

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004570.D
 Acq On : 15 Sep 2018 08:02
 Operator : JC/MD
 Sample : J4925-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0243

Quant Time: Sep 17 00:56:10 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	270286	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	383265	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	346233	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204873	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	178057	51.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.18%	
35) Dibromofluoromethane	5.51	113	154621	44.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.18%	
50) Toluene-d8	8.71	98	516927	43.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.90%	
62) 4-Bromofluorobenzene	11.14	95	185189	44.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.22%	

Target Compounds

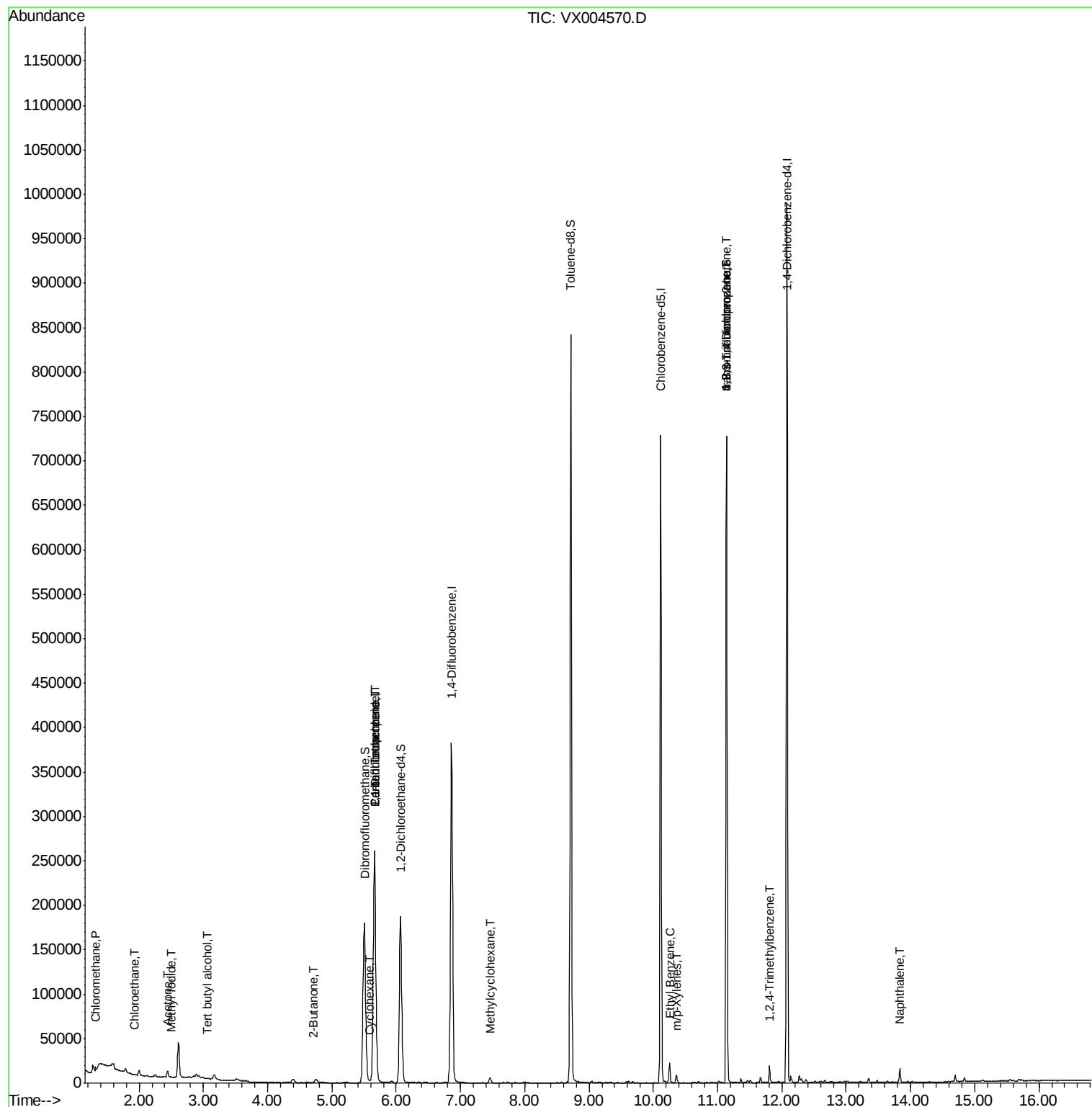
						Qvalue
3) Chloromethane	1.32	50	3402	0.98	ug/l	94
5) Bromomethane	1.66	94	687	Below	Cal	91
6) Chloroethane	1.93	64	766	0.33	ug/l #	44
10) Methyl Iodide	2.51	142	355	4.35	ug/l #	89
11) Tert butyl alcohol	3.07	59	832	1.00	ug/l #	72
16) Acetone	2.45	43	7483	4.40	ug/l	95
25) 2-Butanone	4.70	43	584	0.22	ug/l #	47
31) Cyclohexane	5.59	56	1708	0.34	ug/l #	76
36) 1,1-Dichloropropene	5.67	75	17311	3.72	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23240	5.11	ug/l #	15
39) Methylcyclohexane	7.46	83	2514	0.52	ug/l	86
67) Ethyl Benzene	10.26	91	12827	0.92	ug/l	99
68) m/p-Xylenes	10.36	106	2050	0.38	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	86672	21.03	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	86672	67.02	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	8700	0.75	ug/l	98
95) Naphthalene	13.83	128	10700	0.77	ug/l	99

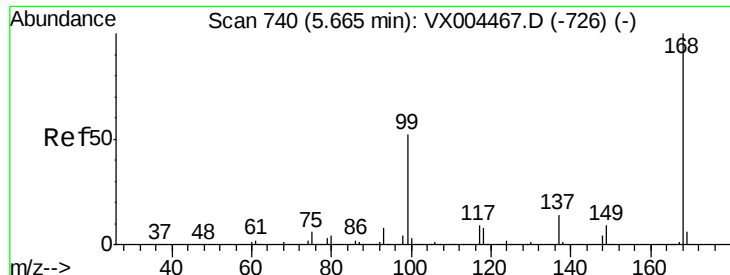
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampled :

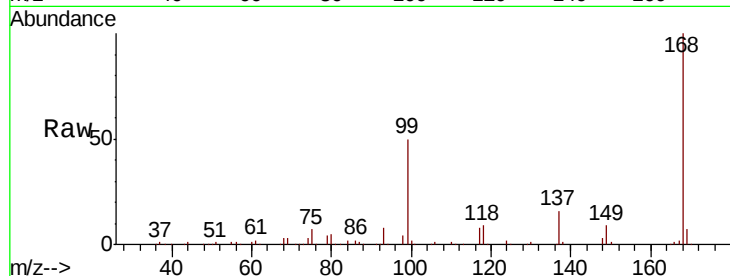
S13-0243

Tot Ion:168 Resp: 270286

Ion Ratio Lower Upper

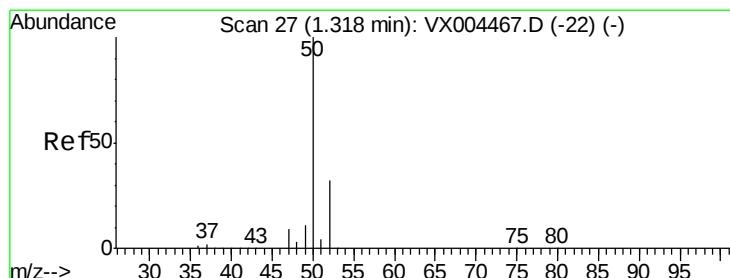
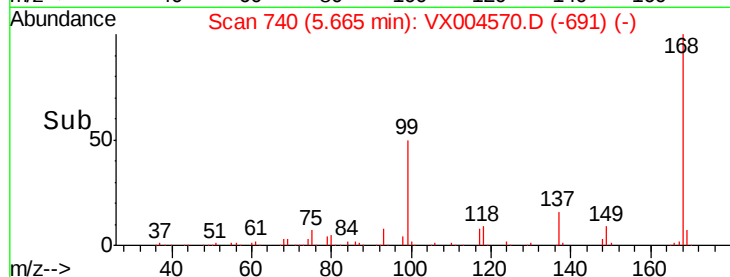
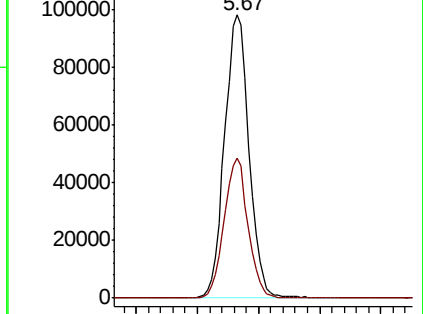
168 100

99 49.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.98 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004570.D

