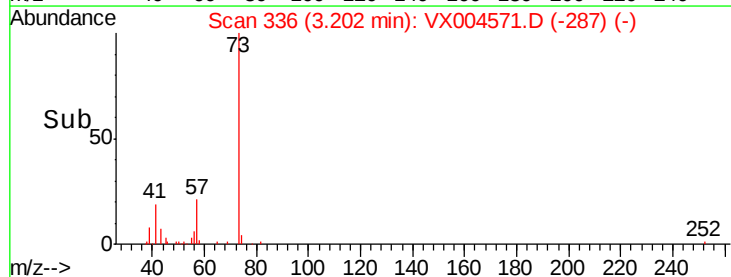
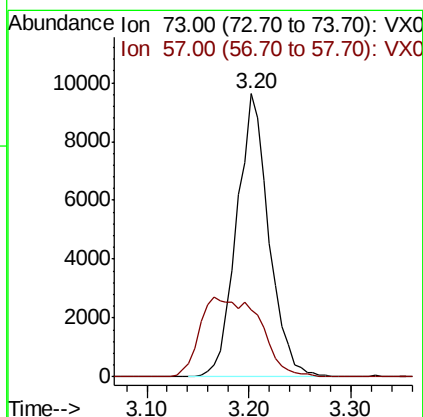
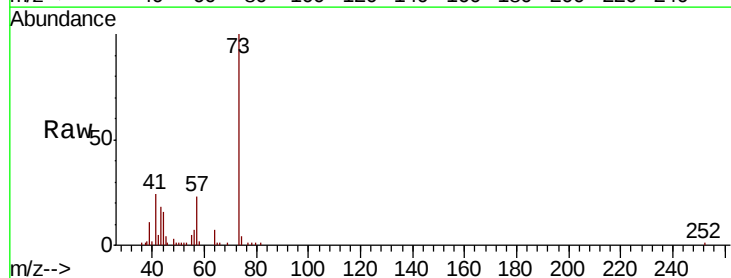
Instrument :
MSVOA_X
ClientSampleId :
S13-0253

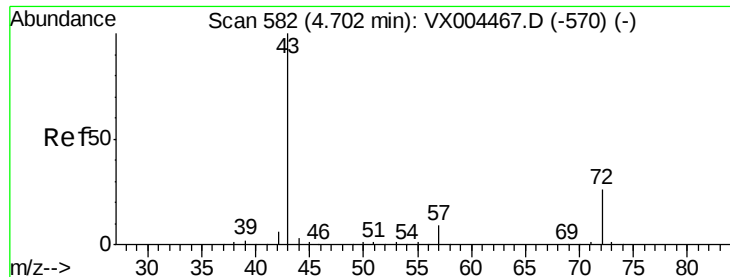
Tot Ion: 43 Resp: 4095
Ion Ratio Lower Upper
43 100
58 27.6 26.2 39.4



#19
Methyl tert-butyl Ether
Concen: 2.01 ug/l
RT: 3.20 min Scan# 336
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

Tgt Ion: 73 Resp: 21003
Ion Ratio Lower Upper
73 100
57 23.5 17.1 25.7





#25

2-Butanone

Concen: 0.57 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

Instrument :

MSVOA_X

ClientSampleId :

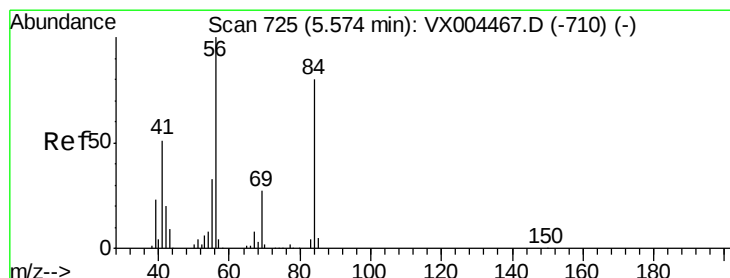
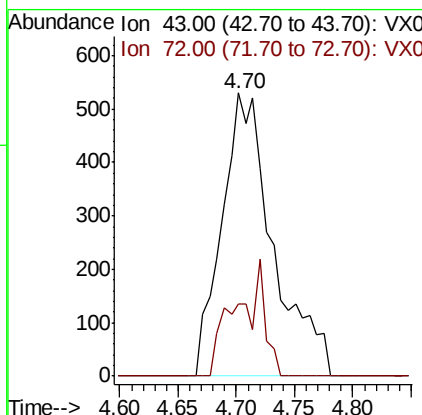
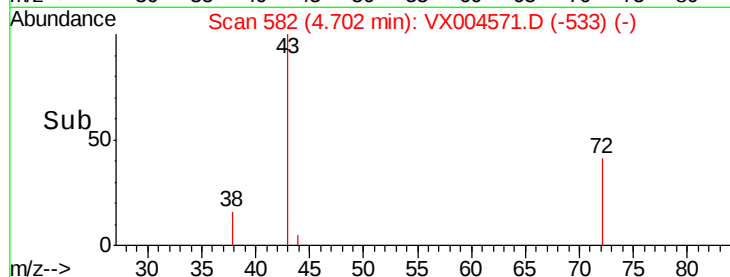
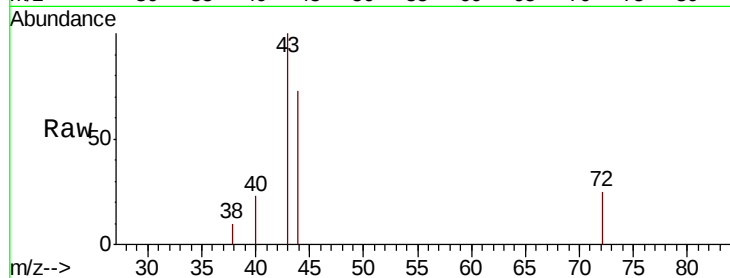
S13-0253

Tot Ion: 43 Resp: 1620

Ion Ratio Lower Upper

43 100

72 25.5 22.0 33.0



#31

Cyclohexane

Concen: 0.92 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.01 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

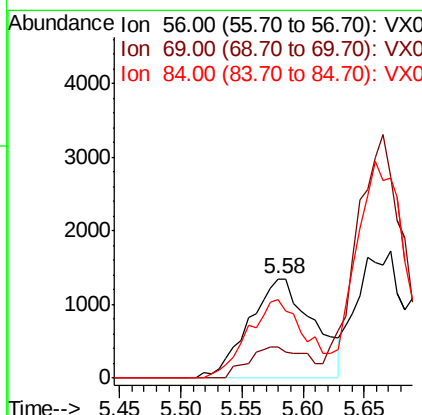
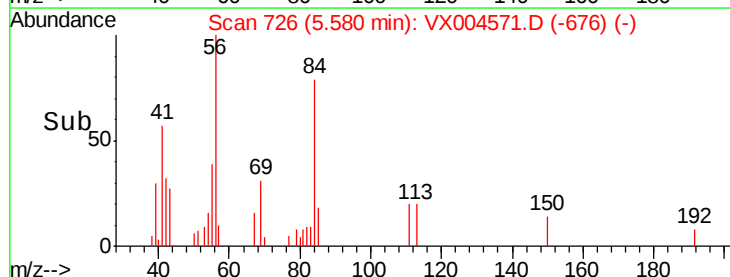
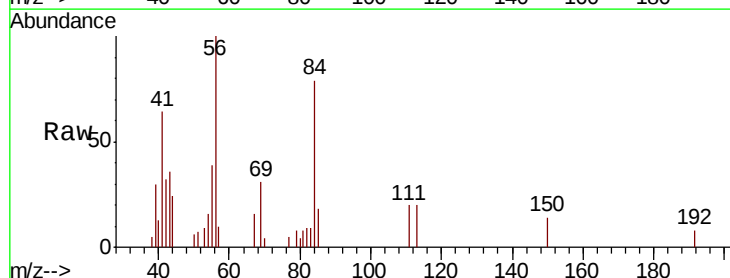
Tgt Ion: 56 Resp: 4906

