

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX033018\
 Data File : VX000570.D
 Acq On : 30 Mar 2018 19:39
 Operator : JC/MD
 Sample : J2131-03 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 4538-9

Quant Time: Mar 31 05:02:54 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	148142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	263604	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	266060	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	142210	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	104922	54.26	ug/l	0.00
Spiked Amount			Recovery	=	108.52%	
35) Dibromofluoromethane	5.52	113	81608	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	8.73	98	332279	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
62) 4-Bromofluorobenzene	11.15	95	124727	43.78	ug/l	0.00
Spiked Amount			Recovery	=	87.56%	

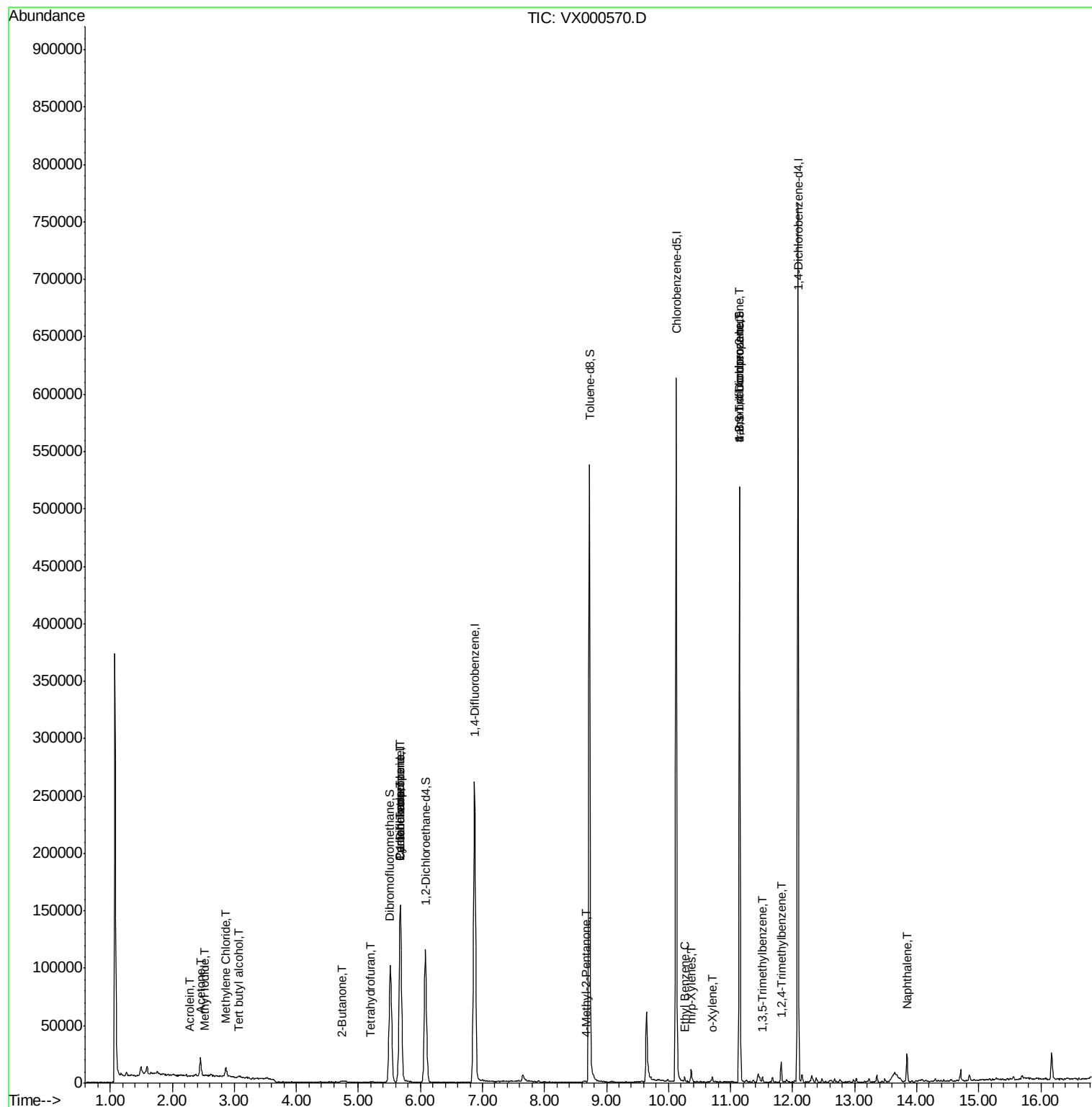
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.76	64	584	Below Cal	#	45
10) Methyl Iodide	2.51	142	268	4.41	ug/l #	58
11) Tert butyl alcohol	3.08	59	1933	2.91	ug/l #	56
13) Acrolein	2.29	56	253	15.70	ug/l #	8
14) Allyl chloride	2.74	41	180	Below Cal	#	22
16) Acetone	2.45	43	16649	10.35	ug/l	93
20) Methylene Chloride	2.87	84	3137	1.69	ug/l #	91
25) 2-Butanone	4.72	43	1956	1.08	ug/l	100
29) Tetrahydrofuran	5.20	42	452	0.41	ug/l #	42
31) Cyclohexane	5.67	56	3643	1.49	ug/l #	2
36) 1,1-Dichloropropene	5.67	75	12391	5.02	ug/l #	49
38) Carbon Tetrachloride	5.68	117	14941	5.77	ug/l #	15
51) 4-Methyl-2-Pentanone	8.67	43	876	0.23	ug/l	96
67) Ethyl Benzene	10.26	91	2092	0.21	ug/l	100
68) m/p-Xylenes	10.37	106	2814	0.71	ug/l	83
69) o-Xylene	10.71	106	1000	0.26	ug/l	93
74) N-amyl acetate	6.48	43	885	Below Cal	#	59
76) 1,2,3-Trichloropropane	11.15	75	68294	22.35	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	1985	0.25	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.15	75	68294	72.35	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.82	105	7495	0.90	ug/l	97
95) Naphthalene	13.84	128	14334	1.23	ug/l	100

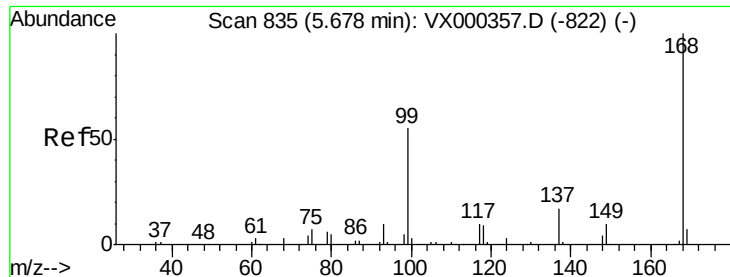
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :
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Quant Time: Mar 31 05:02:54 2018
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Quant Title : SW846 8260
QLast Update : Wed Mar 21 04:52:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.00 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampled :

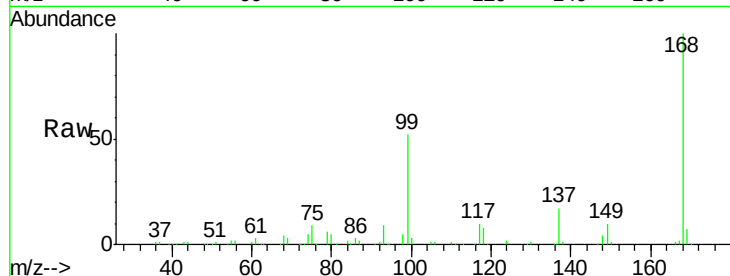
4538-9

Tgt Ion:168 Resp: 148142

Ion Ratio Lower Upper

168 100

99 51.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

60000

50000

40000

30000

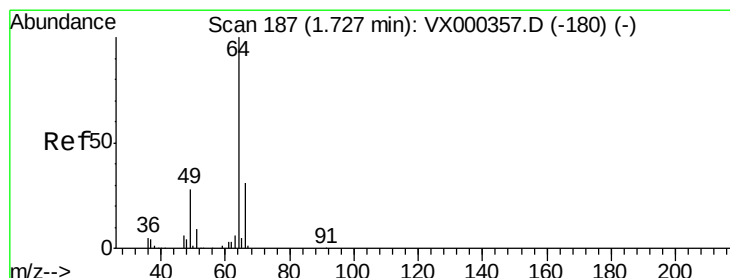
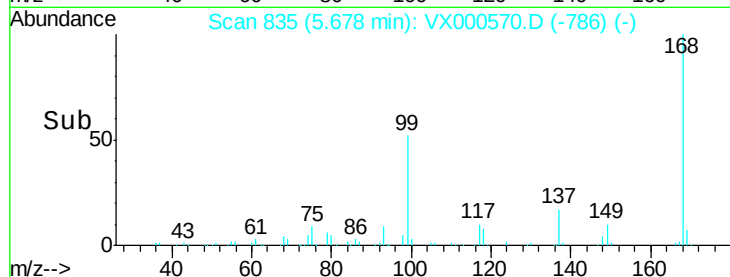
20000

10000

0

Time-->

5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 192

Delta R.T. 0.03 min

Lab File: VX000570.D

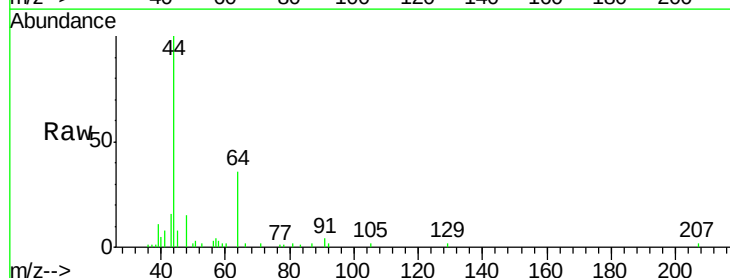
Acq: 30 Mar 2018 19:39

Tgt Ion: 64 Resp: 584

Ion Ratio Lower Upper

64 100

66 0.9 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.76

1500

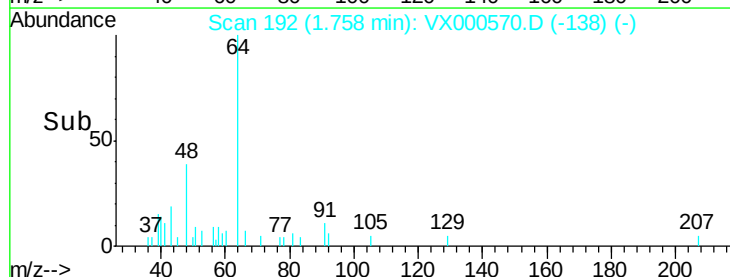
1000

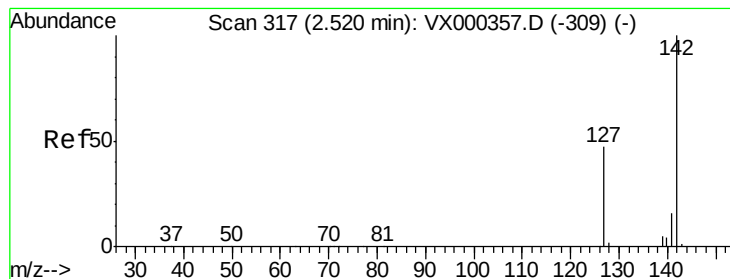
500

0

Time-->

1.74 1.76 1.78 1.80





#10

Methyl Iodide

Concen: 4.41 ug/l

RT: 2.51 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampled :