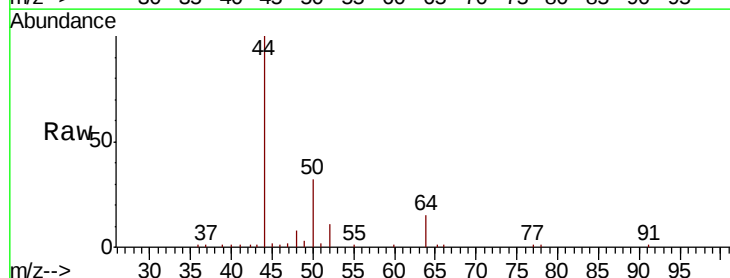
Acq: 15 Sep 2018 08:02

Tgt Ion: 50 Resp: 3402

Ion Ratio Lower Upper

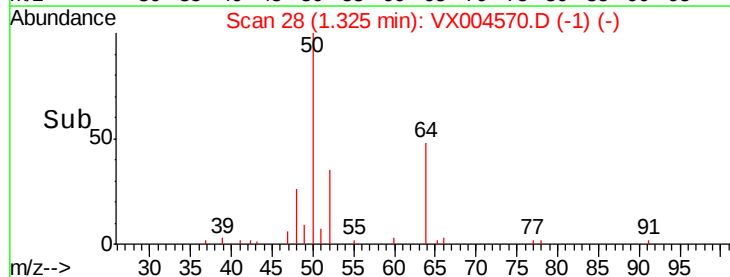
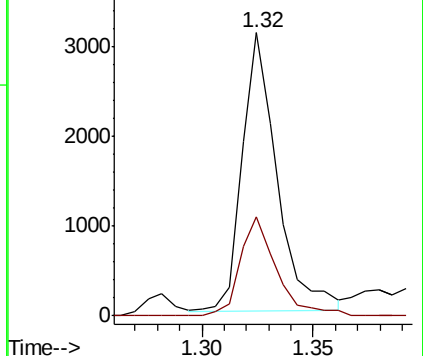
50 100

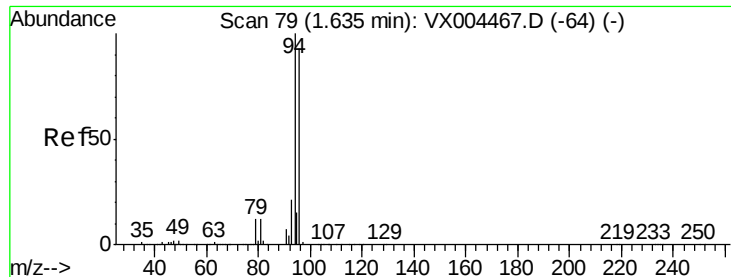
52 35.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampled :

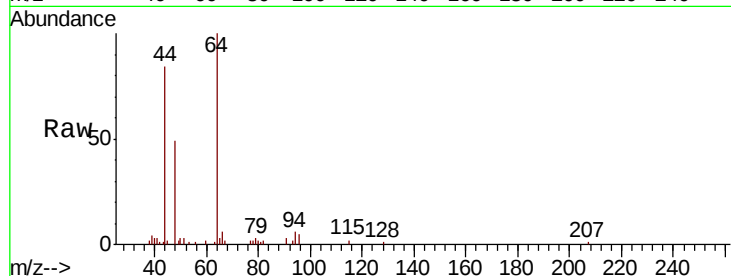
S13-0243

Tot Ion: 94 Resp: 687

Ion Ratio Lower Upper

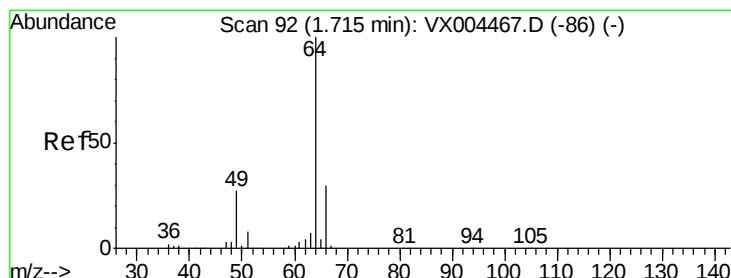
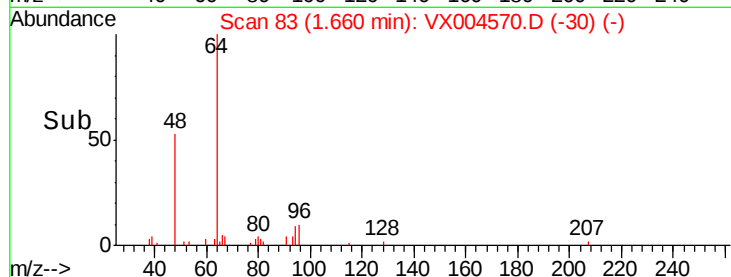
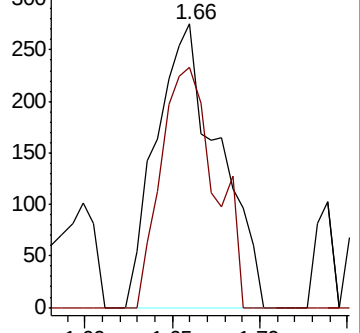
94 100

96 84.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.33 ug/l

RT: 1.93 min Scan# 127

Delta R.T. 0.21 min

Lab File: VX004570.D

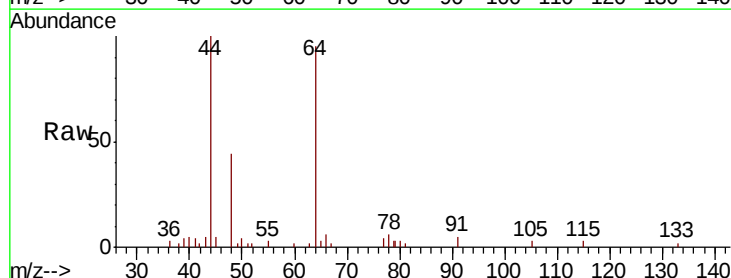
Acq: 15 Sep 2018 08:02

Tgt Ion: 64 Resp: 766

Ion Ratio Lower Upper

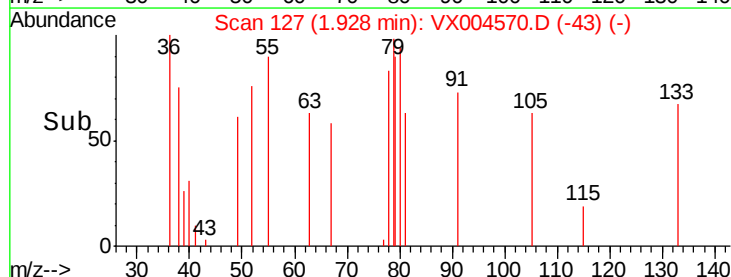
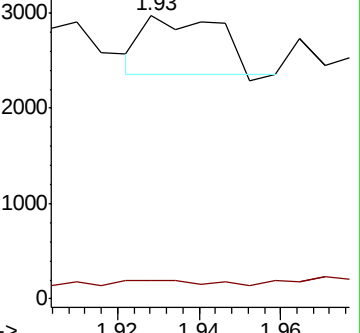
64 100

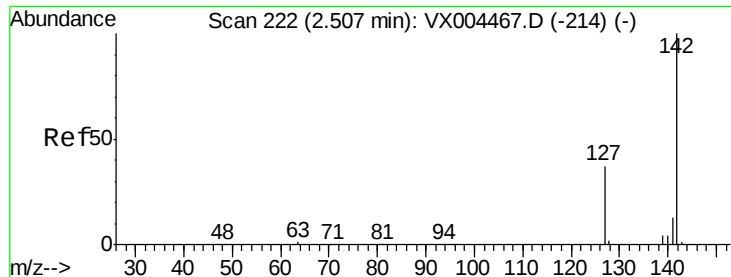
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