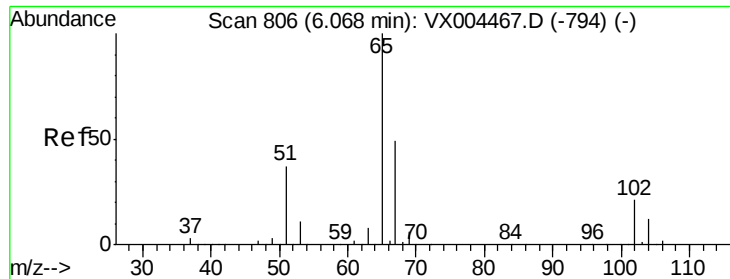
Ion Ratio Lower Upper

56 100

69 31.3 25.4 38.2

84 79.0 71.4 107.2





#33

1,2-Dichloroethane-d4

Concen: 49.93 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

Instrument :

MSVOA_X

ClientSampleId :

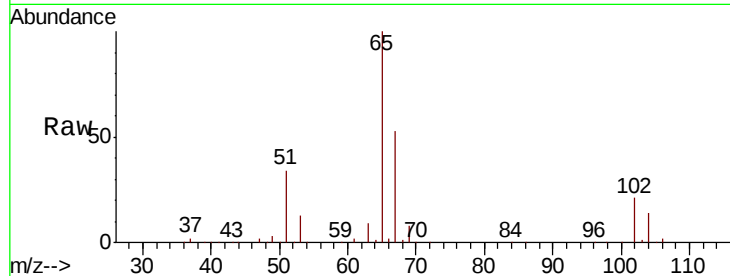
S13-0253

Tot Ion: 65 Resp: 183077

Ion Ratio Lower Upper

65 100

67 54.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

80000

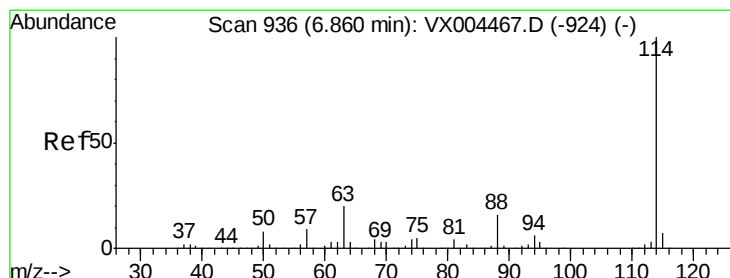
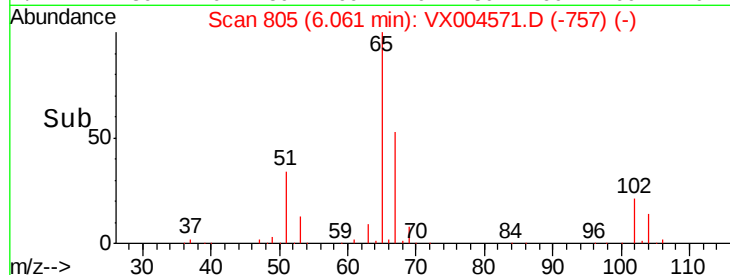
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

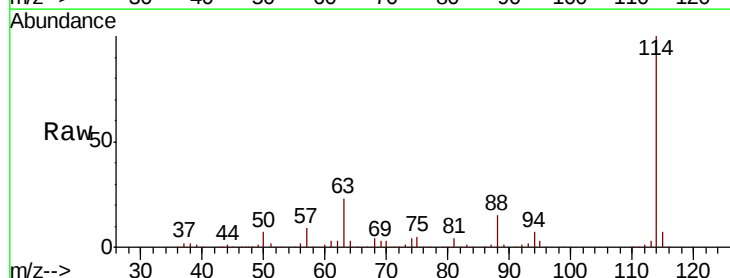
Tgt Ion: 114 Resp: 398139

Ion Ratio Lower Upper

114 100

63 22.9 0.0 39.0

88 15.5 0.0 30.4



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

200000

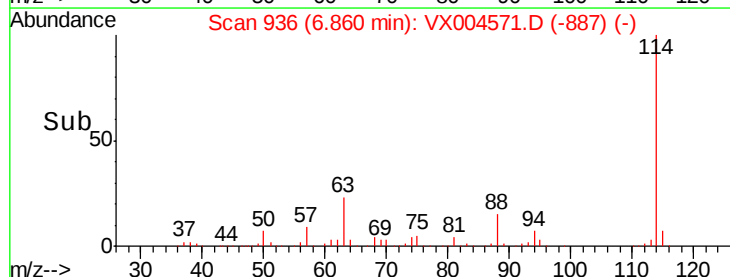
150000

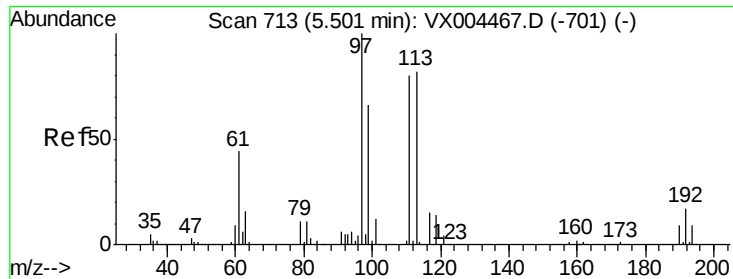
100000

50000

0

Time--> 6.70 6.80 6.90 7.00

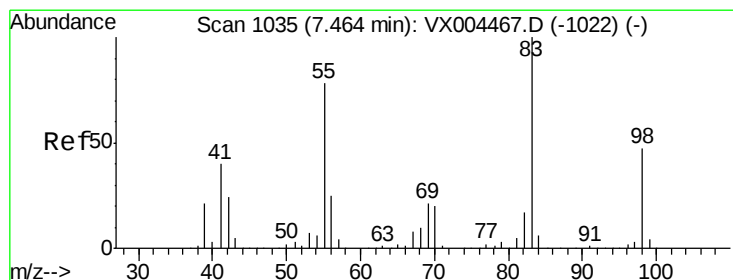
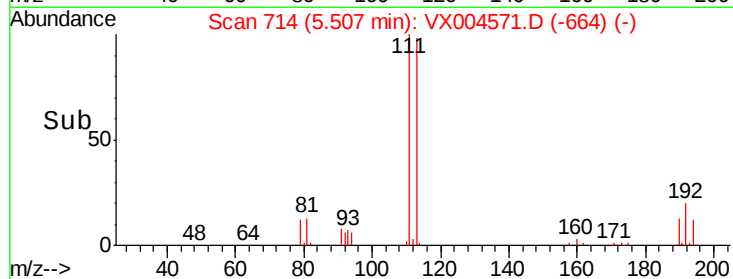
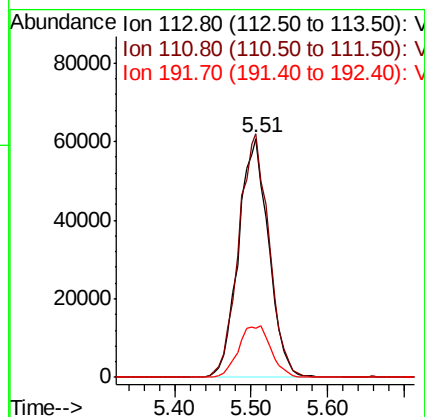
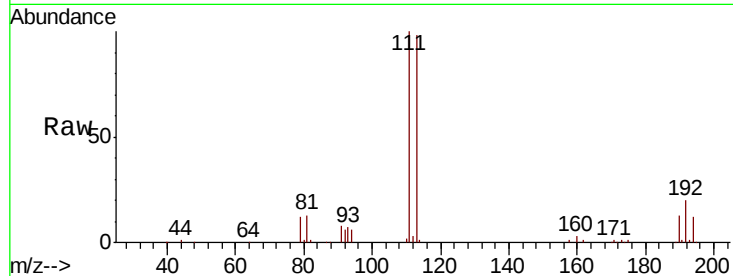




#35
 Dibromofluoromethane
 Concen: 45.70 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004571.D
 Acq: 15 Sep 2018 08:29