4538-9

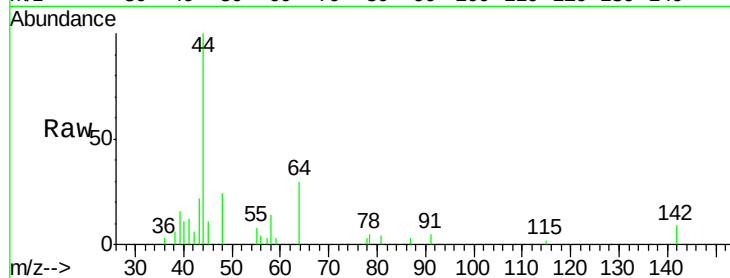
Tgt Ion:142 Resp: 268

Ion Ratio Lower Upper

142 100

127 19.4 39.2 58.8#

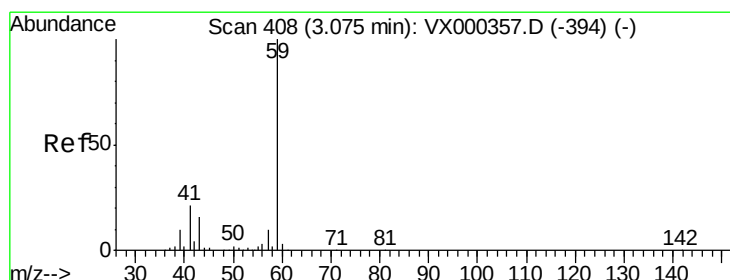
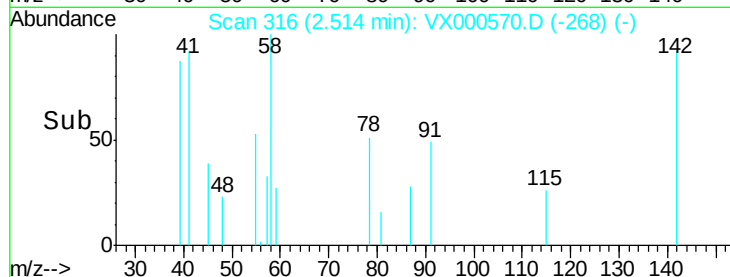
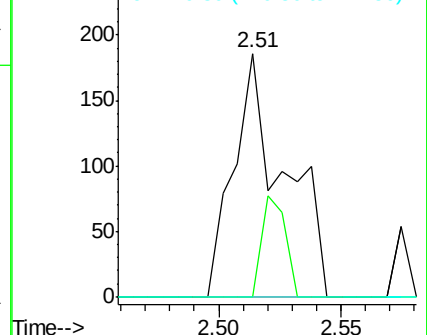
141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.91 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.01 min

Lab File: VX000570.D

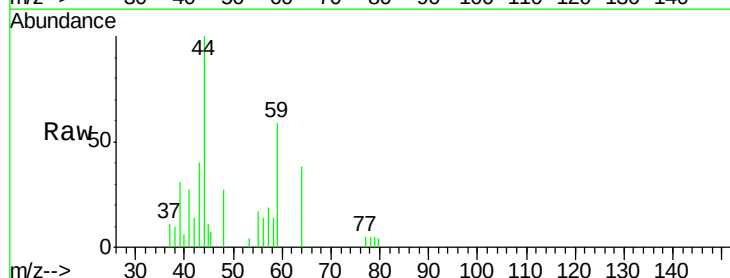
Acq: 30 Mar 2018 19:39

Tgt Ion: 59 Resp: 1933

Ion Ratio Lower Upper

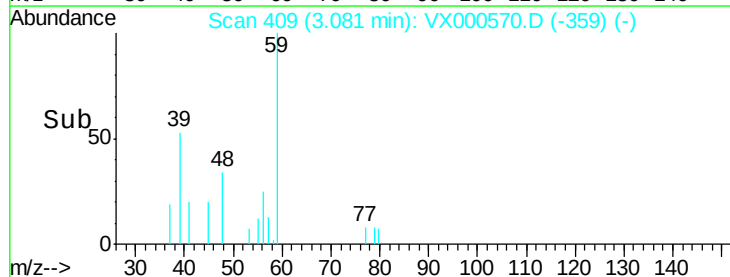
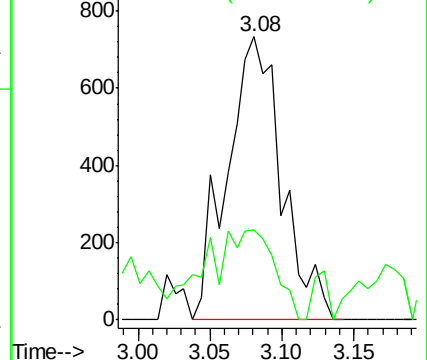
59 100

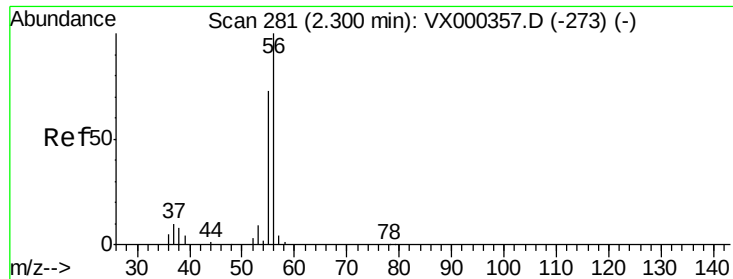
57 26.9 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 15.70 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampled :

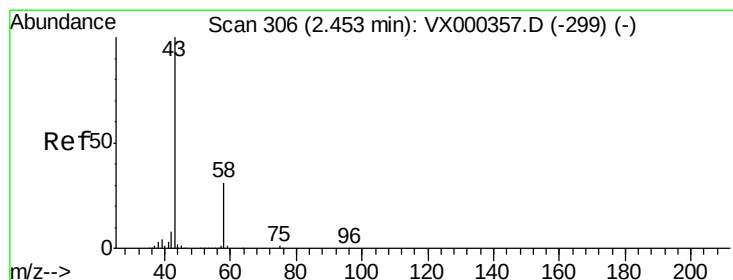
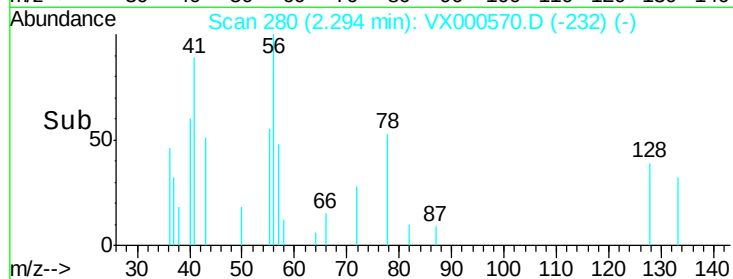
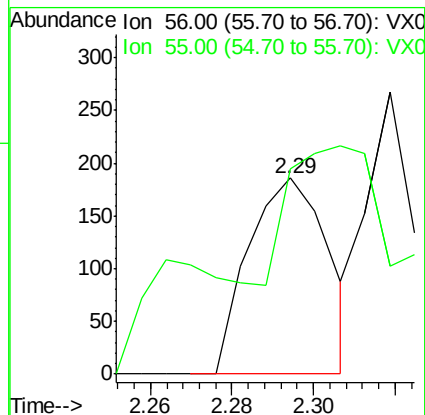
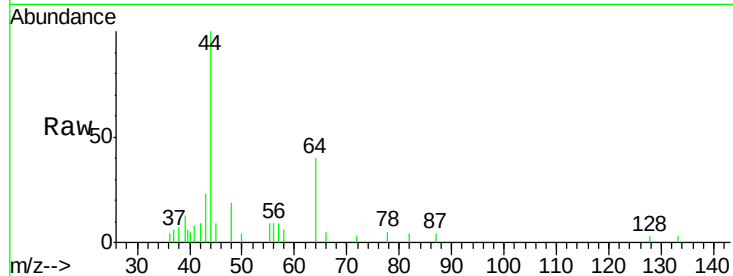
4538-9

Tgt Ion: 56 Resp: 253

Ion Ratio Lower Upper

56 100

55 151.4 58.8 88.2#



#16

Acetone

Concen: 10.35 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX000570.D

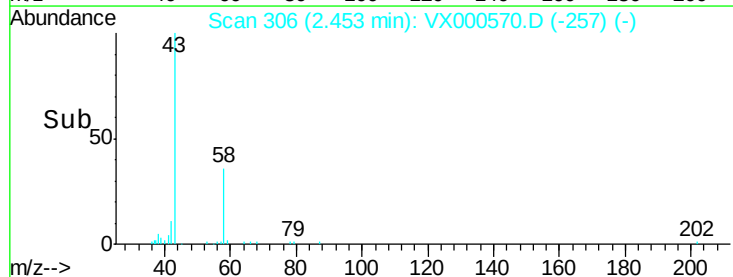
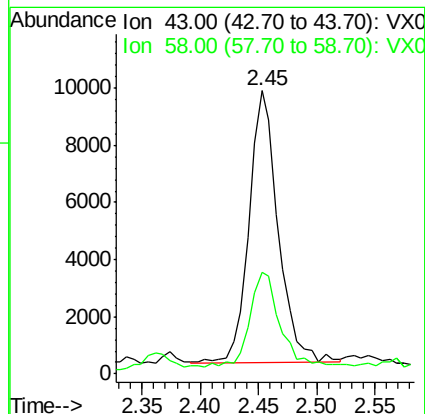
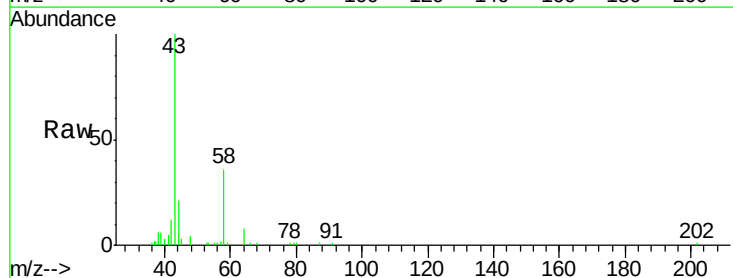
Acq: 30 Mar 2018 19:39