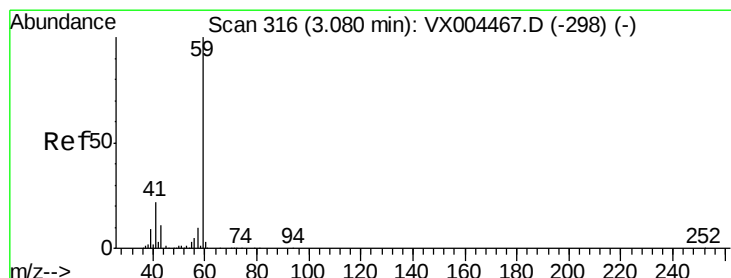
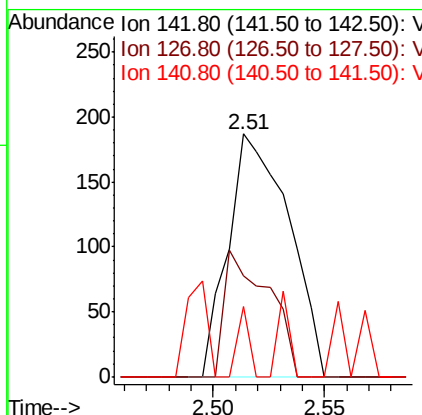
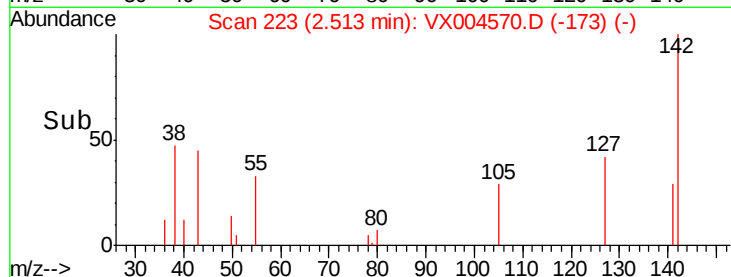
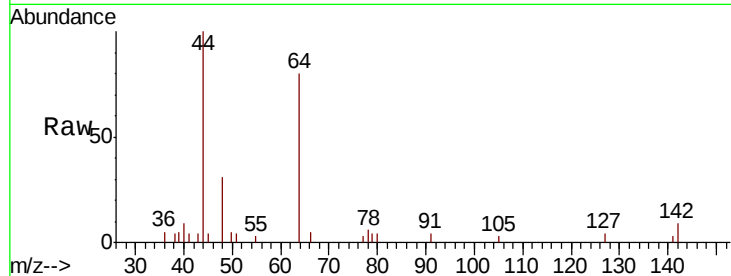




#10
Methvl Iodide
Concen: 4.35 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004570.D
Acq: 15 Sep 2018 08:02

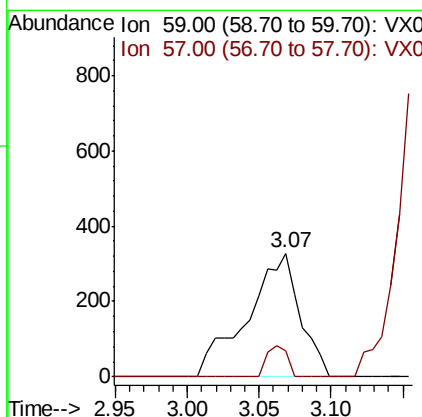
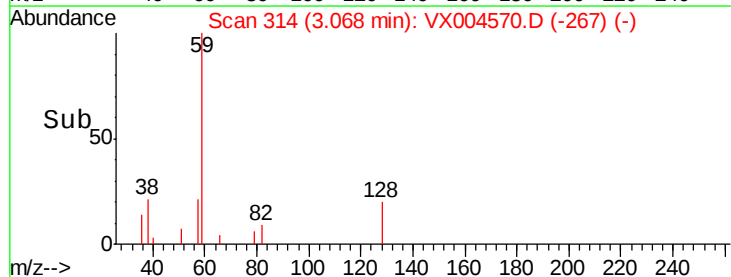
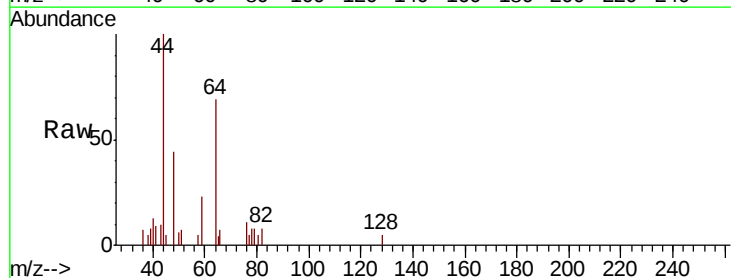
Instrument :
MSVOA_X
ClientSampleId :
S13-0243

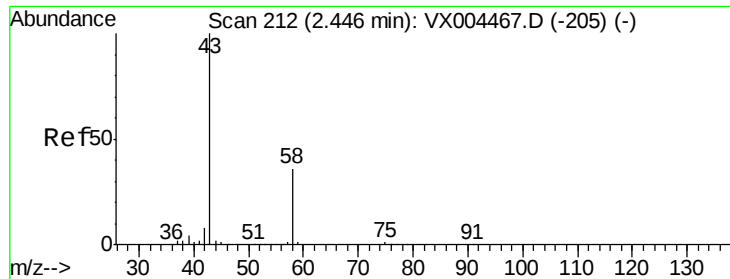
Tot Ion:142 Resp: 355
Ion Ratio Lower Upper
142 100
127 37.7 33.8 50.6
141 5.6 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.00 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004570.D
Acq: 15 Sep 2018 08:02

Tgt Ion: 59 Resp: 832
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 4.40 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampled :

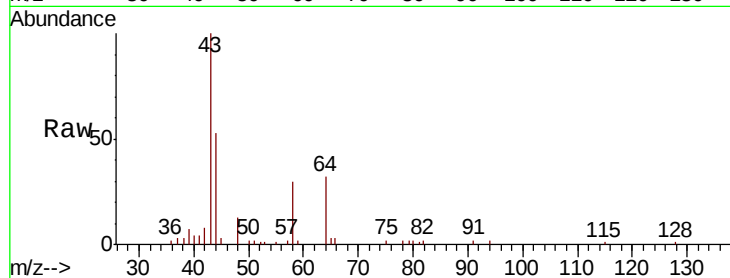
S13-0243

Tot Ion: 43 Resp: 7483

Ion Ratio Lower Upper

43 100

58 30.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

5000

4000

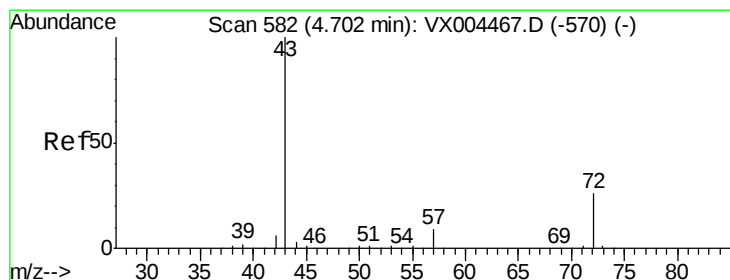
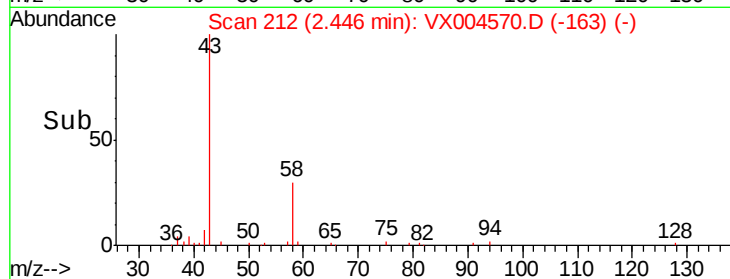
3000

2000

1000

0

Time-->



#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004570.D

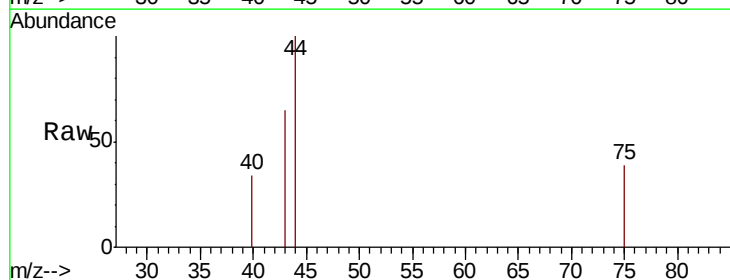
Acq: 15 Sep 2018 08:02

Tgt Ion: 43 Resp: 584

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

250

200

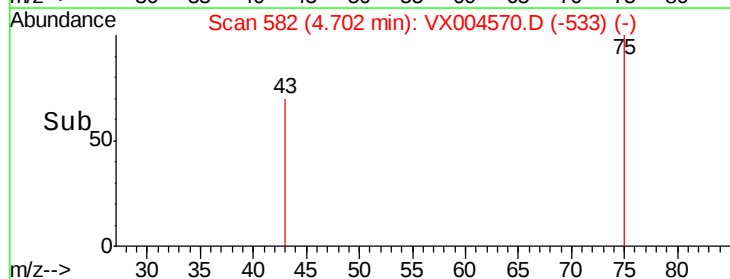
150

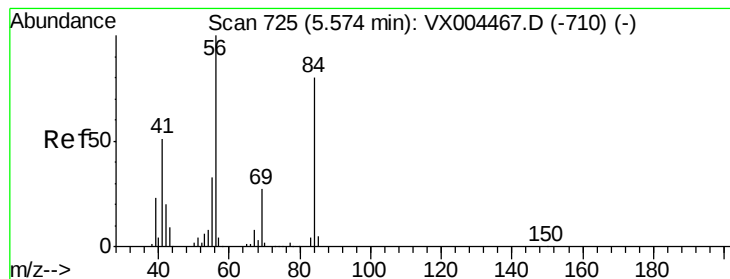
100

50

0

Time-->





#31

Cyclohexane

Concen: 0.34 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampleId :