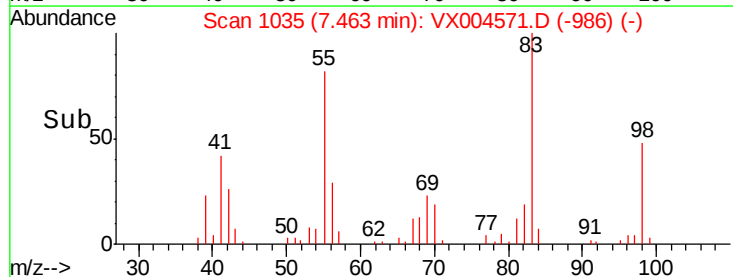
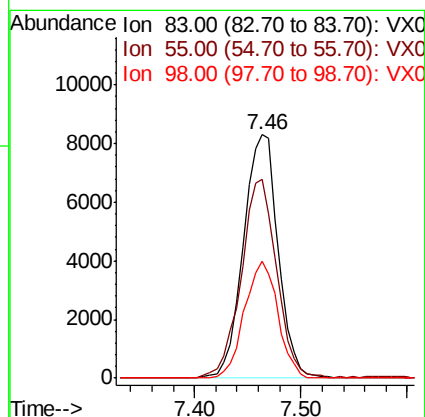
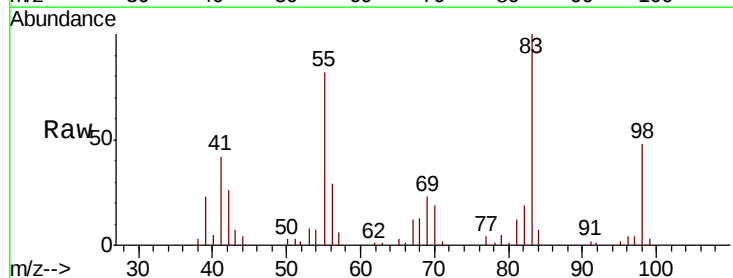
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 S13-0253

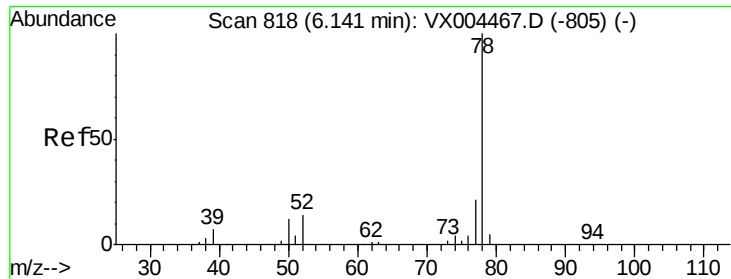
Tot Ion:113 Resp: 166514
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.4 123.6
 192 23.2 19.4 29.2



#39
 Methylcyclohexane
 Concen: 3.77 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. -0.00 min
 Lab File: VX004571.D
 Acq: 15 Sep 2018 08:29

Tgt Ion: 83 Resp: 19031
 Ion Ratio Lower Upper
 83 100
 55 81.5 61.0 91.4
 98 48.1 39.6 59.4





#40

Benzene

Concen: 10.70 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

Instrument :

MSVOA_X

ClientSampleId :

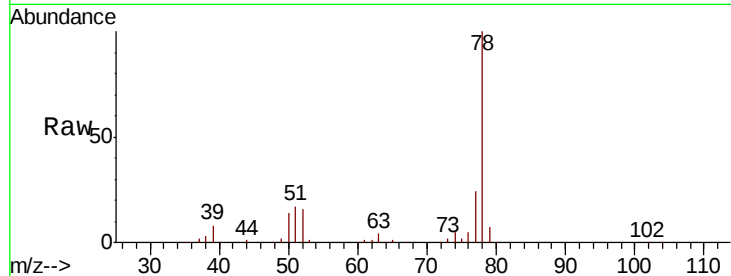
S13-0253

Tot Ion: 78 Resp: 153439

Ion Ratio Lower Upper

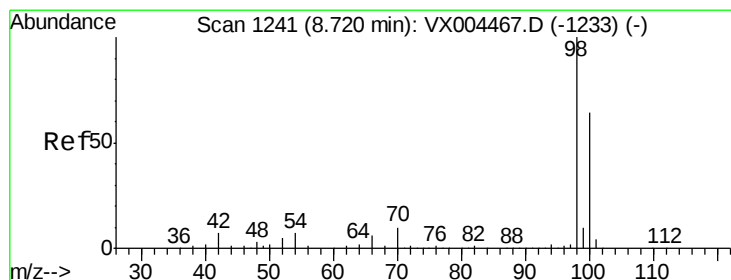
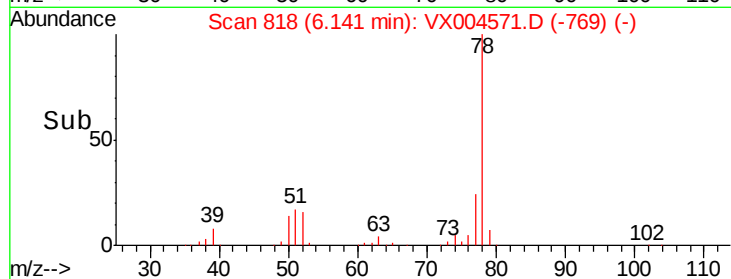
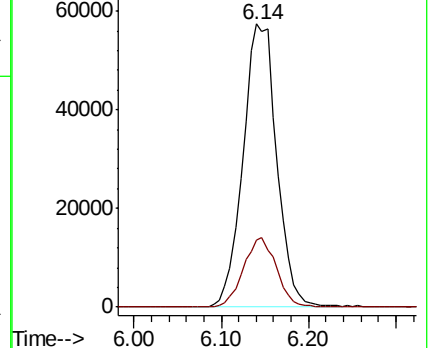
78 100

77 23.6 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 44.81 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004571.D

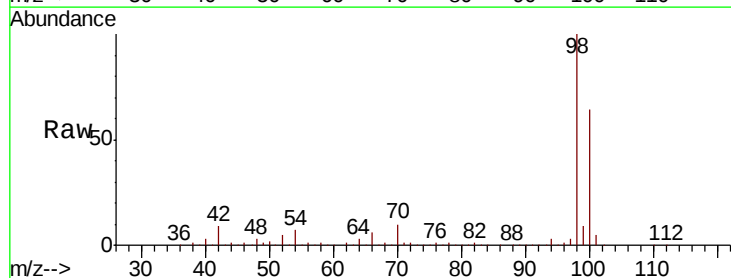
Acq: 15 Sep 2018 08:29

Tgt Ion: 98 Resp: 547431

Ion Ratio Lower Upper

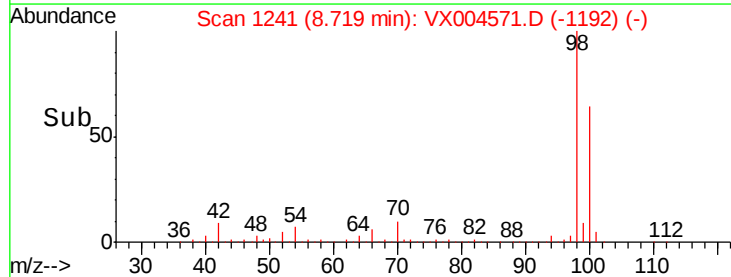
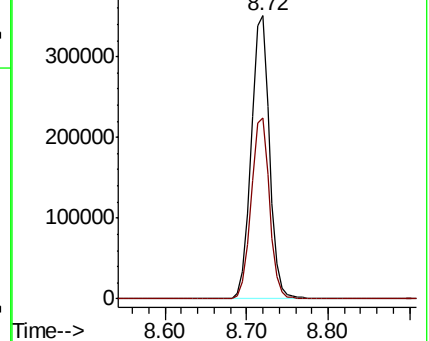
98 100

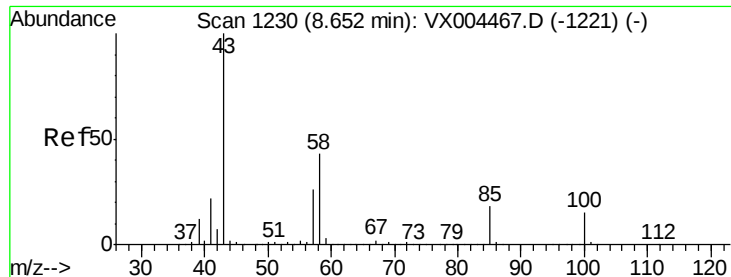
100 64.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 8.66 min Scan# 1231

Delta R.T. 0.01 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

Instrument :

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ClientSampleId :