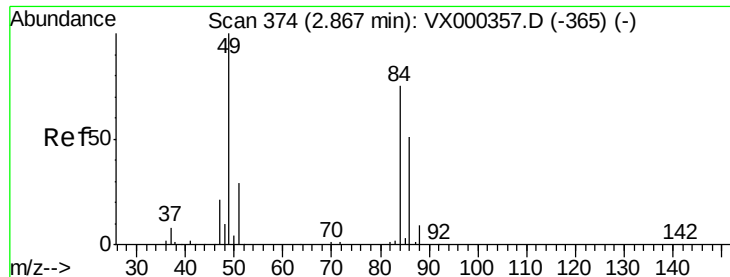
Tgt Ion: 43 Resp: 16649

Ion Ratio Lower Upper

43 100

58 34.6 24.7 37.1





#20

Methylene Chloride

Concen: 1.69 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.00 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampled :

4538-9

Tgt Ion: 84 Resp: 3137

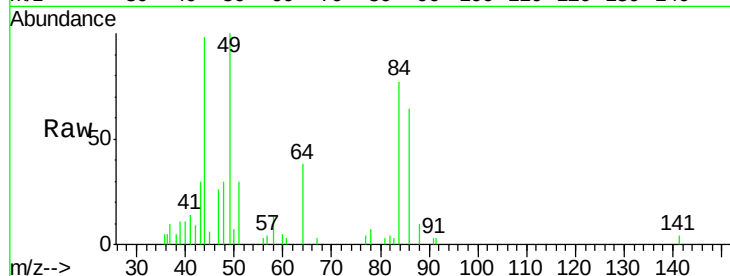
Ion Ratio Lower Upper

84 100

49 130.7 100.6 151.0

51 38.6 31.6 47.4

86 83.9 52.6 78.8#

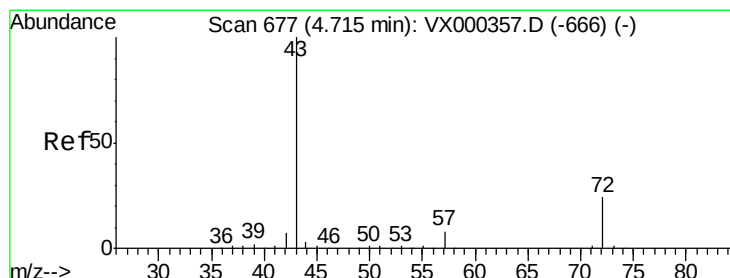
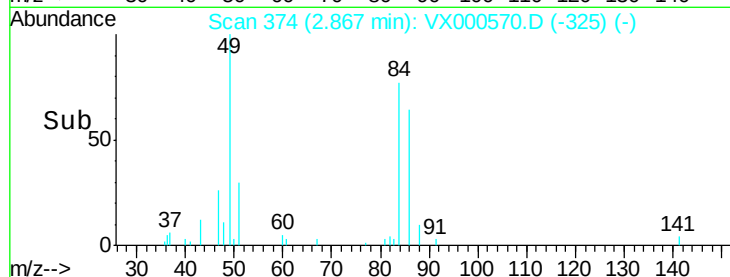
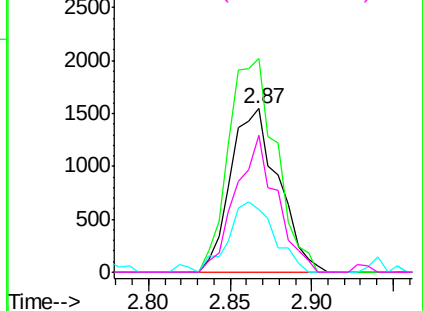


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.08 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000570.D

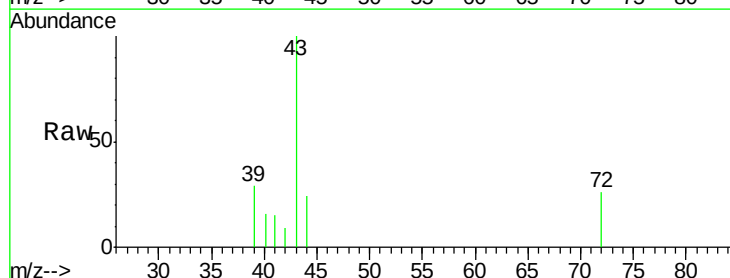
Acq: 30 Mar 2018 19:39

Tgt Ion: 43 Resp: 1956

Ion Ratio Lower Upper

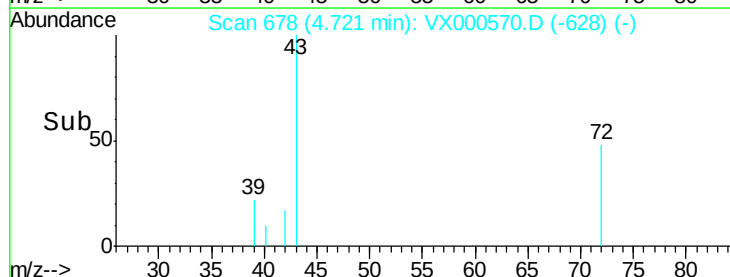
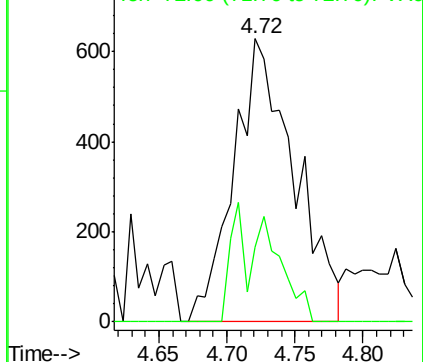
43 100

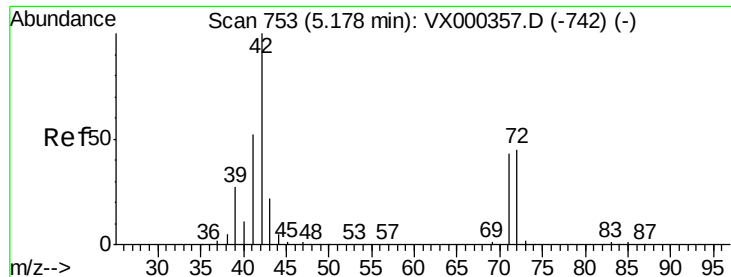
72 26.4 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampled :

4538-9

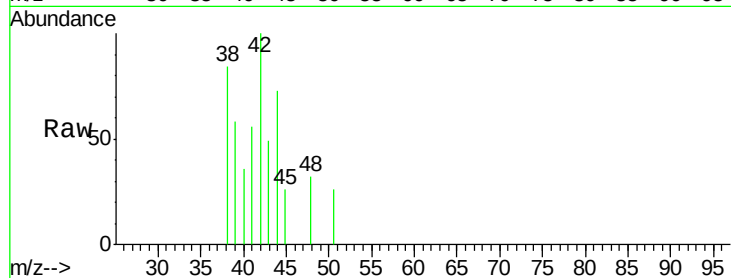
Tgt Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 13.5 37.9 56.9#

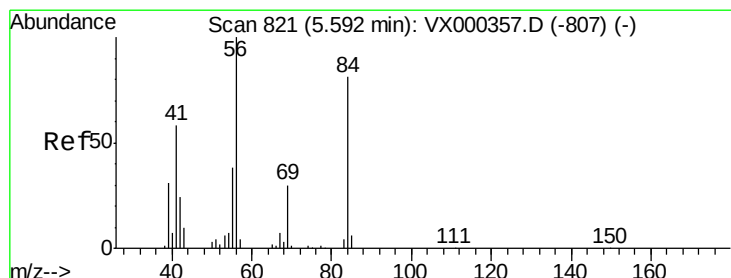
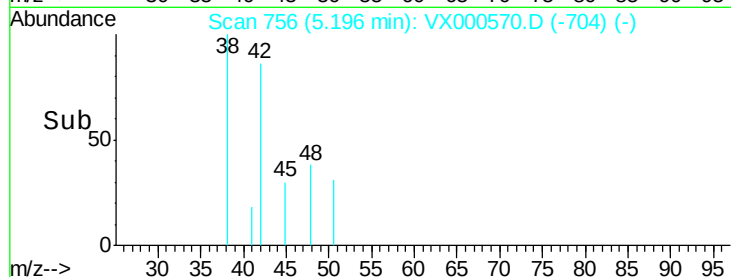
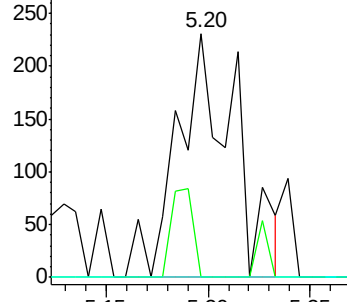
71 0.0 34.4 51.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.49 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.08 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

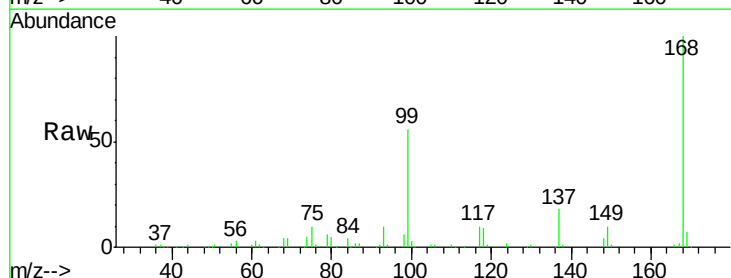
Tgt Ion: 56 Resp: 3643

Ion Ratio Lower Upper

56 100

69 150.3 23.4 35.0#

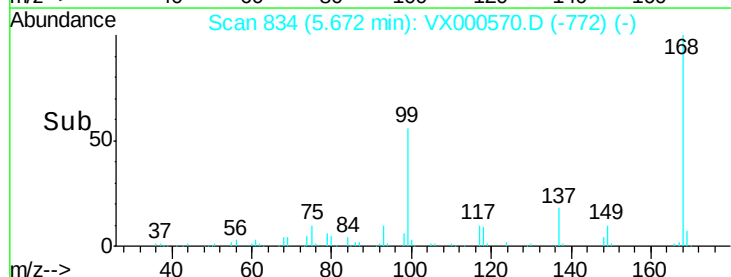
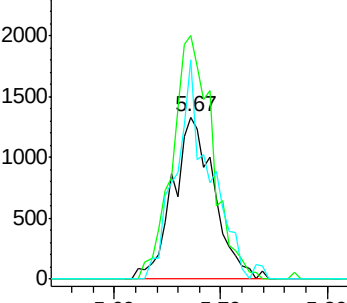
84 140.9 71.0 106.4#