S13-0243

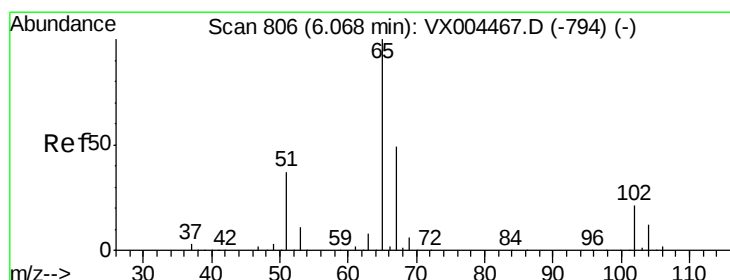
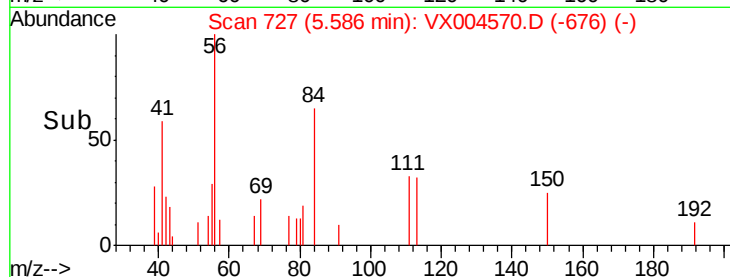
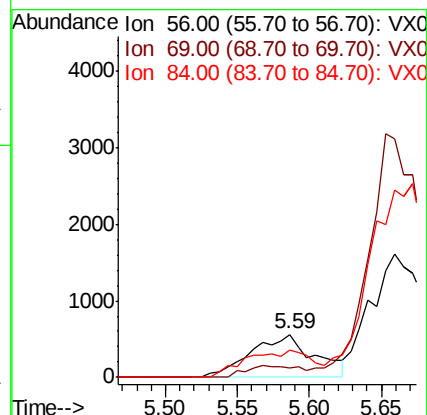
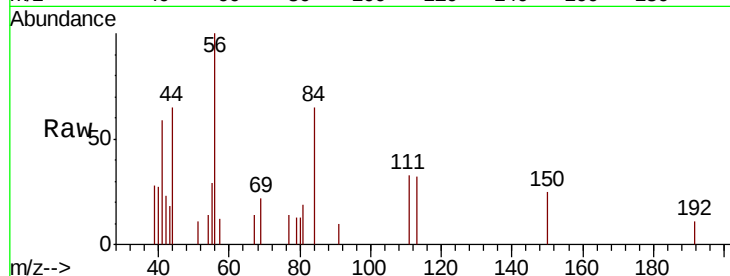
Tot Ion: 56 Resp: 1708

Ion Ratio Lower Upper

56 100

69 21.5 25.4 38.2#

84 65.2 71.4 107.2#



#33

1,2-Dichloroethane-d4

Concen: 51.09 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX004570.D

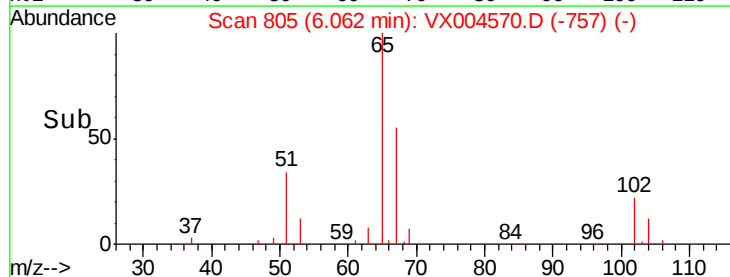
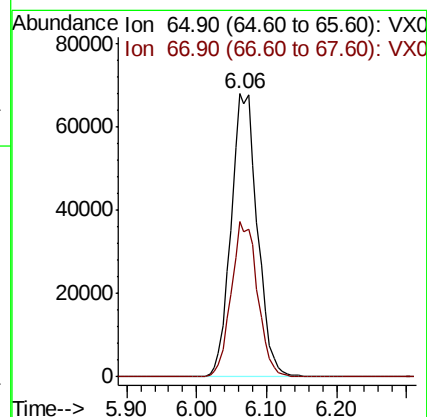
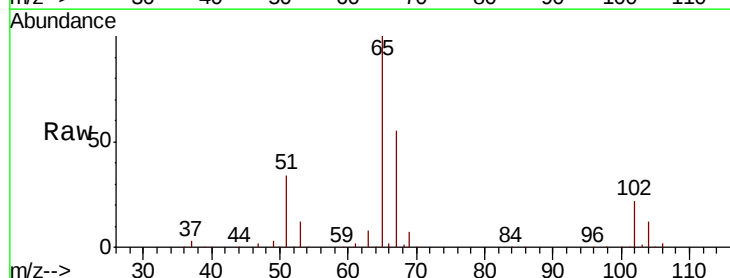
Acq: 15 Sep 2018 08:02

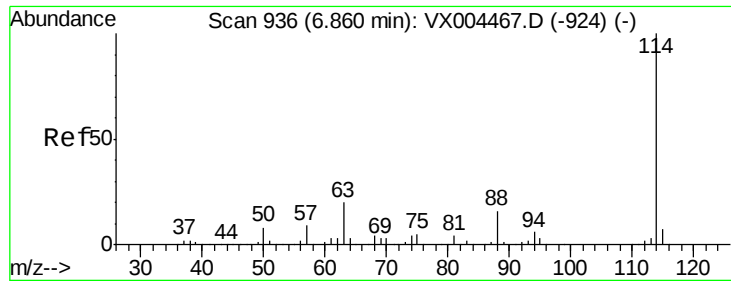
Tgt Ion: 65 Resp: 178057

Ion Ratio Lower Upper

65 100

67 54.9 0.0 106.8

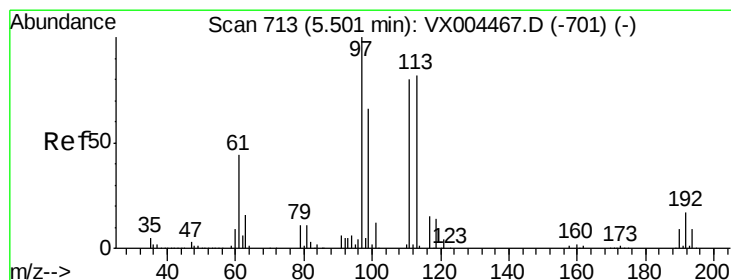
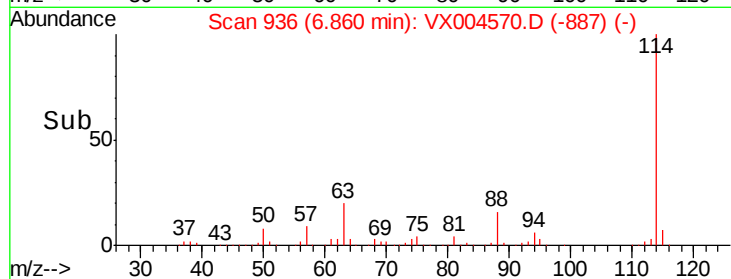
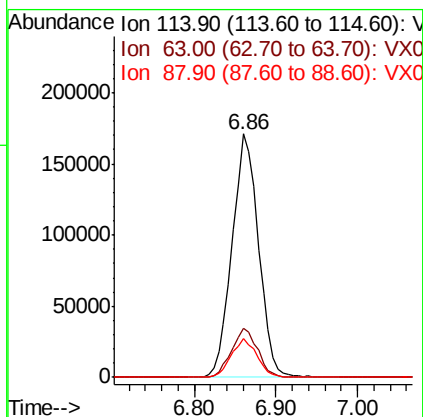
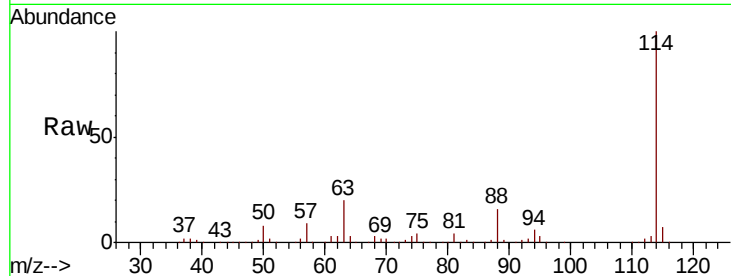




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004570.D
 Acq: 15 Sep 2018 08:02