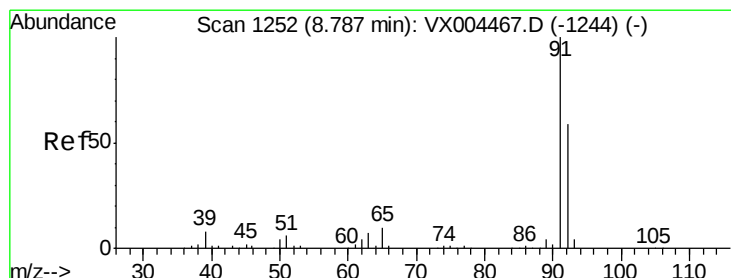
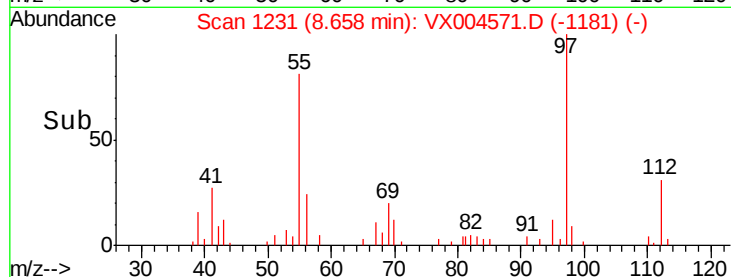
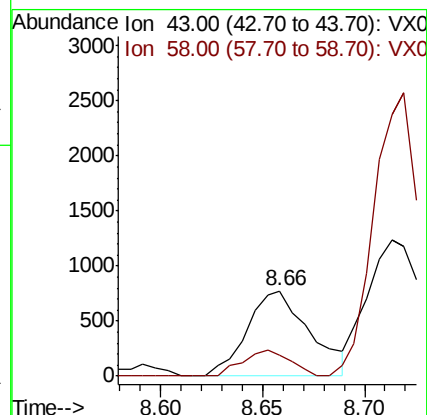
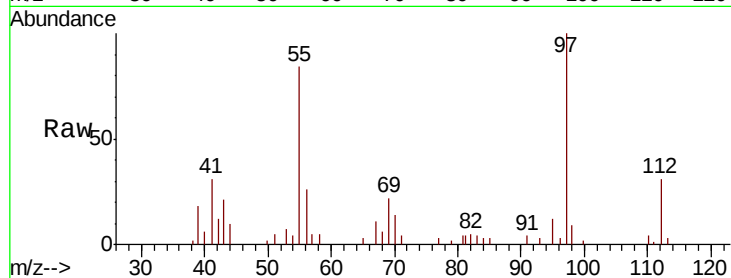
S13-0253

Tot Ion: 43 Resp: 1644

Ion Ratio Lower Upper

43 100

58 23.3 33.1 49.7#



#52

Toluene

Concen: 0.25 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX004571.D

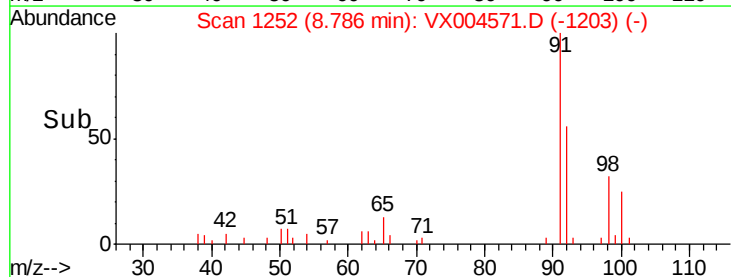
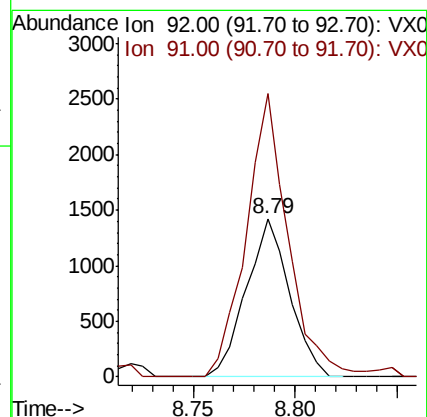
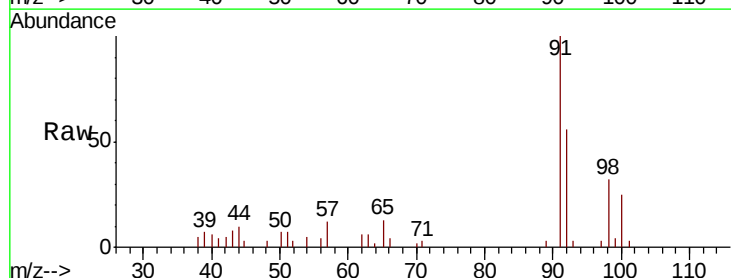
Acq: 15 Sep 2018 08:29

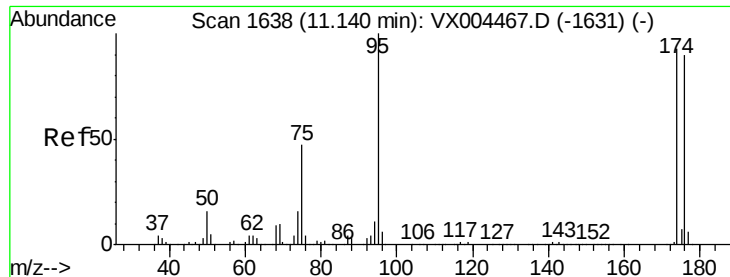
Tgt Ion: 92 Resp: 2101

Ion Ratio Lower Upper

92 100

91 172.7 136.4 204.6





#62

4-Bromofluorobenzene

Concen: 46.14 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

Instrument :

MSVOA_X

ClientSampled :

S13-0253

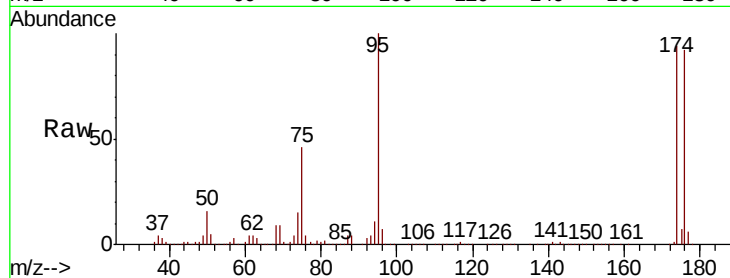
Tot Ion: 95 Resp: 201231

Ion Ratio Lower Upper

95 100

174 92.0 0.0 185.2

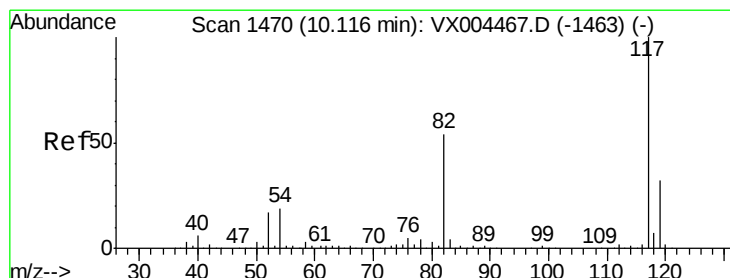
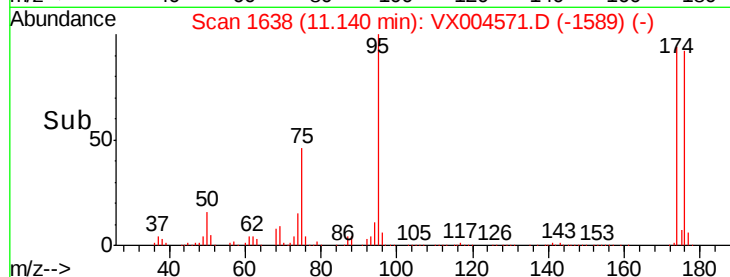
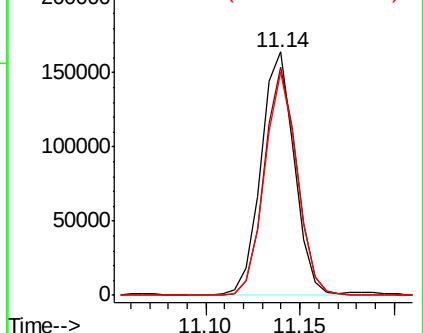
176 89.8 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