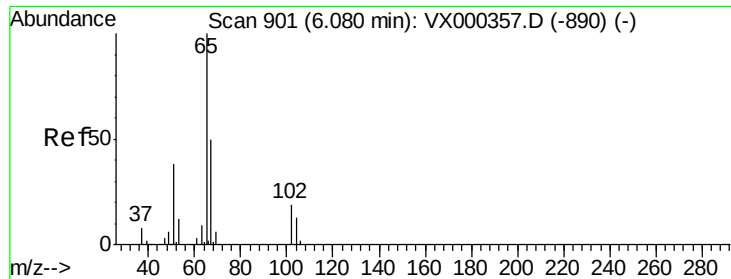


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

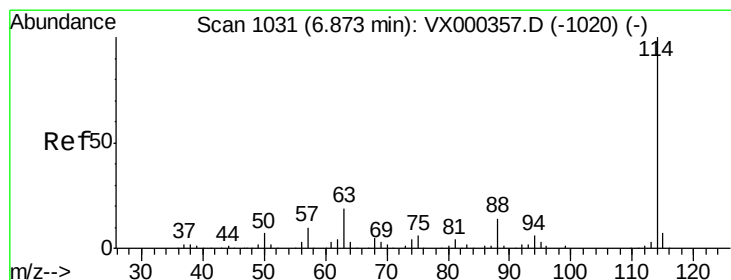
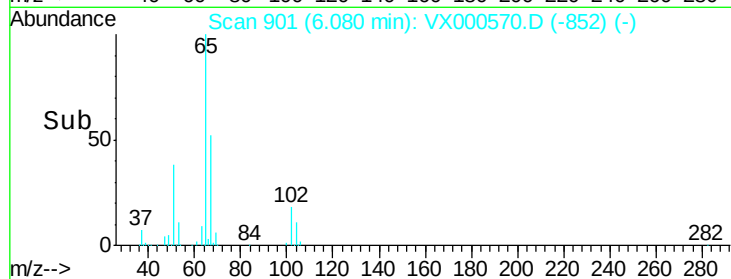
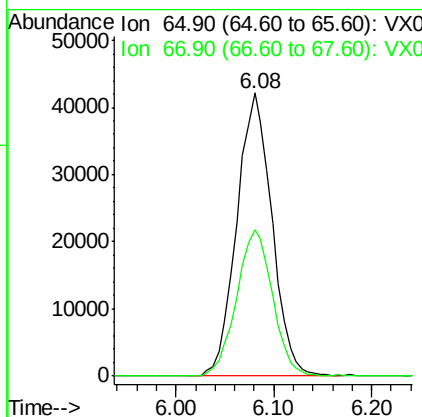
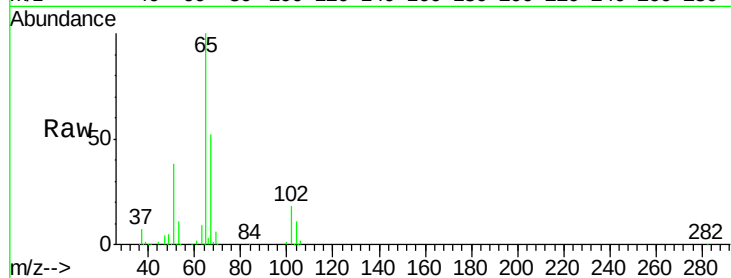




#33
 1,2-Dichloroethane-d4
 Concen: 54.26 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VX000570.D
 Acq: 30 Mar 2018 19:39

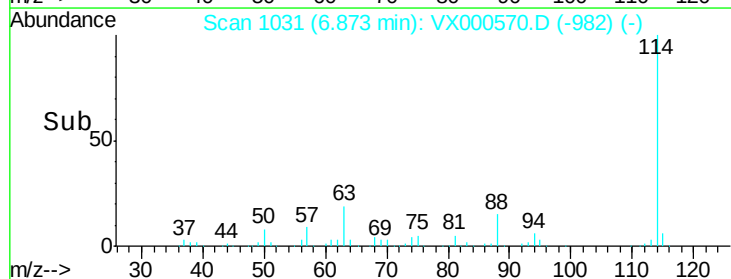
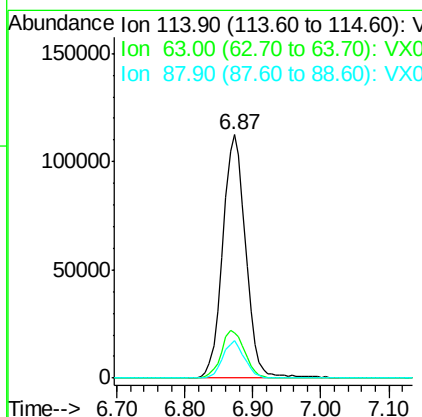
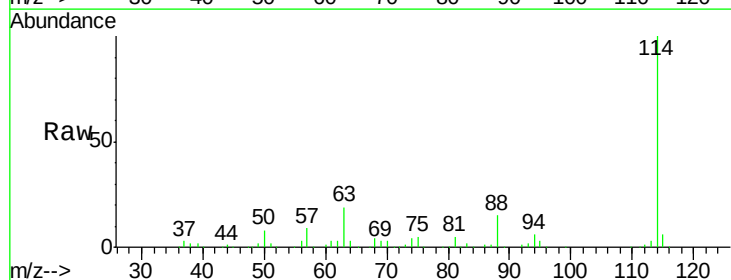
Instrument :
 MSVOA_X
 ClientSampleId :
 4538-9

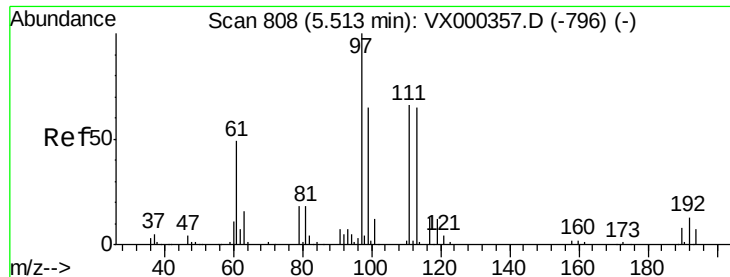
Tgt Ion: 65 Resp: 104922
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VX000570.D
 Acq: 30 Mar 2018 19:39

Tgt Ion: 114 Resp: 263604
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.4
 88 15.3 0.0 27.0





#35

Dibromofluoromethane

Concen: 49.13 ug/l

RT: 5.52 min Scan# 809

Delta R.T. 0.01 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampleId :

4538-9

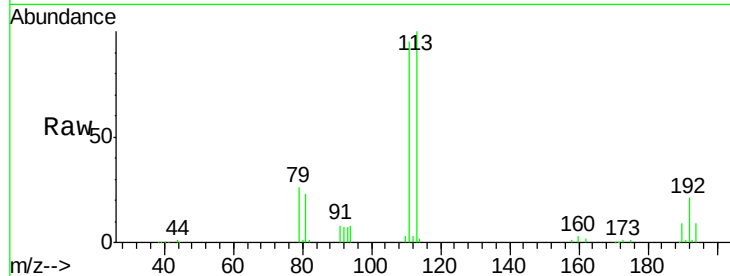
Tgt Ion:113 Resp: 81608

Ion Ratio Lower Upper

113 100

111 101.6 82.4 123.6

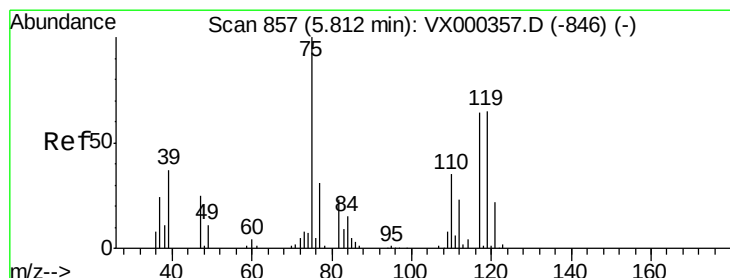
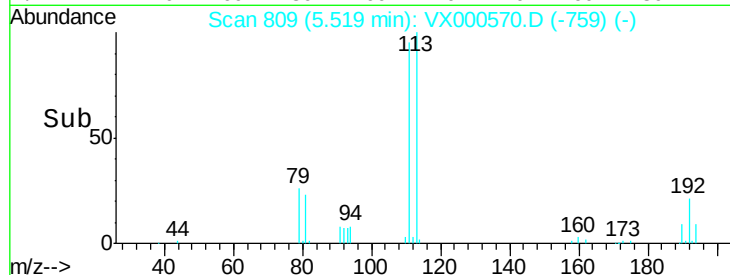
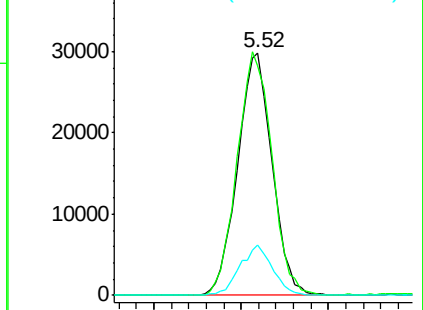
192 19.7 15.8 23.6



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: 5.02 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