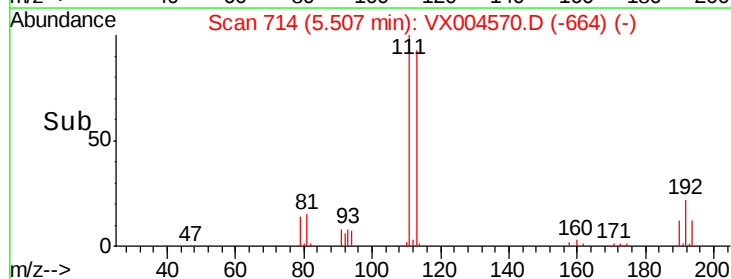
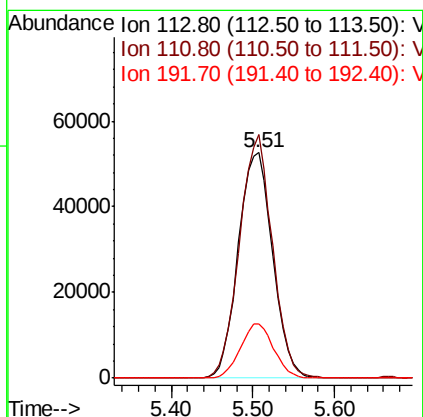
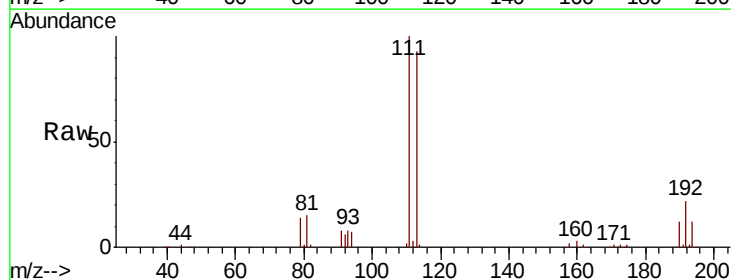
Instrument :
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 S13-0243

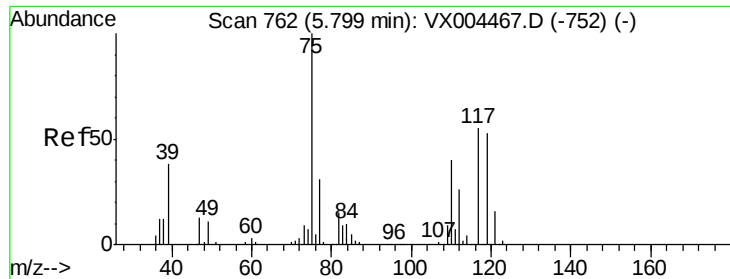
Tot Ion:114 Resp: 383265
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.8 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 44.09 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004570.D
 Acq: 15 Sep 2018 08:02

Tgt Ion:113 Resp: 154621
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.4 123.6
 192 23.3 19.4 29.2

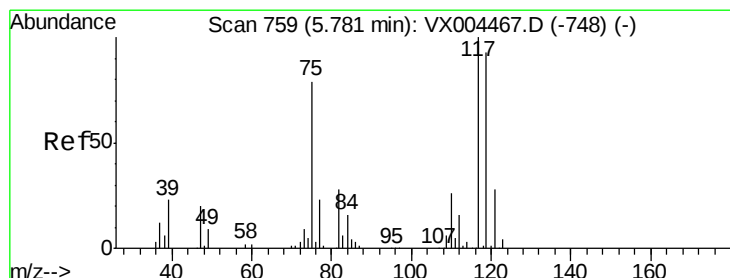
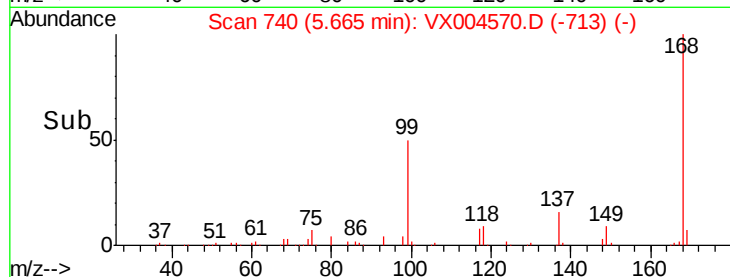
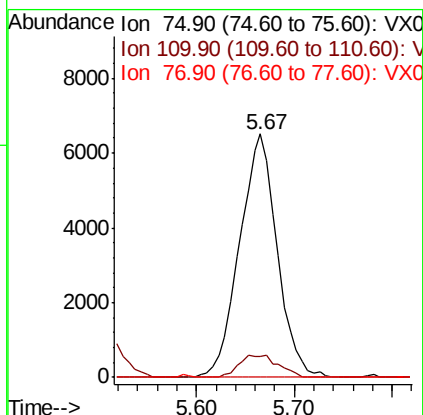
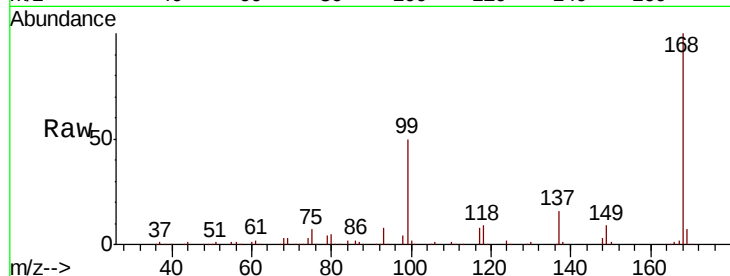




#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004570.D
 Acq: 15 Sep 2018 08:02

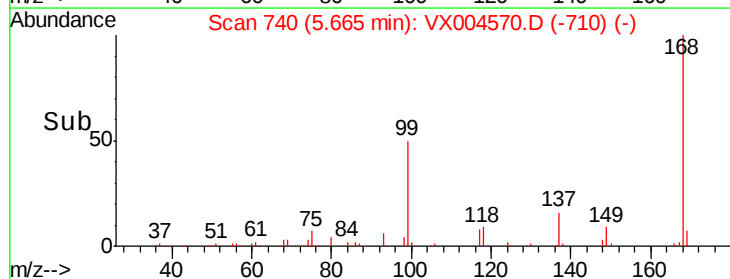
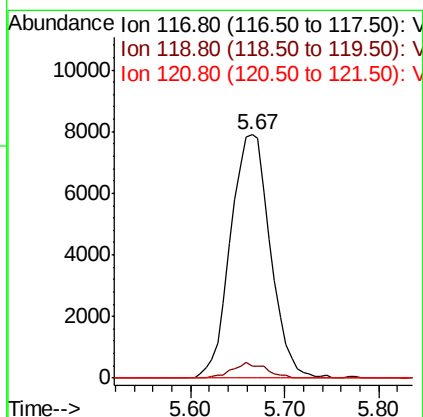
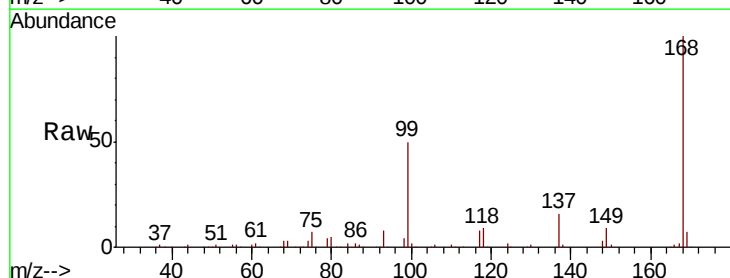
Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0243

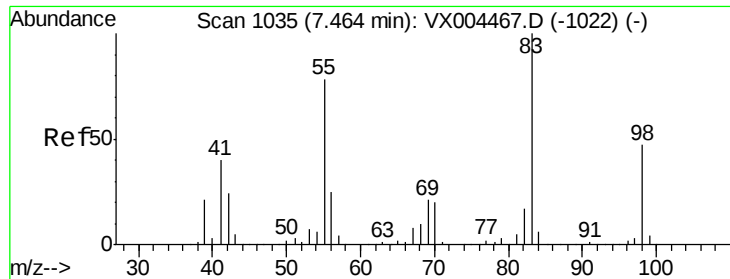
Tot Ion: 75 Resp: 17311
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.0 54.0#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.11 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004570.D
 Acq: 15 Sep 2018 08:02

Tgt Ion: 117 Resp: 23240
 Ion Ratio Lower Upper
 117 100
 119 4.9 78.8 118.2#
 121 0.0 24.9 37.3#