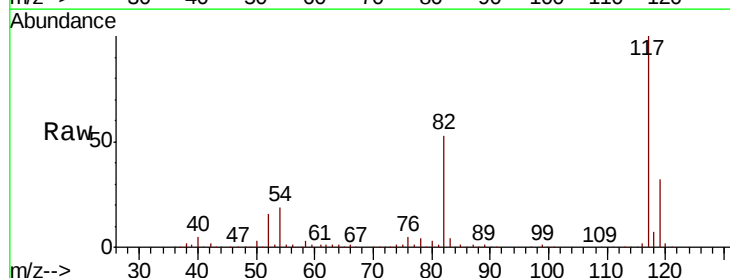
Tgt Ion: 117 Resp: 366270

Ion Ratio Lower Upper

117 100

82 52.7 47.8 71.6

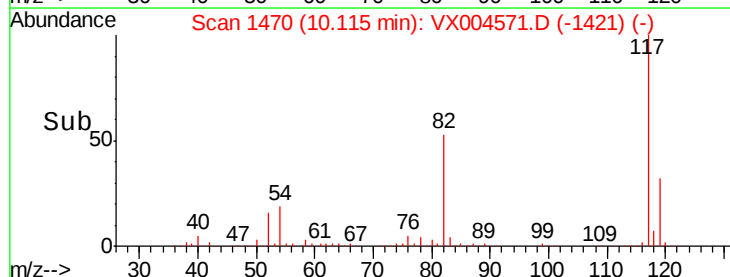
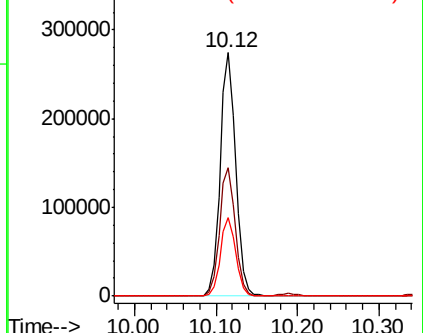
119 32.2 29.3 43.9

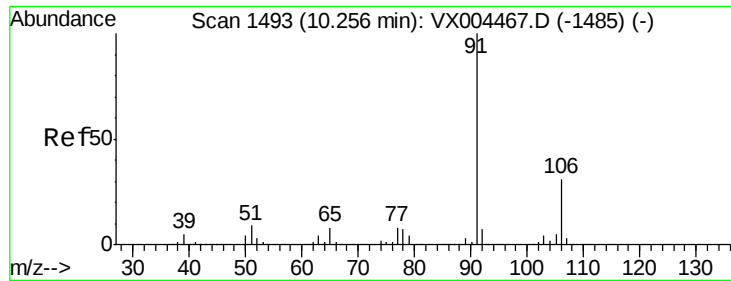


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

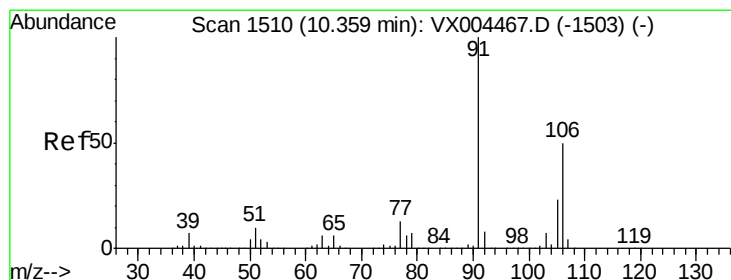
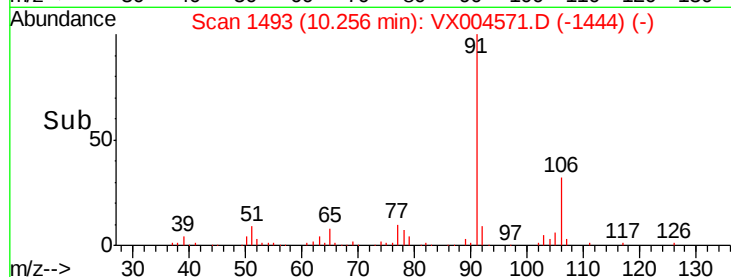
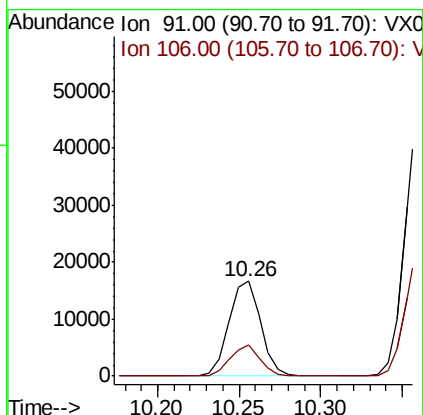
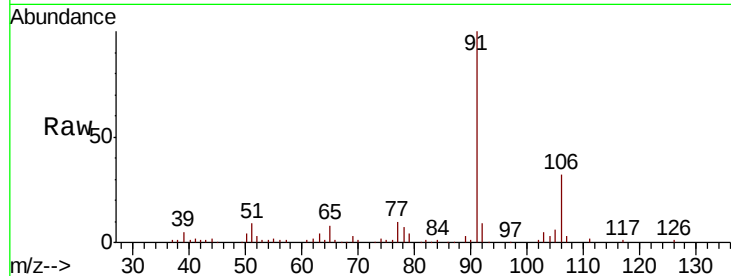




#67
Ethyl Benzene
Concen: 1.54 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

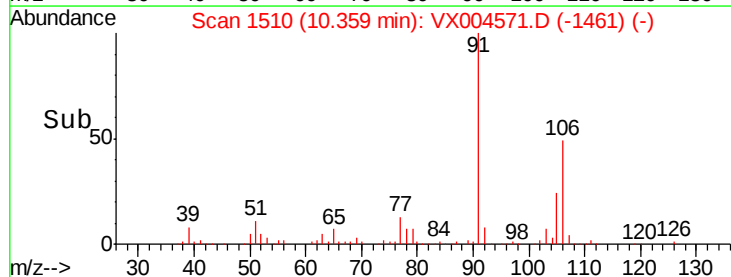
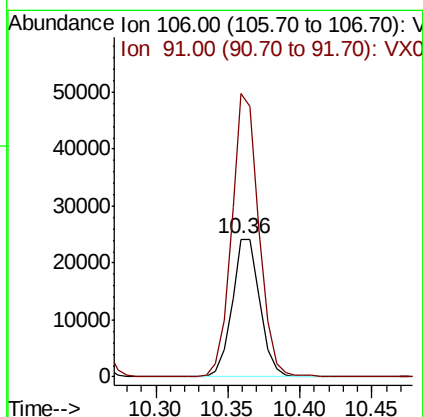
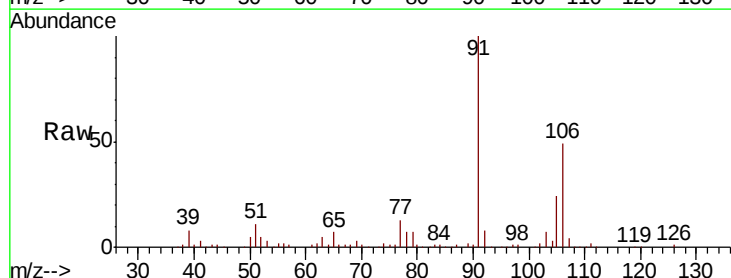
Instrument :
MSVOA_X
ClientSampled :
S13-0253

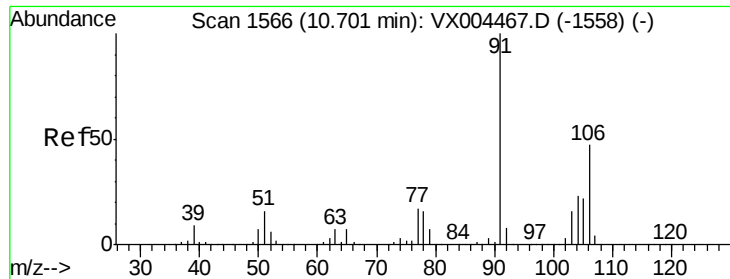
Tot Ion: 91 Resp: 22722
Ion Ratio Lower Upper
91 100
106 32.3 25.9 38.9



#68
m/p-Xylenes
Concen: 5.73 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