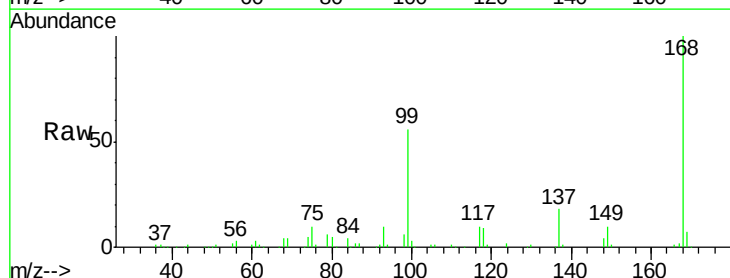
Tgt Ion: 75 Resp: 12391

Ion Ratio Lower Upper

75 100

110 8.4 17.9 53.7#

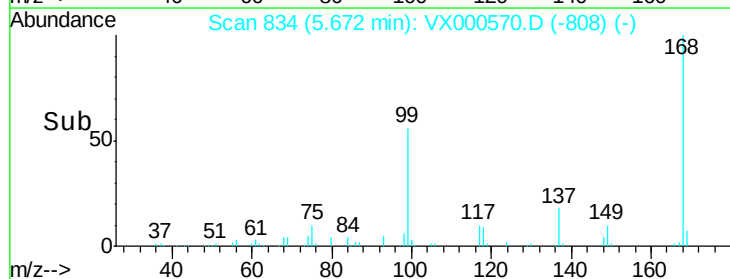
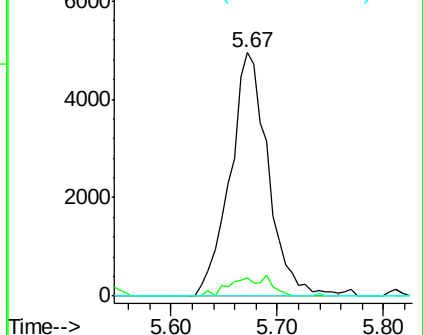
77 0.0 24.0 36.0#

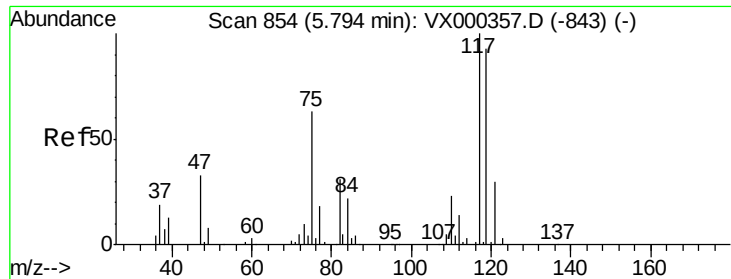


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

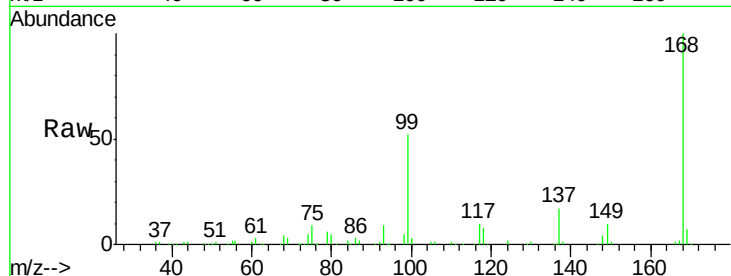




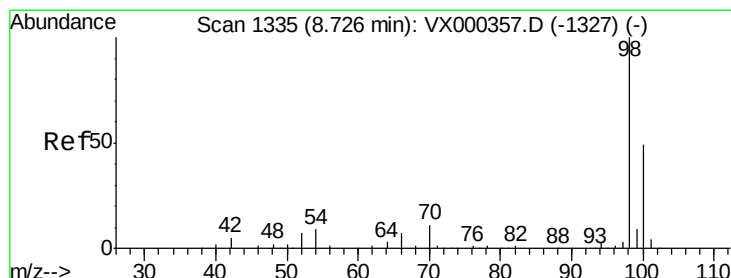
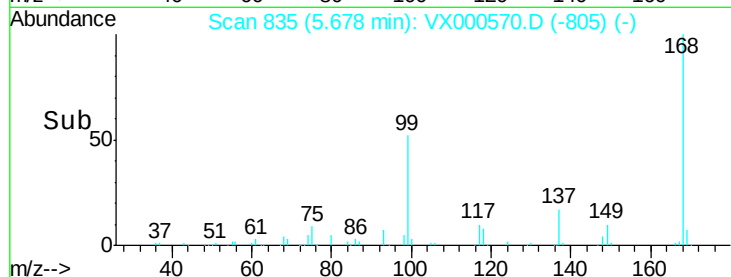
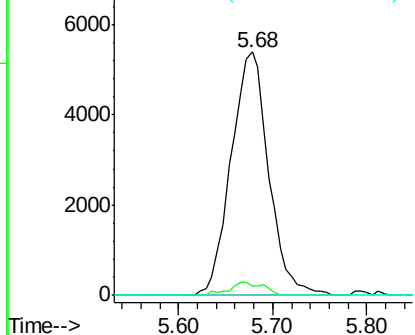
#38
Carbon Tetrachloride
Concen: 5.77 ug/l
RT: 5.68 min Scan# 835
Delta R.T. -0.12 min
Lab File: VX000570.D
Acq: 30 Mar 2018 19:39

Instrument :
MSVOA_X
ClientSampled :
4538-9

Tgt Ion: 117 Resp: 14941
Ion Ratio Lower Upper
117 100
119 3.8 77.4 116.2#
121 0.0 24.8 37.2#

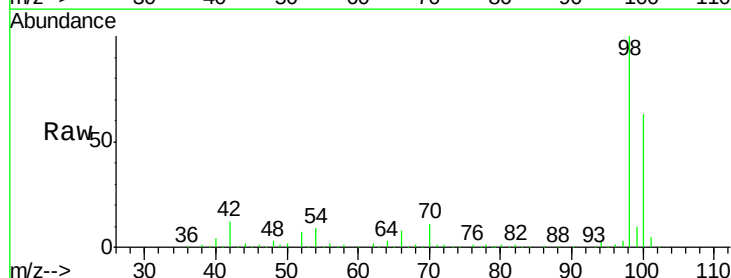


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

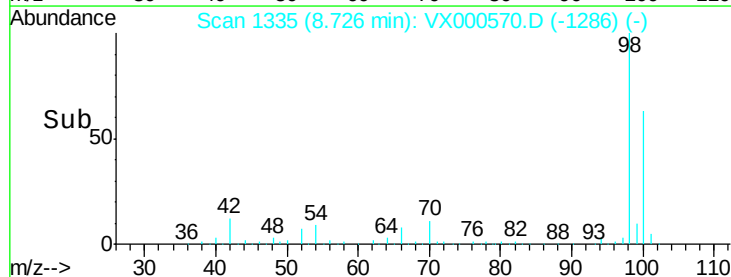
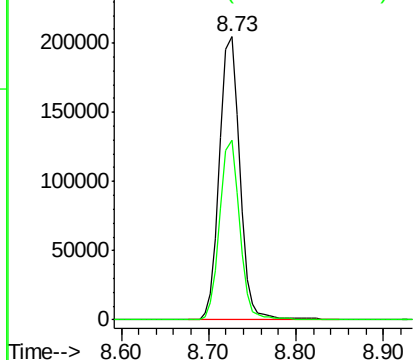


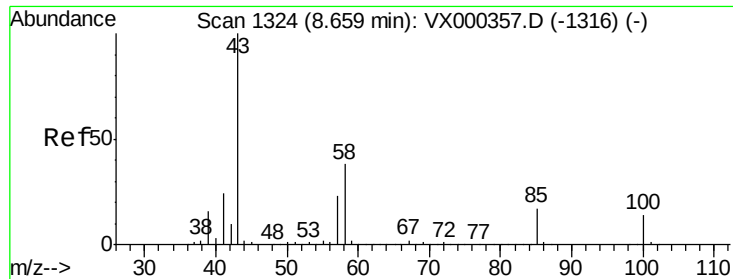
#50
Toluene-d8
Concen: 48.30 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VX000570.D
Acq: 30 Mar 2018 19:39

Tgt Ion: 98 Resp: 332279
Ion Ratio Lower Upper
98 100
100 62.3 51.2 76.8



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

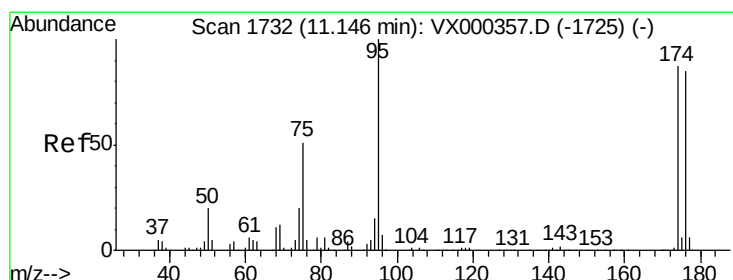
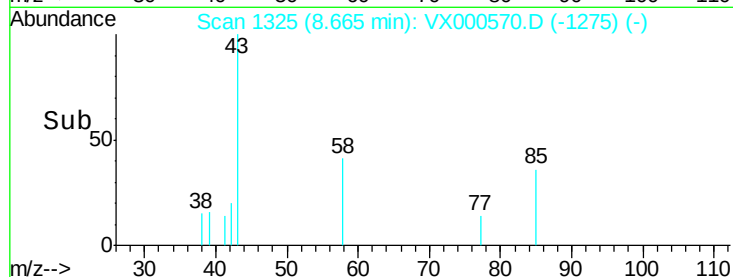
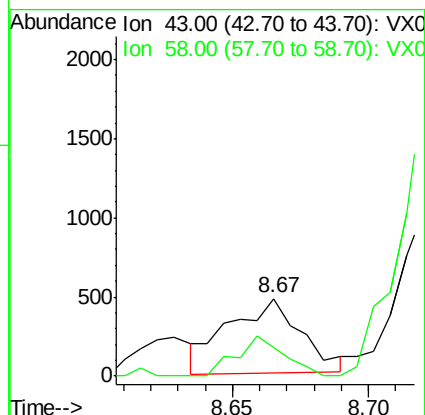
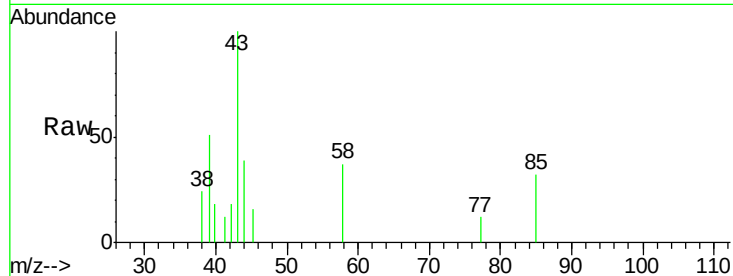