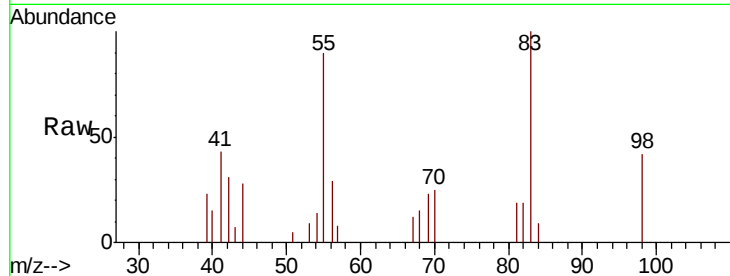




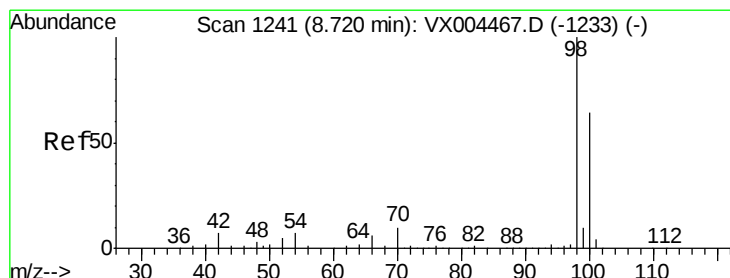
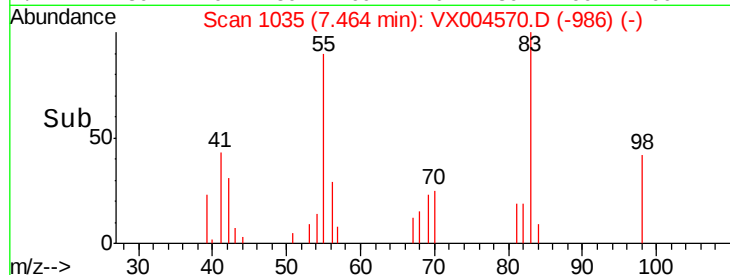
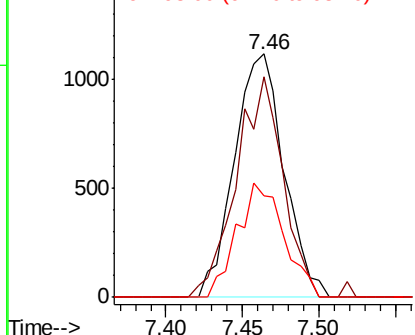
#39
Methvlcvclohexane
Concen: 0.52 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX004570.D
Acq: 15 Sep 2018 08:02

Instrument :
MSVOA_X
ClientSampled :
S13-0243

Tot Ion: 83 Resp: 2514
Ion Ratio Lower Upper
83 100
55 90.3 61.0 91.4
98 41.6 39.6 59.4

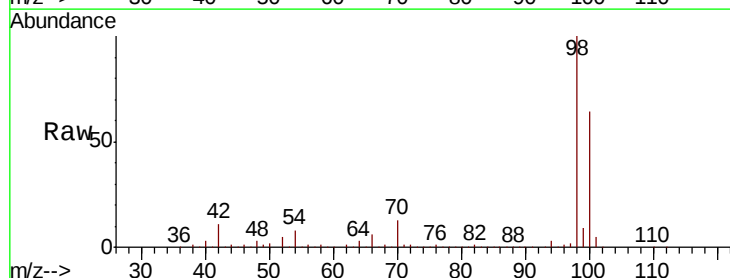


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

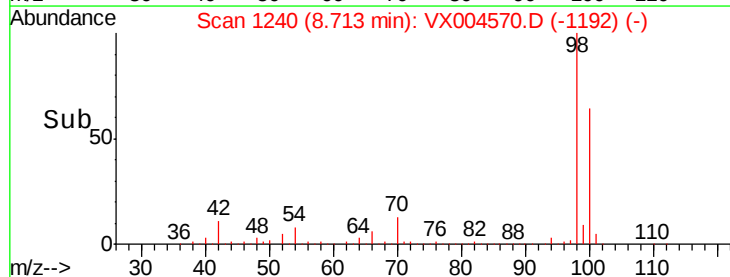
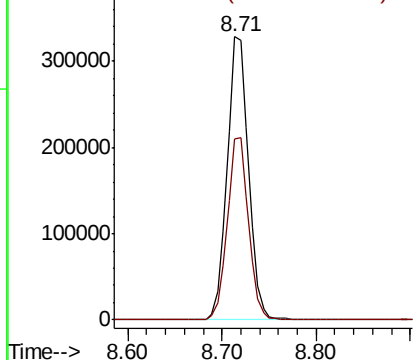


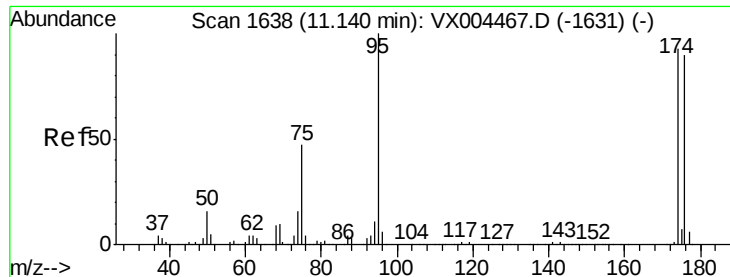
#50
Toluene-d8
Concen: 43.95 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004570.D
Acq: 15 Sep 2018 08:02

Tgt Ion: 98 Resp: 516927
Ion Ratio Lower Upper
98 100
100 63.8 52.9 79.3



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





#62

4-Bromofluorobenzene

Concen: 44.11 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampleId :

S13-0243

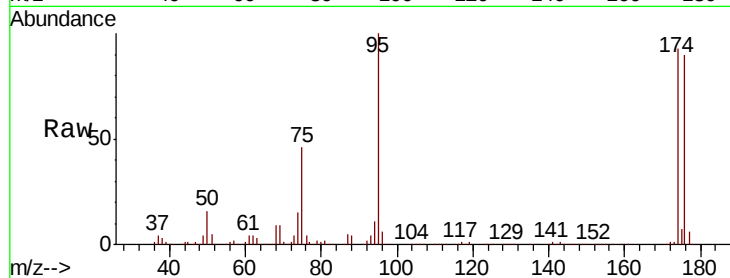
Tot Ion: 95 Resp: 185189

Ion Ratio Lower Upper

95 100

174 91.2 0.0 185.2

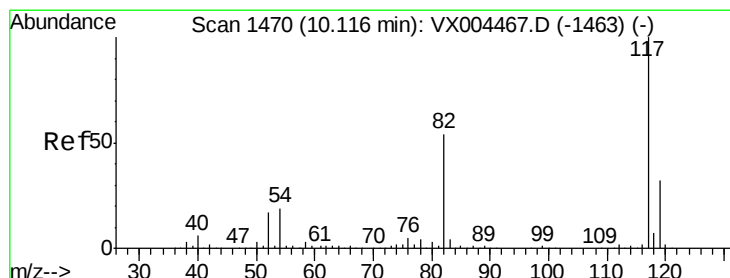
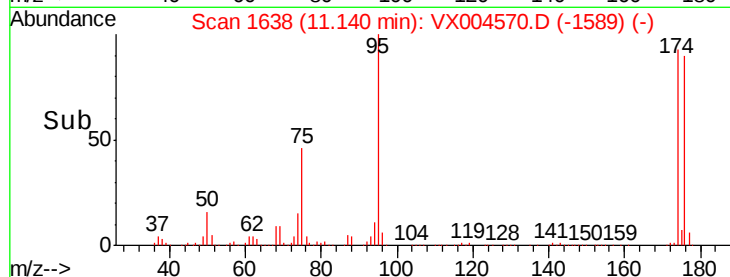
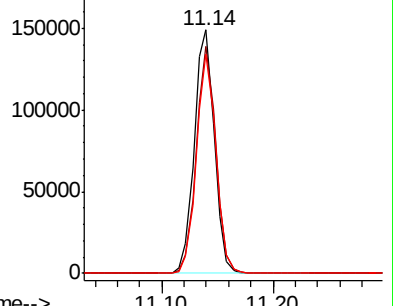
176 87.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004467.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004467.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004467.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

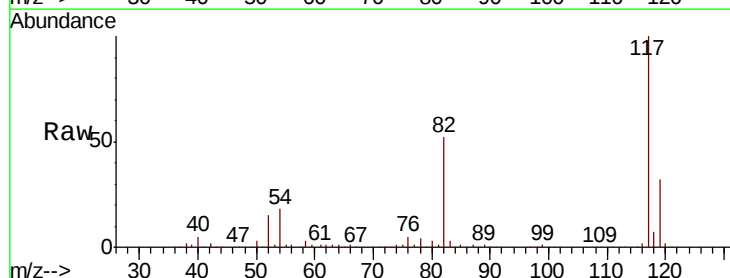
Tgt Ion: 117 Resp: 346233

Ion Ratio Lower Upper

117 100

82 52.1 47.8 71.6

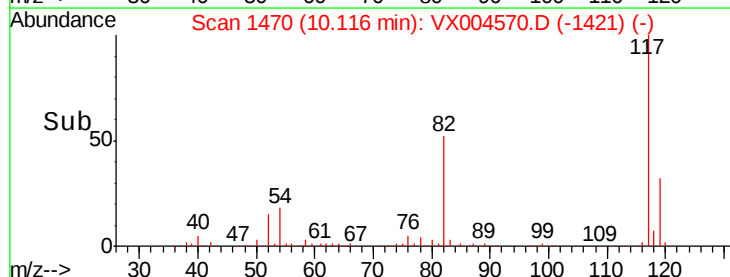
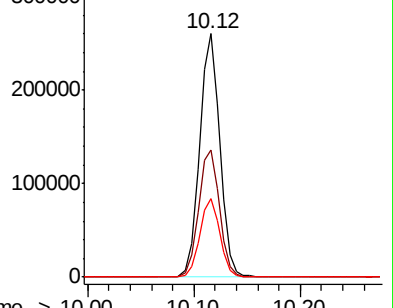
119 32.3 29.3 43.9