Tgt Ion: 106 Resp: 32679
Ion Ratio Lower Upper
106 100
91 201.2 157.1 235.7

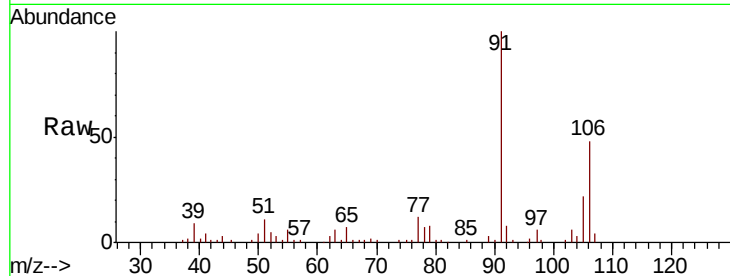




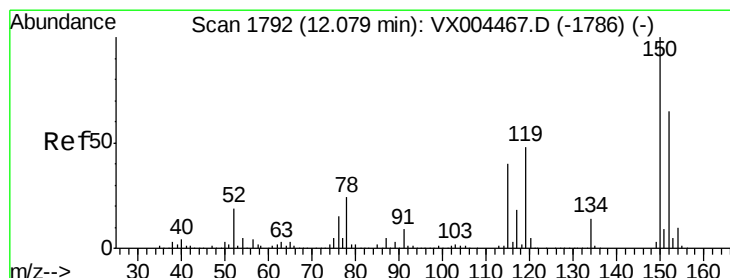
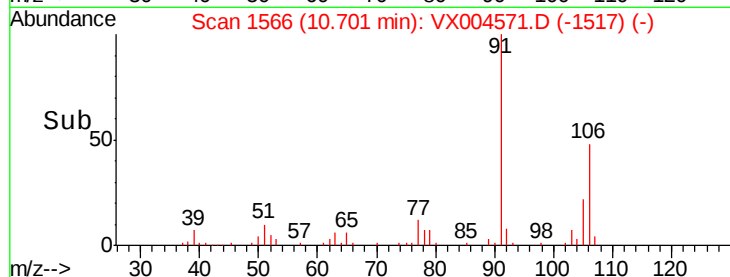
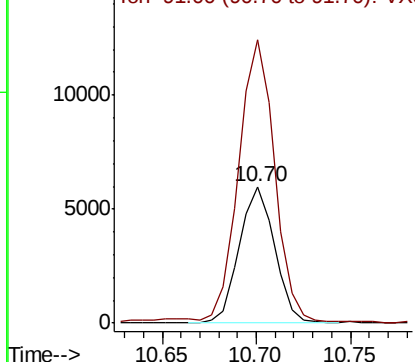
#69
o-Xylene
Concen: 1.43 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

Instrument :
MSVOA_X
ClientSampled :
S13-0253

Tot Ion:106 Resp: 7823
Ion Ratio Lower Upper
106 100
91 218.7 105.1 315.1

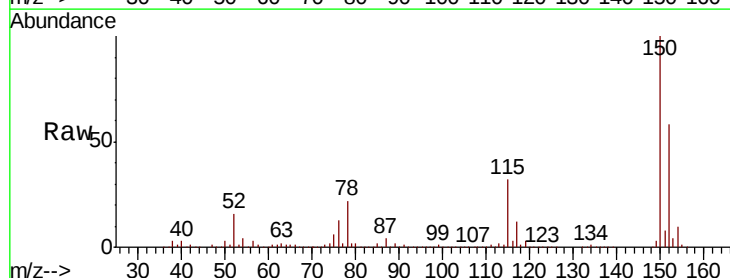


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

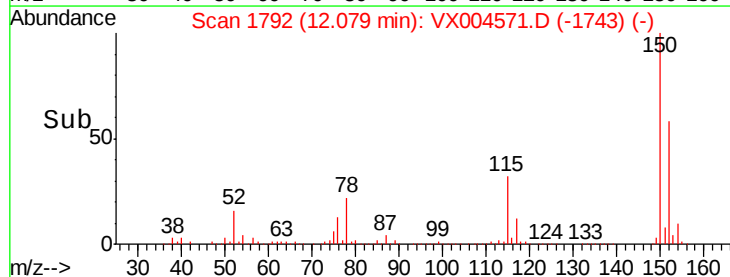
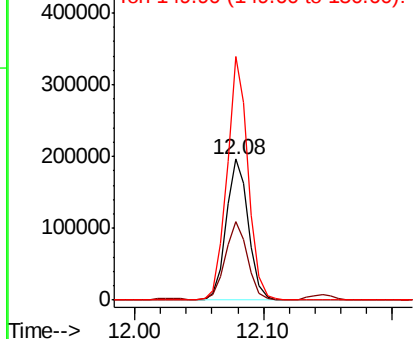


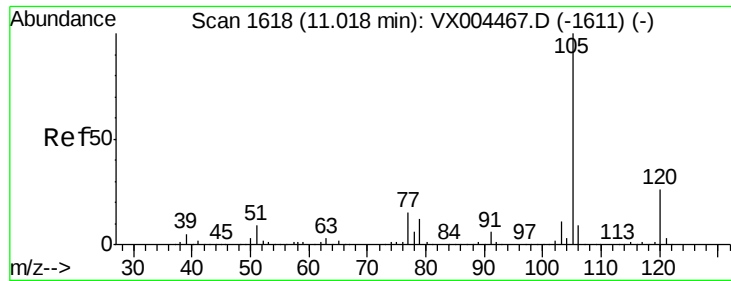
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

Tgt Ion:152 Resp: 236238
Ion Ratio Lower Upper
152 100
115 56.1 39.0 117.0
150 164.3 0.0 351.0



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





#73

Isopropylbenzene

Concen: 1.55 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX004571.D

Acq: 15 Sep 2018 08:29

Instrument :

MSVOA_X

ClientSampleId :

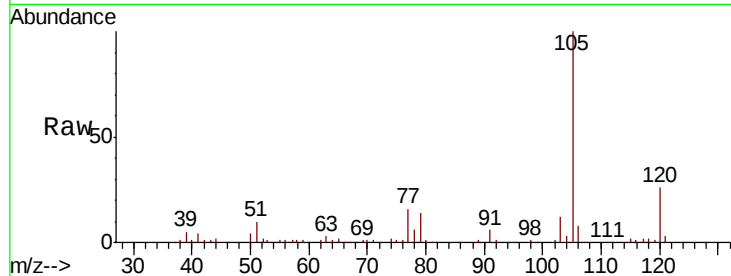
S13-0253

Tot Ion:105 Resp: 24173

Ion Ratio Lower Upper

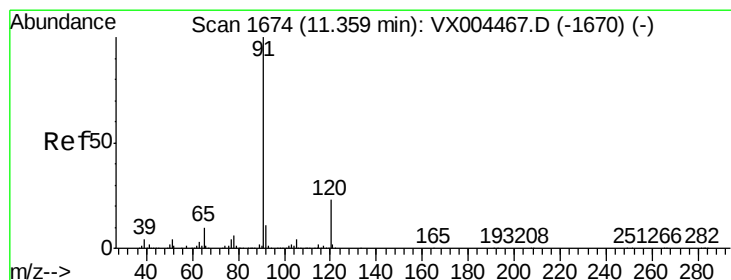
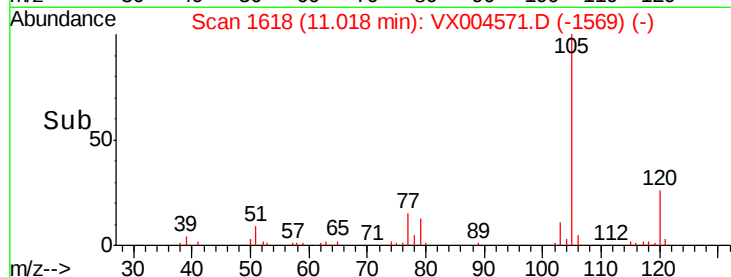
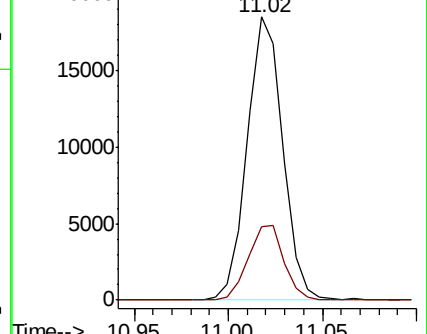
105 100

120 26.4 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 2.18 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX004571.D