#51
 4-Methyl-2-Pentanone
 Concen: 0.23 ug/l
 RT: 8.67 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VX000570.D
 Acq: 30 Mar 2018 19:39

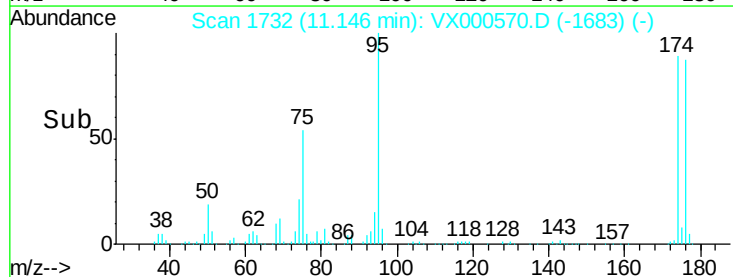
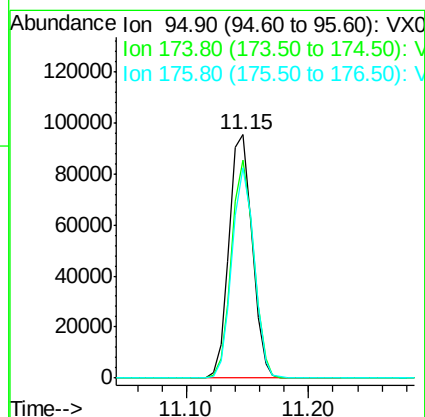
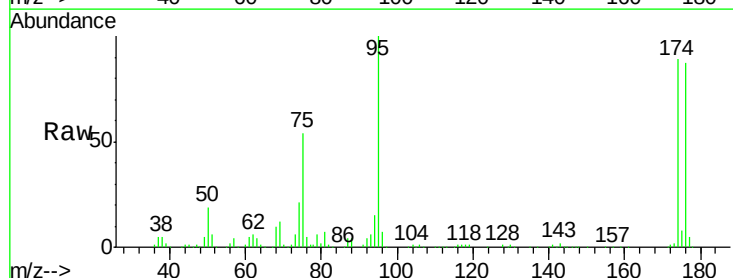
Instrument :
 MSVOA_X
 ClientSampled :
 4538-9

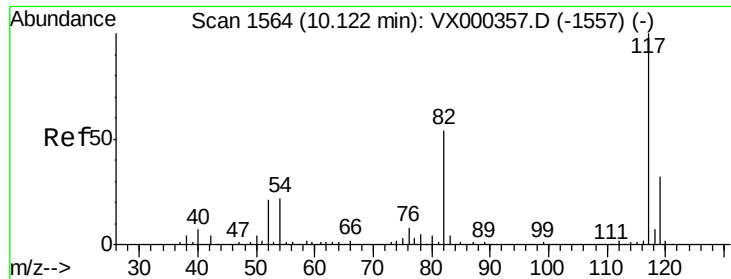
Tgt Ion: 43 Resp: 876
 Ion Ratio Lower Upper
 43 100
 58 35.3 30.3 45.5



#62
 4-Bromofluorobenzene
 Concen: 43.78 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.00 min
 Lab File: VX000570.D
 Acq: 30 Mar 2018 19:39

Tgt Ion: 95 Resp: 124727
 Ion Ratio Lower Upper
 95 100
 174 86.1 0.0 173.6
 176 82.7 0.0 164.6

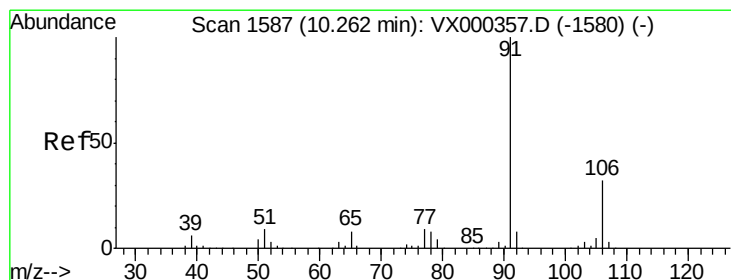
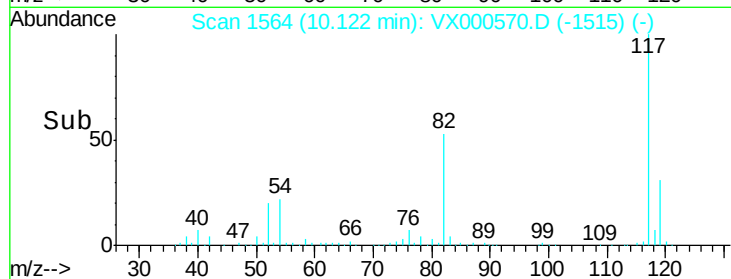
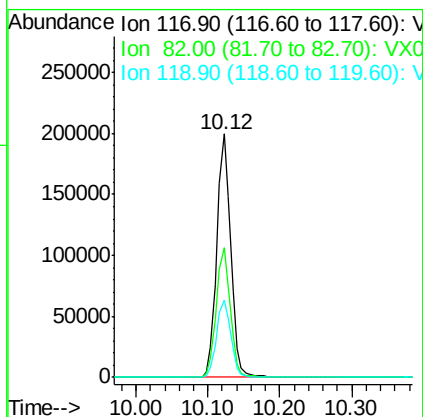
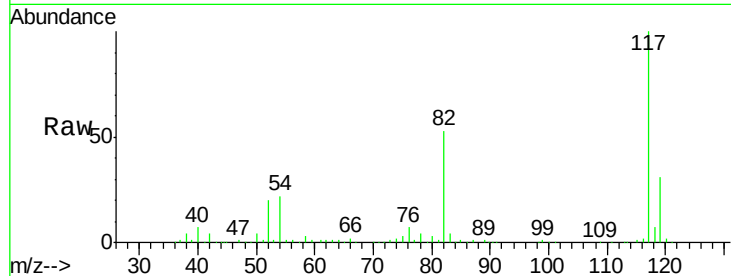




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX000570.D
Acq: 30 Mar 2018 19:39

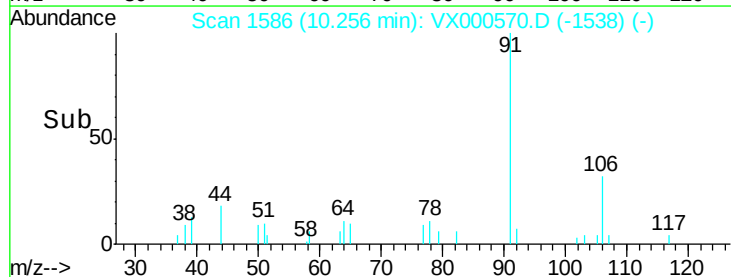
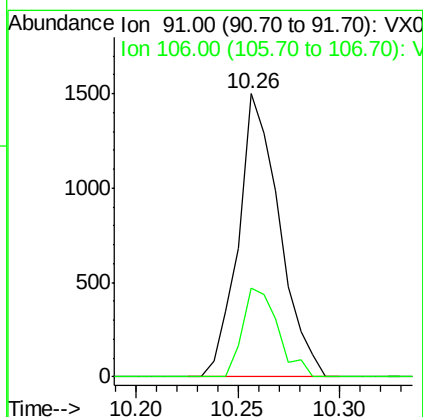
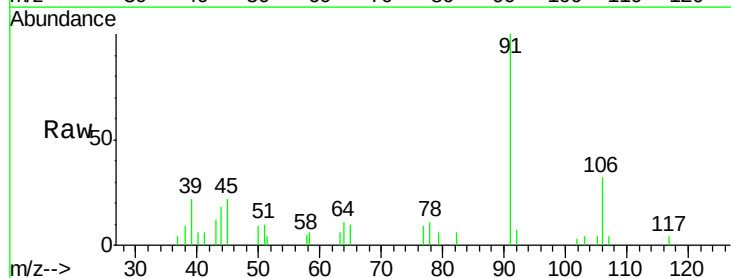
Instrument :
MSVOA_X
ClientSampled :
4538-9

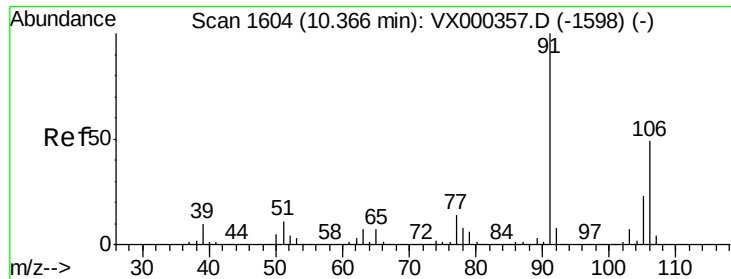
Tgt Ion: 117 Resp: 266060
Ion Ratio Lower Upper
117 100
82 53.3 43.8 65.8
119 31.5 24.9 37.3



#67
Ethyl Benzene
Concen: 0.21 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.01 min
Lab File: VX000570.D
Acq: 30 Mar 2018 19:39

Tgt Ion: 91 Resp: 2092
Ion Ratio Lower Upper
91 100
106 31.6 25.0 37.6

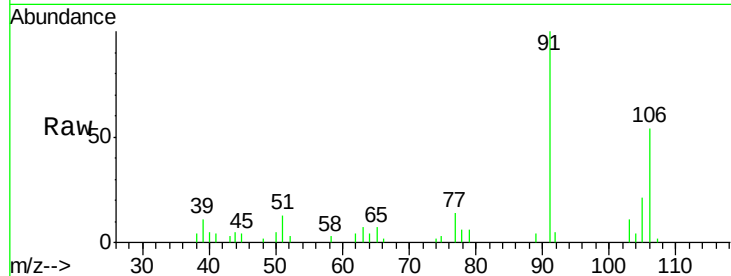




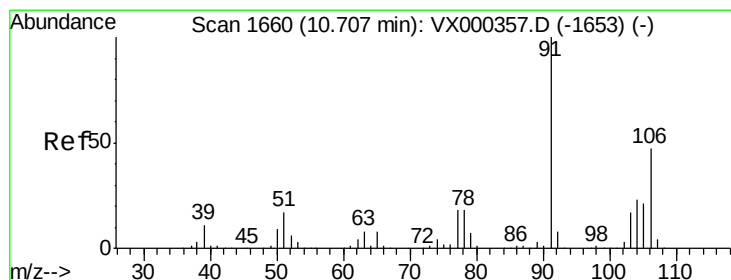
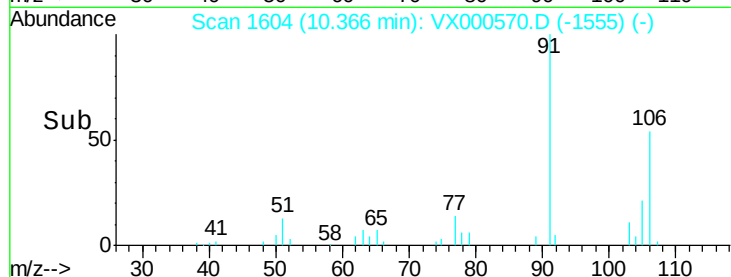
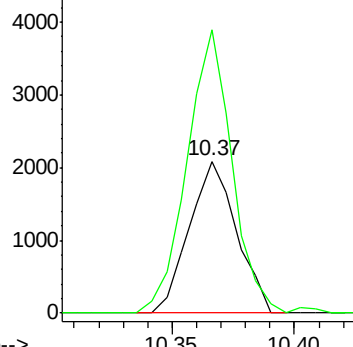
#68
m/p-Xylenes
Concen: 0.71 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VX000570.D
Acq: 30 Mar 2018 19:39