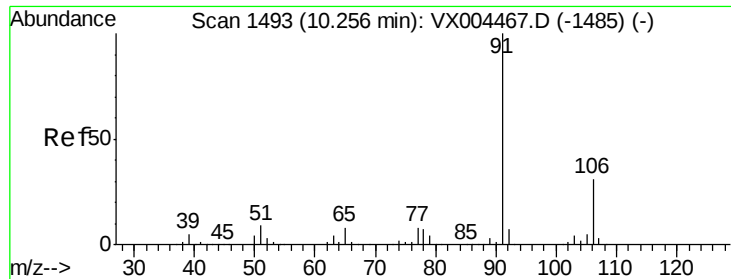


Abundance Ion 116.90 (116.60 to 117.60): VX004467.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004467.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004467.D (-1463) (-)

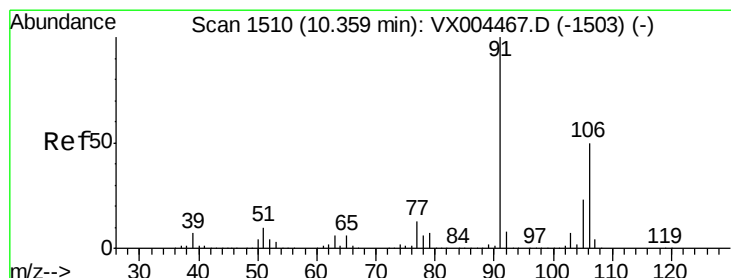
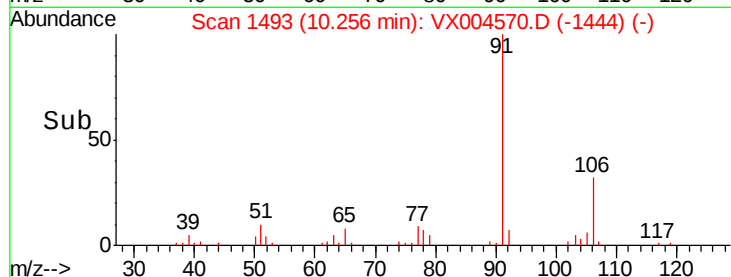
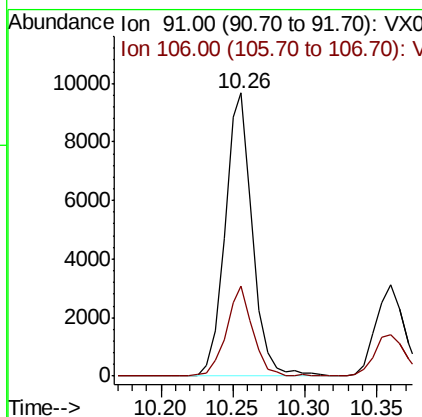
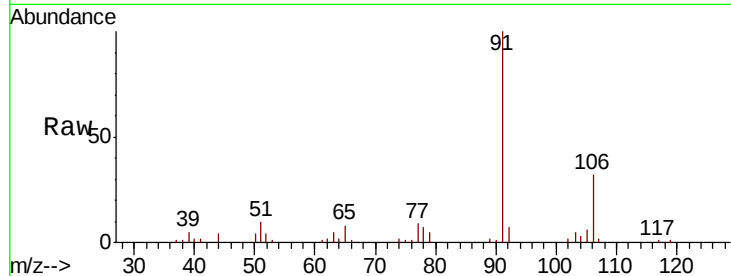




#67
Ethyl Benzene
Concen: 0.92 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VX004570.D
Acq: 15 Sep 2018 08:02

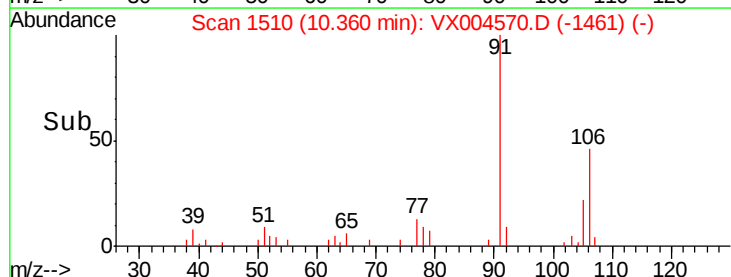
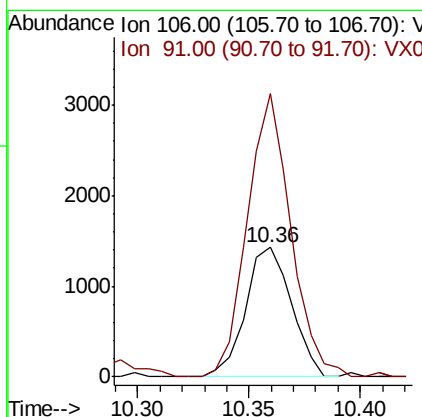
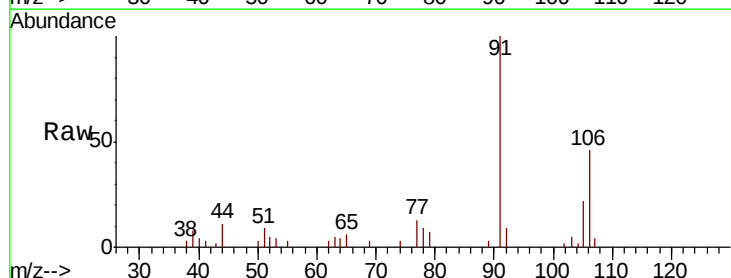
Instrument :
MSVOA_X
ClientSampled :
S13-0243

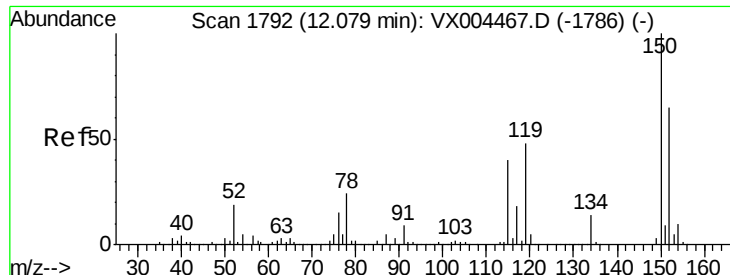
Tot Ion: 91 Resp: 12827
Ion Ratio Lower Upper
91 100
106 31.9 25.9 38.9



#68
m/p-Xylenes
Concen: 0.38 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX004570.D
Acq: 15 Sep 2018 08:02

Tgt Ion: 106 Resp: 2050
Ion Ratio Lower Upper
106 100
91 207.4 157.1 235.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampleId :

S13-0243

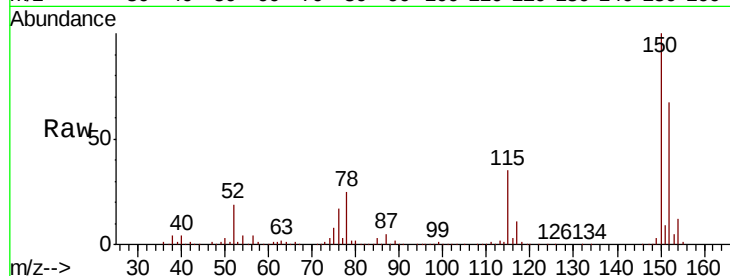
Tot Ion:152 Resp: 204873

Ion Ratio Lower Upper

152 100

115 53.8 39.0 117.0

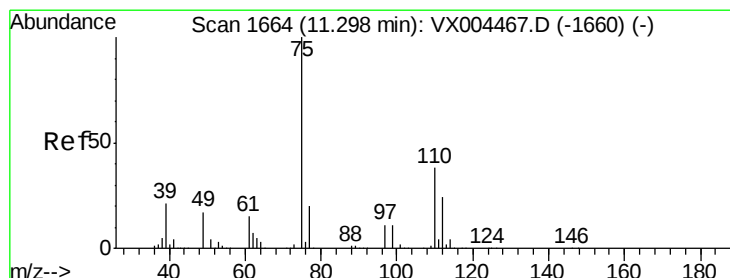
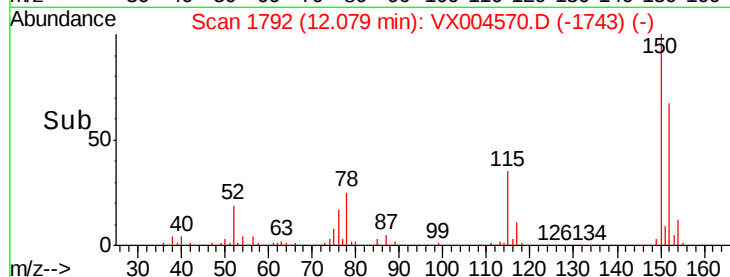
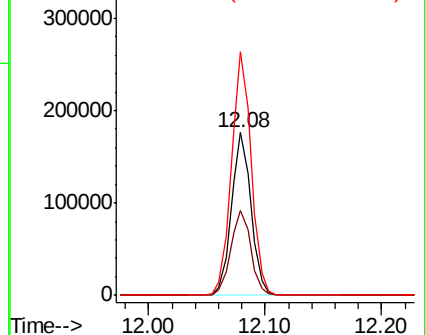
150 151.2 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 21.03 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004570.D