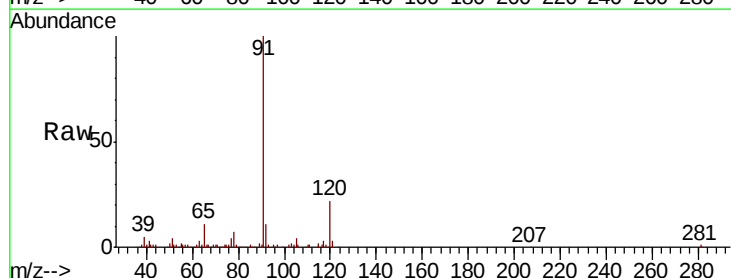
Acq: 15 Sep 2018 08:29

Tgt Ion: 91 Resp: 39031

Ion Ratio Lower Upper

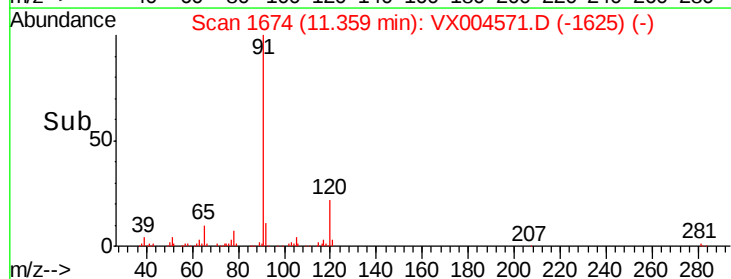
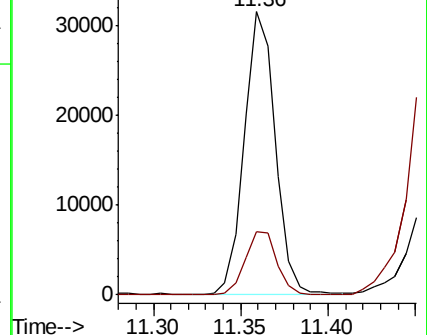
91 100

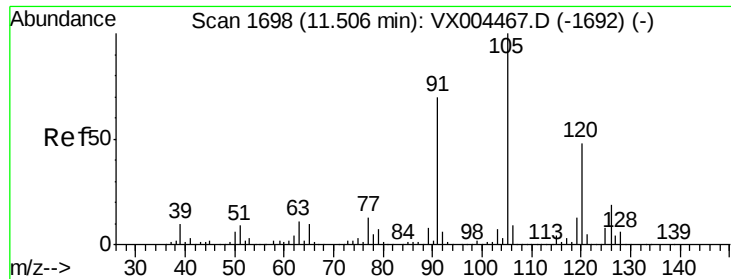
120 22.8 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

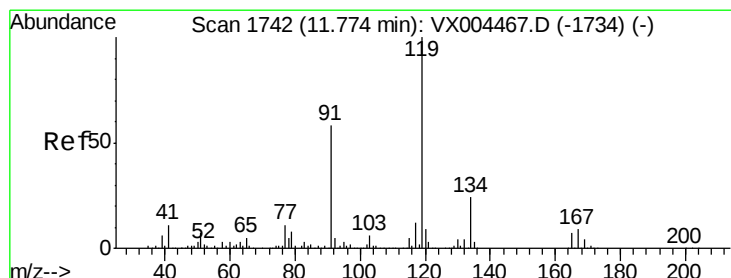
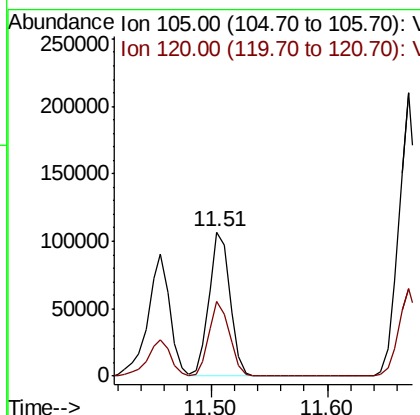
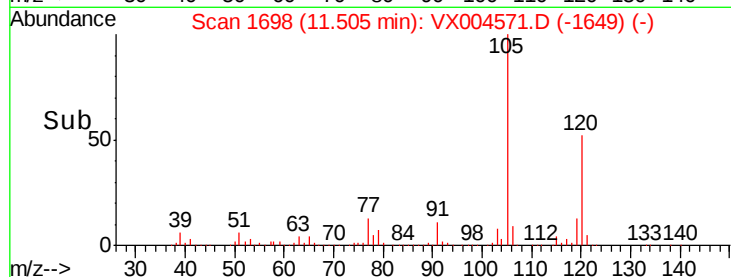
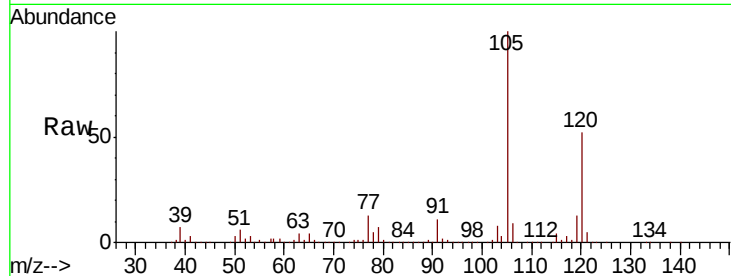




#80
 1,3,5-Trimethylbenzene
 Concen: 10.17 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004571.D
 Acq: 15 Sep 2018 08:29

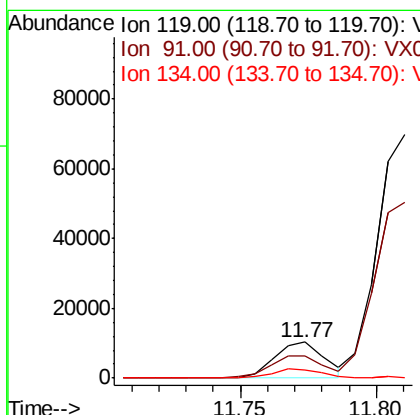
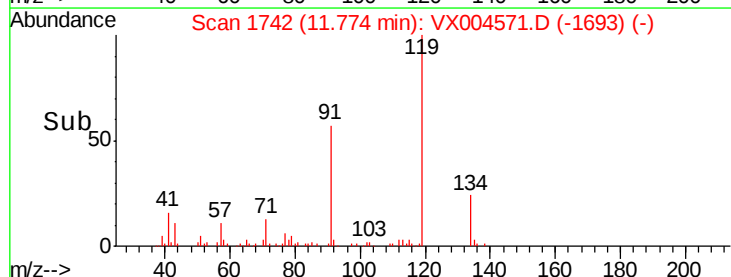
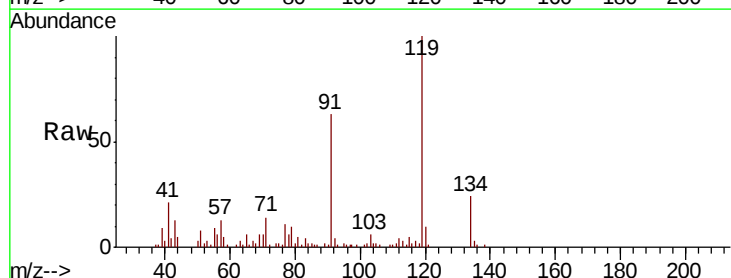
Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0253

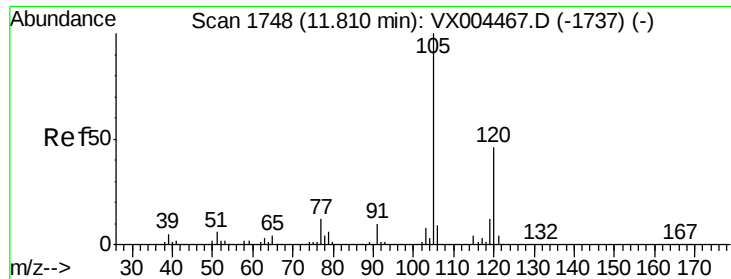
Tot Ion:105 Resp: 132992
 Ion Ratio Lower Upper
 105 100
 120 50.9 25.6 76.8



#83
 tert-Butylbenzene
 Concen: 1.05 ug/l
 RT: 11.77 min Scan# 1742
 Delta R.T. -0.00 min
 Lab File: VX004571.D
 Acq: 15 Sep 2018 08:29

Tgt Ion:119 Resp: 13032
 Ion Ratio Lower Upper
 119 100
 91 64.9 27.0 81.0
 134 25.6 11.7 35.1