Instrument :
MSVOA_X
ClientSampled :
4538-9

Tgt Ion:106 Resp: 2814
Ion Ratio Lower Upper
106 100
91 178.2 163.4 245.2

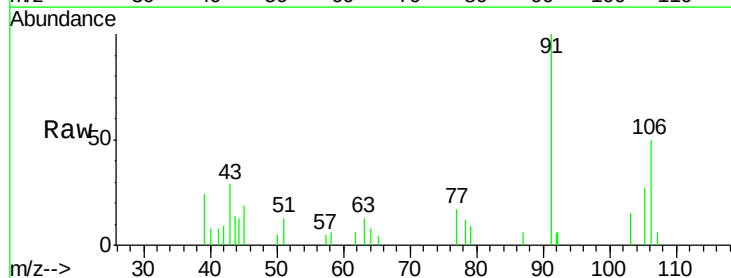


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

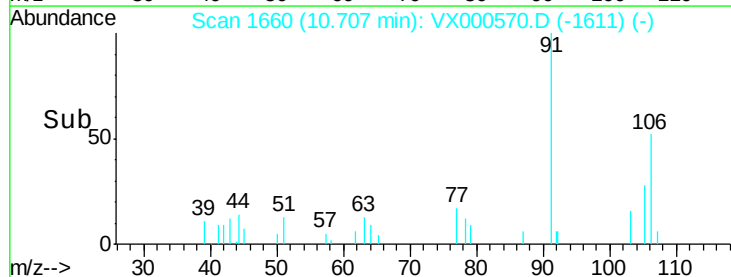
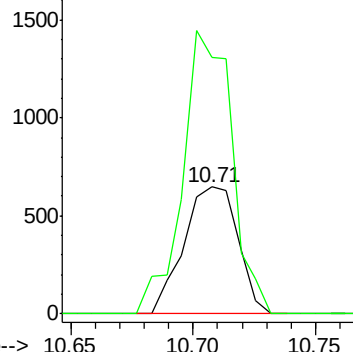


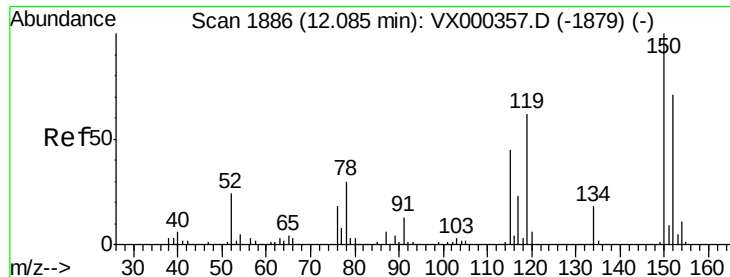
#69
o-Xylene
Concen: 0.26 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VX000570.D
Acq: 30 Mar 2018 19:39

Tgt Ion:106 Resp: 1000
Ion Ratio Lower Upper
106 100
91 201.7 106.5 319.6



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: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampled :

4538-9

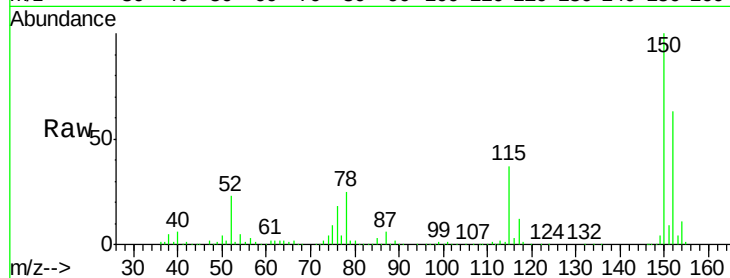
Tgt Ion:152 Resp: 142210

Ion Ratio Lower Upper

152 100

115 58.1 39.8 119.3

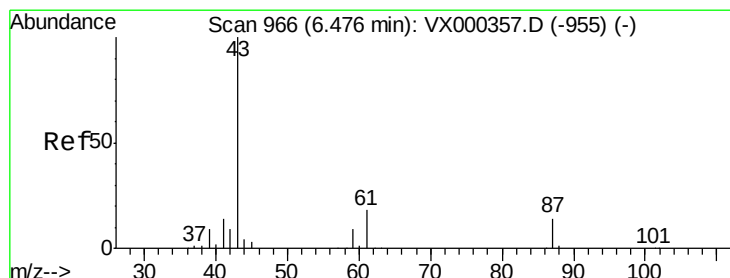
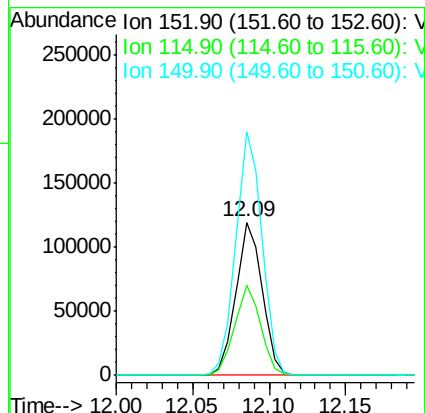
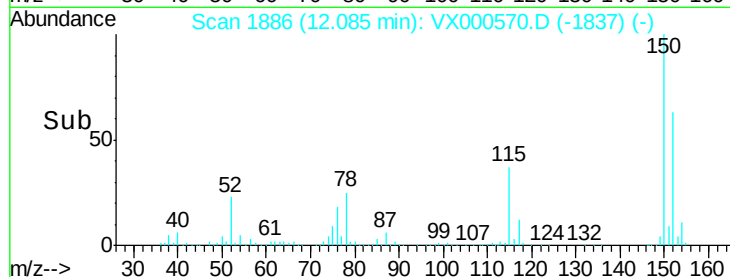
150 159.0 0.0 344.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Tgt Ion: 43 Resp: 885

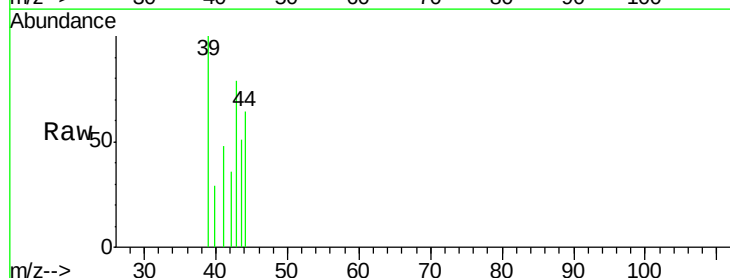
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 0.0 14.4 21.6#

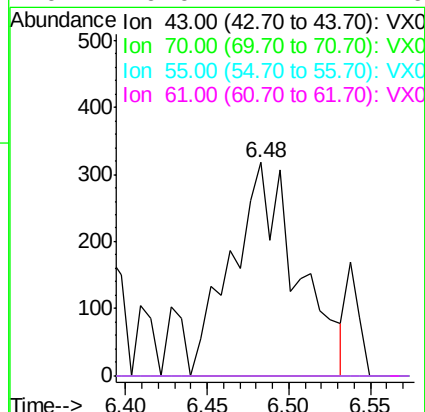
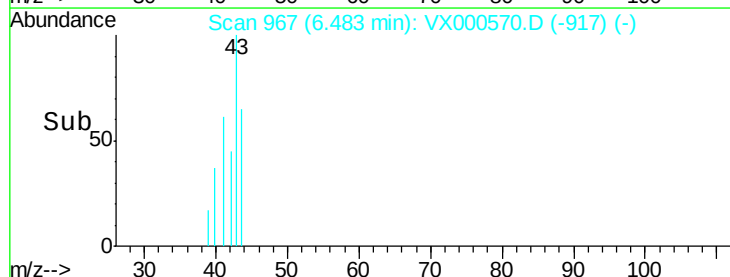


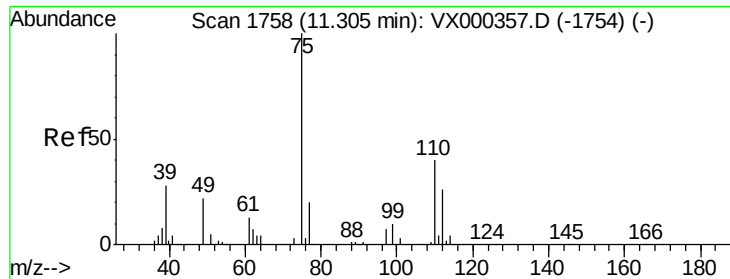
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