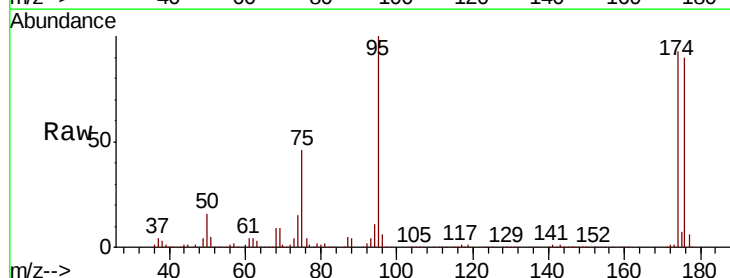
Acq: 15 Sep 2018 08:02

Tgt Ion: 75 Resp: 86672

Ion Ratio Lower Upper

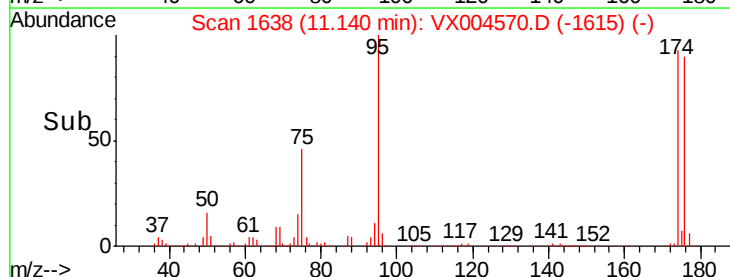
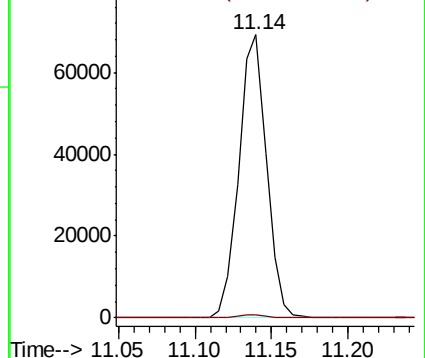
75 100

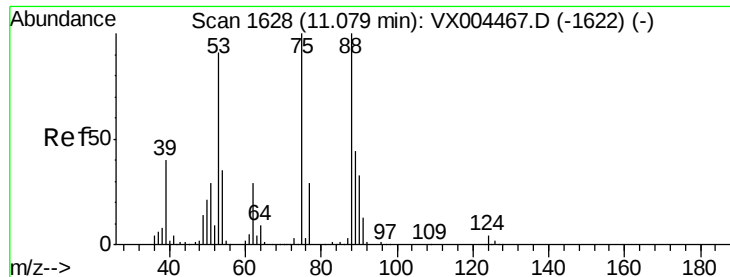
77 1.3 20.2 60.6#



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: 67.02 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampleId :

S13-0243

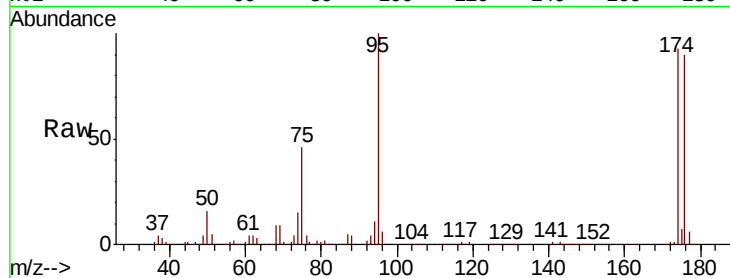
Tot Ion: 75 Resp: 86672

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

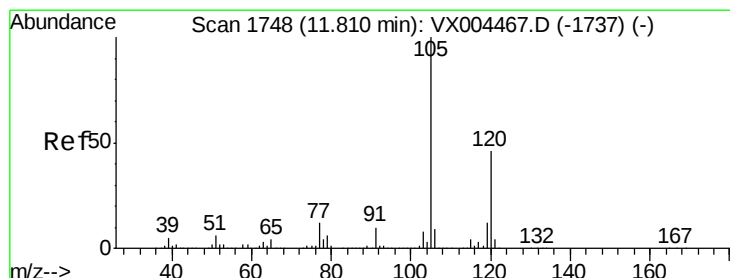
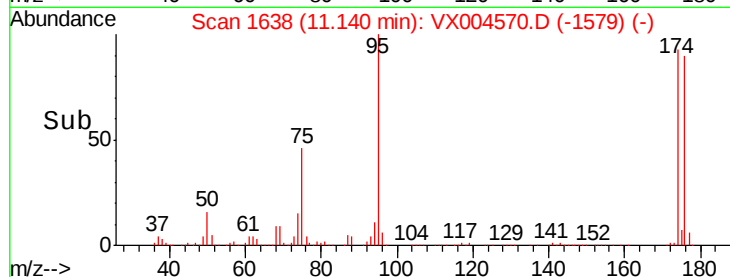
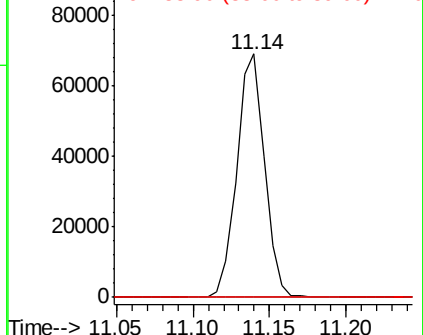
89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.75 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.00 min

Lab File: VX004570.D

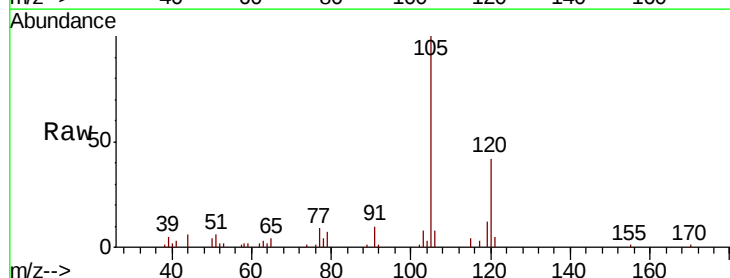
Acq: 15 Sep 2018 08:02

Tgt Ion: 105 Resp: 8700

Ion Ratio Lower Upper

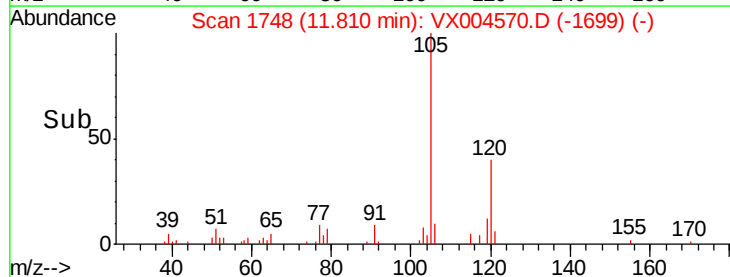
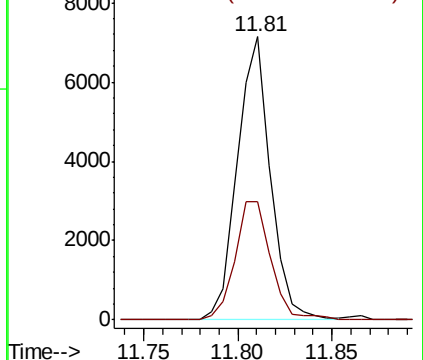
105 100

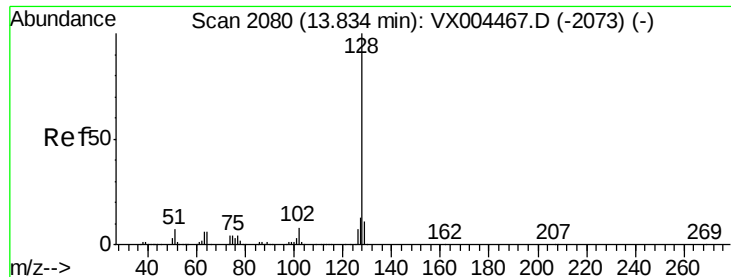
120 45.2 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 0.77 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004570.D

Acq: 15 Sep 2018 08:02

Instrument :

MSVOA_X

ClientSampleId :

S13-0243

Tot Ion:128 Resp: 10700

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.2

129 11.2 8.6 12.8