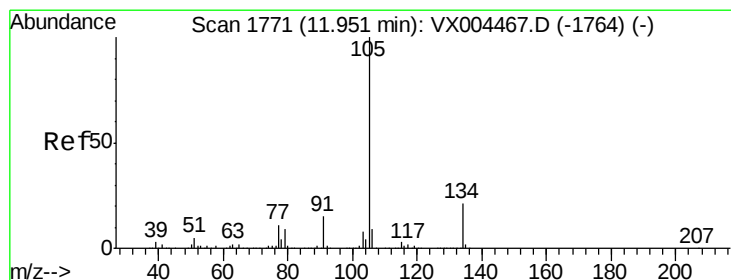
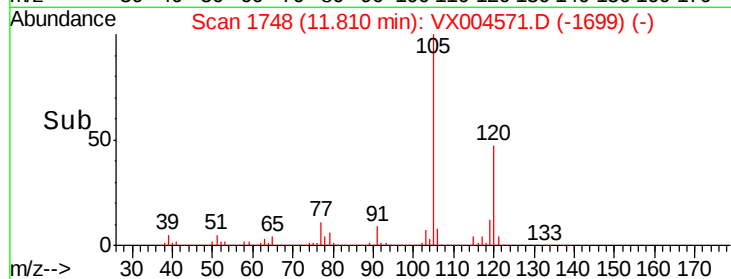
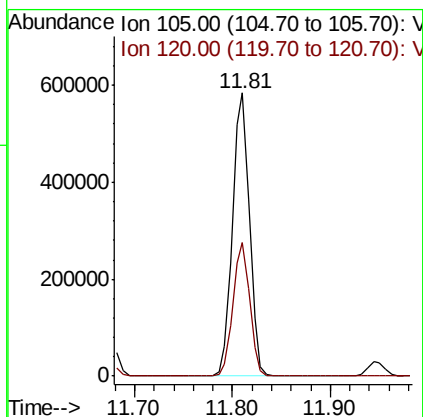
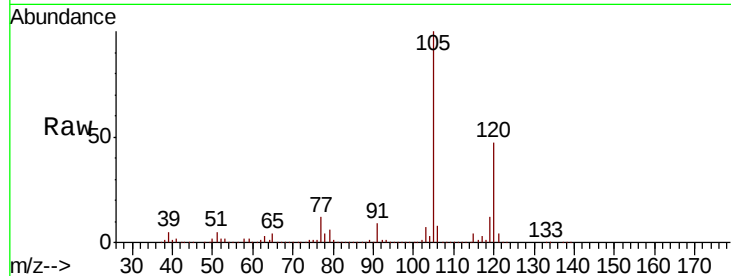




#84
 1,2,4-Trimethylbenzene
 Concen: 52.61 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004571.D
 Acq: 15 Sep 2018 08:29

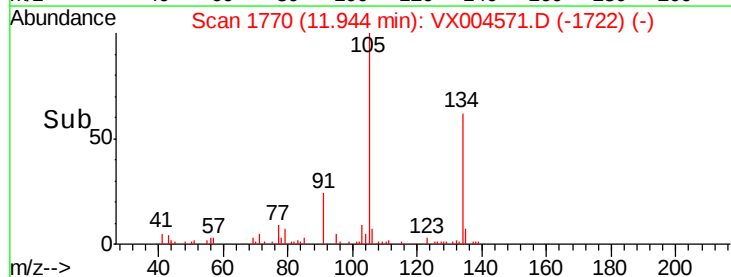
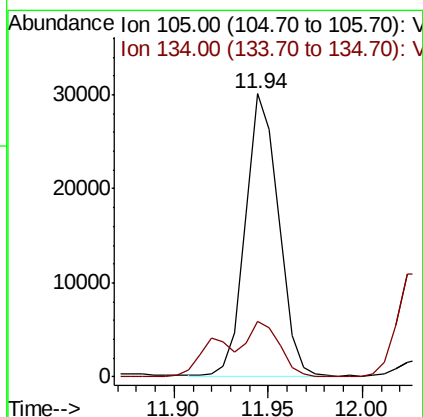
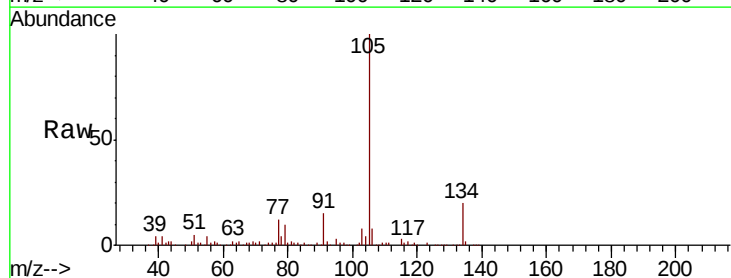
Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0253

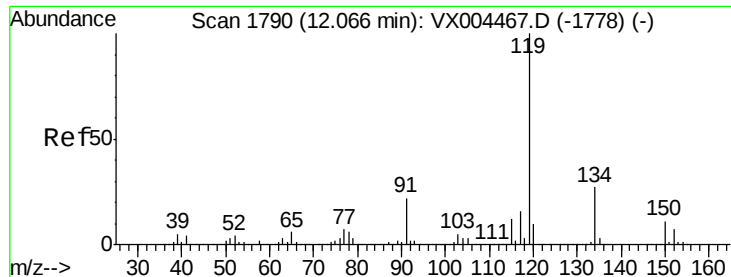
Tot Ion:105 Resp: 702536
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.2 69.6



#85
 sec-Butylbenzene
 Concen: 2.30 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.01 min
 Lab File: VX004571.D
 Acq: 15 Sep 2018 08:29

Tgt Ion:105 Resp: 36574
 Ion Ratio Lower Upper
 105 100
 134 19.2 10.5 31.5

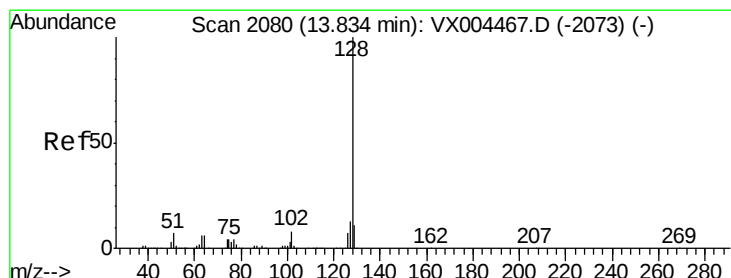
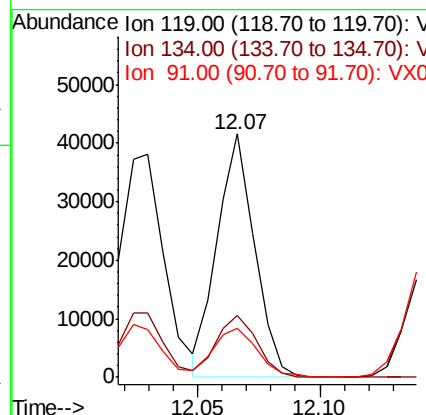
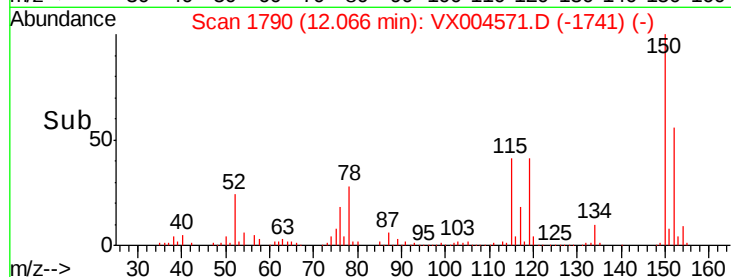
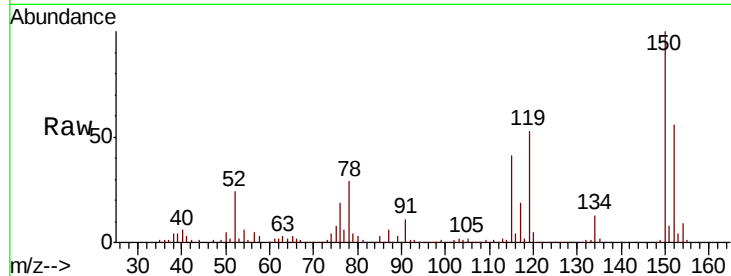




#86
p-Isopropyltoluene
Concen: 3.15 ug/l
RT: 12.07 min Scan# 1790
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

Instrument :
MSVOA_X
ClientSampleId :
S13-0253

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.5	13.4	40.2
91	23.0	10.9	32.7



#95
Naphthalene
Concen: 16.70 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX004571.D
Acq: 15 Sep 2018 08:29

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	12.1	8.6	12.8