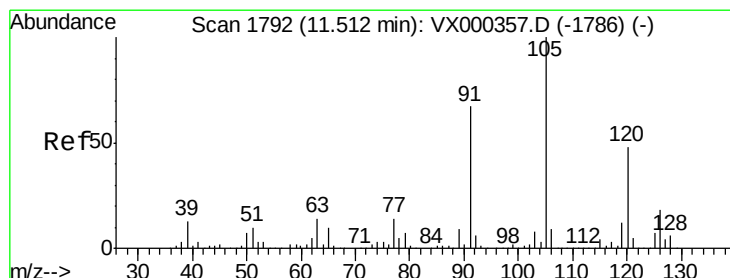
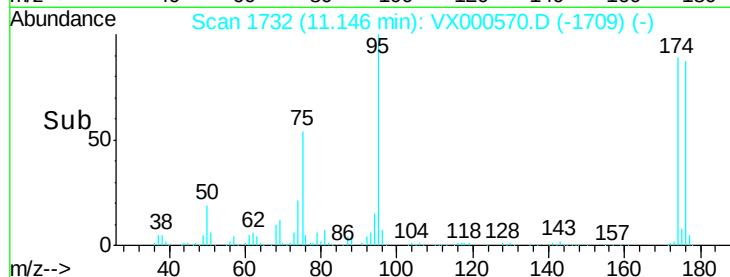
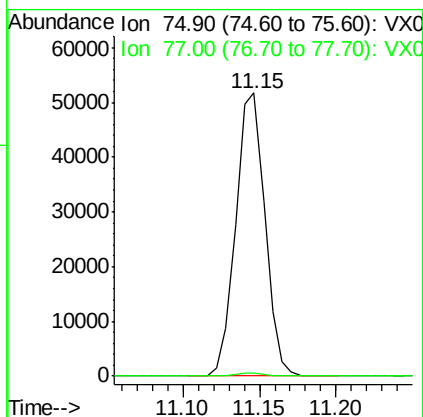
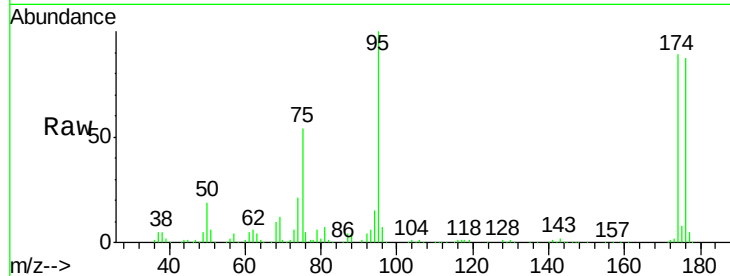




#76
 1,2,3-Trichloropropane
 Concen: 22.35 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.16 min
 Lab File: VX000570.D
 Acq: 30 Mar 2018 19:39

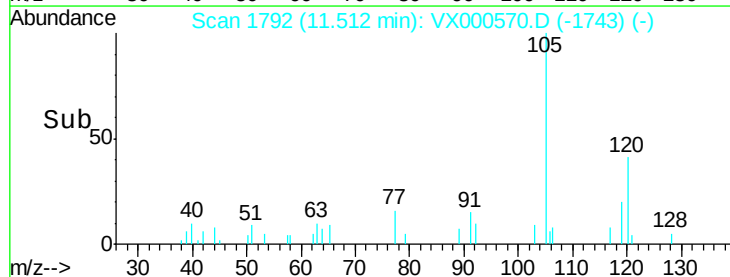
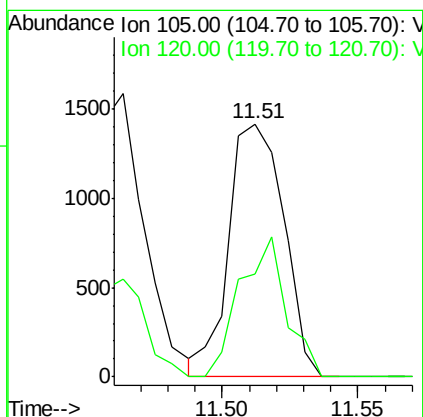
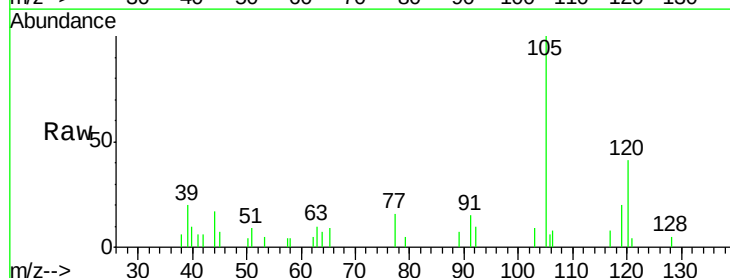
Instrument :
 MSVOA_X
 ClientSampleId :
 4538-9

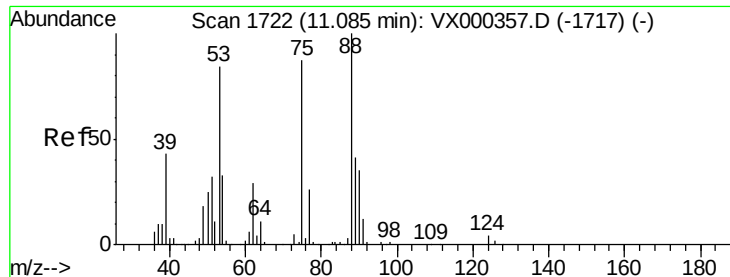
Tgt Ion: 75 Resp: 68294
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.4 64.2#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX000570.D
 Acq: 30 Mar 2018 19:39

Tgt Ion: 105 Resp: 1985
 Ion Ratio Lower Upper
 105 100
 120 46.4 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 72.35 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000570.D

Acq: 30 Mar 2018 19:39

Instrument :

MSVOA_X

ClientSampleId :

4538-9

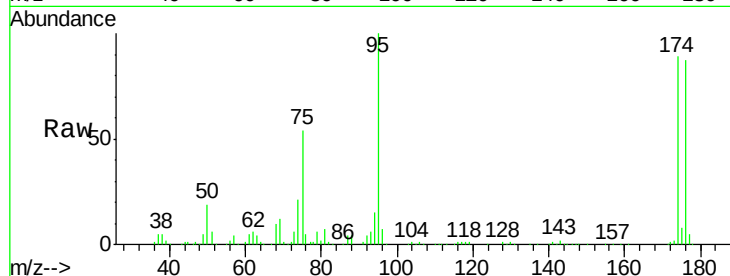
Tgt Ion: 75 Resp: 68294

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

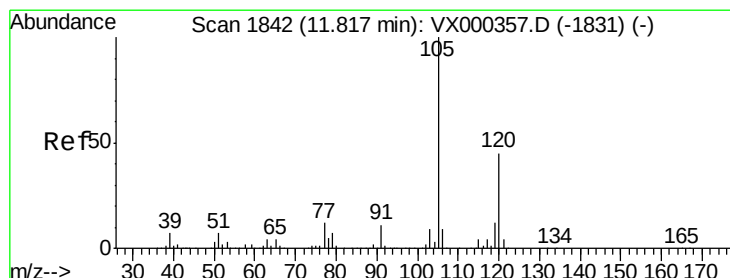
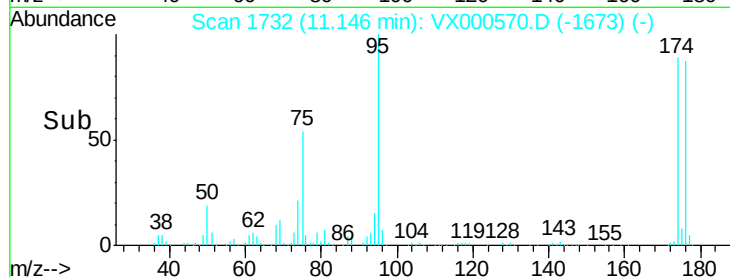
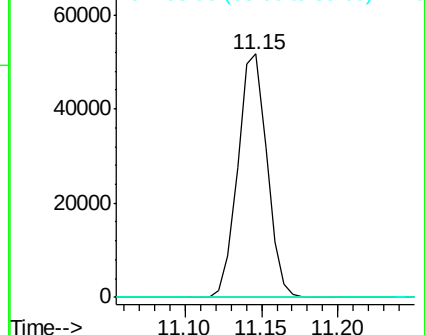
89 0.0 39.4 59.0#



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: 0.90 ug/l

RT: 11.82 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX000570.D

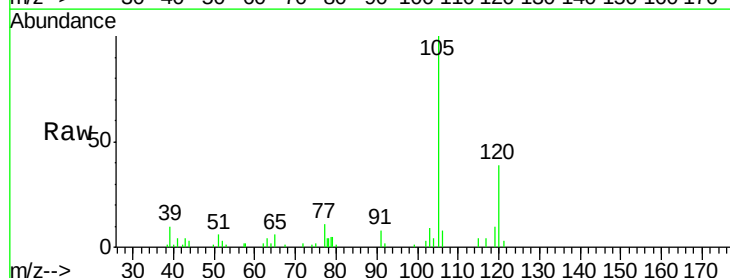
Acq: 30 Mar 2018 19:39

Tgt Ion: 105 Resp: 7495

Ion Ratio Lower Upper

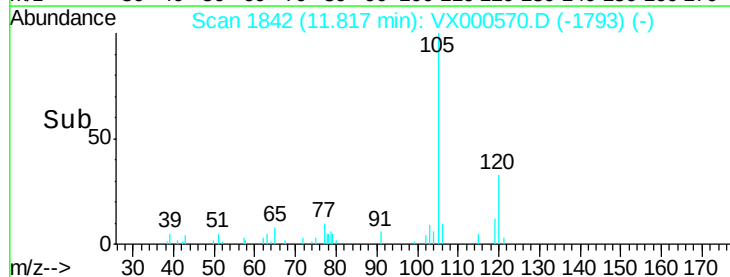
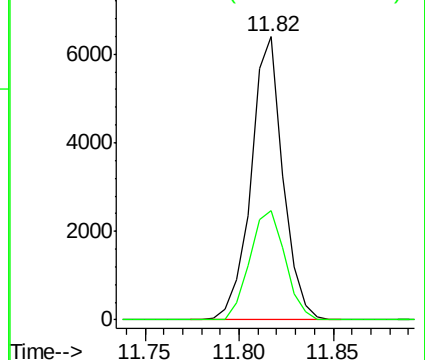
105 100

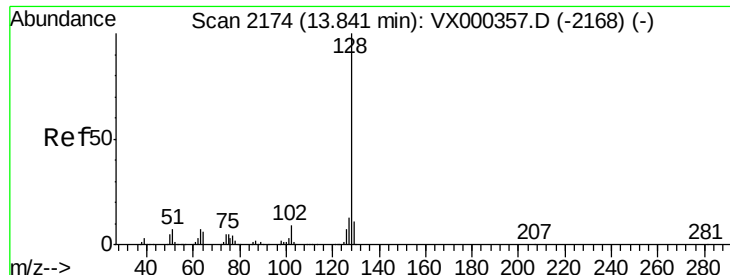
120 42.7 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 1.23 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX000570.D
Acq: 30 Mar 2018 19:39

Instrument :
MSVOA_X
ClientSampleId :
4538-9

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	11.1	8.9	13.3

